



## 15238 - The IMF to Planetary Masses Across the Milky Way

Cycle: 25, Proposal Category: GO

(JWST Initiative)

(Availability Mode: SUPPORTED)

### INVESTIGATORS

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### VISITS

| <i>Visit</i> | <i>Targets used in Visit</i> | <i>Configurations used in Visit</i> | <i>Orbits Used</i> | <i>Last Orbit Planner Run</i> | <i>OP Current with Visit?</i> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 03           | (7) WESTERLUND2-A            | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:11.0        | yes                           |
| 04           | (8) WESTERLUND2-B            | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:12.0        | yes                           |
| 05           | (9) WESTERLUND2-C            | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:14.0        | yes                           |
| 06           | (10) WESTERLUND2-D           | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:15.0        | yes                           |
| 07           | (11) WESTERLUND2-E           | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:17.0        | yes                           |

| <b>Visit</b> | <b>Targets used in Visit</b> | <b>Configurations used in Visit</b> | <b>Orbits Used</b> | <b>Last Orbit Planner Run</b> | <b>OP Current with Visit?</b> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 08           | (12) WESTERLUND2-F           | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:18.0        | yes                           |
| 1L           | (12) WESTERLUND2-F           | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:19.0        | yes                           |
| 09           | (13) WESTERLUND2-G           | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:21.0        | yes                           |
| 10           | (14) WESTERLUND2-H           | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:22.0        | yes                           |
| 11           | (15) WESTERLUND2-I           | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:23.0        | yes                           |
| 12           | (16) WESTERLUND2-J           | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:25.0        | yes                           |
| 13           | (17) WESTERLUND2-K           | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:27.0        | yes                           |
| 1O           | (17) WESTERLUND2-K           | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:28.0        | yes                           |
| 14           | (18) WESTERLUND2-L           | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:29.0        | yes                           |
| 15           | (19) WESTERLUND2-M           | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:31.0        | yes                           |
| 16           | (20) WESTERLUND2-N           | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:32.0        | yes                           |
| 17           | (21) WESTERLUND2-O           | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:33.0        | yes                           |
| 18           | (22) WESTERLUND2-P           | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:34.0        | yes                           |
| 19           | (23) WESTERLUND2-Q           | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:36.0        | yes                           |
| 20           | (24) M16EAGLENEBULA-A        | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:37.0        | yes                           |
| 21           | (25) M16EAGLENEBULA-B        | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:38.0        | yes                           |
| 22           | (26) M16EAGLENEBULA-C        | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:40.0        | yes                           |
| 23           | (27) M16EAGLENEBULA-D        | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:41.0        | yes                           |
| 24           | (28) M16EAGLENEBULA-E        | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:42.0        | yes                           |
| 25           | (29) M16EAGLENEBULA-F        | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:44.0        | yes                           |
| 26           | (30) M16EAGLENEBULA-G        | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:45.0        | yes                           |
| 27           | (31) M16EAGLENEBULA-H        | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:46.0        | yes                           |
| 28           | (32) M16EAGLENEBULA-I        | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:48.0        | yes                           |
| 29           | (33) M16EAGLENEBULA-J        | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:49.0        | yes                           |
| 30           | (34) M16EAGLENEBULA-K        | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:51.0        | yes                           |

| <b>Visit</b> | <b>Targets used in Visit</b>                       | <b>Configurations used in Visit</b> | <b>Orbits Used</b> | <b>Last Orbit Planner Run</b> | <b>OP Current with Visit?</b> |
|--------------|----------------------------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 31           | (35) M16EAGLENEBULA-L                              | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:52.0        | yes                           |
| 32           | (36) M16EAGLENEBULA-M                              | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:53.0        | yes                           |
| 33           | (37) M16EAGLENEBULA-N                              | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:55.0        | yes                           |
| 34           | (38) M16EAGLENEBULA-O                              | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:56.0        | yes                           |
| 35           | (39) M16EAGLENEBULA-P                              | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:57.0        | yes                           |
| 36           | (40) M16EAGLENEBULA-Q                              | WFC3/IR                             | 1                  | 10-Sep-2019 12:02:59.0        | yes                           |
| 37           | (41) M16EAGLENEBULA-R                              | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:00.0        | yes                           |
| 38           | (42) M16EAGLENEBULA-S                              | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:01.0        | yes                           |
| 39           | (43) M16EAGLENEBULA-T                              | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:03.0        | yes                           |
| 42           | (46) M16EAGLENEBULA-W                              | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:04.0        | yes                           |
| 43           | (47) M16EAGLENEBULA-X                              | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:05.0        | yes                           |
| 44           | (48) M16EAGLENEBULA-Y                              | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:07.0        | yes                           |
| 45           | (49) M16EAGLENEBULA-Z                              | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:08.0        | yes                           |
| 46           | (50) M17-A                                         | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:10.0        | yes                           |
| 47           | (51) M17-B                                         | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:11.0        | yes                           |
| 48           | (52) M17-C                                         | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:12.0        | yes                           |
| 1P           | (141) M17-X-P3<br>(142) M17-V-P3<br>(143) M17-C-P3 | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:14.0        | yes                           |
| 49           | (53) M17-D                                         | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:15.0        | yes                           |
| 50           | (54) M17-E                                         | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:16.0        | yes                           |
| 51           | (55) M17-F                                         | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:17.0        | yes                           |
| 52           | (56) M17-G                                         | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:19.0        | yes                           |
| 53           | (57) M17-H                                         | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:20.0        | yes                           |
| 54           | (58) M17-I                                         | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:21.0        | yes                           |
| 55           | (59) M17-J                                         | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:23.0        | yes                           |

| <b>Visit</b> | <b>Targets used in Visit</b> | <b>Configurations used in Visit</b> | <b>Orbits Used</b> | <b>Last Orbit Planner Run</b> | <b>OP Current with Visit?</b> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 56           | (60) M17-K                   | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:24.0        | yes                           |
| 57           | (61) M17-L                   | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:25.0        | yes                           |
| 58           | (62) M17-M                   | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:27.0        | yes                           |
| 59           | (63) M17-N                   | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:28.0        | yes                           |
| 60           | (64) M17-O                   | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:30.0        | yes                           |
| 61           | (65) M17-P                   | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:31.0        | yes                           |
| 62           | (66) M17-Q                   | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:32.0        | yes                           |
| 63           | (67) M17-R                   | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:34.0        | yes                           |
| 64           | (68) M17-S                   | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:35.0        | yes                           |
| 65           | (69) M17-T                   | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:36.0        | yes                           |
| 66           | (70) M17-U                   | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:38.0        | yes                           |
| 67           | (71) M17-V                   | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:39.0        | yes                           |
| 68           | (72) M17-W                   | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:40.0        | yes                           |
| 1M           | (72) M17-W                   | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:42.0        | yes                           |
| 69           | (73) M17-X                   | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:43.0        | yes                           |
| 70           | (74) M17-Y                   | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:44.0        | yes                           |
| 71           | (75) M17-Z                   | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:46.0        | yes                           |
| 72           | (76) M17-AA                  | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:47.0        | yes                           |
| 1N           | (76) M17-AA                  | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:49.0        | yes                           |
| 73           | (77) M17-BB                  | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:50.0        | yes                           |
| 74           | (78) M17-CC                  | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:51.0        | yes                           |
| 75           | (79) M17-DD                  | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:53.0        | yes                           |
| 76           | (80) W3-A                    | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:54.0        | yes                           |
| 78           | (81) W3-B                    | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:55.0        | yes                           |
| 79           | (82) W3-C                    | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:57.0        | yes                           |

| <b>Visit</b> | <b>Targets used in Visit</b> | <b>Configurations used in Visit</b> | <b>Orbits Used</b> | <b>Last Orbit Planner Run</b> | <b>OP Current with Visit?</b> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 80           | (83) W3-D                    | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:58.0        | yes                           |
| 81           | (84) W3-E                    | WFC3/IR                             | 1                  | 10-Sep-2019 12:03:59.0        | yes                           |
| 82           | (85) W3-F                    | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:01.0        | yes                           |
| 83           | (86) W3-G                    | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:02.0        | yes                           |
| 84           | (87) W3-H                    | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:03.0        | yes                           |
| 85           | (88) W3-I                    | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:05.0        | yes                           |
| 77           | (89) W3-J                    | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:06.0        | yes                           |
| 86           | (90) W3-K                    | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:07.0        | yes                           |
| 87           | (91) W3-L                    | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:09.0        | yes                           |
| 88           | (92) W3-M                    | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:10.0        | yes                           |
| 89           | (93) W3-N                    | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:12.0        | yes                           |
| 90           | (94) W3-O                    | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:13.0        | yes                           |
| 91           | (95) W3-P                    | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:14.0        | yes                           |
| 92           | (96) W3-Q                    | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:16.0        | yes                           |
| 93           | (97) W3-R                    | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:17.0        | yes                           |
| 94           | (98) W3-S                    | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:18.0        | yes                           |
| 95           | (99) W3-T                    | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:20.0        | yes                           |
| 96           | (100) W3-U                   | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:21.0        | yes                           |
| 97           | (101) W3-V                   | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:22.0        | yes                           |
| 98           | (102) W3-W                   | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:24.0        | yes                           |
| 99           | (103) W3-X                   | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:25.0        | yes                           |
| 0A           | (104) W3-Y                   | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:26.0        | yes                           |
| 0B           | (105) W3-Z                   | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:27.0        | yes                           |
| 0C           | (106) W3-AA                  | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:29.0        | yes                           |
| 0D           | (107) W3-BB                  | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:30.0        | yes                           |

| <b>Visit</b> | <b>Targets used in Visit</b> | <b>Configurations used in Visit</b> | <b>Orbits Used</b> | <b>Last Orbit Planner Run</b> | <b>OP Current with Visit?</b> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 0E           | (108) W3-CC                  | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:31.0        | yes                           |
| 0F           | (109) W3-DD                  | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:33.0        | yes                           |
| 0G           | (110) W3-EE                  | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:35.0        | yes                           |
| 0H           | (111) W3-FF                  | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:36.0        | yes                           |
| 0I           | (112) W3-GG                  | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:37.0        | yes                           |
| 0K           | (113) W3-HH                  | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:39.0        | yes                           |
| 1I           | (138) CARINANEBULA-Y         | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:40.0        | yes                           |
| 1H           | (137) CARINANEBULA-X         | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:41.0        | yes                           |
| 1F           | (135) CARINANEBULA-V         | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:42.0        | yes                           |
| 1G           | (136) CARINANEBULA-W         | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:44.0        | yes                           |
| 1E           | (134) CARINANEBULA-U         | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:45.0        | yes                           |
| 0J           | (114) CARINANEBULA-A         | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:46.0        | yes                           |
| 0L           | (115) CARINANEBULA-B         | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:48.0        | yes                           |
| 0M           | (116) CARINANEBULA-C         | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:49.0        | yes                           |
| 0N           | (117) CARINANEBULA-D         | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:50.0        | yes                           |
| 0O           | (118) CARINANEBULA-E         | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:52.0        | yes                           |
| 0P           | (119) CARINANEBULA-F         | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:53.0        | yes                           |
| 0Q           | (120) CARINANEBULA-G         | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:54.0        | yes                           |
| 0R           | (121) CARINANEBULA-H         | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:56.0        | yes                           |
| 0S           | (122) CARINANEBULA-I         | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:58.0        | yes                           |
| 0T           | (123) CARINANEBULA-J         | WFC3/IR                             | 1                  | 10-Sep-2019 12:04:59.0        | yes                           |
| 0U           | (124) CARINANEBULA-K         | WFC3/IR                             | 1                  | 10-Sep-2019 12:05:00.0        | yes                           |
| 0V           | (125) CARINANEBULA-L         | WFC3/IR                             | 1                  | 10-Sep-2019 12:05:02.0        | yes                           |
| 0W           | (126) CARINANEBULA-M         | WFC3/IR                             | 1                  | 10-Sep-2019 12:05:03.0        | yes                           |
| 0X           | (127) CARINANEBULA-N         | WFC3/IR                             | 1                  | 10-Sep-2019 12:05:04.0        | yes                           |

| <i>Visit</i> | <i>Targets used in Visit</i> | <i>Configurations used in Visit</i> | <i>Orbits Used</i> | <i>Last Orbit Planner Run</i> | <i>OP Current with Visit?</i> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 0Y           | (128) CARINANEBULA-O         | WFC3/IR                             | 1                  | 10-Sep-2019 12:05:06.0        | yes                           |
| 0Z           | (129) CARINANEBULA-P         | WFC3/IR                             | 1                  | 10-Sep-2019 12:05:07.0        | yes                           |
| 1A           | (130) CARINANEBULA-Q         | WFC3/IR                             | 1                  | 10-Sep-2019 12:05:08.0        | yes                           |
| 1B           | (131) CARINANEBULA-R         | WFC3/IR                             | 1                  | 10-Sep-2019 12:05:10.0        | yes                           |
| 1C           | (132) CARINANEBULA-S         | WFC3/IR                             | 1                  | 10-Sep-2019 12:05:11.0        | yes                           |
| 1D           | (133) CARINANEBULA-T         | WFC3/IR                             | 1                  | 10-Sep-2019 12:05:12.0        | yes                           |
| 1J           | (139) CARINANEBULA-Z1        | WFC3/IR                             | 1                  | 10-Sep-2019 12:05:14.0        | yes                           |
| 1K           | (140) CARINANEBULA-Z2        | WFC3/IR                             | 1                  | 10-Sep-2019 12:05:15.0        | yes                           |

137 Total Orbits Used

## ABSTRACT

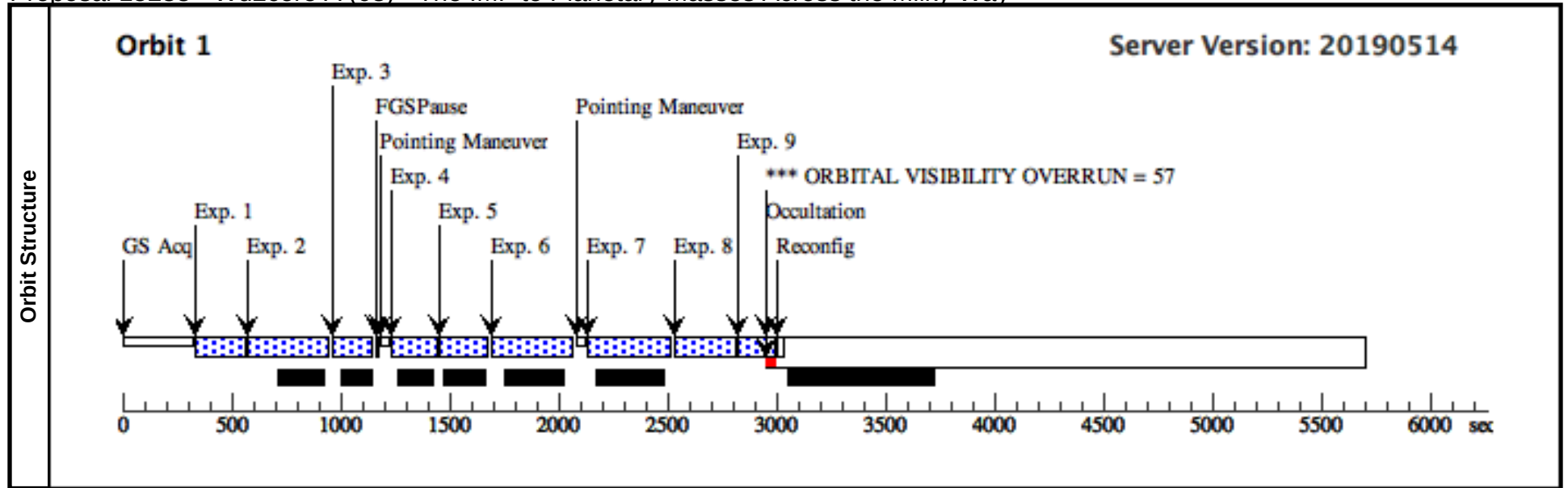
Observations have now verified the long-held theoretical assumption that the IMF extends into the planetary mass regime with the discovery of a small number of brown dwarfs as light as 5 MJup or below. Planetary-mass BDs are an extreme outcome of star formation, posing a strong test of the physics and conditions (e.g., gas density, turbulence, and temperature). There are strong theoretical arguments that the IMF should vary if these conditions change with environment, but this possibility remains untested since planetary-mass BDs have only been found in sparse associations. We propose to exploit a new fast-mosaic technique with WFC3/IR to map five benchmark star-forming regions that are more massive than any in the solar neighborhood; this survey will extend our census down the IMF into the planetary mass regime (3-5 MJup) and across environment from sparse associations (N=200) to massive clusters (N=50,000). We will map these clusters with three filters (F110W, F139M, F160W), exploiting water absorption in F139M to distinguish cool cluster members from reddened early-type field interlopers. In addition to identifying the bottom half of the IMF (0.5 Msun to 5 MJup) and measuring its slope and lowest extreme, we also will identify thousands of brown dwarfs (>1000 of which will fall below 15 MJup) for highly multiplexed JWST spectroscopy. Given the density of these clusters and extreme sensitivity but high overheads of JWST, multiplexed observations of dense cluster populations will yield the vast majority of spectra for free-floating exoplanet analogs over the next decade.

## OBSERVING DESCRIPTION

Pending

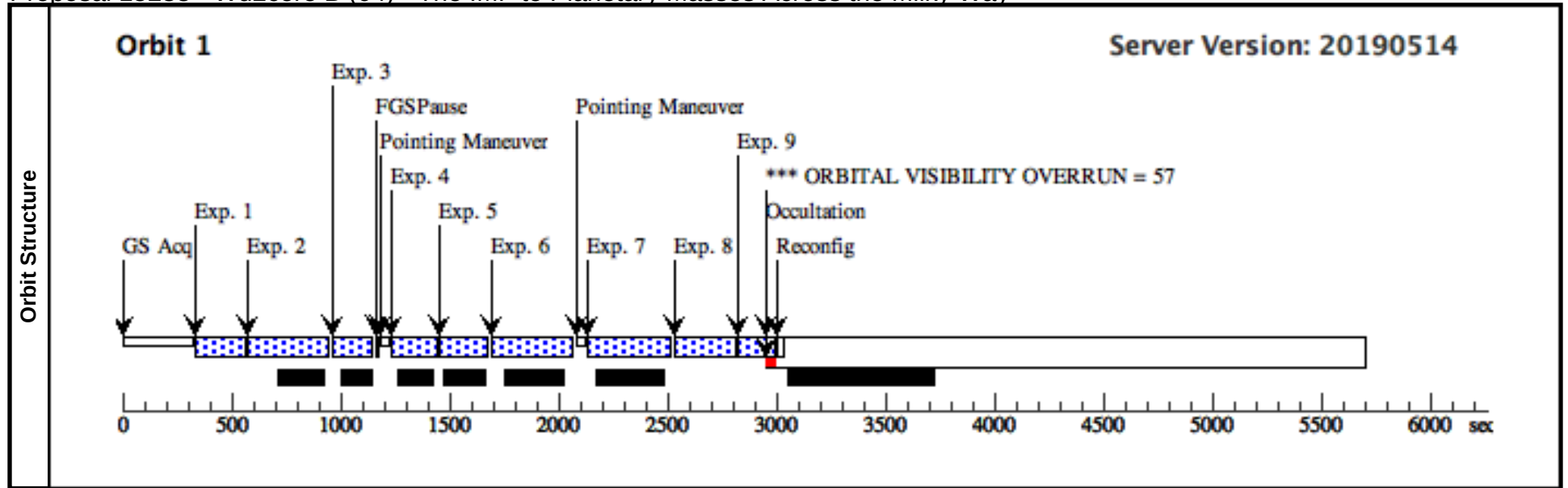
# Proposal 15238 - Wd2core A (03) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                                                                                                                                                                         |       |                    |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------|-----------------------------|---------------|--------------------------------|---------------------------------------|----------------------------------------|-----------------------------------------|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, Wd2core A (03), completed                                                                                                                                                                               |       |                    |                             |               |                                |                                       |                                        |                                         |  | Tue Sep 10 16:05:16 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                                                                                                                                                                              |       |                    |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                                                                                                                                                                         |       |                    |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 191D TO 191 D                                                                                                                                                                  |       |                    |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
| Diagnostics   | (Wd2core A (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                    |       |                    |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
|               | (Wd2core A (03)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                  |       |                    |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
|               | (Wd2core A (03)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                  |       |                    |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
|               | (Wd2core A (03)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                  |       |                    |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
|               | (Wd2core A (03)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                  |       |                    |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
|               | (Wd2core A (03)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                  |       |                    |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
|               | (Wd2core A (03)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                  |       |                    |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
| Fixed Targets | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                        |       |                    |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
|               | (7)                      WESTERLUND2-A                      RA: 10 24 38.1543 (156.1589763d)<br>Dec: -57 43 35.82 (-57.72662d)<br>Equinox: J2000<br><br>Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |       |                    |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
| Exposures     | #                                                                                                                                                                                                                       | Label | Target             | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                         | Groups                                 | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |  |  |
|               | 1                                                                                                                                                                                                                       |       | (7) WESTERLUND 2-A | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0                          | Sequence 1-9 Non-Int in Wd2core A (03) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 2                                                                                                                                                                                                                       |       | (7) WESTERLUND 2-A | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0                          | Sequence 1-9 Non-Int in Wd2core A (03) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 3                                                                                                                                                                                                                       |       | (7) WESTERLUND 2-A | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0                          | Sequence 1-9 Non-Int in Wd2core A (03) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 4                                                                                                                                                                                                                       |       | (7) WESTERLUND 2-A | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2core A (03) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 5                                                                                                                                                                                                                       |       | (7) WESTERLUND 2-A | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2core A (03) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 6                                                                                                                                                                                                                       |       | (7) WESTERLUND 2-A | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2core A (03) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 7                                                                                                                                                                                                                       |       | (7) WESTERLUND 2-A | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2core A (03) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 8                                                                                                                                                                                                                       |       | (7) WESTERLUND 2-A | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2core A (03) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 9                                                                                                                                                                                                                       |       | (7) WESTERLUND 2-A | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,234;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2core A (03) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |



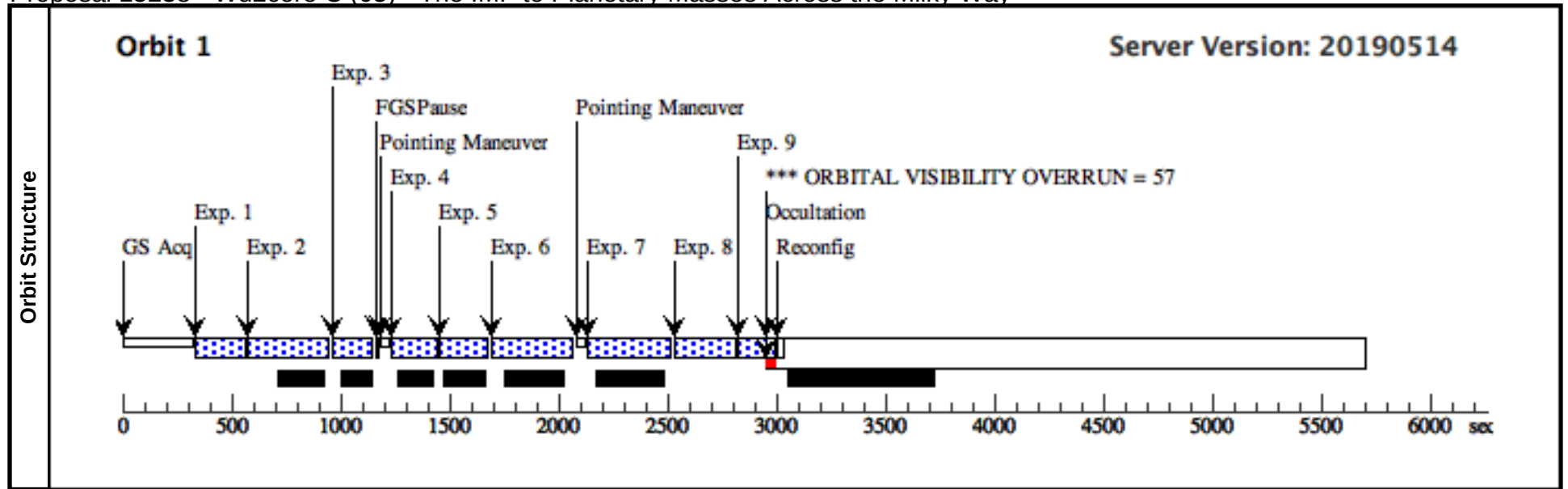
# Proposal 15238 - Wd2core B (04) - The IMF to Planetary Masses Across the Milky Way

|                                                                 |                                                                        |               |                                                                                      |                             |               |                                |                                      |                                        |                                         |                       |                              |  |  |  |
|-----------------------------------------------------------------|------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|--------------------------------------|----------------------------------------|-----------------------------------------|-----------------------|------------------------------|--|--|--|
| Visit                                                           | Proposal 15238, Wd2core B (04), completed                              |               |                                                                                      |                             |               |                                |                                      |                                        |                                         |                       | Tue Sep 10 16:05:17 GMT 2019 |  |  |  |
|                                                                 | Diagnostic Status: Warning                                             |               |                                                                                      |                             |               |                                |                                      |                                        |                                         |                       |                              |  |  |  |
|                                                                 | Scientific Instruments: WFC3/IR                                        |               |                                                                                      |                             |               |                                |                                      |                                        |                                         |                       |                              |  |  |  |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 191D TO 191 D                 |               |                                                                                      |                             |               |                                |                                      |                                        |                                         |                       |                              |  |  |  |
| Diagnostics                                                     | (Wd2core B (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |               |                                                                                      |                             |               |                                |                                      |                                        |                                         |                       |                              |  |  |  |
|                                                                 | (Wd2core B (04)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                      |                             |               |                                |                                      |                                        |                                         |                       |                              |  |  |  |
|                                                                 | (Wd2core B (04)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                      |                             |               |                                |                                      |                                        |                                         |                       |                              |  |  |  |
|                                                                 | (Wd2core B (04)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                      |                             |               |                                |                                      |                                        |                                         |                       |                              |  |  |  |
|                                                                 | (Wd2core B (04)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                      |                             |               |                                |                                      |                                        |                                         |                       |                              |  |  |  |
|                                                                 | (Wd2core B (04)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                      |                             |               |                                |                                      |                                        |                                         |                       |                              |  |  |  |
|                                                                 | (Wd2core B (04)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                      |                             |               |                                |                                      |                                        |                                         |                       |                              |  |  |  |
| Fixed Targets                                                   | #                                                                      | Name          | Target Coordinates                                                                   |                             |               | Targ. Coord. Corrections       |                                      | Fluxes                                 |                                         | Miscellaneous         |                              |  |  |  |
|                                                                 | (8)                                                                    | WESTERLUND2-B | RA: 10 24 28.6888 (156.1195367d)<br>Dec: -57 41 47.97 (-57.69666d)<br>Equinox: J2000 |                             |               |                                |                                      | V=20                                   |                                         | Reference Frame: ICRS |                              |  |  |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                        |               |                                                                                      |                             |               |                                |                                      |                                        |                                         |                       |                              |  |  |  |
| Exposures                                                       | #                                                                      | Label         | Target                                                                               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                        | Groups                                 | Exp. Time (Total)/[Actual Dur.]         |                       | Orbit                        |  |  |  |
|                                                                 | 1                                                                      |               | (8) WESTERLUND 2-B                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0                         | Sequence 1-9 Non-Int in Wd2core B (04) | 202.934095 Secs (202.934 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|                                                                 | 2                                                                      |               | (8) WESTERLUND 2-B                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0                         | Sequence 1-9 Non-Int in Wd2core B (04) | 352.935448 Secs (352.935 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|                                                                 | 3                                                                      |               | (8) WESTERLUND 2-B                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0                         | Sequence 1-9 Non-Int in Wd2core B (04) | 152.935381 Secs (152.935 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|                                                                 | 4                                                                      |               | (8) WESTERLUND 2-B                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2core B (04) | 177.935896 Secs (177.936 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|                                                                 | 5                                                                      |               | (8) WESTERLUND 2-B                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2core B (04) | 202.936411 Secs (202.936 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|                                                                 | 6                                                                      |               | (8) WESTERLUND 2-B                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2core B (04) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                       | [1]                          |  |  |  |
|                                                                 | 7                                                                      |               | (8) WESTERLUND 2-B                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2core B (04) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                       | [1]                          |  |  |  |
|                                                                 | 8                                                                      |               | (8) WESTERLUND 2-B                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2core B (04) | 252.937441 Secs (252.937 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|                                                                 | 9                                                                      |               | (8) WESTERLUND 2-B                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2core B (04) | 152.935381 Secs (152.935 Secs)<br>[==>] |                       | [1]                          |  |  |  |



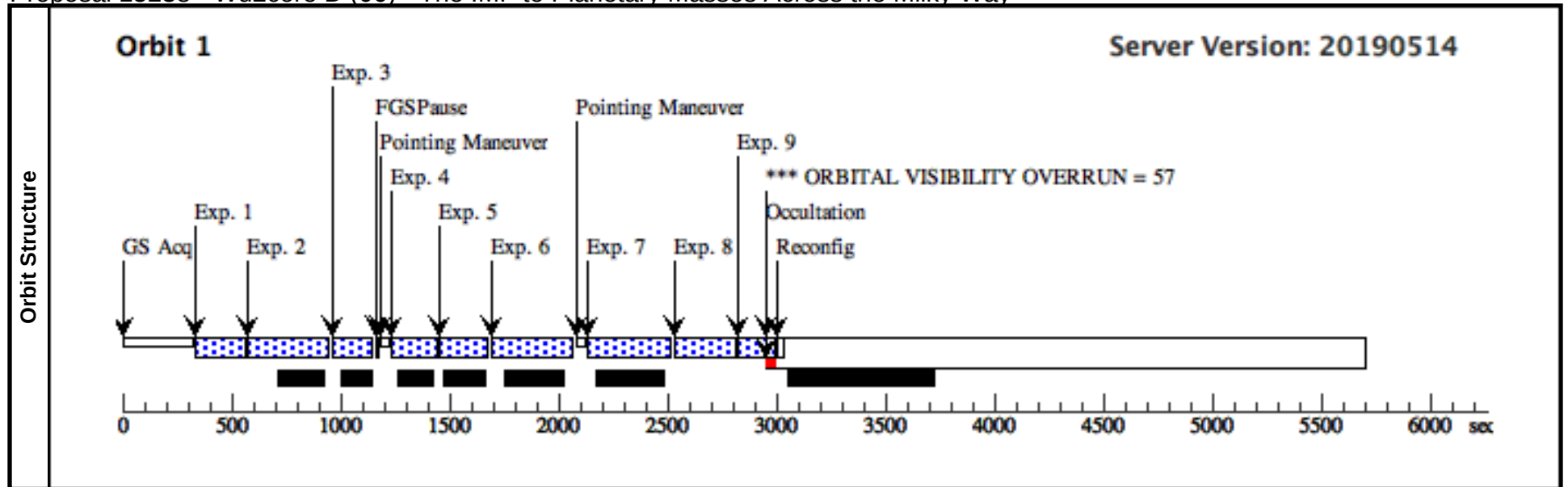
# Proposal 15238 - Wd2core C (05) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                        |               |                    |                                                                                      |               |                                |                                       |                                        |                                         |                              |       |  |
|---------------|------------------------------------------------------------------------|---------------|--------------------|--------------------------------------------------------------------------------------|---------------|--------------------------------|---------------------------------------|----------------------------------------|-----------------------------------------|------------------------------|-------|--|
| Visit         | Proposal 15238, Wd2core C (05), completed                              |               |                    |                                                                                      |               |                                |                                       |                                        |                                         | Tue Sep 10 16:05:17 GMT 2019 |       |  |
|               | Diagnostic Status: Warning                                             |               |                    |                                                                                      |               |                                |                                       |                                        |                                         |                              |       |  |
|               | Scientific Instruments: WFC3/IR                                        |               |                    |                                                                                      |               |                                |                                       |                                        |                                         |                              |       |  |
|               | Special Requirements: SCHED 100%; ORIENT 191D TO 191 D                 |               |                    |                                                                                      |               |                                |                                       |                                        |                                         |                              |       |  |
| Diagnostics   | (Wd2core C (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |               |                    |                                                                                      |               |                                |                                       |                                        |                                         |                              |       |  |
|               | (Wd2core C (05)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                    |                                                                                      |               |                                |                                       |                                        |                                         |                              |       |  |
|               | (Wd2core C (05)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                    |                                                                                      |               |                                |                                       |                                        |                                         |                              |       |  |
|               | (Wd2core C (05)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                    |                                                                                      |               |                                |                                       |                                        |                                         |                              |       |  |
|               | (Wd2core C (05)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                    |                                                                                      |               |                                |                                       |                                        |                                         |                              |       |  |
|               | (Wd2core C (05)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                    |                                                                                      |               |                                |                                       |                                        |                                         |                              |       |  |
|               | (Wd2core C (05)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                    |                                                                                      |               |                                |                                       |                                        |                                         |                              |       |  |
| Fixed Targets |                                                                        |               |                    |                                                                                      |               |                                |                                       |                                        |                                         |                              |       |  |
|               | #                                                                      | Name          |                    | Target Coordinates                                                                   |               | Targ. Coord. Corrections       |                                       | Fluxes                                 |                                         | Miscellaneous                |       |  |
|               | (9)                                                                    | WESTERLUND2-C |                    | RA: 10 23 28.2094 (155.8675392d)<br>Dec: -57 47 15.72 (-57.78770d)<br>Equinox: J2000 |               |                                |                                       | V=20                                   |                                         | Reference Frame: ICRS        |       |  |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]        |               |                    |                                                                                      |               |                                |                                       |                                        |                                         |                              |       |  |
| Exposures     | #                                                                      | Label         | Target             | Config,Mode,Aperture                                                                 | Spectral Els. | Opt. Params.                   | Special Reqs.                         | Groups                                 | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |  |
|               | 1                                                                      |               | (9) WESTERLUND 2-C | WFC3/IR, MULTIACCUM, IR-FIX                                                          | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0                          | Sequence 1-9 Non-Int in Wd2core C (05) | 202.934095 Secs (202.934 Secs)<br>[==>] |                              | [1]   |  |
|               | 2                                                                      |               | (9) WESTERLUND 2-C | WFC3/IR, MULTIACCUM, IR-FIX                                                          | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0                          | Sequence 1-9 Non-Int in Wd2core C (05) | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |  |
|               | 3                                                                      |               | (9) WESTERLUND 2-C | WFC3/IR, MULTIACCUM, IR-FIX                                                          | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0                          | Sequence 1-9 Non-Int in Wd2core C (05) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |
|               | 4                                                                      |               | (9) WESTERLUND 2-C | WFC3/IR, MULTIACCUM, IR-FIX                                                          | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,-117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2core C (05) | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |  |
|               | 5                                                                      |               | (9) WESTERLUND 2-C | WFC3/IR, MULTIACCUM, IR-FIX                                                          | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,-117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2core C (05) | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |  |
|               | 6                                                                      |               | (9) WESTERLUND 2-C | WFC3/IR, MULTIACCUM, IR-FIX                                                          | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,-117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2core C (05) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|               | 7                                                                      |               | (9) WESTERLUND 2-C | WFC3/IR, MULTIACCUM, IR-FIX                                                          | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,-234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2core C (05) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|               | 8                                                                      |               | (9) WESTERLUND 2-C | WFC3/IR, MULTIACCUM, IR-FIX                                                          | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,-234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2core C (05) | 252.937441 Secs (252.937 Secs)<br>[==>] |                              | [1]   |  |
|               | 9                                                                      |               | (9) WESTERLUND 2-C | WFC3/IR, MULTIACCUM, IR-FIX                                                          | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,-234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2core C (05) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |



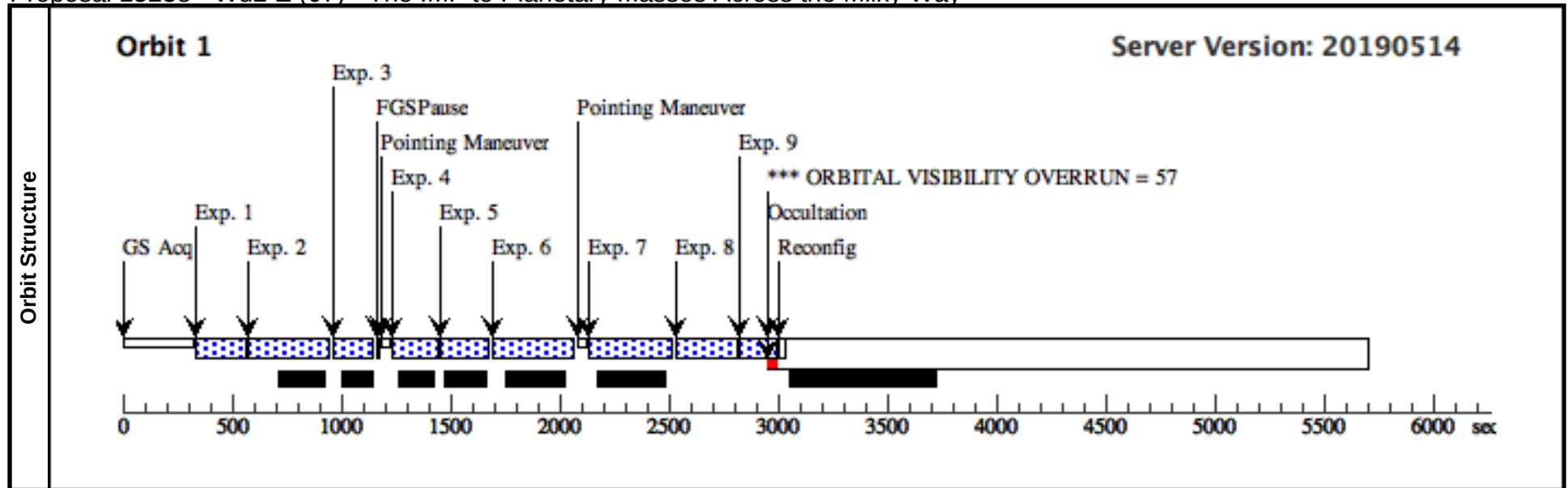
# Proposal 15238 - Wd2core D (06) - The IMF to Planetary Masses Across the Milky Way

|                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |                              |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|------------------------------|--|--|
| Visit                                                                                                                                                                                                                                                                                                                                                     | Proposal 15238, Wd2core D (06), completed                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:17 GMT 2019 |  |  |
|                                                                                                                                                                                                                                                                                                                                                           | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                           | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                           | Special Requirements: SCHED 100%; ORIENT 191D TO 191 D                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |                              |  |  |
| Diagnostics                                                                                                                                                                                                                                                                                                                                               | (Wd2core D (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                           | (Wd2core D (06)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                           | (Wd2core D (06)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                           | (Wd2core D (06)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                           | (Wd2core D (06)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                           | (Wd2core D (06)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                           | (Wd2core D (06)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |                              |  |  |
| Fixed Targets                                                                                                                                                                                                                                                                                                                                             | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                                                                                                                                                         |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                           | (10)                      WESTERLUND2-D                      RA: 10 23 37.5028 (155.9062617d)                                                                V=20                      Reference Frame: ICRS                                                                                                                                             |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                           | Dec: -57 49 3.91 (-57.81775d)                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                           | Equinox: J2000                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |                              |  |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |                              |  |  |
| Exposures                                                                                                                                                                                                                                                                                                                                                 | #                      Label                      Target                      Config,Mode,Aperture                      Spectral Els.                      Opt. Params.                      Special Reqs.                      Groups                      Exp. Time (Total)/[Actual Dur.]                      Orbit                                   |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                           | 1                                           (10) WESTERLUN D2-D                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=5;                      POS TARG 0,0                      Sequence 1-9 Non-Int in Wd2core D (06)                      202.934095 Secs (202.934 Secs)                      [1]     |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                           | SAMP-SEQ=SPAR S50                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                           | 2                                           (10) WESTERLUN D2-D                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=8;                      POS TARG 0,0                      Sequence 1-9 Non-Int in Wd2core D (06)                      352.935448 Secs (352.935 Secs)                      [1]     |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                           | SAMP-SEQ=SPAR S50                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                           | 3                                           (10) WESTERLUN D2-D                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;                      POS TARG 0,0                      Sequence 1-9 Non-Int in Wd2core D (06)                      152.935381 Secs (152.935 Secs)                      [1]     |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                           | SAMP-SEQ=SPAR S25                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                           | 4                                           (10) WESTERLUN D2-D                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=8;                      POS TARG 0,-117;                      Sequence 1-9 Non-Int in Wd2core D (06)                      177.935896 Secs (177.936 Secs)                      [1] |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                           | SAMP-SEQ=SPAR S25                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                           | 5                                           (10) WESTERLUN D2-D                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=9;                      POS TARG 0,-117;                      Sequence 1-9 Non-Int in Wd2core D (06)                      202.936411 Secs (202.936 Secs)                      [1] |  |  |  |  |  |  |  |  |                              |  |  |
| SAMP-SEQ=SPAR S25                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |                              |  |  |
| 6                                           (10) WESTERLUN D2-D                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=15;                      POS TARG 0,-117;                      Sequence 1-9 Non-Int in Wd2core D (06)                      352.939501 Secs (352.94 Secs)                      [1]  |                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |                              |  |  |
| SAMP-SEQ=SPAR S25                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |                              |  |  |
| 7                                           (10) WESTERLUN D2-D                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=15;                      POS TARG 0,-234;                      Sequence 1-9 Non-Int in Wd2core D (06)                      352.939501 Secs (352.94 Secs)                      [1]  |                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |                              |  |  |
| SAMP-SEQ=SPAR S25                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |                              |  |  |
| 8                                           (10) WESTERLUN D2-D                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=11;                      POS TARG 0,-234;                      Sequence 1-9 Non-Int in Wd2core D (06)                      252.937441 Secs (252.937 Secs)                      [1] |                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |                              |  |  |
| SAMP-SEQ=SPAR S25                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |                              |  |  |
| 9                                           (10) WESTERLUN D2-D                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;                      POS TARG 0,-234;                      Sequence 1-9 Non-Int in Wd2core D (06)                      152.935381 Secs (152.935 Secs)                      [1]  |                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |                              |  |  |
| SAMP-SEQ=SPAR S25                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |                              |  |  |



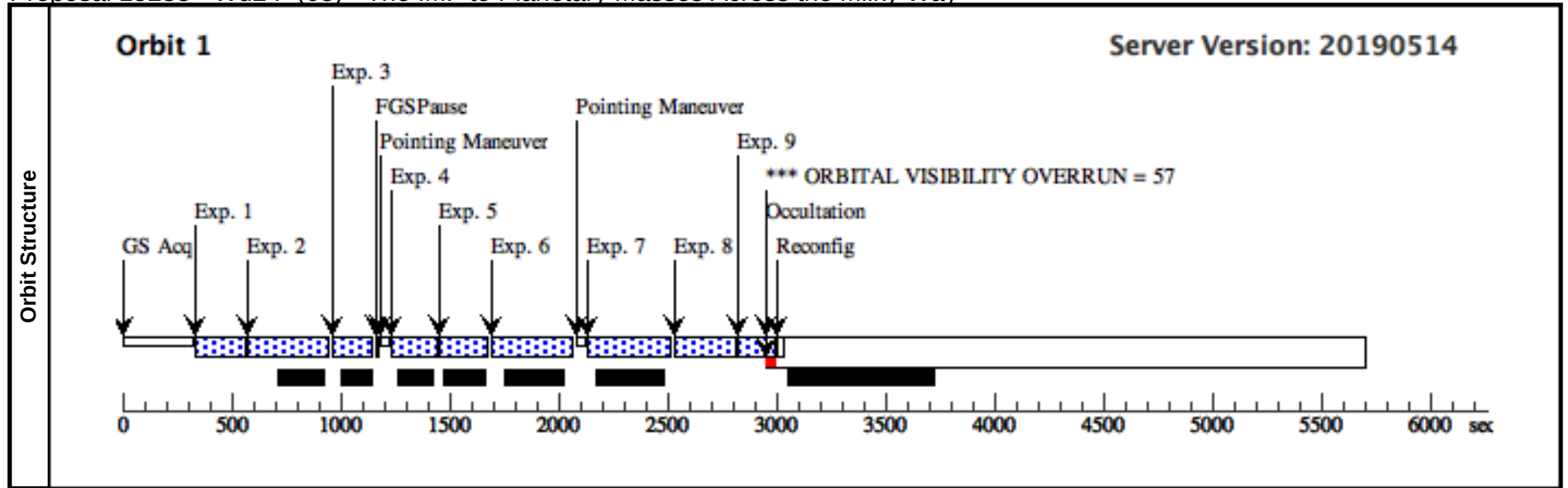
# Proposal 15238 - Wd2 E (07) - The IMF to Planetary Masses Across the Milky Way

| Visit                                                           | Proposal 15238, Wd2 E (07), completed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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|                     |                             |       |                               |                                       |                                    |                                         |     |   |  |                     |                             |       |                               |                                       |                                    |                                         |     |   |  |                     |                             |       |                                |                                       |                                    |                                        |     |   |  |                     |                             |       |                                |                                       |                                    |                                        |     |   |  |                     |                             |       |                                |           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|                                                                 | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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                            |                                    |                                         |     |   |  |                     |                             |       |                               |                                       |                                    |                                         |     |
|                                                                 | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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                            |                                    |                                         |     |   |  |                     |                             |       |                               |                                       |                                    |                                         |     |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 11D TO 11 D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                            |                                    |                                         |     |   |  |                     |                             |       |                               |                                       |                                    |                                         |     |
| Diagnostics                                                     | (Wd2 E (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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                            |                                    |                                         |     |   |  |                     |                             |       |                               |                                       |                                    |                                         |     |
|                                                                 | (Wd2 E (07)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                            |                                    |                                         |     |   |  |                     |                             |       |                               |                                       |                                    |                                         |     |
|                                                                 | (Wd2 E (07)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                            |                                    |                                         |     |   |  |                     |                             |       |                               |                                       |                                    |                                         |     |
|                                                                 | (Wd2 E (07)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                            |                                    |                                         |     |   |  |                     |                             |       |                               |                                       |                                    |                                         |     |
|                                                                 | (Wd2 E (07)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                            |                                    |                                         |     |   |  |                     |                             |       |                               |                                       |                                    |                                         |     |
|                                                                 | (Wd2 E (07)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                            |                                    |                                         |     |   |  |                     |                             |       |                               |                                       |                                    |                                         |     |
|                                                                 | (Wd2 E (07)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                            |                                    |                                         |     |   |  |                     |                             |       |                               |                                       |                                    |                                         |     |
| Fixed Targets                                                   | <table><tr><th>#</th><th>Name</th><th>Target Coordinates</th><th>Targ. Coord. Corrections</th><th>Fluxes</th><th>Miscellaneous</th></tr><tr><td>(11)</td><td>WESTERLUND2-E</td><td>RA: 10 23 55.4648 (155.9811033d)<br/>Dec: -57 42 10.75 (-57.70299d)<br/>Equinox: J2000</td><td></td><td>V=20</td><td>Reference Frame: ICRS</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                      |                             |                             |                               |                                       |                                       |                                         |                                         |                                 | #     | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes                      | Miscellaneous | (11)                          | WESTERLUND2-E | RA: 10 23 55.4648 (155.9811033d)<br>Dec: -57 42 10.75 (-57.70299d)<br>Equinox: J2000 |                                         | V=20 | Reference Frame: ICRS |  |                     |                             |       |                               |              |                                    |                                         |     |   |  |                     |                             |       |                               |              |                                    |                                         |     |   |  |                     |                             |       |                               |                                       |                                    |                                         |     |   |  |                     |                             |       |                               |                                       |                                    |                                         |     |   |  |                     |                             |       |                                |                                       |                                    |                                        |     |   |  |                     |                             |       |                                |                                       |                                    |                                        |     |   |  |                     |                             |       |                                |                                       |                                    |                                         |     |   |  |                     |                             |       |                               |                                       |                                    |                                         |     |
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Coord. Corrections    | Fluxes                        | Miscellaneous                         |                                       |                                         |                                         |                                 |       |      |                    |                          |                             |               |                               |               |                                                                                      |                                         |      |                       |  |                     |                             |       |                               |              |                                    |                                         |     |   |  |                     |                             |       |                               |              |                                    |                                         |     |   |  |                     |                             |       |                               |                                       |                                    |                                         |     |   |  |                     |                             |       |                               |                                       |                                    |                                         |     |   |  |                     |                             |       |                                |                                       |                                    |                                        |     |   |  |                     |                             |       |                                |                                       |                                    |                                        |     |   |  |                     |                             |       |                                |                                       |                                    |                                         |     |   |  |                     |                             |       |                               |                                       |                                    |                                         |     |
| (11)                                                            | WESTERLUND2-E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                       | V=20                        | Reference Frame: ICRS         |                                       |                                       |                                         |                                         |                                 |       |      |                    |                          |                             |               |                               |               |                                                                                      |                                         |      |                       |  |                     |                             |       |                               |              |                                    |                                         |     |   |  |                     |                             |       |                               |              |                                    |                                         |     |   |  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| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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                            |                                    |                                         |     |   |  |                     |                             |       |                               |                                       |                                    |                                         |     |
| Exposures                                                       | <table><tr><th>#</th><th>Label</th><th>Target</th><th>Config,Mode,Aperture</th><th>Spectral Els.</th><th>Opt. Params.</th><th>Special Reqs.</th><th>Groups</th><th>Exp. Time (Total)/[Actual Dur.]</th><th>Orbit</th></tr><tr><td>1</td><td></td><td>(11) WESTERLUN D2-E</td><td>WFC3/IR, MULTIACCUM, IR-FIX</td><td>F110W</td><td>NSAMP=5;<br/>SAMP-SEQ=SPAR S50</td><td>POS TARG 0,0</td><td>Sequence 1-9 Non-Int in Wd2 E (07)</td><td>202.934095 Secs (202.934 Secs)<br/>[==&gt;]</td><td>[1]</td></tr><tr><td>2</td><td></td><td>(11) WESTERLUN D2-E</td><td>WFC3/IR, MULTIACCUM, IR-FIX</td><td>F139M</td><td>NSAMP=8;<br/>SAMP-SEQ=SPAR S50</td><td>POS TARG 0,0</td><td>Sequence 1-9 Non-Int in Wd2 E (07)</td><td>352.935448 Secs (352.935 Secs)<br/>[==&gt;]</td><td>[1]</td></tr><tr><td>3</td><td></td><td>(11) WESTERLUN D2-E</td><td>WFC3/IR, MULTIACCUM, IR-FIX</td><td>F160W</td><td>NSAMP=7;<br/>SAMP-SEQ=SPAR S25</td><td>POS TARG 0,0</td><td>Sequence 1-9 Non-Int in Wd2 E (07)</td><td>152.935381 Secs (152.935 Secs)<br/>[==&gt;]</td><td>[1]</td></tr><tr><td>4</td><td></td><td>(11) WESTERLUN D2-E</td><td>WFC3/IR, MULTIACCUM, IR-FIX</td><td>F160W</td><td>NSAMP=8;<br/>SAMP-SEQ=SPAR S25</td><td>POS TARG 0,117;<br/>EXP PCS MODE G YRO</td><td>Sequence 1-9 Non-Int in Wd2 E (07)</td><td>177.935896 Secs (177.936 Secs)<br/>[==&gt;]</td><td>[1]</td></tr><tr><td>5</td><td></td><td>(11) WESTERLUN D2-E</td><td>WFC3/IR, MULTIACCUM, IR-FIX</td><td>F110W</td><td>NSAMP=9;<br/>SAMP-SEQ=SPAR S25</td><td>POS TARG 0,117;<br/>EXP PCS MODE G YRO</td><td>Sequence 1-9 Non-Int in Wd2 E (07)</td><td>202.936411 Secs (202.936 Secs)<br/>[==&gt;]</td><td>[1]</td></tr><tr><td>6</td><td></td><td>(11) WESTERLUN D2-E</td><td>WFC3/IR, MULTIACCUM, IR-FIX</td><td>F139M</td><td>NSAMP=15;<br/>SAMP-SEQ=SPAR S25</td><td>POS TARG 0,117;<br/>EXP PCS MODE G YRO</td><td>Sequence 1-9 Non-Int in Wd2 E (07)</td><td>352.939501 Secs (352.94 Secs)<br/>[==&gt;]</td><td>[1]</td></tr><tr><td>7</td><td></td><td>(11) WESTERLUN D2-E</td><td>WFC3/IR, MULTIACCUM, IR-FIX</td><td>F139M</td><td>NSAMP=15;<br/>SAMP-SEQ=SPAR S25</td><td>POS TARG 0,234;<br/>EXP PCS MODE G YRO</td><td>Sequence 1-9 Non-Int in Wd2 E (07)</td><td>352.939501 Secs (352.94 Secs)<br/>[==&gt;]</td><td>[1]</td></tr><tr><td>8</td><td></td><td>(11) WESTERLUN D2-E</td><td>WFC3/IR, MULTIACCUM, IR-FIX</td><td>F110W</td><td>NSAMP=11;<br/>SAMP-SEQ=SPAR S25</td><td>POS TARG 0,234;<br/>EXP PCS MODE G YRO</td><td>Sequence 1-9 Non-Int in Wd2 E (07)</td><td>252.937441 Secs (252.937 Secs)<br/>[==&gt;]</td><td>[1]</td></tr><tr><td>9</td><td></td><td>(11) WESTERLUN D2-E</td><td>WFC3/IR, MULTIACCUM, IR-FIX</td><td>F160W</td><td>NSAMP=7;<br/>SAMP-SEQ=SPAR S25</td><td>POS TARG 0,234;<br/>EXP PCS MODE G YRO</td><td>Sequence 1-9 Non-Int in Wd2 E (07)</td><td>152.935381 Secs (152.935 Secs)<br/>[==&gt;]</td><td>[1]</td></tr></table> | #                                                                                    | Label                       | Target                      | Config,Mode,Aperture          | Spectral Els.                         | Opt. 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Time (Total)/[Actual Dur.] | Orbit | 1    |                    | (11) WESTERLUN D2-E      | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50 | POS TARG 0,0  | Sequence 1-9 Non-Int in Wd2 E (07)                                                   | 202.934095 Secs (202.934 Secs)<br>[==>] | [1]  | 2                     |  | (11) WESTERLUN D2-E | WFC3/IR, MULTIACCUM, IR-FIX | F139M | NSAMP=8;<br>SAMP-SEQ=SPAR S50 | POS TARG 0,0 | Sequence 1-9 Non-Int in Wd2 E (07) | 352.935448 Secs (352.935 Secs)<br>[==>] | [1] | 3 |  | (11) WESTERLUN D2-E | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=7;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,0 | Sequence 1-9 Non-Int in Wd2 E (07) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1] | 4 |  | (11) WESTERLUN D2-E | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 E (07) | 177.935896 Secs (177.936 Secs)<br>[==>] | [1] | 5 |  | (11) WESTERLUN D2-E | WFC3/IR, MULTIACCUM, IR-FIX | F110W | NSAMP=9;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 E (07) | 202.936411 Secs (202.936 Secs)<br>[==>] | [1] | 6 |  | (11) WESTERLUN D2-E | WFC3/IR, MULTIACCUM, IR-FIX | F139M | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 E (07) | 352.939501 Secs (352.94 Secs)<br>[==>] | [1] | 7 |  | (11) WESTERLUN D2-E | WFC3/IR, MULTIACCUM, IR-FIX | F139M | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 E (07) | 352.939501 Secs (352.94 Secs)<br>[==>] | [1] | 8 |  | (11) WESTERLUN D2-E | WFC3/IR, MULTIACCUM, IR-FIX | F110W | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 E (07) | 252.937441 Secs (252.937 Secs)<br>[==>] | [1] | 9 |  | (11) WESTERLUN D2-E | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=7;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 E (07) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1] |
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WESTERLUN D2-E         | WFC3/IR, MULTIACCUM, IR-FIX | F110W                         | NSAMP=5;<br>SAMP-SEQ=SPAR S50         | POS TARG 0,0                          | Sequence 1-9 Non-Int in Wd2 E (07)      | 202.934095 Secs (202.934 Secs)<br>[==>] | [1]                             |       |      |                    |                          |                             |               |                               |               |                                                                                      |                                         |      |                       |  |                     |                             |       |                               |              |                                    |                                         |     |   |  |                     |                             |       |                               |              |                                    |                                         |     |   |  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WESTERLUN D2-E         | WFC3/IR, MULTIACCUM, IR-FIX | F139M                         | NSAMP=8;<br>SAMP-SEQ=SPAR S50         | POS TARG 0,0                          | Sequence 1-9 Non-Int in Wd2 E (07)      | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]                             |       |      |                    |                          |                             |               |                               |               |                                                                                      |                                         |      |                       |  |                     |                             |       |                               |              |                                    |                                         |     |   |  |                     |                             |       |                               |              |                                    |                                         |     |   |  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WESTERLUN D2-E         | WFC3/IR, MULTIACCUM, IR-FIX | F160W                         | NSAMP=7;<br>SAMP-SEQ=SPAR S25         | POS TARG 0,0                          | Sequence 1-9 Non-Int in Wd2 E (07)      | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]                             |       |      |                    |                          |                             |               |                               |               |                                                                                      |                                         |      |                       |  |                     |                             |       |                               |              |                                    |                                         |     |   |  |                     |                             |       |                               |              |                                    |                                         |     |   |  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WESTERLUN D2-E         | WFC3/IR, MULTIACCUM, IR-FIX | F110W                         | NSAMP=9;<br>SAMP-SEQ=SPAR S25         | POS TARG 0,117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 E (07)      | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]                             |       |      |                    |                          |                             |               |                               |               |                                                                                      |                                         |      |                       |  |                     |                             |       |                               |              |                                    |                                         |     |   |  |                     |                             |       |                               |              |                                    |                                         |     |   |  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WESTERLUN D2-E         | WFC3/IR, MULTIACCUM, IR-FIX | F139M                         | NSAMP=15;<br>SAMP-SEQ=SPAR S25        | POS TARG 0,234;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 E (07)      | 352.939501 Secs (352.94 Secs)<br>[==>]  | [1]                             |       |      |                    |                          |                             |               |                               |               |                                                                                      |                                         |      |                       |  |                     |                             |       |                               |              |                                    |                                         |     |   |  |                     |                             |       |                               |              |                                    |                                         |     |   |  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|                                                                 | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (11) WESTERLUN D2-E                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F160W                       | NSAMP=7;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 E (07)    | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]                                     |                                 |       |      |                    |                          |                             |               |                               |               |                                                                                      |                                         |      |                       |  |                     |                             |       |                               |              |                                    |                                         |     |   |  |                     |                             |       |                               |              |                                    |                                         |     |   |  |                     |                             |       |                               |                                       |                                    |                                         |     |   |  |                     |                             |       |                               |                                       |                                    |                                         |     |   |  |                     |                             |       |                                |                                       |                                    |                                        |     |   |  |                     |                             |       |                                |                                       |                                    |                                        |     |   |  |                     |                             |       |                                |                                       |                                    |                                         |     |   |  |                     |                             |       |                               |                                       |                                    |                                         |     |



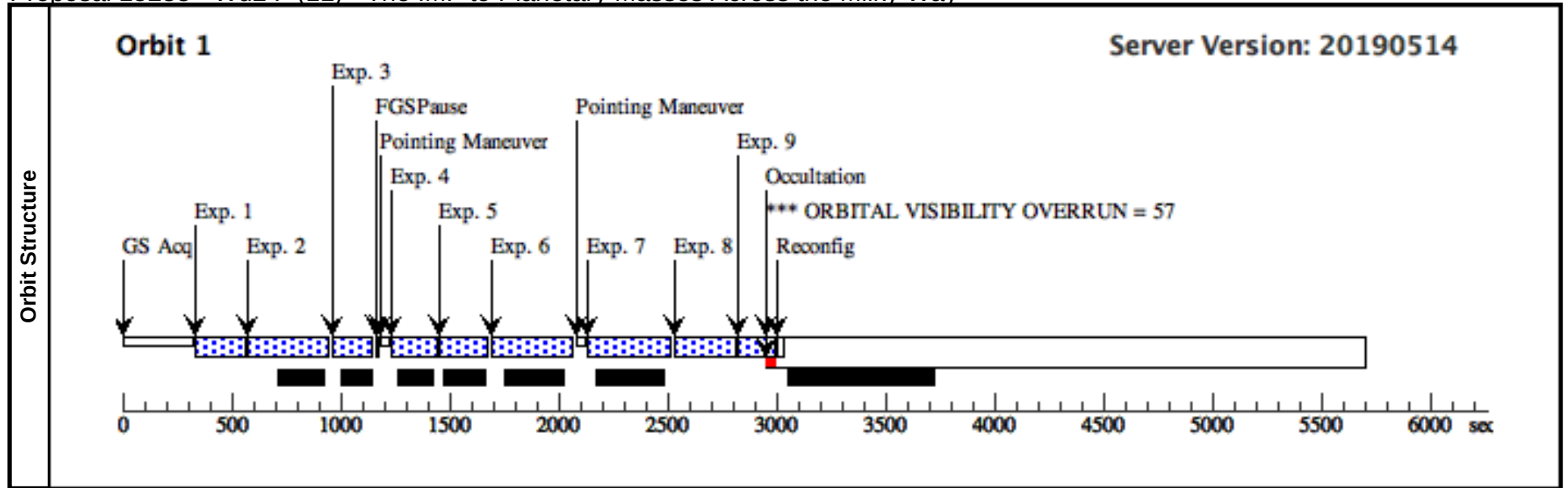
# Proposal 15238 - Wd2 F (08) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                    |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|---------------|--------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|--------------------------------------|------------------------------------|-----------------------------------------|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, Wd2 F (08), failed                                 |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  | Tue Sep 10 16:05:17 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                         |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                    |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 11D TO 11 D               |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
| Diagnostics   | (Wd2 F (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 F (08)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 F (08)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 F (08)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 F (08)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 F (08)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 F (08)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
| Fixed Targets | #                                                                  |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | Name                                                               |       | Target Coordinates                                                                   |                             |               | Targ. Coord. Corrections       |                                      |                                    | Fluxes                                  |  | Miscellaneous                |  |  |  |
|               | (12) WESTERLUND2-F                                                 |       | RA: 10 23 19.3982 (155.8308258d)<br>Dec: -57 45 25.88 (-57.75719d)<br>Equinox: J2000 |                             |               |                                |                                      |                                    | V=20                                    |  | Reference Frame: ICRS        |  |  |  |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]    |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
| Exposures     | #                                                                  | Label | Target                                                                               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                        | Groups                             | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |  |  |
|               | 1                                                                  |       | (12) WESTERLUN D2-F                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0                         | Sequence 1-9 Non-Int in Wd2 F (08) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 2                                                                  |       | (12) WESTERLUN D2-F                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0                         | Sequence 1-9 Non-Int in Wd2 F (08) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 3                                                                  |       | (12) WESTERLUN D2-F                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0                         | Sequence 1-9 Non-Int in Wd2 F (08) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 4                                                                  |       | (12) WESTERLUN D2-F                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 F (08) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 5                                                                  |       | (12) WESTERLUN D2-F                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 F (08) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 6                                                                  |       | (12) WESTERLUN D2-F                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 F (08) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 7                                                                  |       | (12) WESTERLUN D2-F                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 F (08) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 8                                                                  |       | (12) WESTERLUN D2-F                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 F (08) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 9                                                                  |       | (12) WESTERLUN D2-F                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 F (08) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |



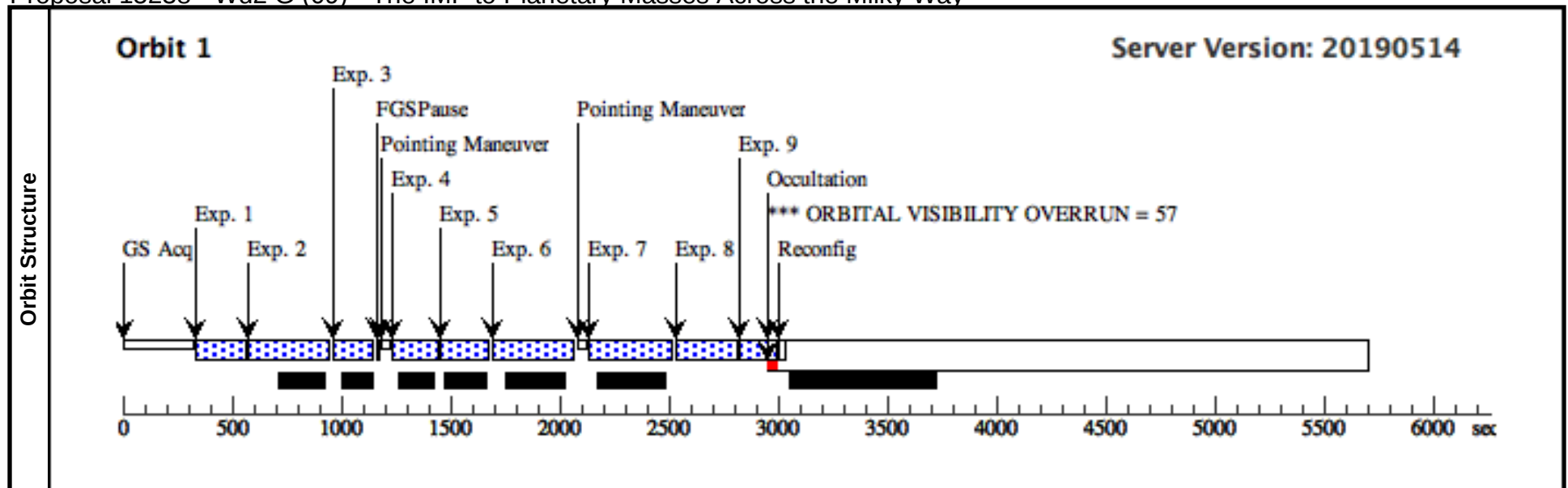
# Proposal 15238 - Wd2 F (1L) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                    |               |                                                                                      |                             |               |                                |                                       |                                    |                                         |                       |                              |  |  |  |
|---------------|--------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|---------------------------------------|------------------------------------|-----------------------------------------|-----------------------|------------------------------|--|--|--|
| Visit         | Proposal 15238, Wd2 F (1L), completed                              |               |                                                                                      |                             |               |                                |                                       |                                    |                                         |                       | Tue Sep 10 16:05:17 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                         |               |                                                                                      |                             |               |                                |                                       |                                    |                                         |                       |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                    |               |                                                                                      |                             |               |                                |                                       |                                    |                                         |                       |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 11D TO 11 D               |               |                                                                                      |                             |               |                                |                                       |                                    |                                         |                       |                              |  |  |  |
| Diagnostics   | (Wd2 F (1L)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |               |                                                                                      |                             |               |                                |                                       |                                    |                                         |                       |                              |  |  |  |
|               | (Wd2 F (1L)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                      |                             |               |                                |                                       |                                    |                                         |                       |                              |  |  |  |
|               | (Wd2 F (1L)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                      |                             |               |                                |                                       |                                    |                                         |                       |                              |  |  |  |
|               | (Wd2 F (1L)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                      |                             |               |                                |                                       |                                    |                                         |                       |                              |  |  |  |
|               | (Wd2 F (1L)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                      |                             |               |                                |                                       |                                    |                                         |                       |                              |  |  |  |
|               | (Wd2 F (1L)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                      |                             |               |                                |                                       |                                    |                                         |                       |                              |  |  |  |
|               | (Wd2 F (1L)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                      |                             |               |                                |                                       |                                    |                                         |                       |                              |  |  |  |
| Fixed Targets | #                                                                  | Name          | Target Coordinates                                                                   |                             |               | Targ. Coord. Corrections       |                                       | Fluxes                             |                                         | Miscellaneous         |                              |  |  |  |
|               | (12)                                                               | WESTERLUND2-F | RA: 10 23 19.3982 (155.8308258d)<br>Dec: -57 45 25.88 (-57.75719d)<br>Equinox: J2000 |                             |               |                                |                                       | V=20                               |                                         | Reference Frame: ICRS |                              |  |  |  |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]    |               |                                                                                      |                             |               |                                |                                       |                                    |                                         |                       |                              |  |  |  |
|               |                                                                    |               |                                                                                      |                             |               |                                |                                       |                                    |                                         |                       |                              |  |  |  |
| Exposures     | #                                                                  | Label         | Target                                                                               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                         | Groups                             | Exp. Time (Total)/[Actual Dur.]         |                       | Orbit                        |  |  |  |
|               | 1                                                                  |               | (12) WESTERLUN D2-F                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0                          | Sequence 1-9 Non-Int in Wd2 F (1L) | 202.934095 Secs (202.934 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|               | 2                                                                  |               | (12) WESTERLUN D2-F                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0                          | Sequence 1-9 Non-Int in Wd2 F (1L) | 352.935448 Secs (352.935 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|               | 3                                                                  |               | (12) WESTERLUN D2-F                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0                          | Sequence 1-9 Non-Int in Wd2 F (1L) | 152.935381 Secs (152.935 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|               | 4                                                                  |               | (12) WESTERLUN D2-F                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 F (1L) | 177.935896 Secs (177.936 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|               | 5                                                                  |               | (12) WESTERLUN D2-F                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 F (1L) | 202.936411 Secs (202.936 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|               | 6                                                                  |               | (12) WESTERLUN D2-F                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 F (1L) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                       | [1]                          |  |  |  |
|               | 7                                                                  |               | (12) WESTERLUN D2-F                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 F (1L) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                       | [1]                          |  |  |  |
|               | 8                                                                  |               | (12) WESTERLUN D2-F                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 F (1L) | 252.937441 Secs (252.937 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|               | 9                                                                  |               | (12) WESTERLUN D2-F                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,234;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 F (1L) | 152.935381 Secs (152.935 Secs)<br>[==>] |                       | [1]                          |  |  |  |



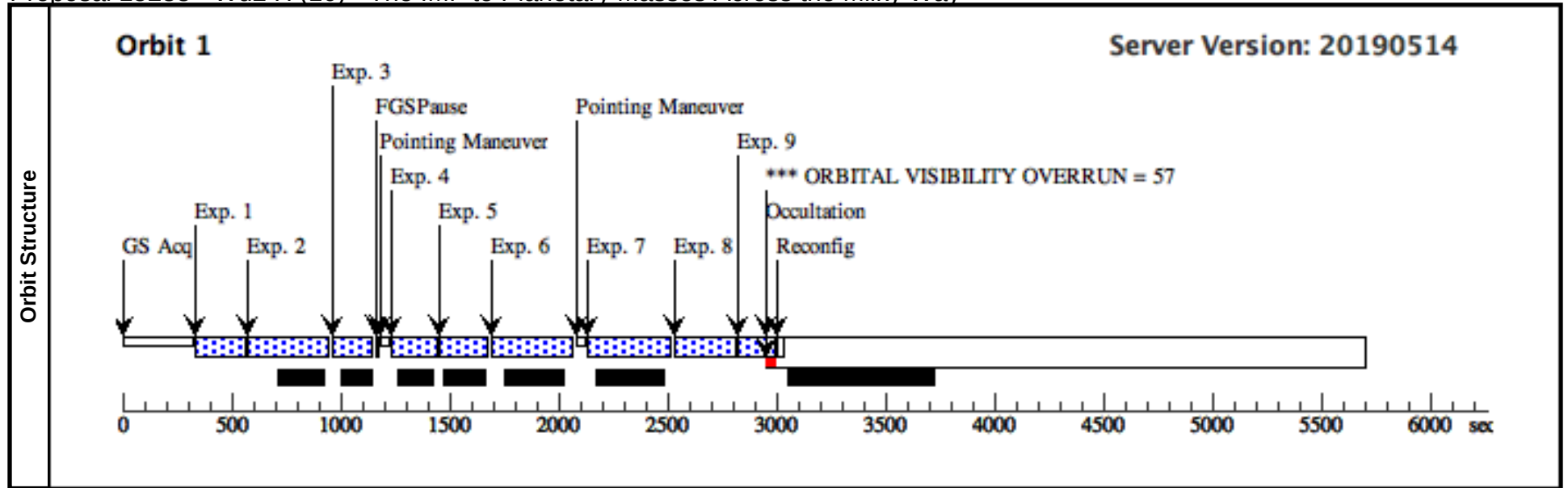
# Proposal 15238 - Wd2 G (09) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                                                                                                                                                                          |       |                     |                             |               |                                |                                       |                                    |                                         |  |                              |  |  |  |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------|-----------------------------|---------------|--------------------------------|---------------------------------------|------------------------------------|-----------------------------------------|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, Wd2 G (09), completed                                                                                                                                                                                    |       |                     |                             |               |                                |                                       |                                    |                                         |  | Tue Sep 10 16:05:17 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                                                                                                                                                                               |       |                     |                             |               |                                |                                       |                                    |                                         |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                                                                                                                                                                          |       |                     |                             |               |                                |                                       |                                    |                                         |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 11D TO 11 D                                                                                                                                                                     |       |                     |                             |               |                                |                                       |                                    |                                         |  |                              |  |  |  |
| Diagnostics   | (Wd2 G (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                         |       |                     |                             |               |                                |                                       |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 G (09)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                       |       |                     |                             |               |                                |                                       |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 G (09)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                       |       |                     |                             |               |                                |                                       |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 G (09)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                       |       |                     |                             |               |                                |                                       |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 G (09)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                       |       |                     |                             |               |                                |                                       |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 G (09)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                       |       |                     |                             |               |                                |                                       |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 G (09)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                       |       |                     |                             |               |                                |                                       |                                    |                                         |  |                              |  |  |  |
| Fixed Targets | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                         |       |                     |                             |               |                                |                                       |                                    |                                         |  |                              |  |  |  |
|               | (13)                      WESTERLUND2-G                      RA: 10 24 23.3620 (156.0973417d)<br>Dec: -57 47 33.86 (-57.79274d)<br>Equinox: J2000<br><br>Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |       |                     |                             |               |                                |                                       |                                    |                                         |  |                              |  |  |  |
| Exposures     | #                                                                                                                                                                                                                        | Label | Target              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                         | Groups                             | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |  |  |
|               | 1                                                                                                                                                                                                                        |       | (13) WESTERLUN D2-G | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0                          | Sequence 1-9 Non-Int in Wd2 G (09) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 2                                                                                                                                                                                                                        |       | (13) WESTERLUN D2-G | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0                          | Sequence 1-9 Non-Int in Wd2 G (09) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 3                                                                                                                                                                                                                        |       | (13) WESTERLUN D2-G | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0                          | Sequence 1-9 Non-Int in Wd2 G (09) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 4                                                                                                                                                                                                                        |       | (13) WESTERLUN D2-G | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 G (09) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 5                                                                                                                                                                                                                        |       | (13) WESTERLUN D2-G | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 G (09) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 6                                                                                                                                                                                                                        |       | (13) WESTERLUN D2-G | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 G (09) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 7                                                                                                                                                                                                                        |       | (13) WESTERLUN D2-G | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 G (09) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 8                                                                                                                                                                                                                        |       | (13) WESTERLUN D2-G | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 G (09) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 9                                                                                                                                                                                                                        |       | (13) WESTERLUN D2-G | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,234;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 G (09) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |



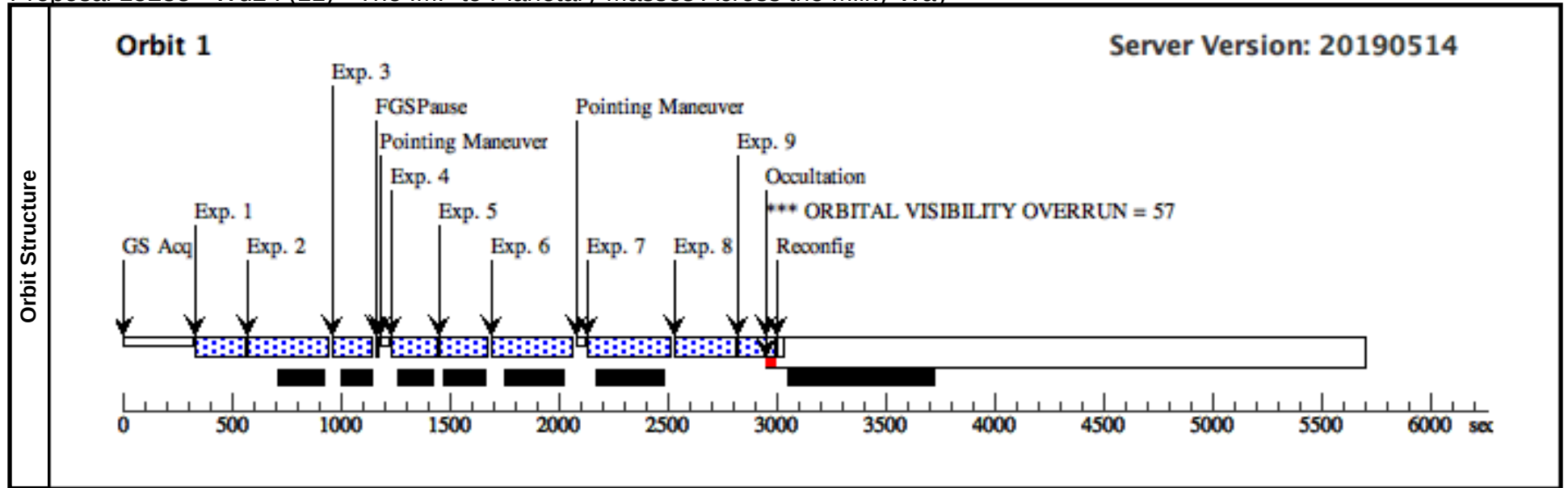
# Proposal 15238 - Wd2 H (10) - The IMF to Planetary Masses Across the Milky Way

|                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |                              |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|------------------------------|--|--|
| Visit                                                                                                                                                                                                                                                                                                                                                                           | Proposal 15238, Wd2 H (10), completed                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:17 GMT 2019 |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                 | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                 | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                 | Special Requirements: SCHED 100%; ORIENT 11D TO 11 D                                                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |                              |  |  |
| Diagnostics                                                                                                                                                                                                                                                                                                                                                                     | (Wd2 H (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                 | (Wd2 H (10)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                 | (Wd2 H (10)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                 | (Wd2 H (10)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                 | (Wd2 H (10)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                 | (Wd2 H (10)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                 | (Wd2 H (10)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |                              |  |  |
| Fixed Targets                                                                                                                                                                                                                                                                                                                                                                   | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                                                                                                                                                                               |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                 | (14)                      WESTERLUND2-H                      RA: 10 23 46.9782 (155.9457425d)                                           V=20                      Reference Frame: ICRS                                                                                                                                                                                        |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                 | Dec: -57 50 50.87 (-57.84746d)                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                 | Equinox: J2000                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |                              |  |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |                              |  |  |
| Exposures                                                                                                                                                                                                                                                                                                                                                                       | #                      Label                      Target                      Config,Mode,Aperture                      Spectral Els.                      Opt. Params.                      Special Reqs.                      Groups                      Exp. Time (Total)/[Actual Dur.]                      Orbit                                                         |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                 | 1                                           (14) WESTERLUN D2-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=5;                      POS TARG 0,0                      Sequence 1-9 Non-Int in Wd2 H (10)                      202.934095 Secs (202.934 Secs)                      [==>]                      [1]    |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                 | SAMP-SEQ=SPAR S50                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                 | 2                                           (14) WESTERLUN D2-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=8;                      POS TARG 0,0                      Sequence 1-9 Non-Int in Wd2 H (10)                      352.935448 Secs (352.935 Secs)                      [==>]                      [1]    |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                 | SAMP-SEQ=SPAR S50                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                 | 3                                           (14) WESTERLUN D2-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;                      POS TARG 0,0                      Sequence 1-9 Non-Int in Wd2 H (10)                      152.935381 Secs (152.935 Secs)                      [==>]                      [1]    |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                 | SAMP-SEQ=SPAR S25                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                 | 4                                           (14) WESTERLUN D2-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=8;                      POS TARG 0,117;                      Sequence 1-9 Non-Int in Wd2 H (10)                      177.935896 Secs (177.936 Secs)                      [==>]                      [1] |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                 | SAMP-SEQ=SPAR S25                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                 | 5                                           (14) WESTERLUN D2-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=9;                      POS TARG 0,117;                      Sequence 1-9 Non-Int in Wd2 H (10)                      202.936411 Secs (202.936 Secs)                      [==>]                      [1] |  |  |  |  |  |  |  |  |                              |  |  |
| SAMP-SEQ=SPAR S25                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |                              |  |  |
| 6                                           (14) WESTERLUN D2-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=15;                      POS TARG 0,117;                      Sequence 1-9 Non-Int in Wd2 H (10)                      352.939501 Secs (352.94 Secs)                      [==>]                      [1]  |                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |                              |  |  |
| SAMP-SEQ=SPAR S25                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |                              |  |  |
| 7                                           (14) WESTERLUN D2-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=15;                      POS TARG 0,234;                      Sequence 1-9 Non-Int in Wd2 H (10)                      352.939501 Secs (352.94 Secs)                      [==>]                      [1]  |                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |                              |  |  |
| SAMP-SEQ=SPAR S25                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |                              |  |  |
| 8                                           (14) WESTERLUN D2-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=11;                      POS TARG 0,234;                      Sequence 1-9 Non-Int in Wd2 H (10)                      252.937441 Secs (252.937 Secs)                      [==>]                      [1] |                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |                              |  |  |
| SAMP-SEQ=SPAR S25                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |                              |  |  |
| 9                                           (14) WESTERLUN D2-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;                      POS TARG 0,234;                      Sequence 1-9 Non-Int in Wd2 H (10)                      152.935381 Secs (152.935 Secs)                      [==>]                      [1]  |                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |                              |  |  |
| SAMP-SEQ=SPAR S25                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |                              |  |  |



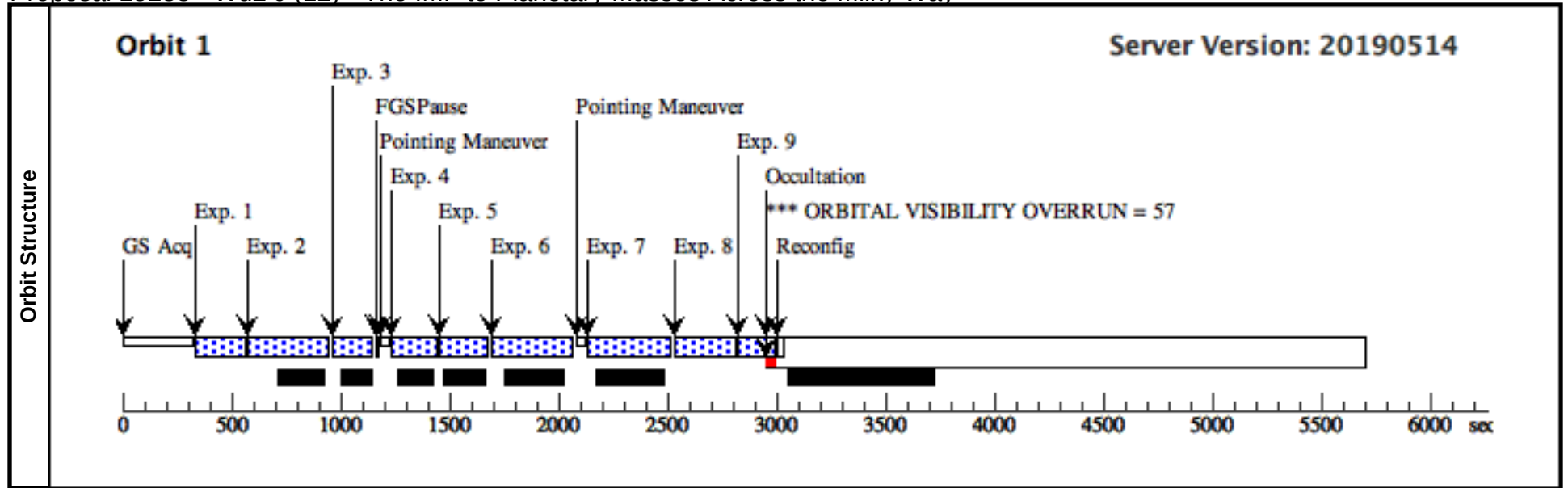
# Proposal 15238 - Wd2 I (11) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|---------------|--------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, Wd2 I (11), completed                              |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:17 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 11D TO 11 D               |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics   | (Wd2 I (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (Wd2 I (11)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (Wd2 I (11)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (Wd2 I (11)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (Wd2 I (11)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (Wd2 I (11)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (Wd2 I (11)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets | #            Name                                                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |



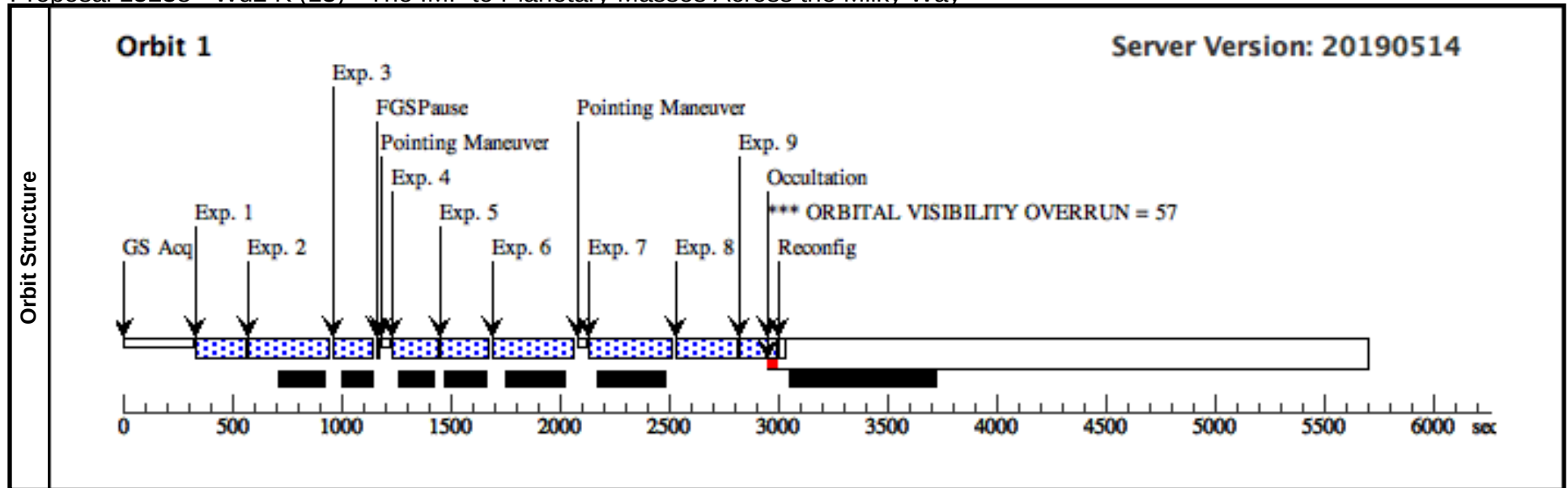
# Proposal 15238 - Wd2 J (12) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                    |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|---------------|--------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|--------------------------------------|------------------------------------|-----------------------------------------|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, Wd2 J (12), completed                              |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  | Tue Sep 10 16:05:17 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                         |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                    |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 11D TO 11 D               |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
| Diagnostics   | (Wd2 J (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 J (12)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 J (12)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 J (12)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 J (12)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 J (12)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 J (12)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
| Fixed Targets | #                                                                  |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | Name                                                               |       | Target Coordinates                                                                   |                             |               | Targ. Coord. Corrections       |                                      |                                    | Fluxes                                  |  | Miscellaneous                |  |  |  |
|               | (16) WESTERLUND2-J                                                 |       | RA: 10 23 56.1837 (155.9840987d)<br>Dec: -57 52 39.70 (-57.87769d)<br>Equinox: J2000 |                             |               |                                |                                      |                                    | V=20                                    |  | Reference Frame: ICRS        |  |  |  |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]    |       |                                                                                      |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
| Exposures     | #                                                                  | Label | Target                                                                               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                        | Groups                             | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |  |  |
|               | 1                                                                  |       | (16) WESTERLUN D2-J                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0                         | Sequence 1-9 Non-Int in Wd2 J (12) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 2                                                                  |       | (16) WESTERLUN D2-J                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0                         | Sequence 1-9 Non-Int in Wd2 J (12) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 3                                                                  |       | (16) WESTERLUN D2-J                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0                         | Sequence 1-9 Non-Int in Wd2 J (12) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 4                                                                  |       | (16) WESTERLUN D2-J                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 J (12) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 5                                                                  |       | (16) WESTERLUN D2-J                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 J (12) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 6                                                                  |       | (16) WESTERLUN D2-J                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 J (12) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 7                                                                  |       | (16) WESTERLUN D2-J                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 J (12) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 8                                                                  |       | (16) WESTERLUN D2-J                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 J (12) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 9                                                                  |       | (16) WESTERLUN D2-J                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 J (12) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |



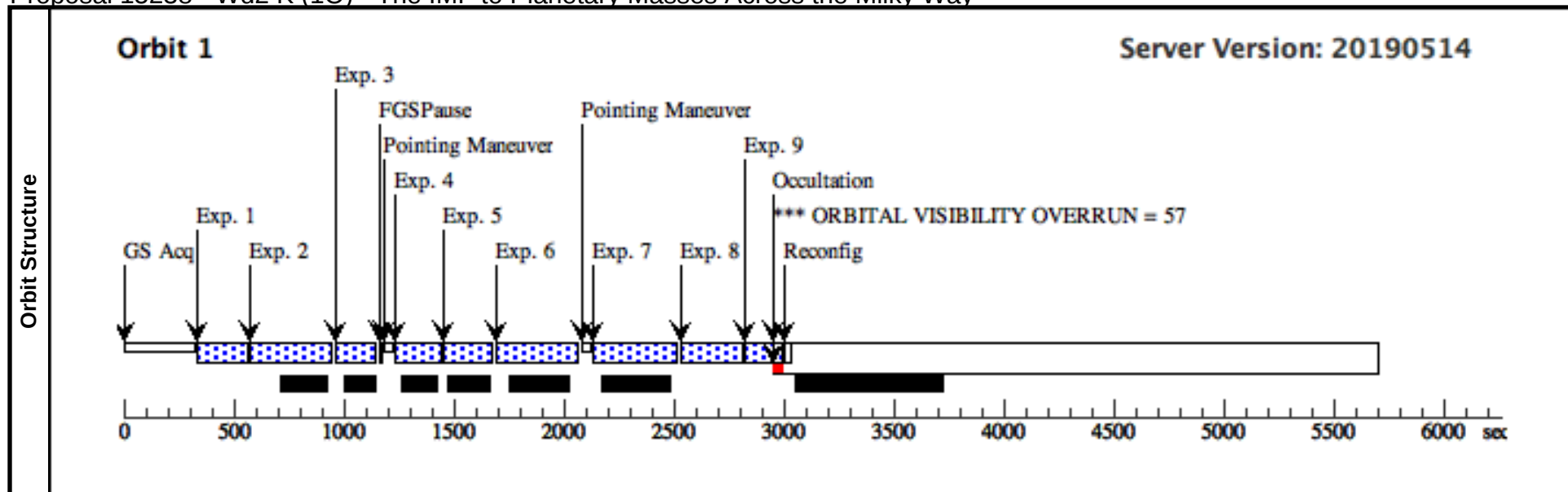
# Proposal 15238 - Wd2 K (13) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                                                                                                                                                                          |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------|-----------------------------|---------------|--------------------------------|--------------------------------------|------------------------------------|-----------------------------------------|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, Wd2 K (13), failed                                                                                                                                                                                       |       |                     |                             |               |                                |                                      |                                    |                                         |  | Tue Sep 10 16:05:17 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                                                                                                                                                                               |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                                                                                                                                                                          |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 11D TO 11 D                                                                                                                                                                     |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
| Diagnostics   | (Wd2 K (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                         |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 K (13)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                       |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 K (13)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                       |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 K (13)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                       |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 K (13)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                       |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 K (13)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                       |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 K (13)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                       |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
| Fixed Targets | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                         |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (17)                      WESTERLUND2-K                      RA: 10 23 46.3677 (155.9431987d)<br>Dec: -57 40 23.73 (-57.67326d)<br>Equinox: J2000<br><br>Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
| Exposures     | #                                                                                                                                                                                                                        | Label | Target              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                        | Groups                             | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |  |  |
|               | 1                                                                                                                                                                                                                        |       | (17) WESTERLUN D2-K | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0                         | Sequence 1-9 Non-Int in Wd2 K (13) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 2                                                                                                                                                                                                                        |       | (17) WESTERLUN D2-K | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0                         | Sequence 1-9 Non-Int in Wd2 K (13) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 3                                                                                                                                                                                                                        |       | (17) WESTERLUN D2-K | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0                         | Sequence 1-9 Non-Int in Wd2 K (13) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 4                                                                                                                                                                                                                        |       | (17) WESTERLUN D2-K | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 K (13) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 5                                                                                                                                                                                                                        |       | (17) WESTERLUN D2-K | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 K (13) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 6                                                                                                                                                                                                                        |       | (17) WESTERLUN D2-K | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 K (13) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 7                                                                                                                                                                                                                        |       | (17) WESTERLUN D2-K | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 K (13) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 8                                                                                                                                                                                                                        |       | (17) WESTERLUN D2-K | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 K (13) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 9                                                                                                                                                                                                                        |       | (17) WESTERLUN D2-K | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 K (13) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |



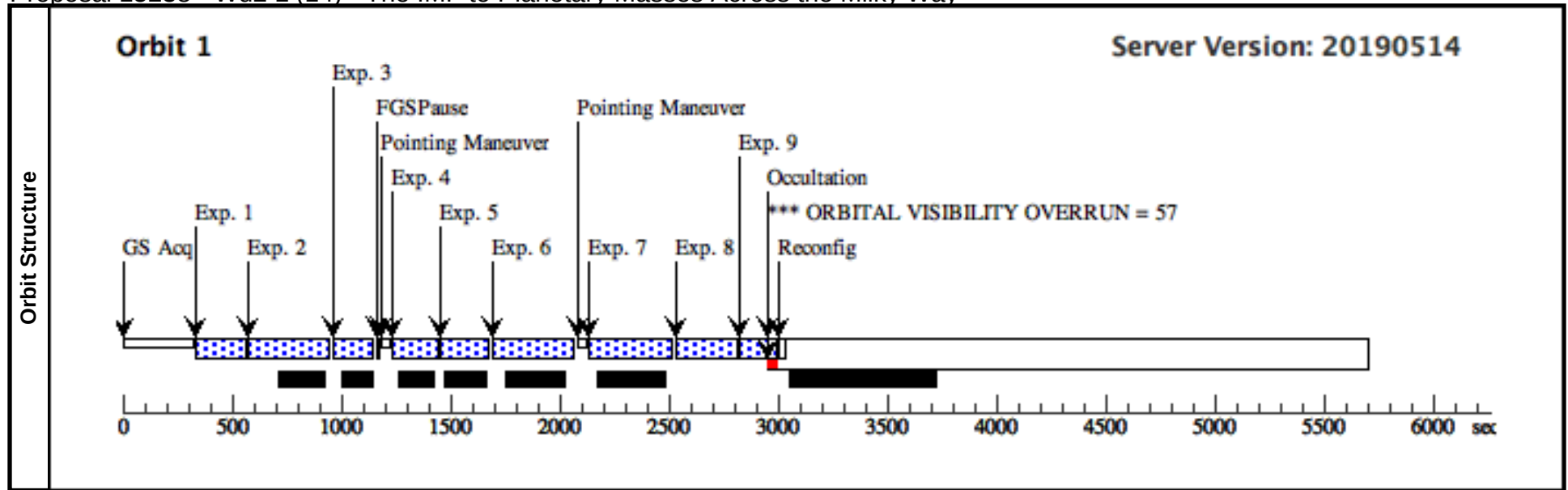
# Proposal 15238 - Wd2 K (1O) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                                                                                                                                                                          |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------|-----------------------------|---------------|--------------------------------|--------------------------------------|------------------------------------|-----------------------------------------|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, Wd2 K (1O), scheduling                                                                                                                                                                                   |       |                     |                             |               |                                |                                      |                                    |                                         |  | Tue Sep 10 16:05:17 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                                                                                                                                                                               |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                                                                                                                                                                          |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 11D TO 11 D                                                                                                                                                                     |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
| Diagnostics   | (Wd2 K (1O)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                         |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 K (1O)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                       |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 K (1O)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                       |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 K (1O)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                       |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 K (1O)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                       |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 K (1O)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                       |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (Wd2 K (1O)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                       |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
| Fixed Targets | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                         |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
|               | (17)                      WESTERLUND2-K                      RA: 10 23 46.3677 (155.9431987d)<br>Dec: -57 40 23.73 (-57.67326d)<br>Equinox: J2000<br><br>Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |       |                     |                             |               |                                |                                      |                                    |                                         |  |                              |  |  |  |
| Exposures     | #                                                                                                                                                                                                                        | Label | Target              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                        | Groups                             | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |  |  |
|               | 1                                                                                                                                                                                                                        |       | (17) WESTERLUN D2-K | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0                         | Sequence 1-9 Non-Int in Wd2 K (1O) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 2                                                                                                                                                                                                                        |       | (17) WESTERLUN D2-K | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0                         | Sequence 1-9 Non-Int in Wd2 K (1O) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 3                                                                                                                                                                                                                        |       | (17) WESTERLUN D2-K | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0                         | Sequence 1-9 Non-Int in Wd2 K (1O) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 4                                                                                                                                                                                                                        |       | (17) WESTERLUN D2-K | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 K (1O) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 5                                                                                                                                                                                                                        |       | (17) WESTERLUN D2-K | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 K (1O) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 6                                                                                                                                                                                                                        |       | (17) WESTERLUN D2-K | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 K (1O) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 7                                                                                                                                                                                                                        |       | (17) WESTERLUN D2-K | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 K (1O) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 8                                                                                                                                                                                                                        |       | (17) WESTERLUN D2-K | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 K (1O) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 9                                                                                                                                                                                                                        |       | (17) WESTERLUN D2-K | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 K (1O) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |



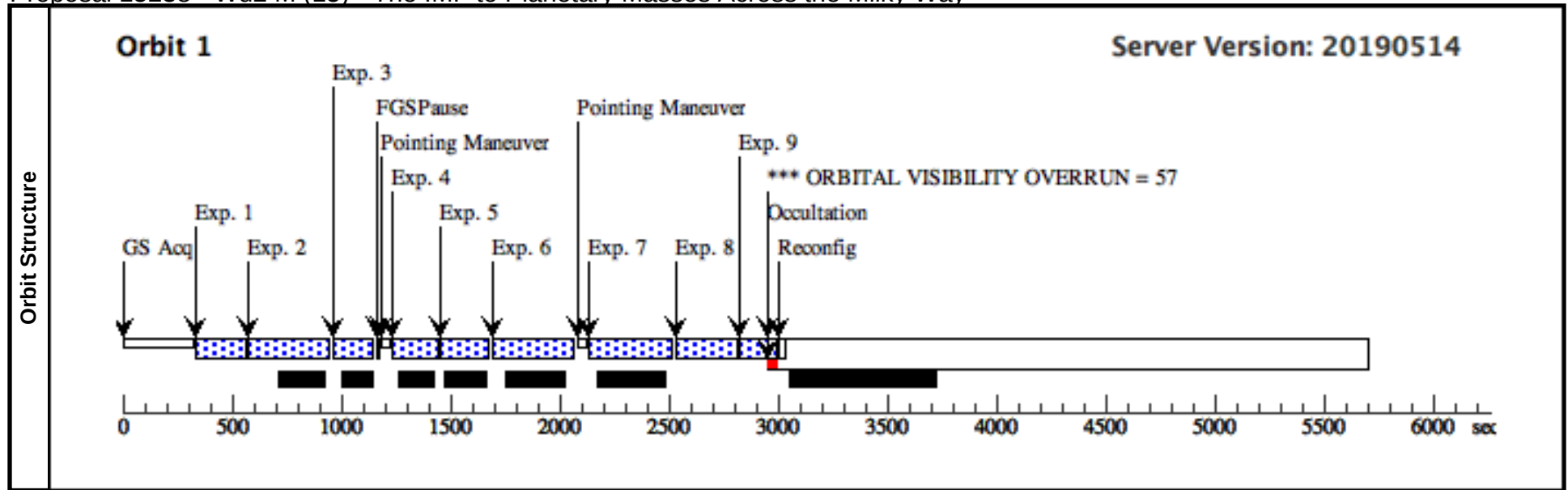
# Proposal 15238 - Wd2 L (14) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                    |               |                                                                                      |                             |  |                          |                                |        |                                      |                                    |                                         |  |       |
|---------------|--------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------------|-----------------------------|--|--------------------------|--------------------------------|--------|--------------------------------------|------------------------------------|-----------------------------------------|--|-------|
| Visit         | Proposal 15238, Wd2 L (14), completed                              |               |                                                                                      |                             |  |                          |                                |        |                                      | Tue Sep 10 16:05:17 GMT 2019       |                                         |  |       |
|               | Diagnostic Status: Warning                                         |               |                                                                                      |                             |  |                          |                                |        |                                      |                                    |                                         |  |       |
|               | Scientific Instruments: WFC3/IR                                    |               |                                                                                      |                             |  |                          |                                |        |                                      |                                    |                                         |  |       |
|               | Special Requirements: SCHED 100%; ORIENT 11D TO 11 D               |               |                                                                                      |                             |  |                          |                                |        |                                      |                                    |                                         |  |       |
| Diagnostics   | (Wd2 L (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |               |                                                                                      |                             |  |                          |                                |        |                                      |                                    |                                         |  |       |
|               | (Wd2 L (14)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                      |                             |  |                          |                                |        |                                      |                                    |                                         |  |       |
|               | (Wd2 L (14)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                      |                             |  |                          |                                |        |                                      |                                    |                                         |  |       |
|               | (Wd2 L (14)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                      |                             |  |                          |                                |        |                                      |                                    |                                         |  |       |
|               | (Wd2 L (14)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                      |                             |  |                          |                                |        |                                      |                                    |                                         |  |       |
|               | (Wd2 L (14)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                      |                             |  |                          |                                |        |                                      |                                    |                                         |  |       |
|               | (Wd2 L (14)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                      |                             |  |                          |                                |        |                                      |                                    |                                         |  |       |
| Fixed Targets |                                                                    |               |                                                                                      |                             |  |                          |                                |        |                                      |                                    |                                         |  |       |
|               | #                                                                  | Name          | Target Coordinates                                                                   |                             |  | Targ. Coord. Corrections |                                | Fluxes |                                      | Miscellaneous                      |                                         |  |       |
|               | (18)                                                               | WESTERLUND2-L | RA: 10 23 10.2157 (155.7925654d)<br>Dec: -57 43 40.64 (-57.72796d)<br>Equinox: J2000 |                             |  |                          |                                | V=20   |                                      | Reference Frame: ICRS              |                                         |  |       |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]    |               |                                                                                      |                             |  |                          |                                |        |                                      |                                    |                                         |  |       |
| Exposures     | #                                                                  | Label         | Target                                                                               | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                   |        | Special Reqs.                        | Groups                             | Exp. Time (Total)/[Actual Dur.]         |  | Orbit |
|               | 1                                                                  |               | (18) WESTERLUN D2-L                                                                  | WFC3/IR, MULTIACCUM, IR-FIX |  | F110W                    | NSAMP=5;<br>SAMP-SEQ=SPAR S50  |        | POS TARG 0,0                         | Sequence 1-9 Non-Int in Wd2 L (14) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]   |
|               | 2                                                                  |               | (18) WESTERLUN D2-L                                                                  | WFC3/IR, MULTIACCUM, IR-FIX |  | F139M                    | NSAMP=8;<br>SAMP-SEQ=SPAR S50  |        | POS TARG 0,0                         | Sequence 1-9 Non-Int in Wd2 L (14) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]   |
|               | 3                                                                  |               | (18) WESTERLUN D2-L                                                                  | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=7;<br>SAMP-SEQ=SPAR S25  |        | POS TARG 0,0                         | Sequence 1-9 Non-Int in Wd2 L (14) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]   |
|               | 4                                                                  |               | (18) WESTERLUN D2-L                                                                  | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  |        | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 L (14) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]   |
|               | 5                                                                  |               | (18) WESTERLUN D2-L                                                                  | WFC3/IR, MULTIACCUM, IR-FIX |  | F110W                    | NSAMP=9;<br>SAMP-SEQ=SPAR S25  |        | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 L (14) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]   |
|               | 6                                                                  |               | (18) WESTERLUN D2-L                                                                  | WFC3/IR, MULTIACCUM, IR-FIX |  | F139M                    | NSAMP=15;<br>SAMP-SEQ=SPAR S25 |        | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 L (14) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]   |
|               | 7                                                                  |               | (18) WESTERLUN D2-L                                                                  | WFC3/IR, MULTIACCUM, IR-FIX |  | F139M                    | NSAMP=15;<br>SAMP-SEQ=SPAR S25 |        | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 L (14) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]   |
|               | 8                                                                  |               | (18) WESTERLUN D2-L                                                                  | WFC3/IR, MULTIACCUM, IR-FIX |  | F110W                    | NSAMP=11;<br>SAMP-SEQ=SPAR S25 |        | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 L (14) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]   |
|               | 9                                                                  |               | (18) WESTERLUN D2-L                                                                  | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=7;<br>SAMP-SEQ=SPAR S25  |        | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in Wd2 L (14) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]   |



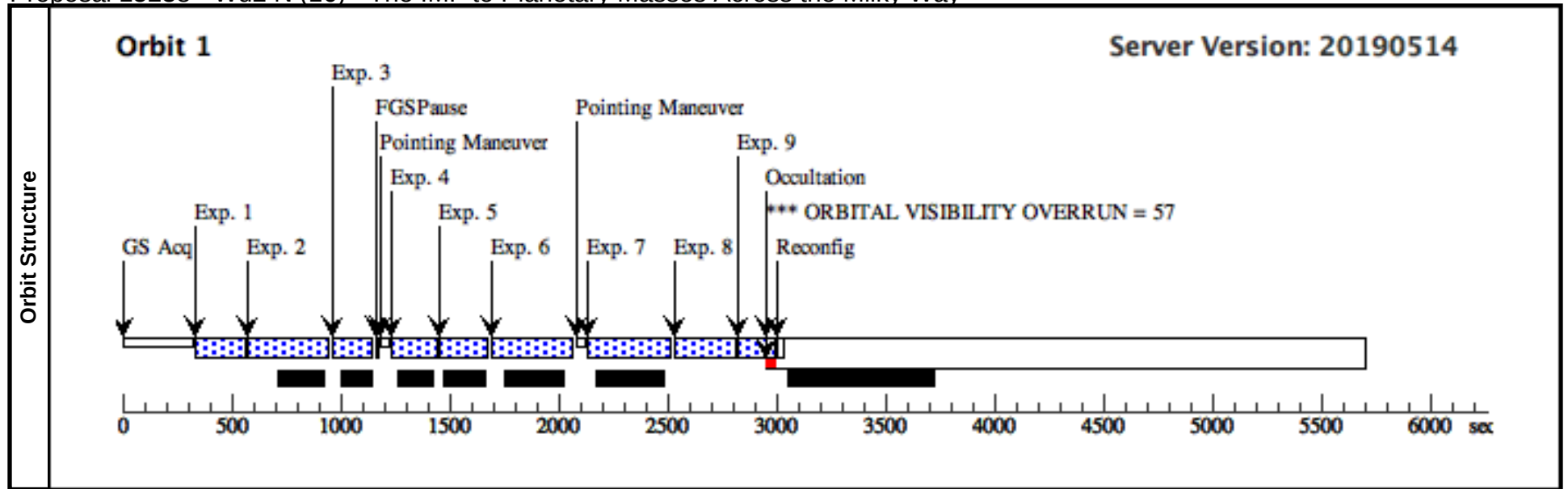
# Proposal 15238 - Wd2 M (15) - The IMF to Planetary Masses Across the Milky Way

|                                                                 |                                                                    |       |                     |                             |  |                          |                                |                                       |                                    |                                         |                              |       |  |  |
|-----------------------------------------------------------------|--------------------------------------------------------------------|-------|---------------------|-----------------------------|--|--------------------------|--------------------------------|---------------------------------------|------------------------------------|-----------------------------------------|------------------------------|-------|--|--|
| Visit                                                           | Proposal 15238, Wd2 M (15), completed                              |       |                     |                             |  |                          |                                |                                       |                                    |                                         | Tue Sep 10 16:05:17 GMT 2019 |       |  |  |
|                                                                 | Diagnostic Status: Warning                                         |       |                     |                             |  |                          |                                |                                       |                                    |                                         |                              |       |  |  |
|                                                                 | Scientific Instruments: WFC3/IR                                    |       |                     |                             |  |                          |                                |                                       |                                    |                                         |                              |       |  |  |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 11D TO 11 D               |       |                     |                             |  |                          |                                |                                       |                                    |                                         |                              |       |  |  |
| Diagnostics                                                     | (Wd2 M (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                     |                             |  |                          |                                |                                       |                                    |                                         |                              |       |  |  |
|                                                                 | (Wd2 M (15)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                     |                             |  |                          |                                |                                       |                                    |                                         |                              |       |  |  |
|                                                                 | (Wd2 M (15)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                     |                             |  |                          |                                |                                       |                                    |                                         |                              |       |  |  |
|                                                                 | (Wd2 M (15)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                     |                             |  |                          |                                |                                       |                                    |                                         |                              |       |  |  |
|                                                                 | (Wd2 M (15)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                     |                             |  |                          |                                |                                       |                                    |                                         |                              |       |  |  |
|                                                                 | (Wd2 M (15)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                     |                             |  |                          |                                |                                       |                                    |                                         |                              |       |  |  |
|                                                                 | (Wd2 M (15)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                     |                             |  |                          |                                |                                       |                                    |                                         |                              |       |  |  |
| Fixed Targets                                                   |                                                                    |       |                     |                             |  |                          |                                |                                       |                                    |                                         |                              |       |  |  |
|                                                                 | #                                                                  | Name  |                     | Target Coordinates          |  | Targ. Coord. Corrections |                                | Fluxes                                |                                    | Miscellaneous                           |                              |       |  |  |
| (19) WESTERLUND2-M                                              |                                                                    |       |                     |                             |  |                          |                                |                                       |                                    |                                         |                              |       |  |  |
| RA: 10 23 37.2084 (155.9050350d)                                |                                                                    |       |                     |                             |  |                          |                                |                                       |                                    |                                         |                              |       |  |  |
| Dec: -57 38 38.66 (-57.64407d)                                  |                                                                    |       |                     |                             |  |                          |                                |                                       |                                    |                                         |                              |       |  |  |
| Equinox: J2000                                                  |                                                                    |       |                     |                             |  |                          |                                |                                       |                                    |                                         |                              |       |  |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                    |       |                     |                             |  |                          |                                |                                       |                                    |                                         |                              |       |  |  |
| Exposures                                                       | #                                                                  | Label | Target              | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                   | Special Reqs.                         | Groups                             | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |  |  |
|                                                                 | 1                                                                  |       | (19) WESTERLUN D2-M | WFC3/IR, MULTIACCUM, IR-FIX |  | F110W                    | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0                          | Sequence 1-9 Non-Int in Wd2 M (15) | 202.934095 Secs (202.934 Secs)<br>[==>] |                              | [1]   |  |  |
|                                                                 | 2                                                                  |       | (19) WESTERLUN D2-M | WFC3/IR, MULTIACCUM, IR-FIX |  | F139M                    | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0                          | Sequence 1-9 Non-Int in Wd2 M (15) | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |  |  |
|                                                                 | 3                                                                  |       | (19) WESTERLUN D2-M | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0                          | Sequence 1-9 Non-Int in Wd2 M (15) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |  |
|                                                                 | 4                                                                  |       | (19) WESTERLUN D2-M | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 M (15) | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |  |  |
|                                                                 | 5                                                                  |       | (19) WESTERLUN D2-M | WFC3/IR, MULTIACCUM, IR-FIX |  | F110W                    | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 M (15) | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |  |  |
|                                                                 | 6                                                                  |       | (19) WESTERLUN D2-M | WFC3/IR, MULTIACCUM, IR-FIX |  | F139M                    | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 M (15) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |  |
|                                                                 | 7                                                                  |       | (19) WESTERLUN D2-M | WFC3/IR, MULTIACCUM, IR-FIX |  | F139M                    | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 M (15) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |  |
|                                                                 | 8                                                                  |       | (19) WESTERLUN D2-M | WFC3/IR, MULTIACCUM, IR-FIX |  | F110W                    | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 M (15) | 252.937441 Secs (252.937 Secs)<br>[==>] |                              | [1]   |  |  |
|                                                                 | 9                                                                  |       | (19) WESTERLUN D2-M | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,234;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 M (15) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |  |



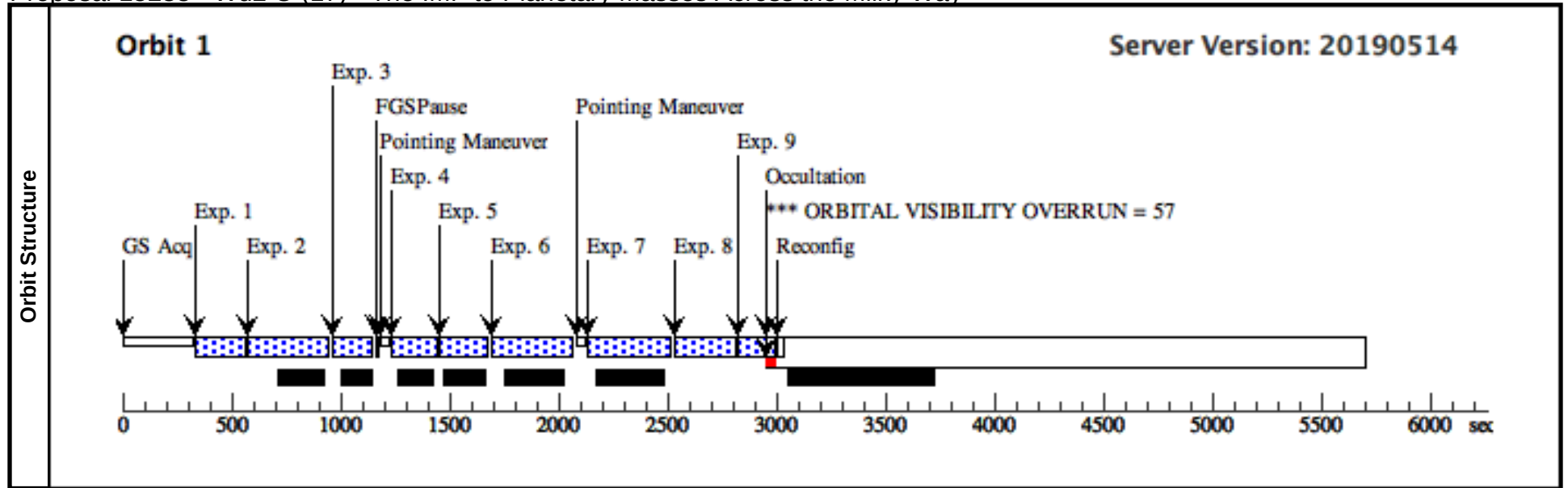
# Proposal 15238 - Wd2 N (16) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                    |               |                                                                                     |                             |                          |                                |                                       |                                    |                                         |  |       |
|---------------|--------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|-----------------------------|--------------------------|--------------------------------|---------------------------------------|------------------------------------|-----------------------------------------|--|-------|
| Visit         | Proposal 15238, Wd2 N (16), completed                              |               |                                                                                     |                             |                          |                                |                                       |                                    | Tue Sep 10 16:05:18 GMT 2019            |  |       |
|               | Diagnostic Status: Warning                                         |               |                                                                                     |                             |                          |                                |                                       |                                    |                                         |  |       |
|               | Scientific Instruments: WFC3/IR                                    |               |                                                                                     |                             |                          |                                |                                       |                                    |                                         |  |       |
|               | Special Requirements: SCHED 100%; ORIENT 11D TO 11 D               |               |                                                                                     |                             |                          |                                |                                       |                                    |                                         |  |       |
| Diagnostics   | (Wd2 N (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |               |                                                                                     |                             |                          |                                |                                       |                                    |                                         |  |       |
|               | (Wd2 N (16)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                     |                             |                          |                                |                                       |                                    |                                         |  |       |
|               | (Wd2 N (16)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                     |                             |                          |                                |                                       |                                    |                                         |  |       |
|               | (Wd2 N (16)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                     |                             |                          |                                |                                       |                                    |                                         |  |       |
|               | (Wd2 N (16)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                     |                             |                          |                                |                                       |                                    |                                         |  |       |
|               | (Wd2 N (16)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                     |                             |                          |                                |                                       |                                    |                                         |  |       |
|               | (Wd2 N (16)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                     |                             |                          |                                |                                       |                                    |                                         |  |       |
| Fixed Targets | #                                                                  | Name          | Target Coordinates                                                                  |                             | Targ. Coord. Corrections |                                | Fluxes                                |                                    | Miscellaneous                           |  |       |
|               | (20)                                                               | WESTERLUND2-N | RA: 10 23 0.8860 (155.7536917d)<br>Dec: -57 41 53.96 (-57.69832d)<br>Equinox: J2000 |                             |                          |                                | V=20                                  |                                    | Reference Frame: ICRS                   |  |       |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]    |               |                                                                                     |                             |                          |                                |                                       |                                    |                                         |  |       |
|               |                                                                    |               |                                                                                     |                             |                          |                                |                                       |                                    |                                         |  |       |
| Exposures     | #                                                                  | Label         | Target                                                                              | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.                   | Special Reqs.                         | Groups                             | Exp. Time (Total)/[Actual Dur.]         |  | Orbit |
|               | 1                                                                  |               | (20) WESTERLUN D2-N                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F110W                    | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0                          | Sequence 1-9 Non-Int in Wd2 N (16) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]   |
|               | 2                                                                  |               | (20) WESTERLUN D2-N                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F139M                    | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0                          | Sequence 1-9 Non-Int in Wd2 N (16) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]   |
|               | 3                                                                  |               | (20) WESTERLUN D2-N                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0                          | Sequence 1-9 Non-Int in Wd2 N (16) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]   |
|               | 4                                                                  |               | (20) WESTERLUN D2-N                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 N (16) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]   |
|               | 5                                                                  |               | (20) WESTERLUN D2-N                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F110W                    | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 N (16) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]   |
|               | 6                                                                  |               | (20) WESTERLUN D2-N                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F139M                    | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 N (16) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]   |
|               | 7                                                                  |               | (20) WESTERLUN D2-N                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F139M                    | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 N (16) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]   |
|               | 8                                                                  |               | (20) WESTERLUN D2-N                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F110W                    | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 N (16) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]   |
|               | 9                                                                  |               | (20) WESTERLUN D2-N                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,234;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 N (16) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]   |



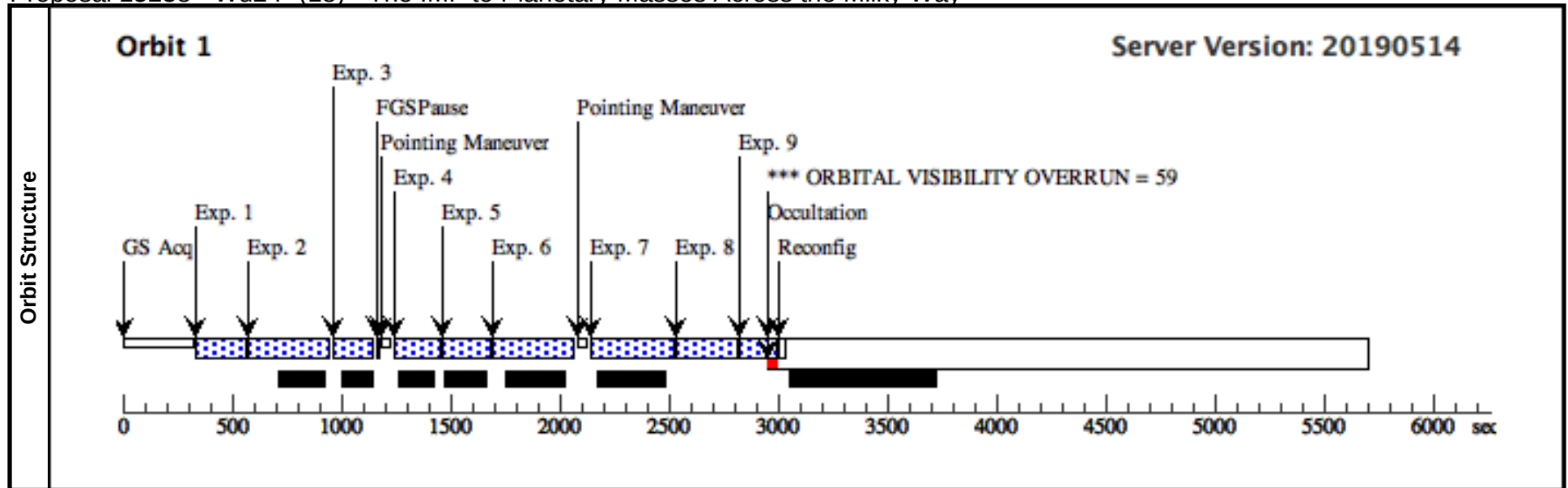
# Proposal 15238 - Wd2 O (17) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                    |               |                                                                                      |                             |  |                          |                                |        |                                       |                                    |                                         |  |       |
|---------------|--------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------------|-----------------------------|--|--------------------------|--------------------------------|--------|---------------------------------------|------------------------------------|-----------------------------------------|--|-------|
| Visit         | Proposal 15238, Wd2 O (17), completed                              |               |                                                                                      |                             |  |                          |                                |        |                                       | Tue Sep 10 16:05:18 GMT 2019       |                                         |  |       |
|               | Diagnostic Status: Warning                                         |               |                                                                                      |                             |  |                          |                                |        |                                       |                                    |                                         |  |       |
|               | Scientific Instruments: WFC3/IR                                    |               |                                                                                      |                             |  |                          |                                |        |                                       |                                    |                                         |  |       |
|               | Special Requirements: SCHED 100%; ORIENT 11D TO 11 D               |               |                                                                                      |                             |  |                          |                                |        |                                       |                                    |                                         |  |       |
| Diagnostics   | (Wd2 O (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |               |                                                                                      |                             |  |                          |                                |        |                                       |                                    |                                         |  |       |
|               | (Wd2 O (17)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                      |                             |  |                          |                                |        |                                       |                                    |                                         |  |       |
|               | (Wd2 O (17)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                      |                             |  |                          |                                |        |                                       |                                    |                                         |  |       |
|               | (Wd2 O (17)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                      |                             |  |                          |                                |        |                                       |                                    |                                         |  |       |
|               | (Wd2 O (17)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                      |                             |  |                          |                                |        |                                       |                                    |                                         |  |       |
|               | (Wd2 O (17)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                      |                             |  |                          |                                |        |                                       |                                    |                                         |  |       |
|               | (Wd2 O (17)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |               |                                                                                      |                             |  |                          |                                |        |                                       |                                    |                                         |  |       |
| Fixed Targets |                                                                    |               |                                                                                      |                             |  |                          |                                |        |                                       |                                    |                                         |  |       |
|               | #                                                                  | Name          | Target Coordinates                                                                   |                             |  | Targ. Coord. Corrections |                                | Fluxes |                                       | Miscellaneous                      |                                         |  |       |
|               | (21)                                                               | WESTERLUND2-O | RA: 10 24 23.4139 (156.0975579d)<br>Dec: -57 52 50.59 (-57.88072d)<br>Equinox: J2000 |                             |  |                          |                                | V=20   |                                       | Reference Frame: ICRS              |                                         |  |       |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]    |               |                                                                                      |                             |  |                          |                                |        |                                       |                                    |                                         |  |       |
| Exposures     | #                                                                  | Label         | Target                                                                               | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                   |        | Special Reqs.                         | Groups                             | Exp. Time (Total)/[Actual Dur.]         |  | Orbit |
|               | 1                                                                  |               | (21) WESTERLUN D2-O                                                                  | WFC3/IR, MULTIACCUM, IR-FIX |  | F110W                    | NSAMP=5;<br>SAMP-SEQ=SPAR S50  |        | POS TARG 0,0                          | Sequence 1-9 Non-Int in Wd2 O (17) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]   |
|               | 2                                                                  |               | (21) WESTERLUN D2-O                                                                  | WFC3/IR, MULTIACCUM, IR-FIX |  | F139M                    | NSAMP=8;<br>SAMP-SEQ=SPAR S50  |        | POS TARG 0,0                          | Sequence 1-9 Non-Int in Wd2 O (17) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]   |
|               | 3                                                                  |               | (21) WESTERLUN D2-O                                                                  | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=7;<br>SAMP-SEQ=SPAR S25  |        | POS TARG 0,0                          | Sequence 1-9 Non-Int in Wd2 O (17) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]   |
|               | 4                                                                  |               | (21) WESTERLUN D2-O                                                                  | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  |        | POS TARG 0,117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 O (17) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]   |
|               | 5                                                                  |               | (21) WESTERLUN D2-O                                                                  | WFC3/IR, MULTIACCUM, IR-FIX |  | F110W                    | NSAMP=9;<br>SAMP-SEQ=SPAR S25  |        | POS TARG 0,117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 O (17) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]   |
|               | 6                                                                  |               | (21) WESTERLUN D2-O                                                                  | WFC3/IR, MULTIACCUM, IR-FIX |  | F139M                    | NSAMP=15;<br>SAMP-SEQ=SPAR S25 |        | POS TARG 0,117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 O (17) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]   |
|               | 7                                                                  |               | (21) WESTERLUN D2-O                                                                  | WFC3/IR, MULTIACCUM, IR-FIX |  | F139M                    | NSAMP=15;<br>SAMP-SEQ=SPAR S25 |        | POS TARG 0,234;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 O (17) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]   |
|               | 8                                                                  |               | (21) WESTERLUN D2-O                                                                  | WFC3/IR, MULTIACCUM, IR-FIX |  | F110W                    | NSAMP=11;<br>SAMP-SEQ=SPAR S25 |        | POS TARG 0,234;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 O (17) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]   |
|               | 9                                                                  |               | (21) WESTERLUN D2-O                                                                  | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=7;<br>SAMP-SEQ=SPAR S25  |        | POS TARG 0,234;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 O (17) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]   |



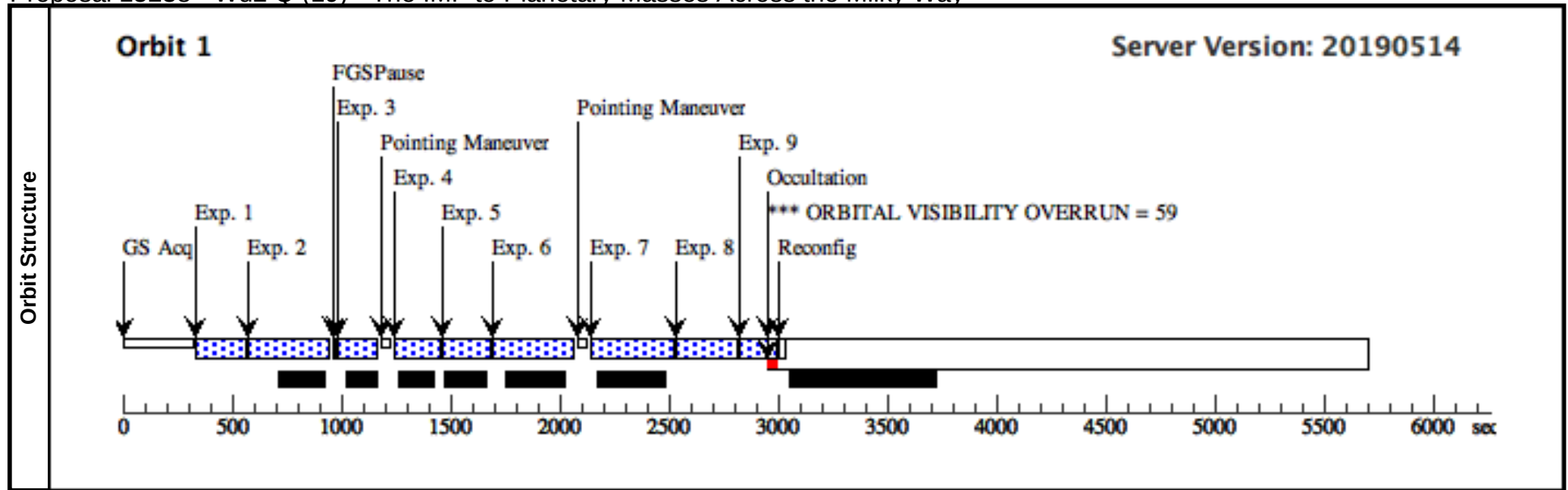
# Proposal 15238 - Wd2 P (18) - The IMF to Planetary Masses Across the Milky Way

|                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |                              |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|------------------------------|--|--|
| Visit                                                                                                                                                                                                                                                                                                                                                | Proposal 15238, Wd2 P (18), completed                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:18 GMT 2019 |  |  |
|                                                                                                                                                                                                                                                                                                                                                      | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                      | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                      | Special Requirements: SCHED 100%; ORIENT 11D TO 11 D                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |                              |  |  |
| Diagnostics                                                                                                                                                                                                                                                                                                                                          | (Wd2 P (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                      | (Wd2 P (18)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                      | (Wd2 P (18)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                      | (Wd2 P (18)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                      | (Wd2 P (18)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                      | (Wd2 P (18)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                      | (Wd2 P (18)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |                              |  |  |
| Fixed Targets                                                                                                                                                                                                                                                                                                                                        | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                                                                                                                                                    |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                      | (22)                      WESTERLUND2-P                      RA: 10 23 28.8140 (155.8700583d)                                           V=20                      Reference Frame: ICRS                                                                                                                                                             |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                      | Dec: -57 50 33.87 (-57.84274d)                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                      | Equinox: J2000                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |                              |  |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |                              |  |  |
| Exposures                                                                                                                                                                                                                                                                                                                                            | #                      Label                      Target                      Config,Mode,Aperture                      Spectral Els.                      Opt. Params.                      Special Reqs.                      Groups                      Exp. Time (Total)/[Actual Dur.]                      Orbit                              |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                      | 1                                           (22) WESTERLUN D2-P                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=5;                      POS TARG 0,0                      Sequence 1-9 Non-Int in Wd2 P (18)                      202.934095 Secs (202.934 Secs)                      [1]    |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                      | SAMP-SEQ=SPAR S50                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                      | 2                                           (22) WESTERLUN D2-P                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=8;                      POS TARG 0,0                      Sequence 1-9 Non-Int in Wd2 P (18)                      352.935448 Secs (352.935 Secs)                      [1]    |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                      | SAMP-SEQ=SPAR S50                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                      | 3                                           (22) WESTERLUN D2-P                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;                      POS TARG 0,0                      Sequence 1-9 Non-Int in Wd2 P (18)                      152.935381 Secs (152.935 Secs)                      [1]    |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                      | SAMP-SEQ=SPAR S25                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                      | 4                                           (22) WESTERLUN D2-P                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=8;                      POS TARG 124,0;                      Sequence 1-9 Non-Int in Wd2 P (18)                      177.935896 Secs (177.936 Secs)                      [1] |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                      | SAMP-SEQ=SPAR S25                      EXP PCS MODE G YRO                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                                                      | 5                                           (22) WESTERLUN D2-P                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=9;                      POS TARG 124,0;                      Sequence 1-9 Non-Int in Wd2 P (18)                      202.936411 Secs (202.936 Secs)                      [1] |  |  |  |  |  |  |  |  |                              |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE G YRO                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |                              |  |  |
| 6                                           (22) WESTERLUN D2-P                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=15;                      POS TARG 124,0;                      Sequence 1-9 Non-Int in Wd2 P (18)                      352.939501 Secs (352.94 Secs)                      [1]  |                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |                              |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE G YRO                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |                              |  |  |
| 7                                           (22) WESTERLUN D2-P                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=15;                      POS TARG 248,0;                      Sequence 1-9 Non-Int in Wd2 P (18)                      352.939501 Secs (352.94 Secs)                      [1]  |                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |                              |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE G YRO                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |                              |  |  |
| 8                                           (22) WESTERLUN D2-P                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=11;                      POS TARG 248,0;                      Sequence 1-9 Non-Int in Wd2 P (18)                      252.937441 Secs (252.937 Secs)                      [1] |                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |                              |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE G YRO                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |                              |  |  |
| 9                                           (22) WESTERLUN D2-P                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;                      POS TARG 248,0;                      Sequence 1-9 Non-Int in Wd2 P (18)                      152.935381 Secs (152.935 Secs)                      [1]  |                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |                              |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE G YRO                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |                              |  |  |



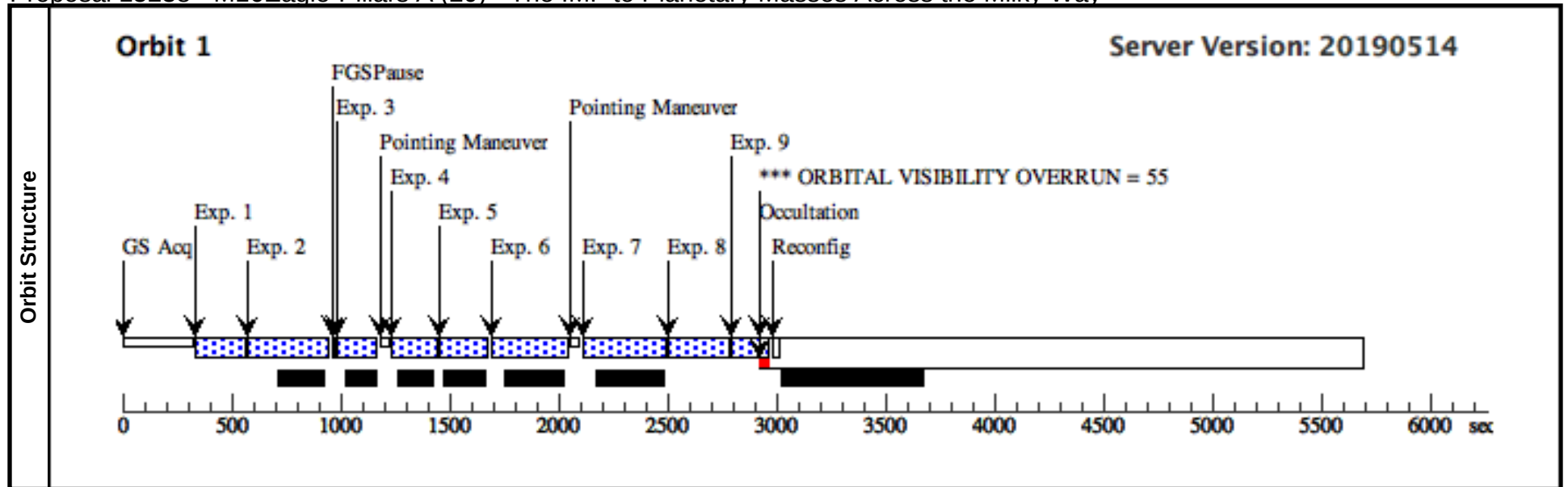
# Proposal 15238 - Wd2 Q (19) - The IMF to Planetary Masses Across the Milky Way

|                                                                 |                                                                    |       |                     |                             |       |                          |                                |                                       |                                    |                              |                                         |     |       |
|-----------------------------------------------------------------|--------------------------------------------------------------------|-------|---------------------|-----------------------------|-------|--------------------------|--------------------------------|---------------------------------------|------------------------------------|------------------------------|-----------------------------------------|-----|-------|
| Visit                                                           | Proposal 15238, Wd2 Q (19), completed                              |       |                     |                             |       |                          |                                |                                       |                                    | Tue Sep 10 16:05:18 GMT 2019 |                                         |     |       |
|                                                                 | Diagnostic Status: Warning                                         |       |                     |                             |       |                          |                                |                                       |                                    |                              |                                         |     |       |
|                                                                 | Scientific Instruments: WFC3/IR                                    |       |                     |                             |       |                          |                                |                                       |                                    |                              |                                         |     |       |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 11D TO 11 D               |       |                     |                             |       |                          |                                |                                       |                                    |                              |                                         |     |       |
| Diagnostics                                                     | (Wd2 Q (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                     |                             |       |                          |                                |                                       |                                    |                              |                                         |     |       |
|                                                                 | (Wd2 Q (19)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                     |                             |       |                          |                                |                                       |                                    |                              |                                         |     |       |
|                                                                 | (Wd2 Q (19)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                     |                             |       |                          |                                |                                       |                                    |                              |                                         |     |       |
|                                                                 | (Wd2 Q (19)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                     |                             |       |                          |                                |                                       |                                    |                              |                                         |     |       |
|                                                                 | (Wd2 Q (19)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                     |                             |       |                          |                                |                                       |                                    |                              |                                         |     |       |
|                                                                 | (Wd2 Q (19)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                     |                             |       |                          |                                |                                       |                                    |                              |                                         |     |       |
|                                                                 | (Wd2 Q (19)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                     |                             |       |                          |                                |                                       |                                    |                              |                                         |     |       |
| Fixed Targets                                                   |                                                                    |       |                     |                             |       |                          |                                |                                       |                                    |                              |                                         |     |       |
|                                                                 | #                                                                  | Name  | Target Coordinates  |                             |       | Targ. Coord. Corrections |                                | Fluxes                                |                                    | Miscellaneous                |                                         |     |       |
| (23) WESTERLUND2-Q                                              |                                                                    |       |                     |                             |       |                          |                                |                                       |                                    |                              |                                         |     |       |
| RA: 10 24 49.3929 (156.2058038d)                                |                                                                    |       |                     |                             |       |                          |                                |                                       |                                    |                              |                                         |     |       |
| Dec: -57 42 27.93 (-57.70776d)                                  |                                                                    |       |                     |                             |       |                          |                                |                                       |                                    |                              |                                         |     |       |
| Equinox: J2000                                                  |                                                                    |       |                     |                             |       |                          |                                |                                       |                                    |                              |                                         |     |       |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                    |       |                     |                             |       |                          |                                |                                       |                                    |                              |                                         |     |       |
| Exposures                                                       | #                                                                  | Label | Target              | Config,Mode,Aperture        |       | Spectral Els.            | Opt. Params.                   |                                       | Special Reqs.                      | Groups                       | Exp. Time (Total)/[Actual Dur.]         |     | Orbit |
|                                                                 | 1                                                                  |       | (23) WESTERLUN D2-Q | WFC3/IR, MULTIACCUM, IR-FIX | F110W |                          | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FI NE   | Sequence 1-9 Non-Int in Wd2 Q (19) |                              | 202.934095 Secs (202.934 Secs)<br>[==>] | [1] |       |
|                                                                 | 2                                                                  |       | (23) WESTERLUN D2-Q | WFC3/IR, MULTIACCUM, IR-FIX | F139M |                          | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FI NE   | Sequence 1-9 Non-Int in Wd2 Q (19) |                              | 352.935448 Secs (352.935 Secs)<br>[==>] | [1] |       |
|                                                                 | 3                                                                  |       | (23) WESTERLUN D2-Q | WFC3/IR, MULTIACCUM, IR-FIX | F160W |                          | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0;<br>EXP PCS MODE G YRO   | Sequence 1-9 Non-Int in Wd2 Q (19) |                              | 152.935381 Secs (152.935 Secs)<br>[==>] | [1] |       |
|                                                                 | 4                                                                  |       | (23) WESTERLUN D2-Q | WFC3/IR, MULTIACCUM, IR-FIX | F160W |                          | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 124,0;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 Q (19) |                              | 177.935896 Secs (177.936 Secs)<br>[==>] | [1] |       |
|                                                                 | 5                                                                  |       | (23) WESTERLUN D2-Q | WFC3/IR, MULTIACCUM, IR-FIX | F110W |                          | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 124,0;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 Q (19) |                              | 202.936411 Secs (202.936 Secs)<br>[==>] | [1] |       |
|                                                                 | 6                                                                  |       | (23) WESTERLUN D2-Q | WFC3/IR, MULTIACCUM, IR-FIX | F139M |                          | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 124,0;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 Q (19) |                              | 352.939501 Secs (352.94 Secs)<br>[==>]  | [1] |       |
|                                                                 | 7                                                                  |       | (23) WESTERLUN D2-Q | WFC3/IR, MULTIACCUM, IR-FIX | F139M |                          | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 248,0;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 Q (19) |                              | 352.939501 Secs (352.94 Secs)<br>[==>]  | [1] |       |
|                                                                 | 8                                                                  |       | (23) WESTERLUN D2-Q | WFC3/IR, MULTIACCUM, IR-FIX | F110W |                          | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 248,0;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 Q (19) |                              | 252.937441 Secs (252.937 Secs)<br>[==>] | [1] |       |
|                                                                 | 9                                                                  |       | (23) WESTERLUN D2-Q | WFC3/IR, MULTIACCUM, IR-FIX | F160W |                          | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 248,0;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in Wd2 Q (19) |                              | 152.935381 Secs (152.935 Secs)<br>[==>] | [1] |       |



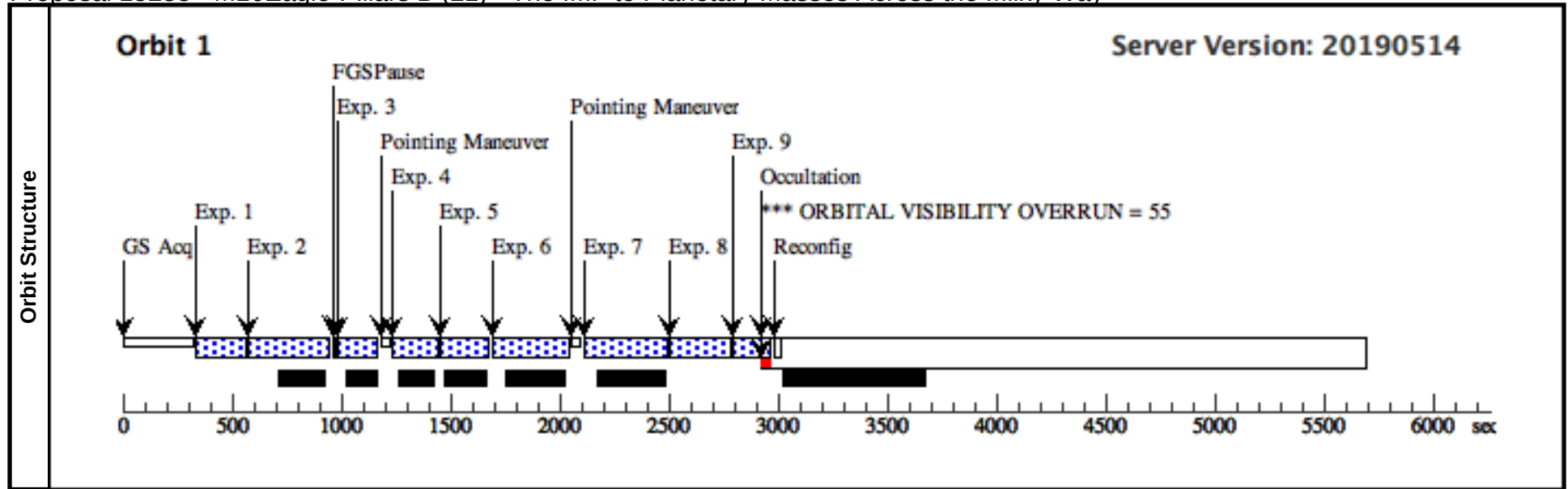
# Proposal 15238 - M16Eagle-Pillars A (20) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                                                                                                                                                                             |       |                        |                             |               |                                |                                      |                                                 |                                         |  |                              |  |  |  |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------|-----------------------------|---------------|--------------------------------|--------------------------------------|-------------------------------------------------|-----------------------------------------|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, M16Eagle-Pillars A (20), completed                                                                                                                                                                          |       |                        |                             |               |                                |                                      |                                                 |                                         |  | Tue Sep 10 16:05:18 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                                                                                                                                                                                  |       |                        |                             |               |                                |                                      |                                                 |                                         |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                                                                                                                                                                             |       |                        |                             |               |                                |                                      |                                                 |                                         |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 100D TO 100 D                                                                                                                                                                      |       |                        |                             |               |                                |                                      |                                                 |                                         |  |                              |  |  |  |
| Diagnostics   | (M16Eagle-Pillars A (20)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                               |       |                        |                             |               |                                |                                      |                                                 |                                         |  |                              |  |  |  |
|               | (M16Eagle-Pillars A (20)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                             |       |                        |                             |               |                                |                                      |                                                 |                                         |  |                              |  |  |  |
|               | (M16Eagle-Pillars A (20)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                             |       |                        |                             |               |                                |                                      |                                                 |                                         |  |                              |  |  |  |
|               | (M16Eagle-Pillars A (20)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                             |       |                        |                             |               |                                |                                      |                                                 |                                         |  |                              |  |  |  |
|               | (M16Eagle-Pillars A (20)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                             |       |                        |                             |               |                                |                                      |                                                 |                                         |  |                              |  |  |  |
|               | (M16Eagle-Pillars A (20)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                             |       |                        |                             |               |                                |                                      |                                                 |                                         |  |                              |  |  |  |
|               | (M16Eagle-Pillars A (20)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                             |       |                        |                             |               |                                |                                      |                                                 |                                         |  |                              |  |  |  |
| Fixed Targets | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                            |       |                        |                             |               |                                |                                      |                                                 |                                         |  |                              |  |  |  |
|               | (24)                      M16EAGLENEBULA-A                      RA: 18 18 48.8995 (274.7037479d)<br>Dec: -13 47 17.03 (-13.78806d)<br>Equinox: J2000<br><br>Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |       |                        |                             |               |                                |                                      |                                                 |                                         |  |                              |  |  |  |
| Exposures     | #                                                                                                                                                                                                                           | Label | Target                 | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                        | Groups                                          | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |  |  |
|               | 1                                                                                                                                                                                                                           |       | (24) M16EAGLENE BULA-A | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in M16Eagle-Pillars A (20) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 2                                                                                                                                                                                                                           |       | (24) M16EAGLENE BULA-A | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in M16Eagle-Pillars A (20) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 3                                                                                                                                                                                                                           |       | (24) M16EAGLENE BULA-A | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0;<br>EXP PCS MODE GYRO   | Sequence 1-9 Non-Int in M16Eagle-Pillars A (20) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 4                                                                                                                                                                                                                           |       | (24) M16EAGLENE BULA-A | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle-Pillars A (20) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 5                                                                                                                                                                                                                           |       | (24) M16EAGLENE BULA-A | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle-Pillars A (20) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 6                                                                                                                                                                                                                           |       | (24) M16EAGLENE BULA-A | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle-Pillars A (20) | 327.938986 Secs (327.939 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 7                                                                                                                                                                                                                           |       | (24) M16EAGLENE BULA-A | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle-Pillars A (20) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 8                                                                                                                                                                                                                           |       | (24) M16EAGLENE BULA-A | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle-Pillars A (20) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 9                                                                                                                                                                                                                           |       | (24) M16EAGLENE BULA-A | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle-Pillars A (20) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |



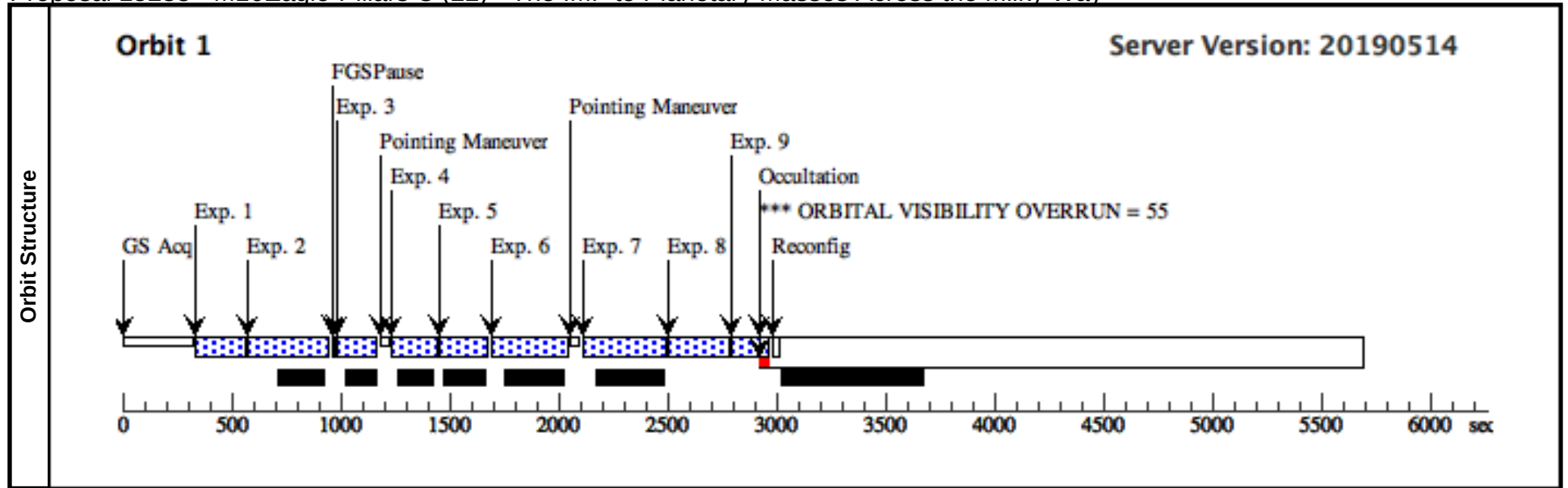
# Proposal 15238 - M16Eagle-Pillars B (21) - The IMF to Planetary Masses Across the Milky Way

|                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit                                                                                                                                                                                                                                                                                                                                                                | Proposal 15238, M16Eagle-Pillars B (21), completed                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:18 GMT 2019 |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                      | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                      | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                      | Special Requirements: SCHED 100%; ORIENT 100D TO 100 D                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics                                                                                                                                                                                                                                                                                                                                                          | (M16Eagle-Pillars B (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                      | (M16Eagle-Pillars B (21)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                      | (M16Eagle-Pillars B (21)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                      | (M16Eagle-Pillars B (21)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                      | (M16Eagle-Pillars B (21)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                      | (M16Eagle-Pillars B (21)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                      | (M16Eagle-Pillars B (21)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets                                                                                                                                                                                                                                                                                                                                                        | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                      | (25)                      M16EAGLENEBULA-B                      RA: 18 18 41.7032 (274.6737633d)                                                                                     V=15+/-5                      Reference Frame: ICRS                                                                                                                            |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                      | Dec: -13 48 31.27 (-13.80869d)                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                      | Equinox: J2000                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Exposures                                                                                                                                                                                                                                                                                                                                                            | #                      Label                      Target                      Config,Mode,Aperture                      Spectral Els.                      Opt. Params.                      Special Reqs.                      Groups                      Exp. Time (Total)/[Actual Dur.]                      Orbit                                              |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                      | 1                                           (25) M16EAGLENE BULA-B                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=5;                      POS TARG 0,0;                      Sequence 1-9 Non-Int in M16Eagle-Pillars B (21)                      202.934095 Secs (202.934 Secs)                      [1]   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                      | SAMP-SEQ=SPAR S50                      EXP PCS MODE FINE                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                      | 2                                           (25) M16EAGLENE BULA-B                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=8;                      POS TARG 0,0;                      Sequence 1-9 Non-Int in M16Eagle-Pillars B (21)                      352.935448 Secs (352.935 Secs)                      [1]   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                      | SAMP-SEQ=SPAR S50                      EXP PCS MODE FINE                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                      | 3                                           (25) M16EAGLENE BULA-B                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;                      POS TARG 0,0;                      Sequence 1-9 Non-Int in M16Eagle-Pillars B (21)                      152.935381 Secs (152.935 Secs)                      [1]   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                      | SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                      | 4                                           (25) M16EAGLENE BULA-B                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=8;                      POS TARG 0,117;                      Sequence 1-9 Non-Int in M16Eagle-Pillars B (21)                      177.935896 Secs (177.936 Secs)                      [1] |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                      | SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                      | 5                                           (25) M16EAGLENE BULA-B                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=9;                      POS TARG 0,117;                      Sequence 1-9 Non-Int in M16Eagle-Pillars B (21)                      202.936411 Secs (202.936 Secs)                      [1] |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                      | SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 6                                           (25) M16EAGLENE BULA-B                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=14;                      POS TARG 0,117;                      Sequence 1-9 Non-Int in M16Eagle-Pillars B (21)                      327.938986 Secs (327.939 Secs)                      [1] |                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 7                                           (25) M16EAGLENE BULA-B                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=15;                      POS TARG 0,234;                      Sequence 1-9 Non-Int in M16Eagle-Pillars B (21)                      352.939501 Secs (352.94 Secs)                      [1]  |                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 8                                           (25) M16EAGLENE BULA-B                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=11;                      POS TARG 0,234;                      Sequence 1-9 Non-Int in M16Eagle-Pillars B (21)                      252.937441 Secs (252.937 Secs)                      [1] |                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 9                                           (25) M16EAGLENE BULA-B                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;                      POS TARG 0,234;                      Sequence 1-9 Non-Int in M16Eagle-Pillars B (21)                      152.935381 Secs (152.935 Secs)                      [1]  |                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |



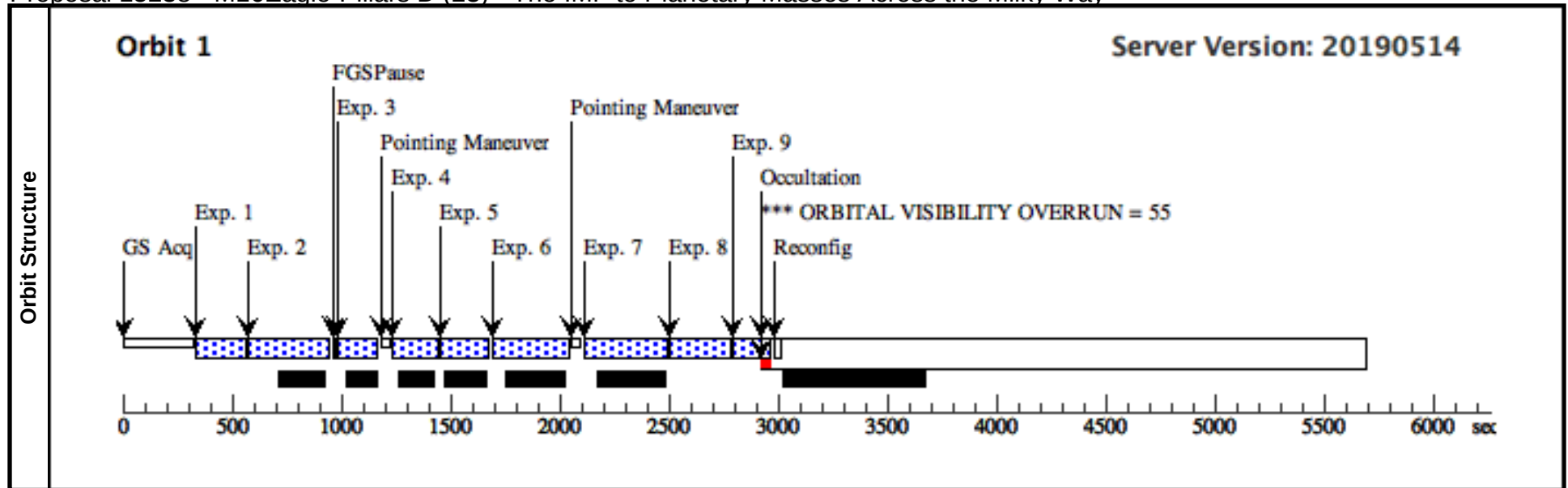
# Proposal 15238 - M16Eagle-Pillars C (22) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                                 |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|---------------|---------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, M16Eagle-Pillars C (22), completed                              |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:18 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                                      |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                                 |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 100D TO 100 D                          |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics   | (M16Eagle-Pillars C (22)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle-Pillars C (22)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle-Pillars C (22)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle-Pillars C (22)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle-Pillars C (22)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle-Pillars C (22)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle-Pillars C (22)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets | #            Name                                                               |  |  |  |  |  |  |  |  |  |                              |  |  |  |



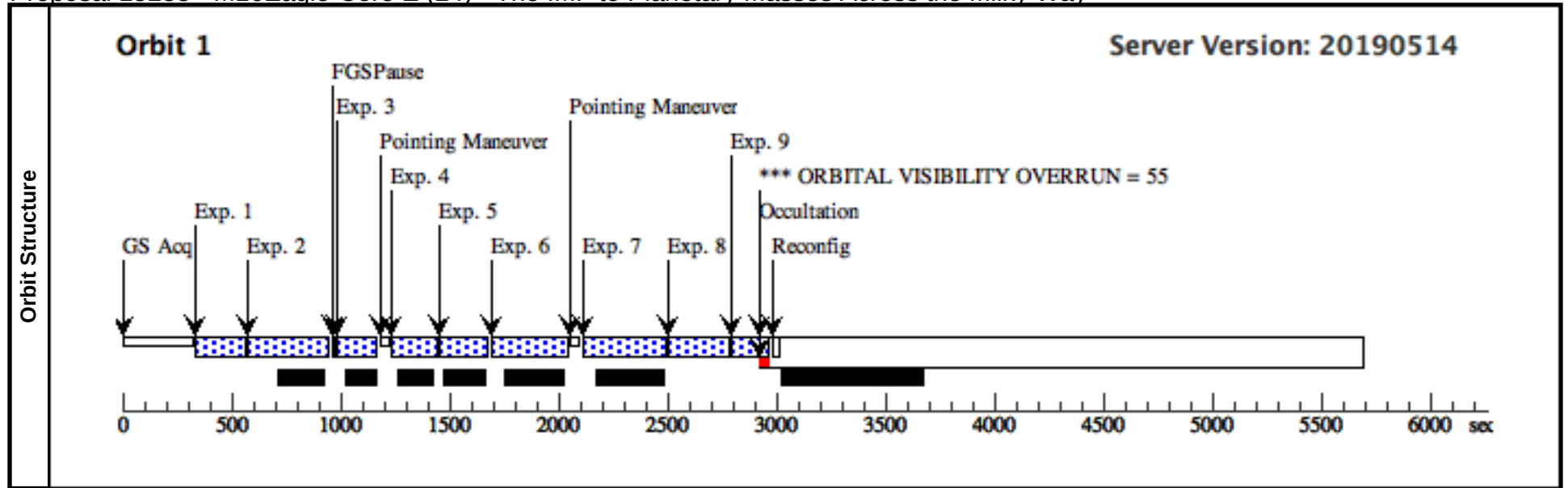
# Proposal 15238 - M16Eagle-Pillars D (23) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                                                                                                                                                                             |       |                        |                             |               |                                |                                       |                                                 |                                         |  |                              |  |  |  |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------|-----------------------------|---------------|--------------------------------|---------------------------------------|-------------------------------------------------|-----------------------------------------|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, M16Eagle-Pillars D (23), completed                                                                                                                                                                          |       |                        |                             |               |                                |                                       |                                                 |                                         |  | Tue Sep 10 16:05:18 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                                                                                                                                                                                  |       |                        |                             |               |                                |                                       |                                                 |                                         |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                                                                                                                                                                             |       |                        |                             |               |                                |                                       |                                                 |                                         |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 100D TO 100 D                                                                                                                                                                      |       |                        |                             |               |                                |                                       |                                                 |                                         |  |                              |  |  |  |
| Diagnostics   | (M16Eagle-Pillars D (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                               |       |                        |                             |               |                                |                                       |                                                 |                                         |  |                              |  |  |  |
|               | (M16Eagle-Pillars D (23)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                             |       |                        |                             |               |                                |                                       |                                                 |                                         |  |                              |  |  |  |
|               | (M16Eagle-Pillars D (23)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                             |       |                        |                             |               |                                |                                       |                                                 |                                         |  |                              |  |  |  |
|               | (M16Eagle-Pillars D (23)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                             |       |                        |                             |               |                                |                                       |                                                 |                                         |  |                              |  |  |  |
|               | (M16Eagle-Pillars D (23)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                             |       |                        |                             |               |                                |                                       |                                                 |                                         |  |                              |  |  |  |
|               | (M16Eagle-Pillars D (23)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                             |       |                        |                             |               |                                |                                       |                                                 |                                         |  |                              |  |  |  |
|               | (M16Eagle-Pillars D (23)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                             |       |                        |                             |               |                                |                                       |                                                 |                                         |  |                              |  |  |  |
| Fixed Targets | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                            |       |                        |                             |               |                                |                                       |                                                 |                                         |  |                              |  |  |  |
|               | (27)                      M16EAGLENEBULA-D                      RA: 18 18 55.5684 (274.7315350d)<br>Dec: -13 53 18.21 (-13.88839d)<br>Equinox: J2000<br><br>Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |       |                        |                             |               |                                |                                       |                                                 |                                         |  |                              |  |  |  |
| Exposures     | #                                                                                                                                                                                                                           | Label | Target                 | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                         | Groups                                          | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |  |  |
|               | 1                                                                                                                                                                                                                           |       | (27) M16EAGLENE BULA-D | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE    | Sequence 1-9 Non-Int in M16Eagle-Pillars D (23) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 2                                                                                                                                                                                                                           |       | (27) M16EAGLENE BULA-D | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE    | Sequence 1-9 Non-Int in M16Eagle-Pillars D (23) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 3                                                                                                                                                                                                                           |       | (27) M16EAGLENE BULA-D | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0;<br>EXP PCS MODE GYRO    | Sequence 1-9 Non-Int in M16Eagle-Pillars D (23) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 4                                                                                                                                                                                                                           |       | (27) M16EAGLENE BULA-D | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,-117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle-Pillars D (23) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 5                                                                                                                                                                                                                           |       | (27) M16EAGLENE BULA-D | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,-117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle-Pillars D (23) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 6                                                                                                                                                                                                                           |       | (27) M16EAGLENE BULA-D | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,-117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle-Pillars D (23) | 327.938986 Secs (327.939 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 7                                                                                                                                                                                                                           |       | (27) M16EAGLENE BULA-D | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,-234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle-Pillars D (23) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 8                                                                                                                                                                                                                           |       | (27) M16EAGLENE BULA-D | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,-234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle-Pillars D (23) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 9                                                                                                                                                                                                                           |       | (27) M16EAGLENE BULA-D | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,-234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle-Pillars D (23) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |



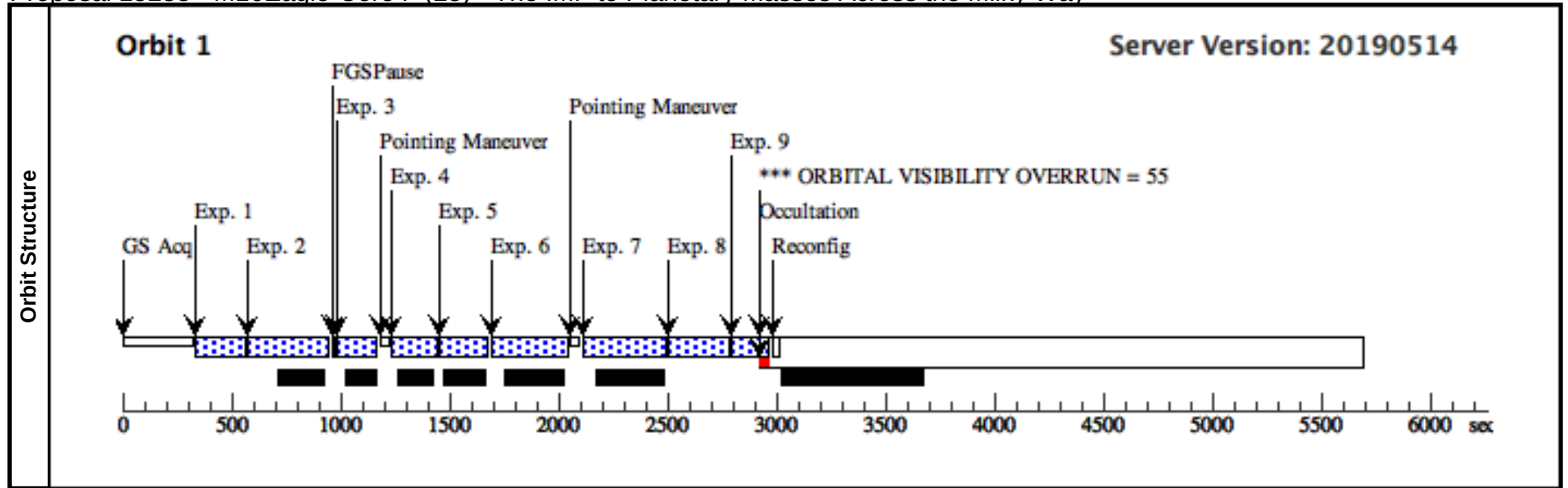
# Proposal 15238 - M16Eagle-Core E (24) - The IMF to Planetary Masses Across the Milky Way

|                                                                 |                                                                              |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       |                              |  |  |  |
|-----------------------------------------------------------------|------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|--------------------------------------|----------------------------------------------|-----------------------------------------|-----------------------|------------------------------|--|--|--|
| Visit                                                           | Proposal 15238, M16Eagle-Core E (24), completed                              |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       | Tue Sep 10 16:05:18 GMT 2019 |  |  |  |
|                                                                 | Diagnostic Status: Warning                                                   |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       |                              |  |  |  |
|                                                                 | Scientific Instruments: WFC3/IR                                              |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       |                              |  |  |  |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 100D TO 100 D                       |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       |                              |  |  |  |
| Diagnostics                                                     | (M16Eagle-Core E (24)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       |                              |  |  |  |
|                                                                 | (M16Eagle-Core E (24)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       |                              |  |  |  |
|                                                                 | (M16Eagle-Core E (24)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       |                              |  |  |  |
|                                                                 | (M16Eagle-Core E (24)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       |                              |  |  |  |
|                                                                 | (M16Eagle-Core E (24)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       |                              |  |  |  |
|                                                                 | (M16Eagle-Core E (24)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       |                              |  |  |  |
|                                                                 | (M16Eagle-Core E (24)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       |                              |  |  |  |
| Fixed Targets                                                   | #                                                                            | Name             | Target Coordinates                                                                   |                             |               | Targ. Coord. Corrections       |                                      | Fluxes                                       |                                         | Miscellaneous         |                              |  |  |  |
|                                                                 | (28)                                                                         | M16EAGLENEBULA-E | RA: 18 18 34.9957 (274.6458154d)<br>Dec: -13 42 32.09 (-13.70891d)<br>Equinox: J2000 |                             |               |                                |                                      | V=15+/-5                                     |                                         | Reference Frame: ICRS |                              |  |  |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                              |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       |                              |  |  |  |
| Exposures                                                       | #                                                                            | Label            | Target                                                                               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                        | Groups                                       | Exp. Time (Total)/[Actual Dur.]         |                       | Orbit                        |  |  |  |
|                                                                 | 1                                                                            |                  | (28) M16EAGLENE BULA-E                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in M16Eagle-Core E (24) | 202.934095 Secs (202.934 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|                                                                 | 2                                                                            |                  | (28) M16EAGLENE BULA-E                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in M16Eagle-Core E (24) | 352.935448 Secs (352.935 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|                                                                 | 3                                                                            |                  | (28) M16EAGLENE BULA-E                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0;<br>EXP PCS MODE GYRO   | Sequence 1-9 Non-Int in M16Eagle-Core E (24) | 152.935381 Secs (152.935 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|                                                                 | 4                                                                            |                  | (28) M16EAGLENE BULA-E                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle-Core E (24) | 177.935896 Secs (177.936 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|                                                                 | 5                                                                            |                  | (28) M16EAGLENE BULA-E                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle-Core E (24) | 202.936411 Secs (202.936 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|                                                                 | 6                                                                            |                  | (28) M16EAGLENE BULA-E                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle-Core E (24) | 327.938986 Secs (327.939 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|                                                                 | 7                                                                            |                  | (28) M16EAGLENE BULA-E                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle-Core E (24) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                       | [1]                          |  |  |  |
|                                                                 | 8                                                                            |                  | (28) M16EAGLENE BULA-E                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle-Core E (24) | 252.937441 Secs (252.937 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|                                                                 | 9                                                                            |                  | (28) M16EAGLENE BULA-E                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle-Core E (24) | 152.935381 Secs (152.935 Secs)<br>[==>] |                       | [1]                          |  |  |  |



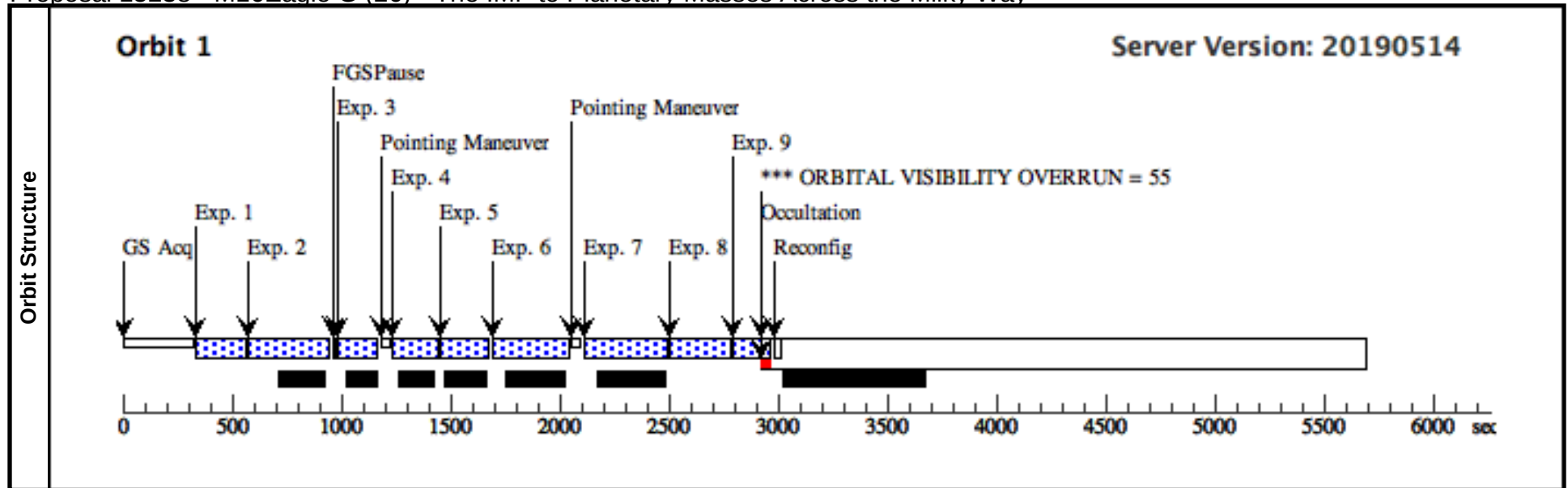
# Proposal 15238 - M16Eagle-Core F (25) - The IMF to Planetary Masses Across the Milky Way

|                                                                 |                                                                              |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       |                              |  |
|-----------------------------------------------------------------|------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|--------------------------------------|----------------------------------------------|-----------------------------------------|-----------------------|------------------------------|--|
| Visit                                                           | Proposal 15238, M16Eagle-Core F (25), completed                              |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       | Tue Sep 10 16:05:18 GMT 2019 |  |
|                                                                 | Diagnostic Status: Warning                                                   |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       |                              |  |
|                                                                 | Scientific Instruments: WFC3/IR                                              |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       |                              |  |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 100D TO 100 D                       |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       |                              |  |
| Diagnostics                                                     | (M16Eagle-Core F (25)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       |                              |  |
|                                                                 | (M16Eagle-Core F (25)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       |                              |  |
|                                                                 | (M16Eagle-Core F (25)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       |                              |  |
|                                                                 | (M16Eagle-Core F (25)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       |                              |  |
|                                                                 | (M16Eagle-Core F (25)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       |                              |  |
|                                                                 | (M16Eagle-Core F (25)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       |                              |  |
|                                                                 | (M16Eagle-Core F (25)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       |                              |  |
| Fixed Targets                                                   | #                                                                            | Name             | Target Coordinates                                                                   |                             |               | Targ. Coord. Corrections       |                                      | Fluxes                                       |                                         | Miscellaneous         |                              |  |
|                                                                 | (29)                                                                         | M16EAGLENEBULA-F | RA: 18 18 27.6563 (274.6152346d)<br>Dec: -13 43 46.98 (-13.72972d)<br>Equinox: J2000 |                             |               |                                |                                      | V=15+/-5                                     |                                         | Reference Frame: ICRS |                              |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                              |                  |                                                                                      |                             |               |                                |                                      |                                              |                                         |                       |                              |  |
| Exposures                                                       | #                                                                            | Label            | Target                                                                               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                        | Groups                                       | Exp. Time (Total)/[Actual Dur.]         |                       | Orbit                        |  |
|                                                                 | 1                                                                            |                  | (29) M16EAGLENE BULA-F                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in M16Eagle-Core F (25) | 202.934095 Secs (202.934 Secs)<br>[==>] |                       | [1]                          |  |
|                                                                 | 2                                                                            |                  | (29) M16EAGLENE BULA-F                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in M16Eagle-Core F (25) | 352.935448 Secs (352.935 Secs)<br>[==>] |                       | [1]                          |  |
|                                                                 | 3                                                                            |                  | (29) M16EAGLENE BULA-F                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0;<br>EXP PCS MODE GYRO   | Sequence 1-9 Non-Int in M16Eagle-Core F (25) | 152.935381 Secs (152.935 Secs)<br>[==>] |                       | [1]                          |  |
|                                                                 | 4                                                                            |                  | (29) M16EAGLENE BULA-F                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle-Core F (25) | 177.935896 Secs (177.936 Secs)<br>[==>] |                       | [1]                          |  |
|                                                                 | 5                                                                            |                  | (29) M16EAGLENE BULA-F                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle-Core F (25) | 202.936411 Secs (202.936 Secs)<br>[==>] |                       | [1]                          |  |
|                                                                 | 6                                                                            |                  | (29) M16EAGLENE BULA-F                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle-Core F (25) | 327.938986 Secs (327.939 Secs)<br>[==>] |                       | [1]                          |  |
|                                                                 | 7                                                                            |                  | (29) M16EAGLENE BULA-F                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle-Core F (25) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                       | [1]                          |  |
|                                                                 | 8                                                                            |                  | (29) M16EAGLENE BULA-F                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle-Core F (25) | 252.937441 Secs (252.937 Secs)<br>[==>] |                       | [1]                          |  |
|                                                                 | 9                                                                            |                  | (29) M16EAGLENE BULA-F                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle-Core F (25) | 152.935381 Secs (152.935 Secs)<br>[==>] |                       | [1]                          |  |



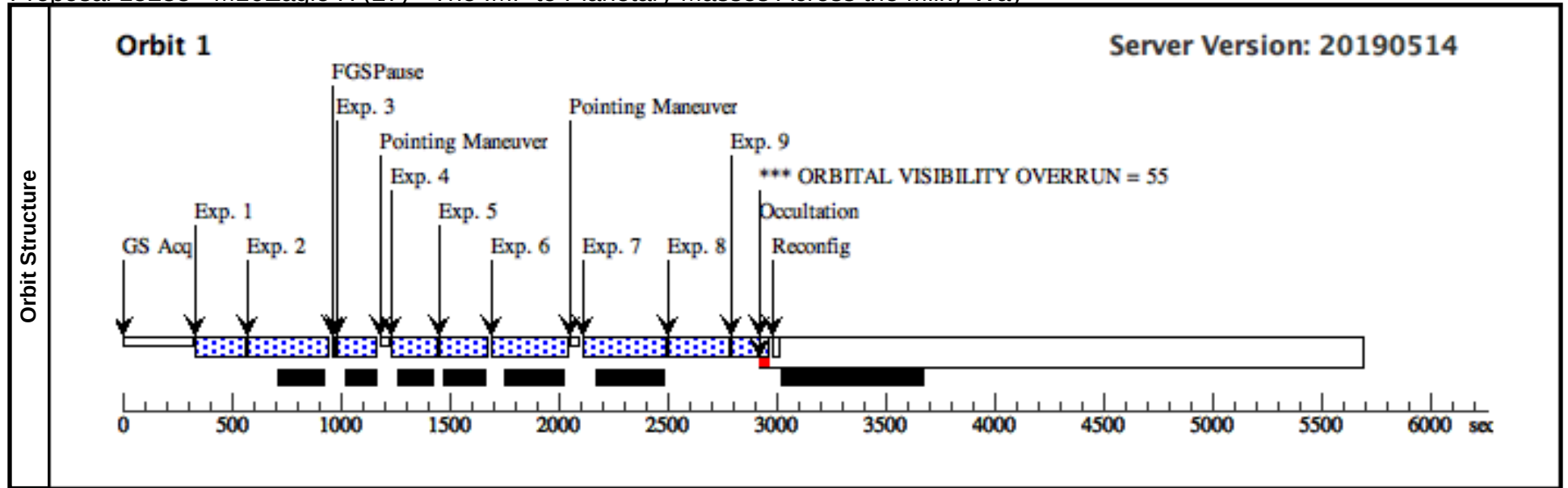
# Proposal 15238 - M16Eagle G (26) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|---------------|-------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, M16Eagle G (26), completed                              |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:18 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                              |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 100D TO 100 D                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics   | (M16Eagle G (26)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle G (26)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle G (26)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle G (26)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle G (26)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle G (26)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle G (26)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets | #            Name                                                       |  |  |  |  |  |  |  |  |  |                              |  |  |  |



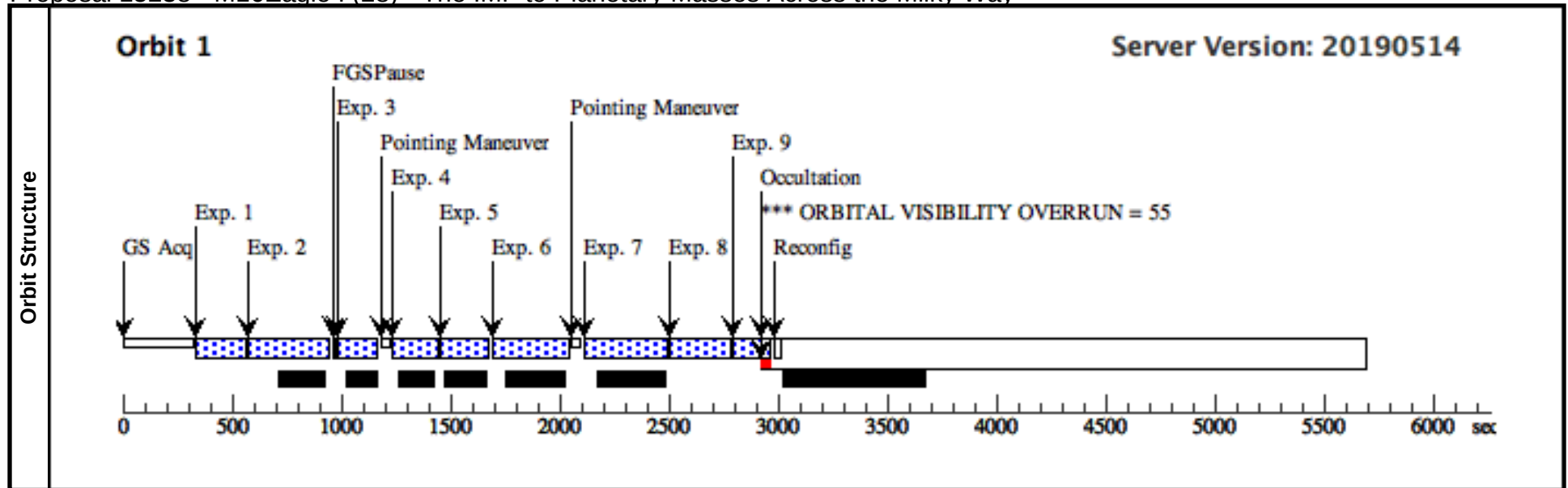
# Proposal 15238 - M16Eagle H (27) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                                                                                                                                                                             |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------|-----------------------------|---------------|--------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, M16Eagle H (27), completed                                                                                                                                                                                  |       |                        |                             |               |                                |                                      |                                         |                                         |  | Tue Sep 10 16:05:18 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                                                                                                                                                                                  |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                                                                                                                                                                             |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 100D TO 100 D                                                                                                                                                                      |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
| Diagnostics   | (M16Eagle H (27)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                       |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle H (27)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle H (27)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle H (27)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle H (27)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle H (27)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle H (27)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
| Fixed Targets | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                            |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (31)                      M16EAGLENEBULA-H                      RA: 18 18 42.3366 (274.6764025d)<br>Dec: -13 41 18.18 (-13.68838d)<br>Equinox: J2000<br><br>Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
| Exposures     | #                                                                                                                                                                                                                           | Label | Target                 | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                        | Groups                                  | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |  |  |
|               | 1                                                                                                                                                                                                                           |       | (31) M16EAGLENE BULA-H | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in M16Eagle H (27) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 2                                                                                                                                                                                                                           |       | (31) M16EAGLENE BULA-H | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in M16Eagle H (27) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 3                                                                                                                                                                                                                           |       | (31) M16EAGLENE BULA-H | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0;<br>EXP PCS MODE GYRO   | Sequence 1-9 Non-Int in M16Eagle H (27) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 4                                                                                                                                                                                                                           |       | (31) M16EAGLENE BULA-H | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle H (27) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 5                                                                                                                                                                                                                           |       | (31) M16EAGLENE BULA-H | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle H (27) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 6                                                                                                                                                                                                                           |       | (31) M16EAGLENE BULA-H | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle H (27) | 327.938986 Secs (327.939 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 7                                                                                                                                                                                                                           |       | (31) M16EAGLENE BULA-H | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle H (27) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 8                                                                                                                                                                                                                           |       | (31) M16EAGLENE BULA-H | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle H (27) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 9                                                                                                                                                                                                                           |       | (31) M16EAGLENE BULA-H | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle H (27) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |



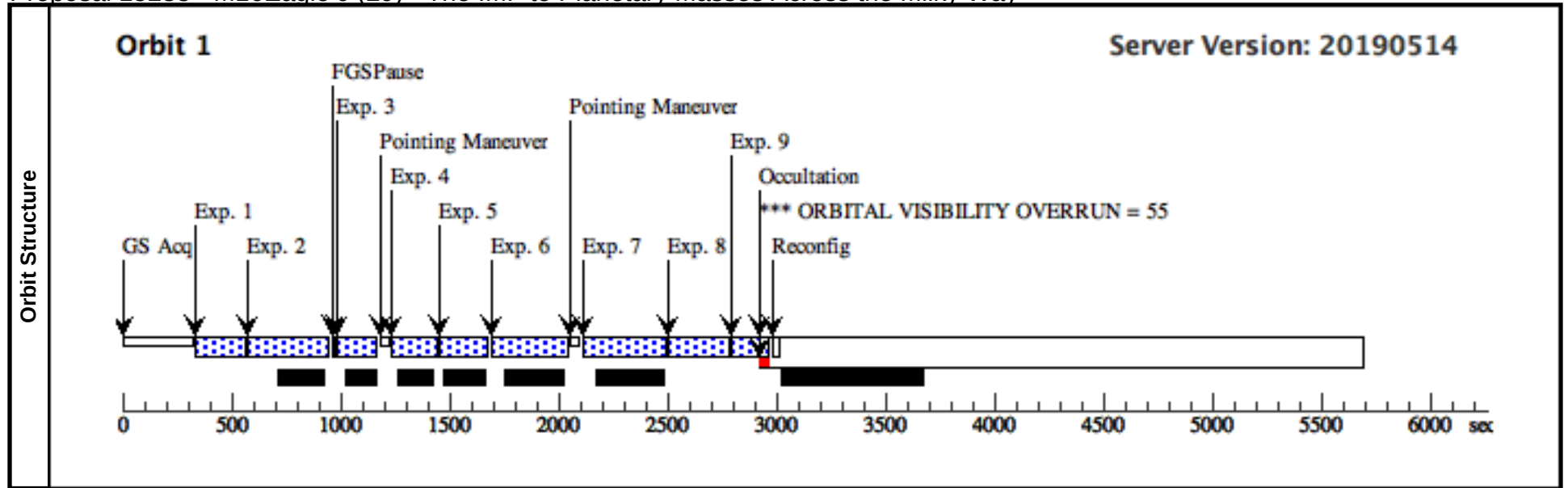
# Proposal 15238 - M16Eagle I (28) - The IMF to Planetary Masses Across the Milky Way

|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit                                                           | Proposal 15238, M16Eagle I (28), completed                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:18 GMT 2019 |  |  |  |
|                                                                 | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 100D TO 100 D                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics                                                     | (M16Eagle I (28)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | (M16Eagle I (28)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | (M16Eagle I (28)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | (M16Eagle I (28)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | (M16Eagle I (28)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | (M16Eagle I (28)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | (M16Eagle I (28)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets                                                   | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | (32)                      M16EAGLENEBULA-I                      RA: 18 18 34.6519 (274.6443829d)                                                                V=15+/-5                      Reference Frame: ICRS                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | Dec: -13 49 48.36 (-13.83010d)                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | Equinox: J2000                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Exposures                                                       | #                      Label                      Target                      Config,Mode,Aperture                      Spectral Els.                      Opt. Params.                      Special Reqs.                      Groups                      Exp. Time (Total)/[Actual Dur.]                      Orbit                                                                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | 1                                           (32) M16EAGLENE BULA-I                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=5;                      POS TARG 0,0;                      Sequence 1-9 Non-Int in M16Eagle I (28)                      202.934095 Secs (202.934 Secs)                      [==>]                      [1]    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | 2                                           (32) M16EAGLENE BULA-I                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=8;                      POS TARG 0,0;                      Sequence 1-9 Non-Int in M16Eagle I (28)                      352.935448 Secs (352.935 Secs)                      [==>]                      [1]    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | 3                                           (32) M16EAGLENE BULA-I                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;                      POS TARG 0,0;                      Sequence 1-9 Non-Int in M16Eagle I (28)                      152.935381 Secs (152.935 Secs)                      [==>]                      [1]    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | 4                                           (32) M16EAGLENE BULA-I                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=8;                      POS TARG 0,117;                      Sequence 1-9 Non-Int in M16Eagle I (28)                      177.935896 Secs (177.936 Secs)                      [==>]                      [1]  |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | 5                                           (32) M16EAGLENE BULA-I                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=9;                      POS TARG 0,117;                      Sequence 1-9 Non-Int in M16Eagle I (28)                      202.936411 Secs (202.936 Secs)                      [==>]                      [1]  |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | 6                                           (32) M16EAGLENE BULA-I                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=14;                      POS TARG 0,117;                      Sequence 1-9 Non-Int in M16Eagle I (28)                      327.938986 Secs (327.939 Secs)                      [==>]                      [1] |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | 7                                           (32) M16EAGLENE BULA-I                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=15;                      POS TARG 0,234;                      Sequence 1-9 Non-Int in M16Eagle I (28)                      352.939501 Secs (352.94 Secs)                      [==>]                      [1]  |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | 8                                           (32) M16EAGLENE BULA-I                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=11;                      POS TARG 0,234;                      Sequence 1-9 Non-Int in M16Eagle I (28)                      252.937441 Secs (252.937 Secs)                      [==>]                      [1] |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | 9                                           (32) M16EAGLENE BULA-I                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;                      POS TARG 0,234;                      Sequence 1-9 Non-Int in M16Eagle I (28)                      152.935381 Secs (152.935 Secs)                      [==>]                      [1]  |  |  |  |  |  |  |  |  |  |                              |  |  |  |



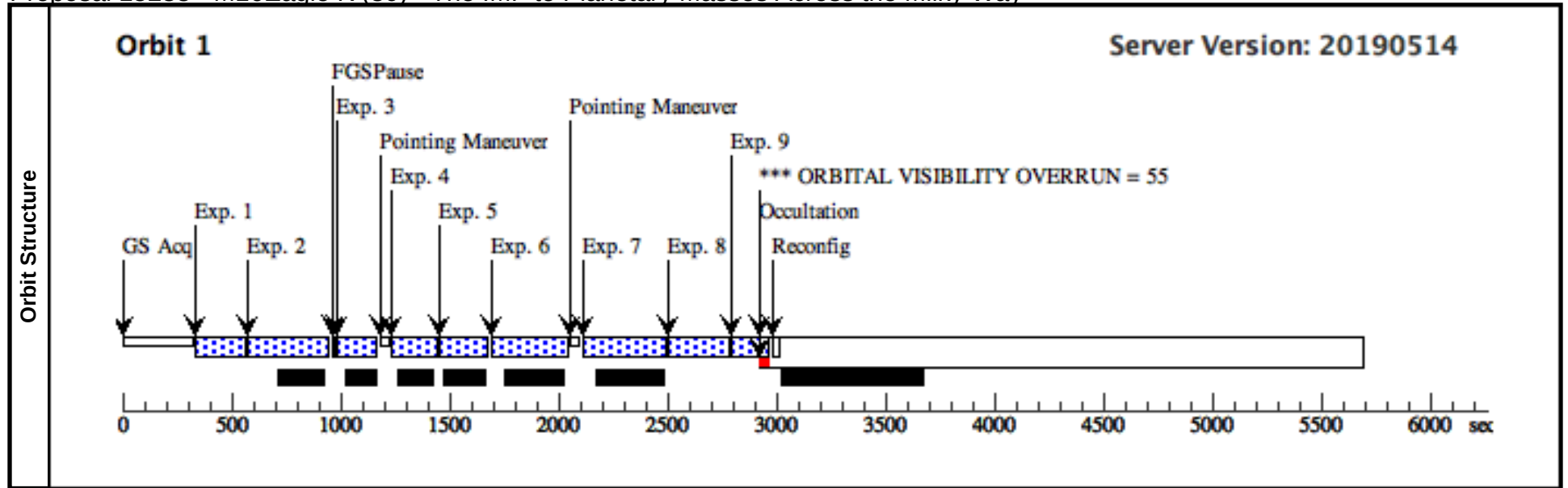
# Proposal 15238 - M16Eagle J (29) - The IMF to Planetary Masses Across the Milky Way

|                                                                 |                                                                         |       |                        |                             |               |                                |                                      |                                         |                                         |               |                              |  |  |  |
|-----------------------------------------------------------------|-------------------------------------------------------------------------|-------|------------------------|-----------------------------|---------------|--------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|---------------|------------------------------|--|--|--|
| Visit                                                           | Proposal 15238, M16Eagle J (29), completed                              |       |                        |                             |               |                                |                                      |                                         |                                         |               | Tue Sep 10 16:05:18 GMT 2019 |  |  |  |
|                                                                 | Diagnostic Status: Warning                                              |       |                        |                             |               |                                |                                      |                                         |                                         |               |                              |  |  |  |
|                                                                 | Scientific Instruments: WFC3/IR                                         |       |                        |                             |               |                                |                                      |                                         |                                         |               |                              |  |  |  |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 100D TO 100 D                  |       |                        |                             |               |                                |                                      |                                         |                                         |               |                              |  |  |  |
| Diagnostics                                                     | (M16Eagle J (29)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                        |                             |               |                                |                                      |                                         |                                         |               |                              |  |  |  |
|                                                                 | (M16Eagle J (29)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                        |                             |               |                                |                                      |                                         |                                         |               |                              |  |  |  |
|                                                                 | (M16Eagle J (29)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                        |                             |               |                                |                                      |                                         |                                         |               |                              |  |  |  |
|                                                                 | (M16Eagle J (29)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                        |                             |               |                                |                                      |                                         |                                         |               |                              |  |  |  |
|                                                                 | (M16Eagle J (29)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                        |                             |               |                                |                                      |                                         |                                         |               |                              |  |  |  |
|                                                                 | (M16Eagle J (29)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                        |                             |               |                                |                                      |                                         |                                         |               |                              |  |  |  |
|                                                                 | (M16Eagle J (29)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                        |                             |               |                                |                                      |                                         |                                         |               |                              |  |  |  |
| Fixed Targets                                                   |                                                                         |       |                        |                             |               |                                |                                      |                                         |                                         |               |                              |  |  |  |
|                                                                 | #                                                                       | Name  |                        | Target Coordinates          |               | Targ. Coord. Corrections       |                                      | Fluxes                                  |                                         | Miscellaneous |                              |  |  |  |
| (33) M16EAGLENEBULA-J RA: 18 18 56.3294 (274.7347058d)          |                                                                         |       |                        |                             |               |                                |                                      |                                         |                                         |               |                              |  |  |  |
| Dec: -13 46 7.56 (-13.76877d)                                   |                                                                         |       |                        |                             |               |                                |                                      |                                         |                                         |               |                              |  |  |  |
| Equinox: J2000                                                  |                                                                         |       |                        |                             |               |                                |                                      |                                         |                                         |               |                              |  |  |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                         |       |                        |                             |               |                                |                                      |                                         |                                         |               |                              |  |  |  |
| Exposures                                                       | #                                                                       | Label | Target                 | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                        | Groups                                  | Exp. Time (Total)/[Actual Dur.]         |               | Orbit                        |  |  |  |
|                                                                 | 1                                                                       |       | (33) M16EAGLENE BULA-J | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in M16Eagle J (29) | 202.934095 Secs (202.934 Secs)<br>[==>] |               | [1]                          |  |  |  |
|                                                                 | 2                                                                       |       | (33) M16EAGLENE BULA-J | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in M16Eagle J (29) | 352.935448 Secs (352.935 Secs)<br>[==>] |               | [1]                          |  |  |  |
|                                                                 | 3                                                                       |       | (33) M16EAGLENE BULA-J | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0;<br>EXP PCS MODE GYRO   | Sequence 1-9 Non-Int in M16Eagle J (29) | 152.935381 Secs (152.935 Secs)<br>[==>] |               | [1]                          |  |  |  |
|                                                                 | 4                                                                       |       | (33) M16EAGLENE BULA-J | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle J (29) | 177.935896 Secs (177.936 Secs)<br>[==>] |               | [1]                          |  |  |  |
|                                                                 | 5                                                                       |       | (33) M16EAGLENE BULA-J | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle J (29) | 202.936411 Secs (202.936 Secs)<br>[==>] |               | [1]                          |  |  |  |
|                                                                 | 6                                                                       |       | (33) M16EAGLENE BULA-J | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle J (29) | 327.938986 Secs (327.939 Secs)<br>[==>] |               | [1]                          |  |  |  |
|                                                                 | 7                                                                       |       | (33) M16EAGLENE BULA-J | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle J (29) | 352.939501 Secs (352.94 Secs)<br>[==>]  |               | [1]                          |  |  |  |
|                                                                 | 8                                                                       |       | (33) M16EAGLENE BULA-J | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle J (29) | 252.937441 Secs (252.937 Secs)<br>[==>] |               | [1]                          |  |  |  |
|                                                                 | 9                                                                       |       | (33) M16EAGLENE BULA-J | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle J (29) | 152.935381 Secs (152.935 Secs)<br>[==>] |               | [1]                          |  |  |  |



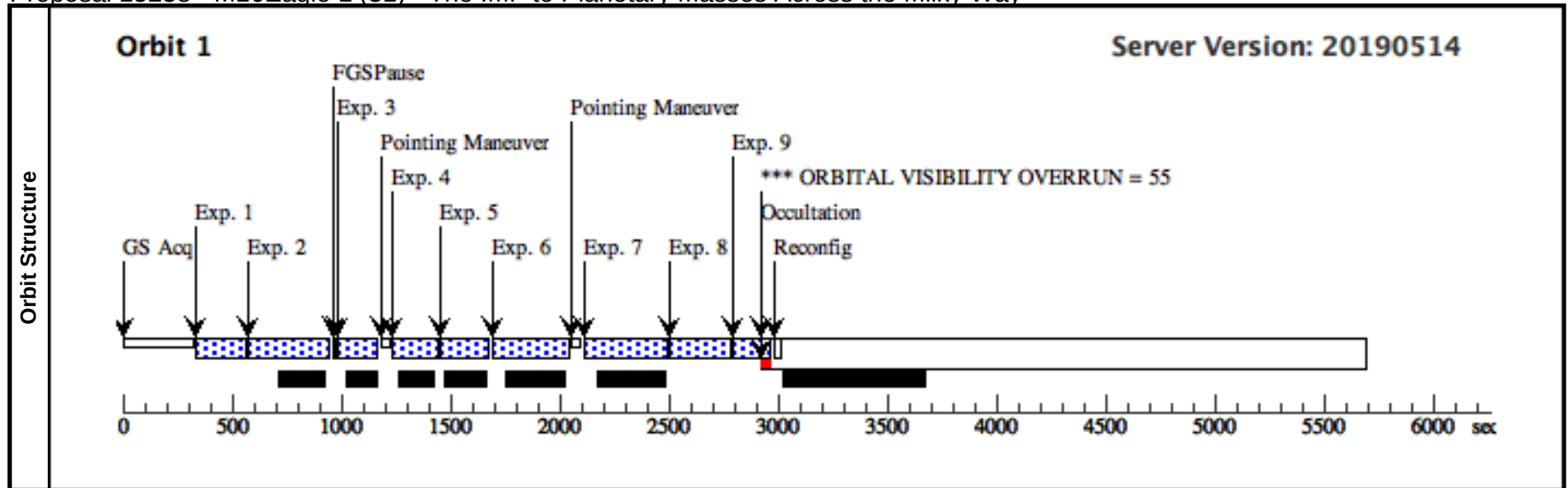
# Proposal 15238 - M16Eagle K (30) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                                                                                                                                                                             |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------|-----------------------------|---------------|--------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, M16Eagle K (30), completed                                                                                                                                                                                  |       |                        |                             |               |                                |                                      |                                         |                                         |  | Tue Sep 10 16:05:18 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                                                                                                                                                                                  |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                                                                                                                                                                             |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 100D TO 100 D                                                                                                                                                                      |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
| Diagnostics   | (M16Eagle K (30)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                       |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle K (30)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle K (30)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle K (30)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle K (30)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle K (30)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle K (30)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
| Fixed Targets | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                            |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (34)                      M16EAGLENEBULA-K                      RA: 18 18 54.1598 (274.7256658d)<br>Dec: -13 41 41.82 (-13.69495d)<br>Equinox: J2000<br><br>Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
| Exposures     | #                                                                                                                                                                                                                           | Label | Target                 | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                        | Groups                                  | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |  |  |
|               | 1                                                                                                                                                                                                                           |       | (34) M16EAGLENE BULA-K | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in M16Eagle K (30) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 2                                                                                                                                                                                                                           |       | (34) M16EAGLENE BULA-K | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in M16Eagle K (30) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 3                                                                                                                                                                                                                           |       | (34) M16EAGLENE BULA-K | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0;<br>EXP PCS MODE GYRO   | Sequence 1-9 Non-Int in M16Eagle K (30) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 4                                                                                                                                                                                                                           |       | (34) M16EAGLENE BULA-K | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle K (30) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 5                                                                                                                                                                                                                           |       | (34) M16EAGLENE BULA-K | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle K (30) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 6                                                                                                                                                                                                                           |       | (34) M16EAGLENE BULA-K | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle K (30) | 327.938986 Secs (327.939 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 7                                                                                                                                                                                                                           |       | (34) M16EAGLENE BULA-K | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle K (30) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 8                                                                                                                                                                                                                           |       | (34) M16EAGLENE BULA-K | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle K (30) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 9                                                                                                                                                                                                                           |       | (34) M16EAGLENE BULA-K | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle K (30) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |



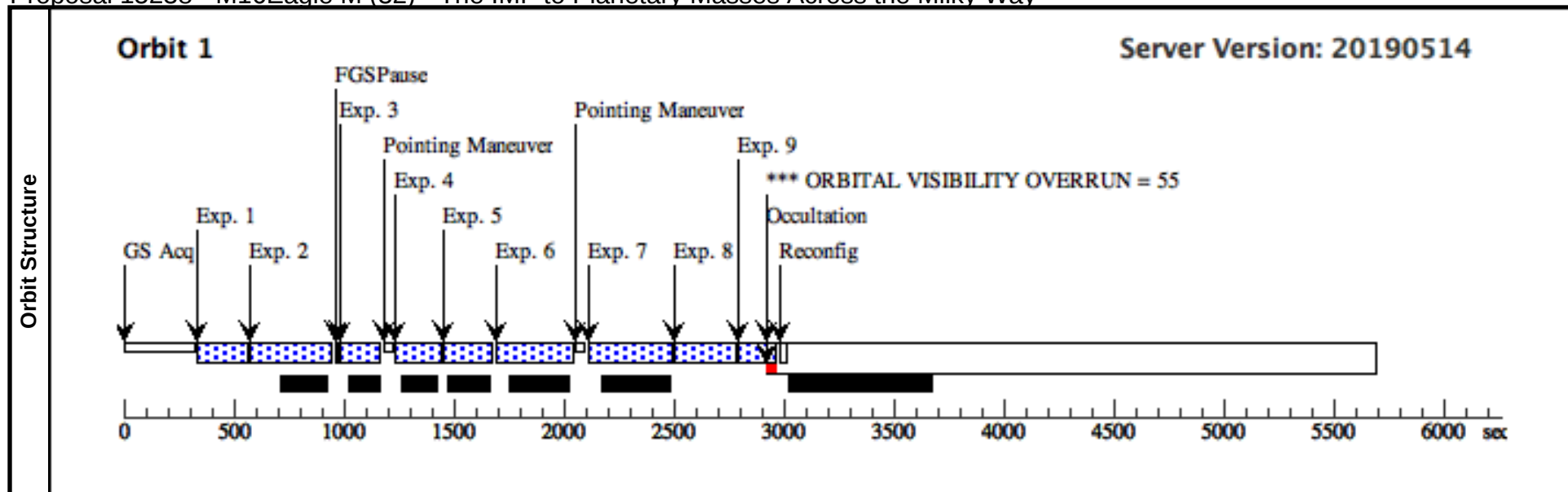
# Proposal 15238 - M16Eagle L (31) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                                                                                                                                                                             |       |                        |                             |               |                                |                                      |                                         |                                         |       |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------|-----------------------------|---------------|--------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|-------|
| Visit         | Proposal 15238, M16Eagle L (31), completed                                                                                                                                                                                  |       |                        |                             |               |                                |                                      |                                         | Tue Sep 10 16:05:18 GMT 2019            |       |
|               | Diagnostic Status: Warning                                                                                                                                                                                                  |       |                        |                             |               |                                |                                      |                                         |                                         |       |
|               | Scientific Instruments: WFC3/IR                                                                                                                                                                                             |       |                        |                             |               |                                |                                      |                                         |                                         |       |
|               | Special Requirements: SCHED 100%; ORIENT 100D TO 100 D                                                                                                                                                                      |       |                        |                             |               |                                |                                      |                                         |                                         |       |
| Diagnostics   | (M16Eagle L (31)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                       |       |                        |                             |               |                                |                                      |                                         |                                         |       |
|               | (M16Eagle L (31)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |       |
|               | (M16Eagle L (31)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |       |
|               | (M16Eagle L (31)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |       |
|               | (M16Eagle L (31)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |       |
|               | (M16Eagle L (31)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |       |
|               | (M16Eagle L (31)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |       |
| Fixed Targets | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                            |       |                        |                             |               |                                |                                      |                                         |                                         |       |
|               | (35)                      M16EAGLENEBULA-L                      RA: 18 18 13.2164 (274.5550683d)<br>Dec: -13 46 17.26 (-13.77146d)<br>Equinox: J2000<br><br>Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |       |                        |                             |               |                                |                                      |                                         |                                         |       |
| Exposures     | #                                                                                                                                                                                                                           | Label | Target                 | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                        | Groups                                  | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                                                                                                           |       | (35) M16EAGLENE BULA-L | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in M16Eagle L (31) | 202.934095 Secs (202.934 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                                                                                                                                           |       | (35) M16EAGLENE BULA-L | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in M16Eagle L (31) | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                                                                                                           |       | (35) M16EAGLENE BULA-L | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0;<br>EXP PCS MODE GYRO   | Sequence 1-9 Non-Int in M16Eagle L (31) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                                                                                                                                           |       | (35) M16EAGLENE BULA-L | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle L (31) | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                                                                                                           |       | (35) M16EAGLENE BULA-L | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle L (31) | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                                                                                                                                           |       | (35) M16EAGLENE BULA-L | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle L (31) | 327.938986 Secs (327.939 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                                                                                                                                           |       | (35) M16EAGLENE BULA-L | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle L (31) | 352.939501 Secs (352.94 Secs)<br>[==>]  | [1]   |
|               | 8                                                                                                                                                                                                                           |       | (35) M16EAGLENE BULA-L | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle L (31) | 252.937441 Secs (252.937 Secs)<br>[==>] | [1]   |
|               | 9                                                                                                                                                                                                                           |       | (35) M16EAGLENE BULA-L | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle L (31) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |



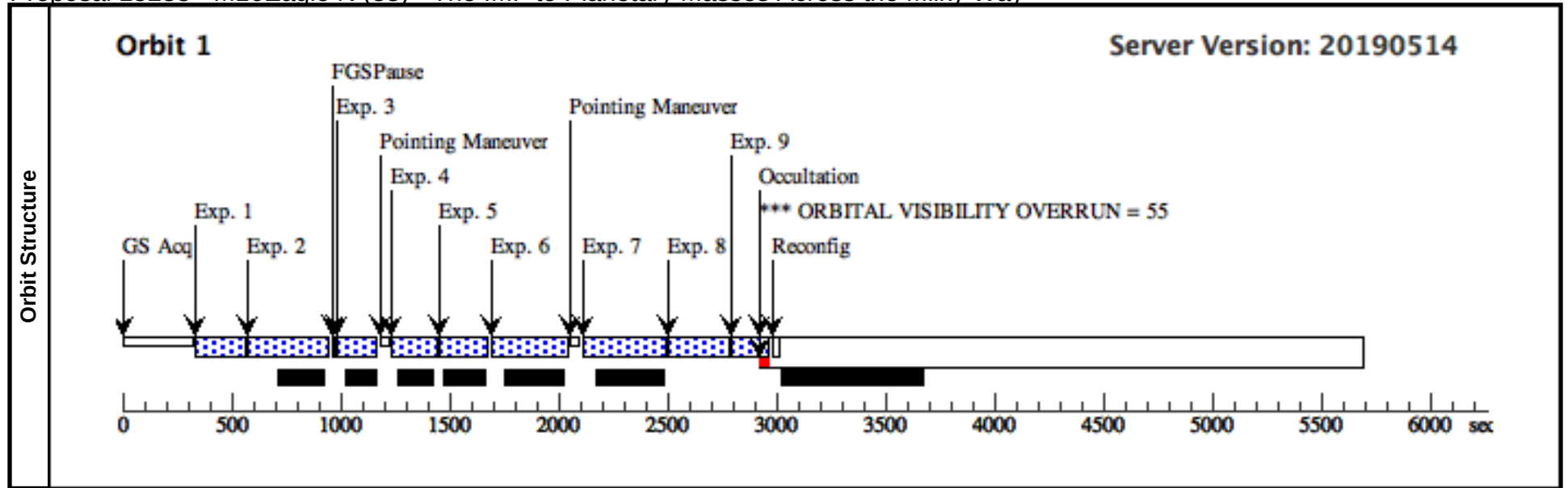
# Proposal 15238 - M16Eagle M (32) - The IMF to Planetary Masses Across the Milky Way

|                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit                                                                                                                                                                                                                                                                                                                                                        | Proposal 15238, M16Eagle M (32), completed                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:18 GMT 2019 |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | Special Requirements: SCHED 100%; ORIENT 100D TO 100 D                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics                                                                                                                                                                                                                                                                                                                                                  | (M16Eagle M (32)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | (M16Eagle M (32)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | (M16Eagle M (32)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | (M16Eagle M (32)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | (M16Eagle M (32)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | (M16Eagle M (32)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | (M16Eagle M (32)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets                                                                                                                                                                                                                                                                                                                                                | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | (36)                      M16EAGLENEBULA-M    RA: 18 18 27.3321 (274.6138838d)                      V=15+/-5                      Reference Frame: ICRS                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | Dec: -13 51 4.44 (-13.85123d)                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | Equinox: J2000                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Exposures                                                                                                                                                                                                                                                                                                                                                    | #                      Label                      Target                      Config,Mode,Aperture                      Spectral Els.                      Opt. Params.                      Special Reqs.                      Groups                      Exp. Time (Total)/[Actual Dur.]                      Orbit                                      |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | 1                                           (36) M16EAGLENE BULA-M                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=5;                      POS TARG 0,0;                      Sequence 1-9 Non-Int in M16Eagle M (32)                      202.934095 Secs (202.934 Secs)                      [1]   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | SAMP-SEQ=SPAR S50                      EXP PCS MODE FINE                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | 2                                           (36) M16EAGLENE BULA-M                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=8;                      POS TARG 0,0;                      Sequence 1-9 Non-Int in M16Eagle M (32)                      352.935448 Secs (352.935 Secs)                      [1]   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | SAMP-SEQ=SPAR S50                      EXP PCS MODE FINE                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | 3                                           (36) M16EAGLENE BULA-M                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;                      POS TARG 0,0;                      Sequence 1-9 Non-Int in M16Eagle M (32)                      152.935381 Secs (152.935 Secs)                      [1]   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | 4                                           (36) M16EAGLENE BULA-M                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=8;                      POS TARG 0,117;                      Sequence 1-9 Non-Int in M16Eagle M (32)                      177.935896 Secs (177.936 Secs)                      [1] |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | 5                                           (36) M16EAGLENE BULA-M                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=9;                      POS TARG 0,117;                      Sequence 1-9 Non-Int in M16Eagle M (32)                      202.936411 Secs (202.936 Secs)                      [1] |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 6                                           (36) M16EAGLENE BULA-M                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=14;                      POS TARG 0,117;                      Sequence 1-9 Non-Int in M16Eagle M (32)                      327.938986 Secs (327.939 Secs)                      [1] |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 7                                           (36) M16EAGLENE BULA-M                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=15;                      POS TARG 0,234;                      Sequence 1-9 Non-Int in M16Eagle M (32)                      352.939501 Secs (352.94 Secs)                      [1]  |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 8                                           (36) M16EAGLENE BULA-M                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=11;                      POS TARG 0,234;                      Sequence 1-9 Non-Int in M16Eagle M (32)                      252.937441 Secs (252.937 Secs)                      [1] |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 9                                           (36) M16EAGLENE BULA-M                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;                      POS TARG 0,234;                      Sequence 1-9 Non-Int in M16Eagle M (32)                      152.935381 Secs (152.935 Secs)                      [1]  |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |



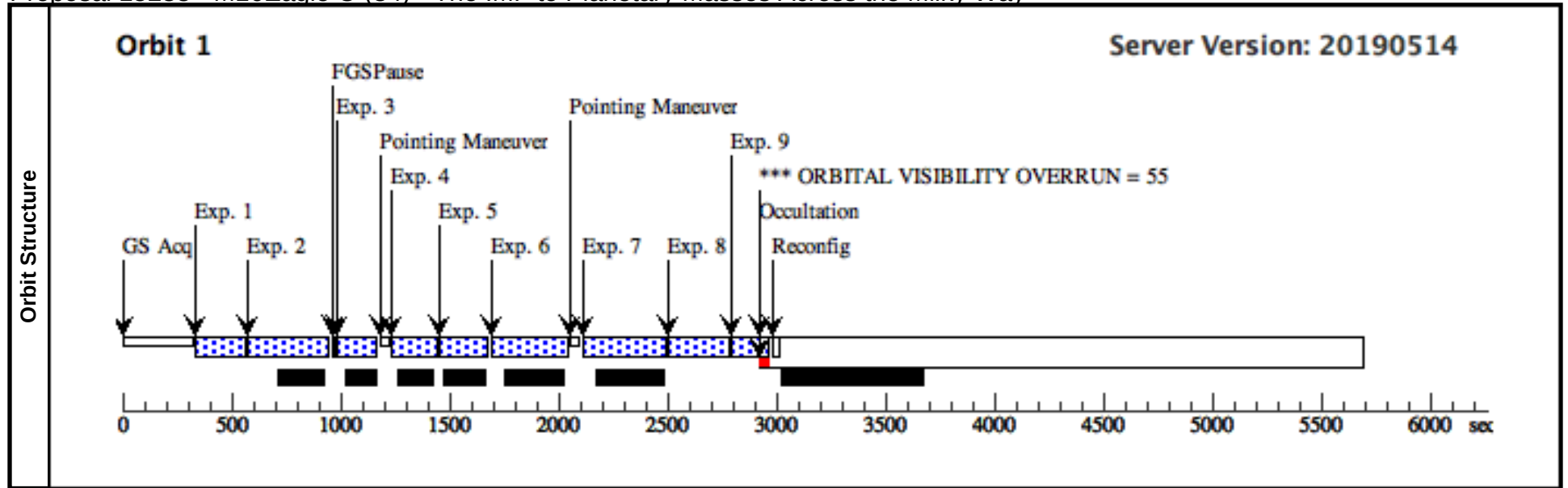
# Proposal 15238 - M16Eagle N (33) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                                                                                                                                                                            |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------|-----------------------------|---------------|--------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, M16Eagle N (33), completed                                                                                                                                                                                 |       |                        |                             |               |                                |                                      |                                         |                                         |  | Tue Sep 10 16:05:18 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                                                                                                                                                                                 |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                                                                                                                                                                            |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 100D TO 100 D                                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
| Diagnostics   | (M16Eagle N (33)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                      |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle N (33)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                    |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle N (33)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                    |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle N (33)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                    |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle N (33)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                    |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle N (33)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                    |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle N (33)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                    |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
| Fixed Targets | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                           |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (37)                      M16EAGLENEBULA-N                      RA: 18 18 5.7949 (274.5241454d)<br>Dec: -13 47 30.28 (-13.79174d)<br>Equinox: J2000<br><br>Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
| Exposures     | #                                                                                                                                                                                                                          | Label | Target                 | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                        | Groups                                  | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |  |  |
|               | 1                                                                                                                                                                                                                          |       | (37) M16EAGLENE BULA-N | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in M16Eagle N (33) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 2                                                                                                                                                                                                                          |       | (37) M16EAGLENE BULA-N | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in M16Eagle N (33) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 3                                                                                                                                                                                                                          |       | (37) M16EAGLENE BULA-N | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0;<br>EXP PCS MODE GYRO   | Sequence 1-9 Non-Int in M16Eagle N (33) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 4                                                                                                                                                                                                                          |       | (37) M16EAGLENE BULA-N | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle N (33) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 5                                                                                                                                                                                                                          |       | (37) M16EAGLENE BULA-N | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle N (33) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 6                                                                                                                                                                                                                          |       | (37) M16EAGLENE BULA-N | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle N (33) | 327.938986 Secs (327.939 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 7                                                                                                                                                                                                                          |       | (37) M16EAGLENE BULA-N | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle N (33) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 8                                                                                                                                                                                                                          |       | (37) M16EAGLENE BULA-N | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle N (33) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 9                                                                                                                                                                                                                          |       | (37) M16EAGLENE BULA-N | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle N (33) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |



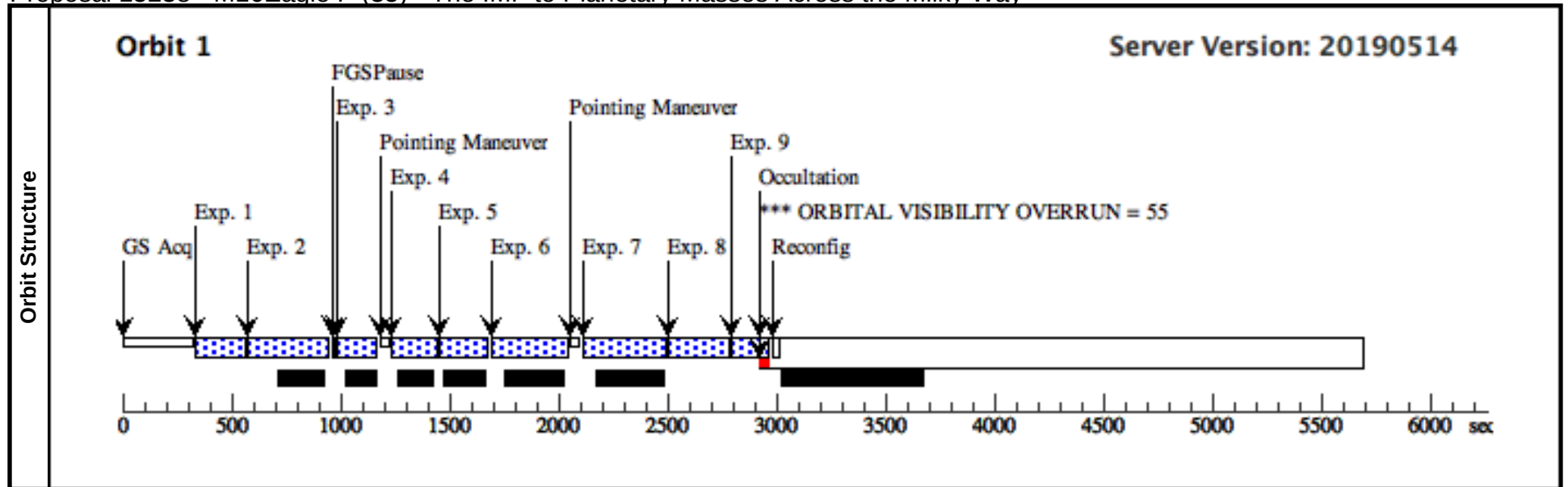
# Proposal 15238 - M16Eagle O (34) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                                                                                                                                                                            |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------|-----------------------------|---------------|--------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, M16Eagle O (34), completed                                                                                                                                                                                 |       |                        |                             |               |                                |                                      |                                         |                                         |  | Tue Sep 10 16:05:18 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                                                                                                                                                                                 |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                                                                                                                                                                            |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 100D TO 100 D                                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
| Diagnostics   | (M16Eagle O (34)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                      |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle O (34)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                    |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle O (34)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                    |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle O (34)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                    |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle O (34)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                    |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle O (34)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                    |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle O (34)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                    |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
| Fixed Targets | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                           |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (38)                      M16EAGLENEBULA-O                      RA: 18 19 8.4253 (274.7851054d)<br>Dec: -13 46 31.89 (-13.77553d)<br>Equinox: J2000<br><br>Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
| Exposures     | #                                                                                                                                                                                                                          | Label | Target                 | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                        | Groups                                  | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |  |  |
|               | 1                                                                                                                                                                                                                          |       | (38) M16EAGLENE BULA-O | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in M16Eagle O (34) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 2                                                                                                                                                                                                                          |       | (38) M16EAGLENE BULA-O | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in M16Eagle O (34) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 3                                                                                                                                                                                                                          |       | (38) M16EAGLENE BULA-O | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0;<br>EXP PCS MODE GYRO   | Sequence 1-9 Non-Int in M16Eagle O (34) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 4                                                                                                                                                                                                                          |       | (38) M16EAGLENE BULA-O | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle O (34) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 5                                                                                                                                                                                                                          |       | (38) M16EAGLENE BULA-O | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle O (34) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 6                                                                                                                                                                                                                          |       | (38) M16EAGLENE BULA-O | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle O (34) | 327.938986 Secs (327.939 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 7                                                                                                                                                                                                                          |       | (38) M16EAGLENE BULA-O | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle O (34) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 8                                                                                                                                                                                                                          |       | (38) M16EAGLENE BULA-O | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle O (34) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 9                                                                                                                                                                                                                          |       | (38) M16EAGLENE BULA-O | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle O (34) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |



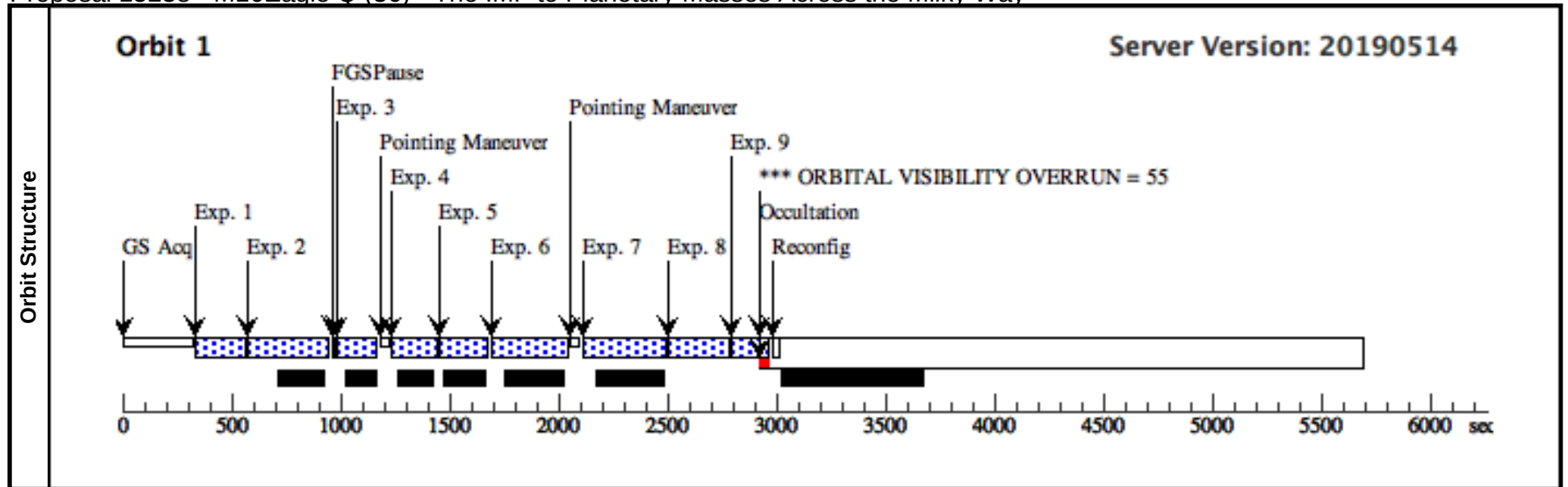
# Proposal 15238 - M16Eagle P (35) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                                                                                                                                                                           |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------|-----------------------------|---------------|--------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, M16Eagle P (35), completed                                                                                                                                                                                |       |                        |                             |               |                                |                                      |                                         |                                         |  | Tue Sep 10 16:05:18 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                                                                                                                                                                                |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                                                                                                                                                                           |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 100D TO 100 D                                                                                                                                                                    |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
| Diagnostics   | (M16Eagle P (35)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle P (35)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                   |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle P (35)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                   |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle P (35)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                   |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle P (35)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                   |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle P (35)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                   |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle P (35)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                   |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
| Fixed Targets | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                          |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (39)                      M16EAGLENEBULA-P                      RA: 18 19 6.1933 (274.7758054d)<br>Dec: -13 42 3.18 (-13.70088d)<br>Equinox: J2000<br><br>Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
| Exposures     | #                                                                                                                                                                                                                         | Label | Target                 | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                        | Groups                                  | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |  |  |
|               | 1                                                                                                                                                                                                                         |       | (39) M16EAGLENE BULA-P | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in M16Eagle P (35) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 2                                                                                                                                                                                                                         |       | (39) M16EAGLENE BULA-P | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in M16Eagle P (35) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 3                                                                                                                                                                                                                         |       | (39) M16EAGLENE BULA-P | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0;<br>EXP PCS MODE GYRO   | Sequence 1-9 Non-Int in M16Eagle P (35) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 4                                                                                                                                                                                                                         |       | (39) M16EAGLENE BULA-P | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle P (35) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 5                                                                                                                                                                                                                         |       | (39) M16EAGLENE BULA-P | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle P (35) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 6                                                                                                                                                                                                                         |       | (39) M16EAGLENE BULA-P | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle P (35) | 327.938986 Secs (327.939 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 7                                                                                                                                                                                                                         |       | (39) M16EAGLENE BULA-P | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle P (35) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 8                                                                                                                                                                                                                         |       | (39) M16EAGLENE BULA-P | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle P (35) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 9                                                                                                                                                                                                                         |       | (39) M16EAGLENE BULA-P | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle P (35) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |



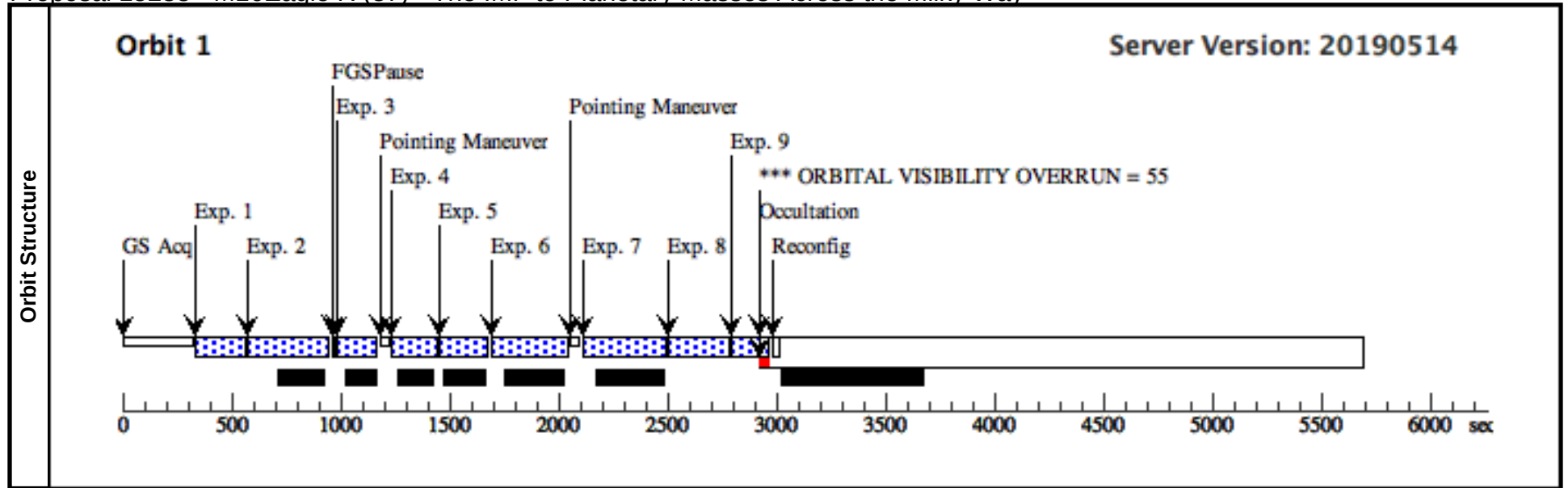
# Proposal 15238 - M16Eagle Q (36) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|---------------|-------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, M16Eagle Q (36), completed                              |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:18 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                              |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 100D TO 100 D                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics   | (M16Eagle Q (36)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle Q (36)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle Q (36)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle Q (36)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle Q (36)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle Q (36)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle Q (36)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets | #            Name                                                       |  |  |  |  |  |  |  |  |  |                              |  |  |  |



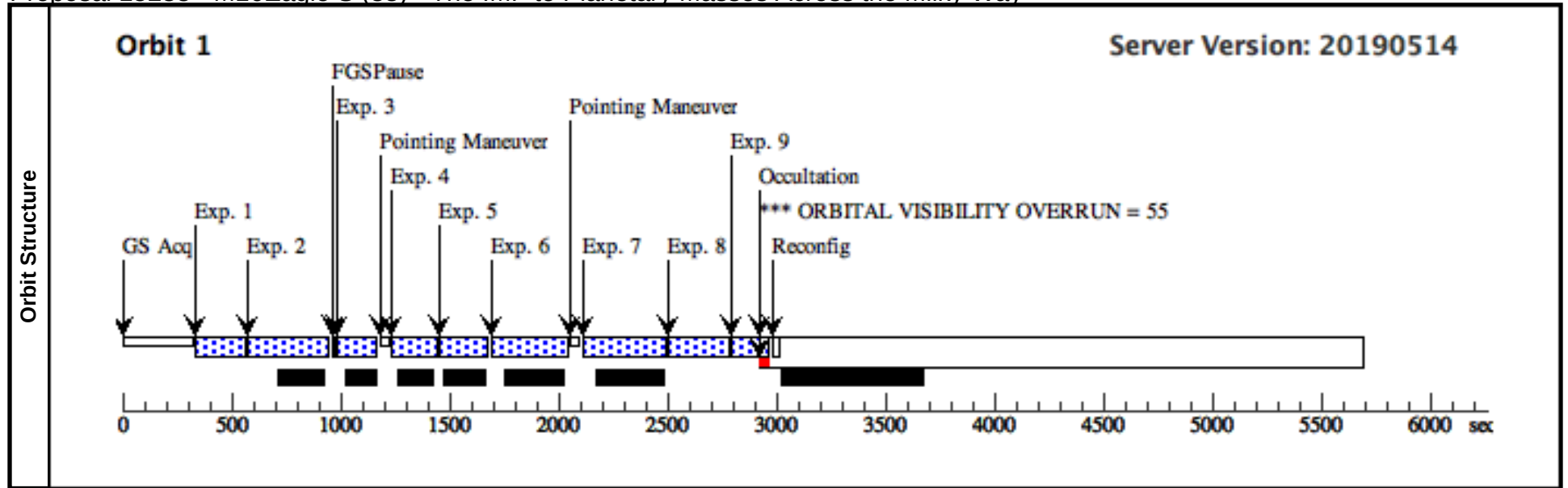
# Proposal 15238 - M16Eagle R (37) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|---------------|-------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, M16Eagle R (37), completed                              |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:18 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                              |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 100D TO 100 D                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics   | (M16Eagle R (37)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle R (37)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle R (37)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle R (37)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle R (37)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle R (37)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle R (37)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets | #            Name                                                       |  |  |  |  |  |  |  |  |  |                              |  |  |  |



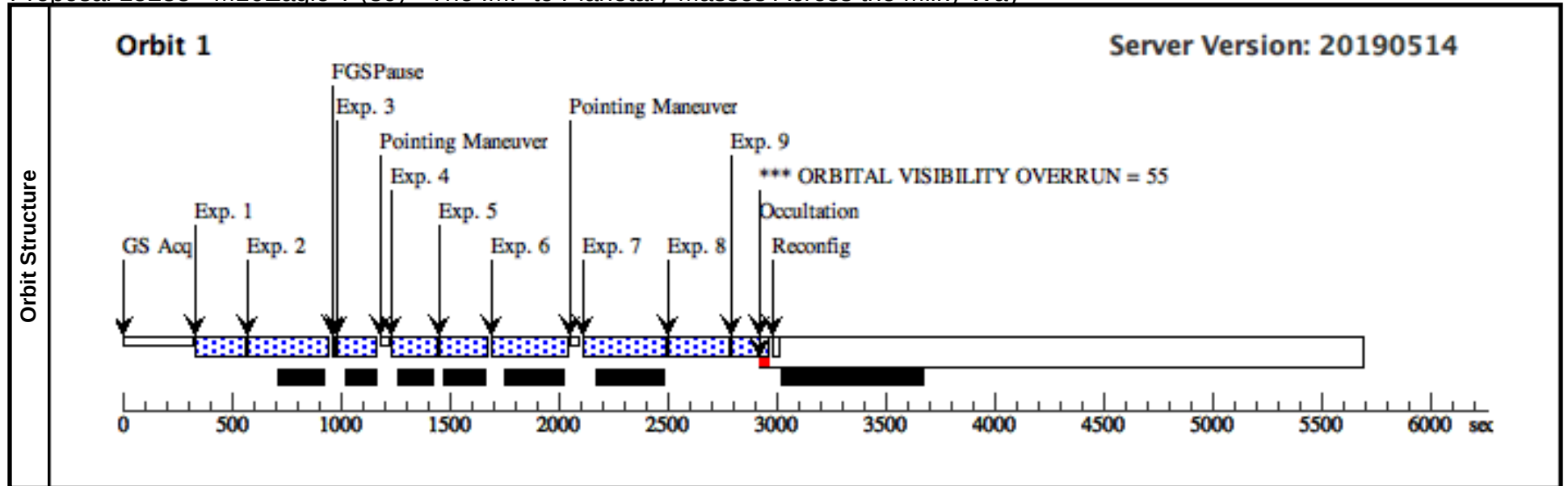
# Proposal 15238 - M16Eagle S (38) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                                                                                                                                                                             |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------|-----------------------------|---------------|--------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, M16Eagle S (38), completed                                                                                                                                                                                  |       |                        |                             |               |                                |                                      |                                         |                                         |  | Tue Sep 10 16:05:18 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                                                                                                                                                                                  |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                                                                                                                                                                             |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 100D TO 100 D                                                                                                                                                                      |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
| Diagnostics   | (M16Eagle S (38)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                       |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle S (38)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle S (38)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle S (38)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle S (38)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle S (38)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle S (38)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
| Fixed Targets | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                            |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (42)                      M16EAGLENEBULA-S                      RA: 18 19 32.3342 (274.8847258d)<br>Dec: -13 47 11.05 (-13.78640d)<br>Equinox: J2000<br><br>Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
| Exposures     | #                                                                                                                                                                                                                           | Label | Target                 | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                        | Groups                                  | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |  |  |
|               | 1                                                                                                                                                                                                                           |       | (42) M16EAGLENE BULA-S | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in M16Eagle S (38) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 2                                                                                                                                                                                                                           |       | (42) M16EAGLENE BULA-S | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in M16Eagle S (38) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 3                                                                                                                                                                                                                           |       | (42) M16EAGLENE BULA-S | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0;<br>EXP PCS MODE GYRO   | Sequence 1-9 Non-Int in M16Eagle S (38) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 4                                                                                                                                                                                                                           |       | (42) M16EAGLENE BULA-S | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle S (38) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 5                                                                                                                                                                                                                           |       | (42) M16EAGLENE BULA-S | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle S (38) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 6                                                                                                                                                                                                                           |       | (42) M16EAGLENE BULA-S | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle S (38) | 327.938986 Secs (327.939 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 7                                                                                                                                                                                                                           |       | (42) M16EAGLENE BULA-S | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle S (38) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 8                                                                                                                                                                                                                           |       | (42) M16EAGLENE BULA-S | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle S (38) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 9                                                                                                                                                                                                                           |       | (42) M16EAGLENE BULA-S | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle S (38) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |



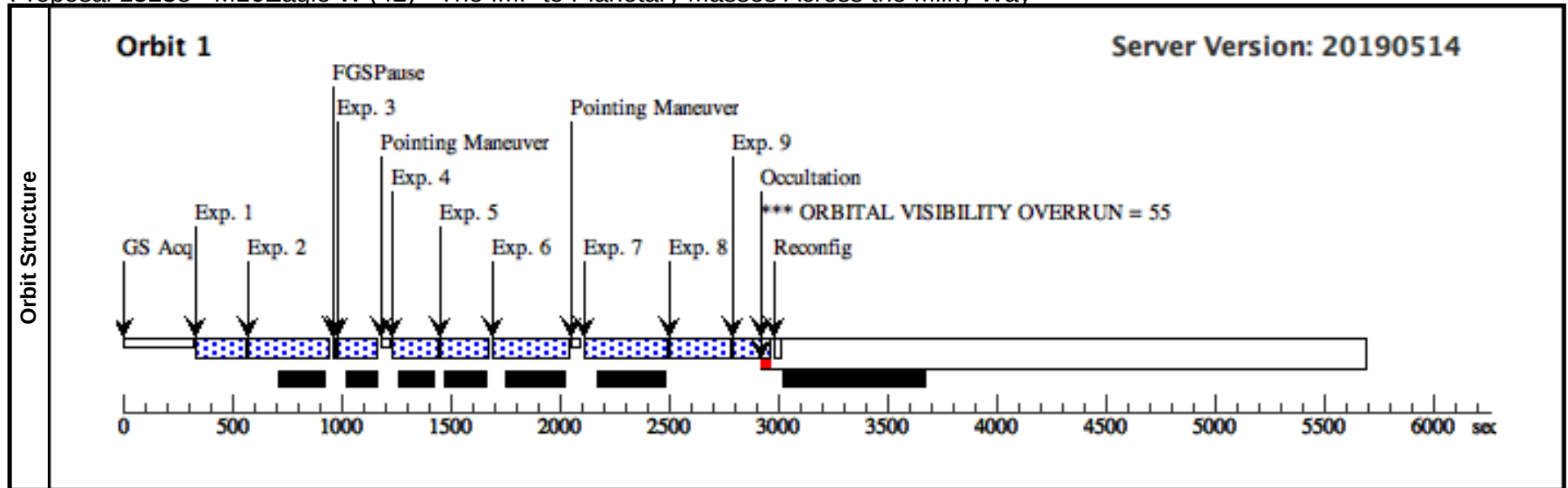
# Proposal 15238 - M16Eagle T (39) - The IMF to Planetary Masses Across the Milky Way

|                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit                                                                                                                                                                                                                                                                                                                               | Proposal 15238, M16Eagle T (39), completed                                                                                                                                                                                                                                                                                         |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:19 GMT 2019 |  |  |  |
|                                                                                                                                                                                                                                                                                                                                     | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                     | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                     | Special Requirements: SCHED 100%; ORIENT 100D TO 100 D                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics                                                                                                                                                                                                                                                                                                                         | (M16Eagle T (39)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                     | (M16Eagle T (39)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                     | (M16Eagle T (39)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                     | (M16Eagle T (39)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                     | (M16Eagle T (39)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                     | (M16Eagle T (39)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                     | (M16Eagle T (39)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets                                                                                                                                                                                                                                                                                                                       | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                                                                                                                                   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                     | (43)                      M16EAGLENEBULA-T                      RA: 18 19 30.1026 (274.8754275d)                                           V=15+/-5                      Reference Frame: ICRS                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                     | Dec: -13 42 45.98 (-13.71277d)                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                     | Equinox: J2000                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Exposures                                                                                                                                                                                                                                                                                                                           | #                      Label                      Target                      Config,Mode,Aperture                      Spectral Els.                      Opt. Params.                      Special Reqs.                      Groups                      Exp. Time (Total)/[Actual Dur.]                      Orbit             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                     | 1                                           (43) M16EAGLENE BULA-T                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=5;                      POS TARG 0,0;                      Sequence 1-9 Non-Int in M16Eagle T (39)                      202.934095 Secs (202.934 Secs)   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                     | SAMP-SEQ=SPAR S50                      EXP PCS MODE FINE                      [==>]                      [1]                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                     | 2                                           (43) M16EAGLENE BULA-T                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=8;                      POS TARG 0,0;                      Sequence 1-9 Non-Int in M16Eagle T (39)                      352.935448 Secs (352.935 Secs)   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                     | SAMP-SEQ=SPAR S50                      EXP PCS MODE FINE                      [==>]                      [1]                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                     | 3                                           (43) M16EAGLENE BULA-T                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;                      POS TARG 0,0;                      Sequence 1-9 Non-Int in M16Eagle T (39)                      152.935381 Secs (152.935 Secs)   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                     | SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                      [==>]                      [1]                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                     | 4                                           (43) M16EAGLENE BULA-T                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=8;                      POS TARG 0,117;                      Sequence 1-9 Non-Int in M16Eagle T (39)                      177.935896 Secs (177.936 Secs) |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                     | SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                      [==>]                      [1]                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                     | 5                                           (43) M16EAGLENE BULA-T                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=9;                      POS TARG 0,117;                      Sequence 1-9 Non-Int in M16Eagle T (39)                      202.936411 Secs (202.936 Secs) |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                      [==>]                      [1]                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 6                                           (43) M16EAGLENE BULA-T                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=14;                      POS TARG 0,117;                      Sequence 1-9 Non-Int in M16Eagle T (39)                      327.938986 Secs (327.939 Secs) |                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                      [==>]                      [1]                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 7                                           (43) M16EAGLENE BULA-T                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=15;                      POS TARG 0,234;                      Sequence 1-9 Non-Int in M16Eagle T (39)                      352.939501 Secs (352.94 Secs)  |                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                      [==>]                      [1]                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 8                                           (43) M16EAGLENE BULA-T                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=11;                      POS TARG 0,234;                      Sequence 1-9 Non-Int in M16Eagle T (39)                      252.937441 Secs (252.937 Secs) |                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                      [==>]                      [1]                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 9                                           (43) M16EAGLENE BULA-T                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;                      POS TARG 0,234;                      Sequence 1-9 Non-Int in M16Eagle T (39)                      152.935381 Secs (152.935 Secs)  |                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                      [==>]                      [1]                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |



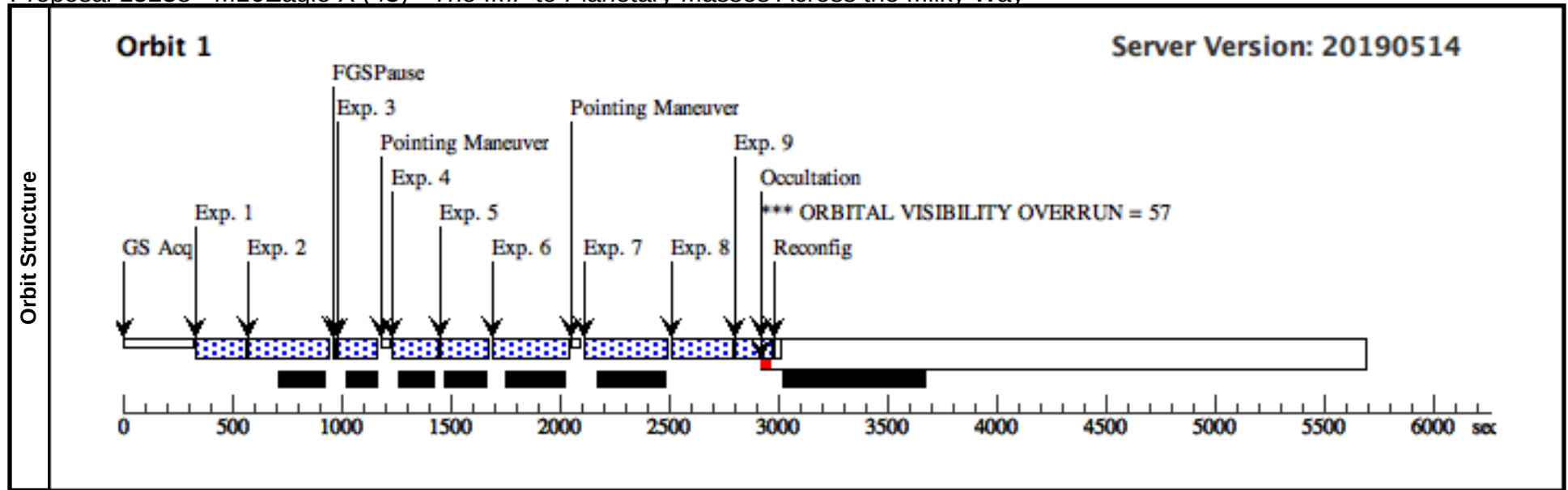
# Proposal 15238 - M16Eagle W (42) - The IMF to Planetary Masses Across the Milky Way

|                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit                                                                                                                                                                                                                                                                                                                                                        | Proposal 15238, M16Eagle W (42), completed                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:19 GMT 2019 |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | Special Requirements: SCHED 100%; ORIENT 100D TO 100 D                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics                                                                                                                                                                                                                                                                                                                                                  | (M16Eagle W (42)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | (M16Eagle W (42)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | (M16Eagle W (42)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | (M16Eagle W (42)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | (M16Eagle W (42)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | (M16Eagle W (42)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | (M16Eagle W (42)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets                                                                                                                                                                                                                                                                                                                                                | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | (46)                      M16EAGLENEBULA-W                      RA: 18 19 10.4215 (274.7934229d)                                           V=15+/-5                      Reference Frame: ICRS                                                                                                                                                              |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | Dec: -13 50 52.08 (-13.84780d)                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | Equinox: J2000                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Exposures                                                                                                                                                                                                                                                                                                                                                    | #                      Label                      Target                      Config,Mode,Aperture                      Spectral Els.                      Opt. Params.                      Special Reqs.                      Groups                      Exp. Time (Total)/[Actual Dur.]                      Orbit                                      |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | 1                                           (46) M16EAGLENE BULA-W                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=5;                      POS TARG 0,0;                      Sequence 1-9 Non-Int in M16Eagle W (42)                      202.934095 Secs (202.934 Secs)                      [1]   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | SAMP-SEQ=SPAR S50                      EXP PCS MODE FINE                      [==>]                                                                                                                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | 2                                           (46) M16EAGLENE BULA-W                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=8;                      POS TARG 0,0;                      Sequence 1-9 Non-Int in M16Eagle W (42)                      352.935448 Secs (352.935 Secs)                      [1]   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | SAMP-SEQ=SPAR S50                      EXP PCS MODE FINE                      [==>]                                                                                                                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | 3                                           (46) M16EAGLENE BULA-W                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;                      POS TARG 0,0;                      Sequence 1-9 Non-Int in M16Eagle W (42)                      152.935381 Secs (152.935 Secs)                      [1]   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                      [==>]                                                                                                                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | 4                                           (46) M16EAGLENE BULA-W                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=8;                      POS TARG 0,117;                      Sequence 1-9 Non-Int in M16Eagle W (42)                      177.935896 Secs (177.936 Secs)                      [1] |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                      [==>]                                                                                                                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | 5                                           (46) M16EAGLENE BULA-W                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=9;                      POS TARG 0,117;                      Sequence 1-9 Non-Int in M16Eagle W (42)                      202.936411 Secs (202.936 Secs)                      [1] |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                      [==>]                                                                                                                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 6                                           (46) M16EAGLENE BULA-W                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=14;                      POS TARG 0,117;                      Sequence 1-9 Non-Int in M16Eagle W (42)                      327.938986 Secs (327.939 Secs)                      [1] |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                      [==>]                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 7                                           (46) M16EAGLENE BULA-W                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=15;                      POS TARG 0,234;                      Sequence 1-9 Non-Int in M16Eagle W (42)                      352.939501 Secs (352.94 Secs)                      [1]  |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                      [==>]                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 8                                           (46) M16EAGLENE BULA-W                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=11;                      POS TARG 0,234;                      Sequence 1-9 Non-Int in M16Eagle W (42)                      252.937441 Secs (252.937 Secs)                      [1] |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                      [==>]                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 9                                           (46) M16EAGLENE BULA-W                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;                      POS TARG 0,234;                      Sequence 1-9 Non-Int in M16Eagle W (42)                      152.935381 Secs (152.935 Secs)                      [1]  |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                      [==>]                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |



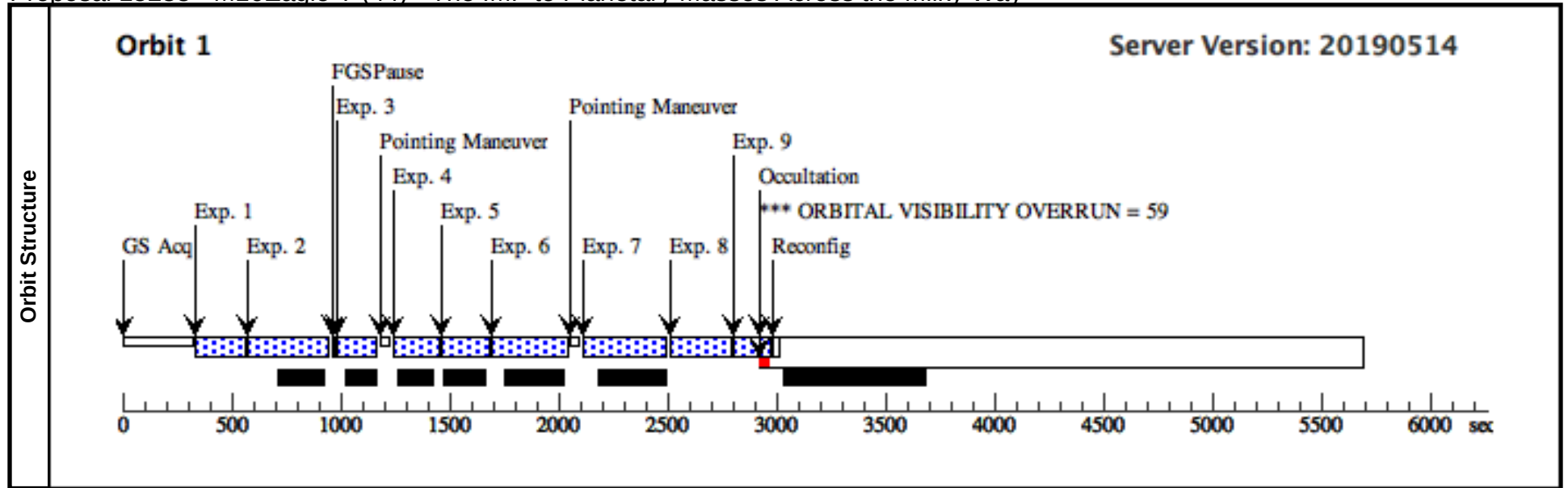
# Proposal 15238 - M16Eagle X (43) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|---------------|-------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, M16Eagle X (43), completed                              |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:19 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                              |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 100D TO 100 D                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics   | (M16Eagle X (43)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle X (43)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle X (43)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle X (43)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle X (43)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle X (43)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M16Eagle X (43)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets | #            Name                                                       |  |  |  |  |  |  |  |  |  |                              |  |  |  |



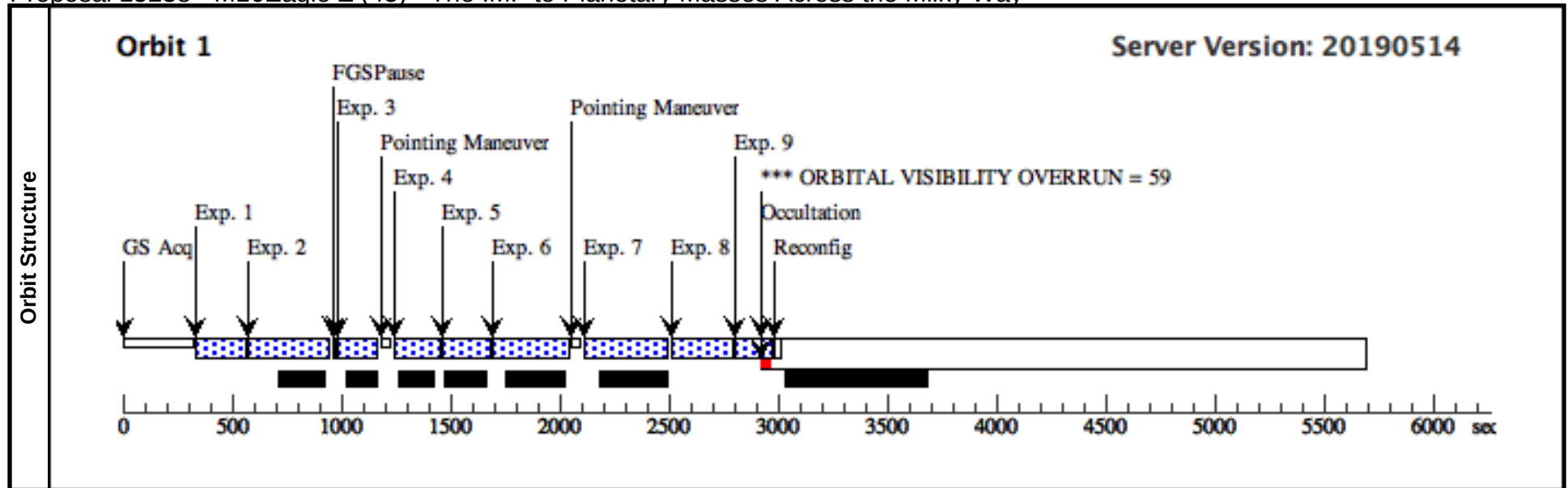
# Proposal 15238 - M16Eagle Y (44) - The IMF to Planetary Masses Across the Milky Way

|                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit                                                                                                                                                                                                                                                                                                                                                        | Proposal 15238, M16Eagle Y (44), completed                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:19 GMT 2019 |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | Special Requirements: SCHED 100%; ORIENT 100D TO 100 D                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics                                                                                                                                                                                                                                                                                                                                                  | (M16Eagle Y (44)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | (M16Eagle Y (44)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | (M16Eagle Y (44)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | (M16Eagle Y (44)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | (M16Eagle Y (44)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | (M16Eagle Y (44)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | (M16Eagle Y (44)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets                                                                                                                                                                                                                                                                                                                                                | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | (48)                      M16EAGLENEBULA-Y                      RA: 18 18 23.1769 (274.5965704d)                                                                V=15+/-5                      Reference Frame: ICRS                                                                                                                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | Dec: -13 42 12.88 (-13.70358d)                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | Equinox: J2000                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Exposures                                                                                                                                                                                                                                                                                                                                                    | #                      Label                      Target                      Config,Mode,Aperture                      Spectral Els.                      Opt. Params.                      Special Reqs.                      Groups                      Exp. Time (Total)/[Actual Dur.]                      Orbit                                      |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | 1                                           (48) M16EAGLENE BULA-Y                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=5;                      POS TARG 0,0;                      Sequence 1-9 Non-Int in M16Eagle Y (44)                      202.934095 Secs (202.934 Secs)                      [1]   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | SAMP-SEQ=SPAR S50                      EXP PCS MODE FINE                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | 2                                           (48) M16EAGLENE BULA-Y                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=8;                      POS TARG 0,0;                      Sequence 1-9 Non-Int in M16Eagle Y (44)                      352.935448 Secs (352.935 Secs)                      [1]   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | SAMP-SEQ=SPAR S50                      EXP PCS MODE FINE                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | 3                                           (48) M16EAGLENE BULA-Y                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;                      POS TARG 0,0;                      Sequence 1-9 Non-Int in M16Eagle Y (44)                      152.935381 Secs (152.935 Secs)                      [1]   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | 4                                           (48) M16EAGLENE BULA-Y                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=8;                      POS TARG 130,0;                      Sequence 1-9 Non-Int in M16Eagle Y (44)                      177.935896 Secs (177.936 Secs)                      [1] |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | 5                                           (48) M16EAGLENE BULA-Y                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=9;                      POS TARG 130,0;                      Sequence 1-9 Non-Int in M16Eagle Y (44)                      202.936411 Secs (202.936 Secs)                      [1] |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                              | SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 6                                           (48) M16EAGLENE BULA-Y                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=14;                      POS TARG 130,0;                      Sequence 1-9 Non-Int in M16Eagle Y (44)                      327.938986 Secs (327.939 Secs)                      [1] |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 7                                           (48) M16EAGLENE BULA-Y                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=15;                      POS TARG 260,0;                      Sequence 1-9 Non-Int in M16Eagle Y (44)                      352.939501 Secs (352.94 Secs)                      [1]  |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 8                                           (48) M16EAGLENE BULA-Y                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=11;                      POS TARG 260,0;                      Sequence 1-9 Non-Int in M16Eagle Y (44)                      252.937441 Secs (252.937 Secs)                      [1] |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 9                                           (48) M16EAGLENE BULA-Y                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;                      POS TARG 260,0;                      Sequence 1-9 Non-Int in M16Eagle Y (44)                      152.935381 Secs (152.935 Secs)                      [1]  |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR S25                      EXP PCS MODE GYRO                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |



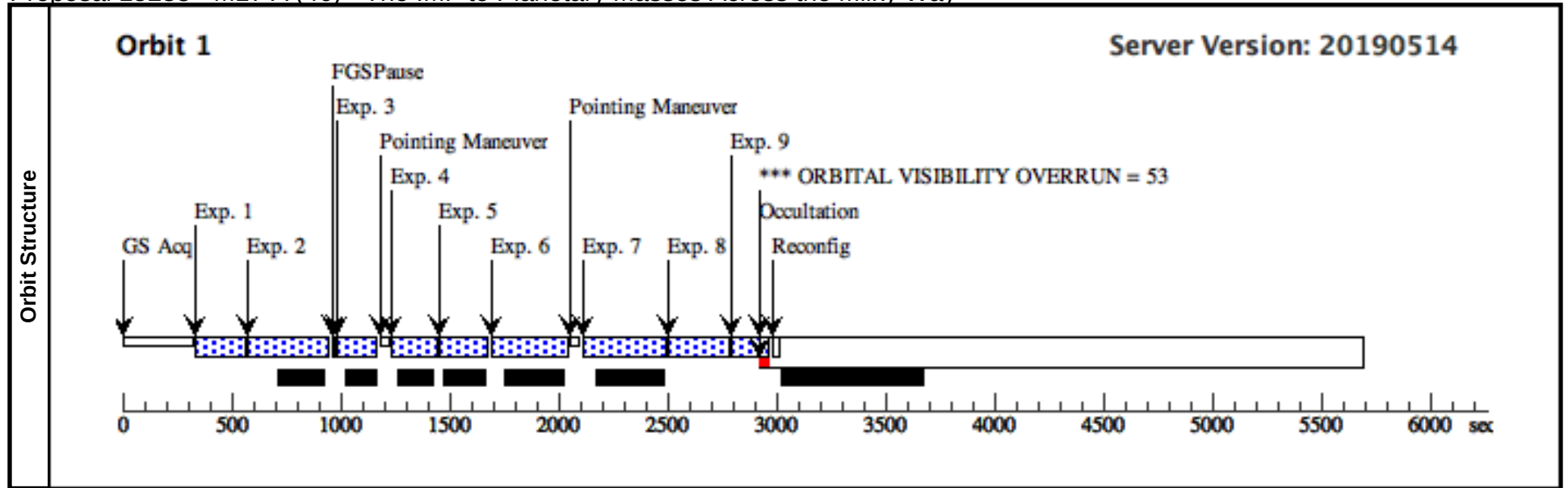
# Proposal 15238 - M16Eagle Z (45) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                                                                                                                                                                            |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------|-----------------------------|---------------|--------------------------------|--------------------------------------|-----------------------------------------|-----------------------------------------|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, M16Eagle Z (45), completed                                                                                                                                                                                 |       |                        |                             |               |                                |                                      |                                         |                                         |  | Tue Sep 10 16:05:19 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                                                                                                                                                                                 |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                                                                                                                                                                            |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 100D TO 100 D                                                                                                                                                                     |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
| Diagnostics   | (M16Eagle Z (45)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                      |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle Z (45)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                    |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle Z (45)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                    |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle Z (45)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                    |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle Z (45)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                    |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle Z (45)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                    |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (M16Eagle Z (45)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                    |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
| Fixed Targets | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                           |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
|               | (49)                      M16EAGLENEBULA-Z                      RA: 18 18 1.4038 (274.5058492d)<br>Dec: -13 45 58.08 (-13.76613d)<br>Equinox: J2000<br><br>Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |       |                        |                             |               |                                |                                      |                                         |                                         |  |                              |  |  |  |
| Exposures     | #                                                                                                                                                                                                                          | Label | Target                 | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                        | Groups                                  | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |  |  |
|               | 1                                                                                                                                                                                                                          |       | (49) M16EAGLENE BULA-Z | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in M16Eagle Z (45) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 2                                                                                                                                                                                                                          |       | (49) M16EAGLENE BULA-Z | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in M16Eagle Z (45) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 3                                                                                                                                                                                                                          |       | (49) M16EAGLENE BULA-Z | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0;<br>EXP PCS MODE GYRO   | Sequence 1-9 Non-Int in M16Eagle Z (45) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 4                                                                                                                                                                                                                          |       | (49) M16EAGLENE BULA-Z | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 130,0;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle Z (45) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 5                                                                                                                                                                                                                          |       | (49) M16EAGLENE BULA-Z | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 130,0;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle Z (45) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 6                                                                                                                                                                                                                          |       | (49) M16EAGLENE BULA-Z | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR S25 | POS TARG 130,0;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle Z (45) | 327.938986 Secs (327.939 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 7                                                                                                                                                                                                                          |       | (49) M16EAGLENE BULA-Z | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 260,0;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle Z (45) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 8                                                                                                                                                                                                                          |       | (49) M16EAGLENE BULA-Z | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 260,0;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle Z (45) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 9                                                                                                                                                                                                                          |       | (49) M16EAGLENE BULA-Z | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 260,0;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in M16Eagle Z (45) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |



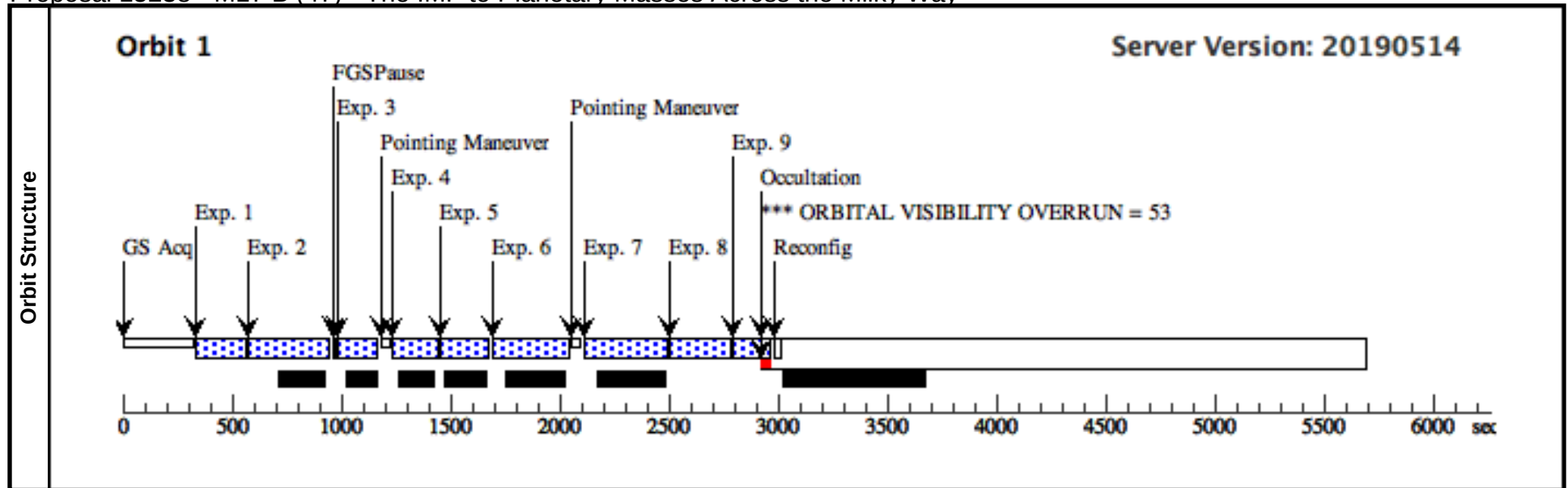
# Proposal 15238 - M17 A (46) - The IMF to Planetary Masses Across the Milky Way

|                                                                                                                                                                                                                   |                                                                    |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------|--------------------|-----------------------------|---------------|-----------------------------------|------------------------------------------|----------------------------------------|-----------------------------------------|------------------------------|-------|--|
| Visit                                                                                                                                                                                                             | Proposal 15238, M17 A (46), completed                              |       |                    |                             |               |                                   |                                          |                                        |                                         | Tue Sep 10 16:05:19 GMT 2019 |       |  |
|                                                                                                                                                                                                                   | Diagnostic Status: Warning                                         |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                                                   | Scientific Instruments: WFC3/IR                                    |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                                                   | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D               |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
| Diagnostics                                                                                                                                                                                                       | (M17 A (46)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                                                   | (M17 A (46)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                                                   | (M17 A (46)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                                                   | (M17 A (46)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                                                   | (M17 A (46)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                                                   | (M17 A (46)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                                                   | (M17 A (46)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
| Fixed Targets                                                                                                                                                                                                     |                                                                    |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                                                   | #                                                                  | Name  | Target Coordinates |                             |               | Targ. Coord. Corrections          |                                          | Fluxes                                 |                                         | Miscellaneous                |       |  |
| <div>(50)M17-A</div> <div>RA: 18 20 12.2293 (275.0509554d)</div> <div>Dec: -16 06 43.99 (-16.11222d)</div> <div>Equinox: J2000</div> <div>Comments:<br/>Category=EXT-CLUSTER<br/>Description=[OPEN CLUSTER]</div> |                                                                    |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
| Exposures                                                                                                                                                                                                         | #                                                                  | Label | Target             | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                 | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |  |
|                                                                                                                                                                                                                   | 1                                                                  |       | (50) M17-A         | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in M17 A (46) | 202.934095 Secs (202.934 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                                                   | 2                                                                  |       | (50) M17-A         | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in M17 A (46) | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                                                   | 3                                                                  |       | (50) M17-A         | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in M17 A (46) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                                                   | 4                                                                  |       | (50) M17-A         | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 A (46) | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                                                   | 5                                                                  |       | (50) M17-A         | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 A (46) | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                                                   | 6                                                                  |       | (50) M17-A         | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 A (46) | 327.938986 Secs (327.939 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                                                   | 7                                                                  |       | (50) M17-A         | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 A (46) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|                                                                                                                                                                                                                   | 8                                                                  |       | (50) M17-A         | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 A (46) | 252.937441 Secs (252.937 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                                                   | 9                                                                  |       | (50) M17-A         | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 A (46) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |



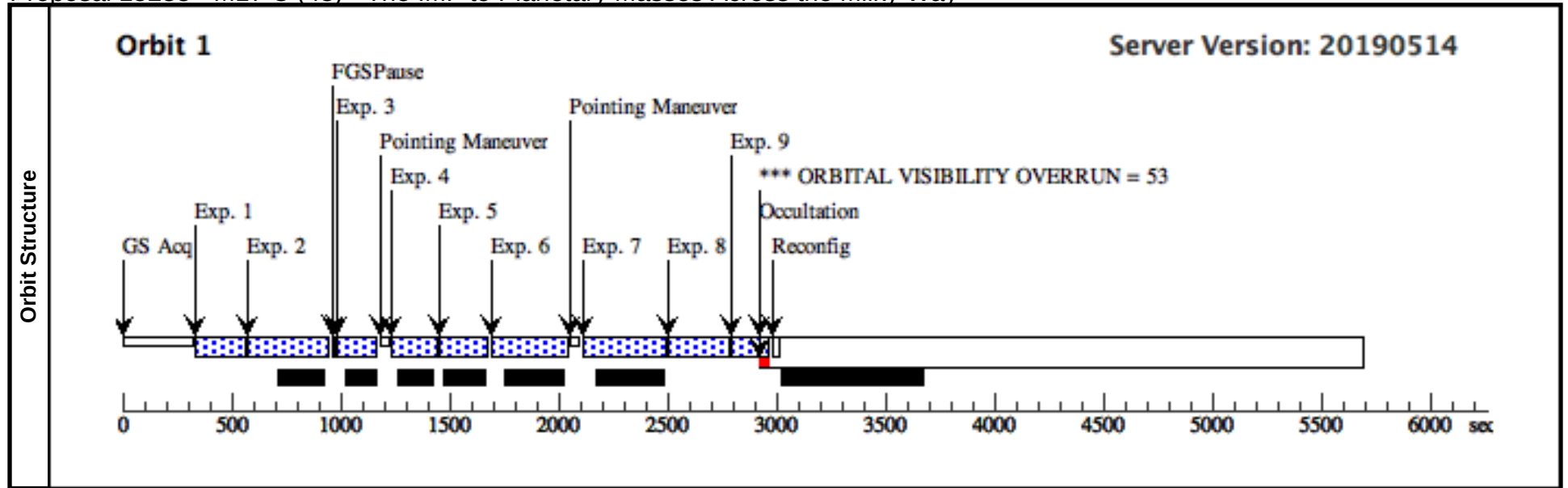
# Proposal 15238 - M17 B (47) - The IMF to Planetary Masses Across the Milky Way

|                                                                 |                                                                    |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|-----------------------------------------------------------------|--------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------------------|----------------------------------------|-----------------------------------------|--|------------------------------|--|--|--|
| Visit                                                           | Proposal 15238, M17 B (47), completed                              |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |  | Tue Sep 10 16:05:19 GMT 2019 |  |  |  |
|                                                                 | Diagnostic Status: Warning                                         |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|                                                                 | Scientific Instruments: WFC3/IR                                    |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D               |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
| Diagnostics                                                     | (M17 B (47)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|                                                                 | (M17 B (47)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|                                                                 | (M17 B (47)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|                                                                 | (M17 B (47)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|                                                                 | (M17 B (47)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|                                                                 | (M17 B (47)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|                                                                 | (M17 B (47)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
| Fixed Targets                                                   | #                                                                  | Name  | Target Coordinates                                                                  |                             |               | Targ. Coord. Corrections          |                                          |                                        | Fluxes                                  |  | Miscellaneous                |  |  |  |
|                                                                 | (51)                                                               | M17-B | RA: 18 20 6.5499 (275.0272912d)<br>Dec: -16 08 24.56 (-16.14016d)<br>Equinox: J2000 |                             |               |                                   |                                          |                                        | V=15+/-10                               |  | Reference Frame: ICRS        |  |  |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                    |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
| Exposures                                                       | #                                                                  | Label | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                 | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |  |  |
|                                                                 | 1                                                                  |       | (51) M17-B                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in M17 B (47) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |  |  |
|                                                                 | 2                                                                  |       | (51) M17-B                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in M17 B (47) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|                                                                 | 3                                                                  |       | (51) M17-B                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in M17 B (47) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|                                                                 | 4                                                                  |       | (51) M17-B                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 B (47) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|                                                                 | 5                                                                  |       | (51) M17-B                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 B (47) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|                                                                 | 6                                                                  |       | (51) M17-B                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 B (47) | 327.938986 Secs (327.939 Secs)<br>[==>] |  | [1]                          |  |  |  |
|                                                                 | 7                                                                  |       | (51) M17-B                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 B (47) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|                                                                 | 8                                                                  |       | (51) M17-B                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 B (47) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |  |  |
|                                                                 | 9                                                                  |       | (51) M17-B                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 B (47) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |



# Proposal 15238 - M17 C (48) - The IMF to Planetary Masses Across the Milky Way

|                                                                 |                                                                    |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       |                              |  |
|-----------------------------------------------------------------|--------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------------------|----------------------------------------|-----------------------------------------|-----------------------|------------------------------|--|
| Visit                                                           | Proposal 15238, M17 C (48), completed                              |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       | Tue Sep 10 16:05:19 GMT 2019 |  |
|                                                                 | Diagnostic Status: Warning                                         |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       |                              |  |
|                                                                 | Scientific Instruments: WFC3/IR                                    |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       |                              |  |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D               |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       |                              |  |
| Diagnostics                                                     | (M17 C (48)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       |                              |  |
|                                                                 | (M17 C (48)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       |                              |  |
|                                                                 | (M17 C (48)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       |                              |  |
|                                                                 | (M17 C (48)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       |                              |  |
|                                                                 | (M17 C (48)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       |                              |  |
|                                                                 | (M17 C (48)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       |                              |  |
|                                                                 | (M17 C (48)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       |                              |  |
| Fixed Targets                                                   | #                                                                  | Name  | Target Coordinates                                                                   |                             |               | Targ. Coord. Corrections          |                                          | Fluxes                                 |                                         | Miscellaneous         |                              |  |
|                                                                 | (52)                                                               | M17-C | RA: 18 20 13.3773 (275.0557387d)<br>Dec: -16 12 34.12 (-16.20948d)<br>Equinox: J2000 |                             |               |                                   |                                          | V=15+/-10                              |                                         | Reference Frame: ICRS |                              |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                    |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       |                              |  |
| Exposures                                                       | #                                                                  | Label | Target                                                                               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                 | Exp. Time (Total)/[Actual Dur.]         |                       | Orbit                        |  |
|                                                                 | 1                                                                  |       | (52) M17-C                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in M17 C (48) | 202.934095 Secs (202.934 Secs)<br>[==>] |                       | [1]                          |  |
|                                                                 | 2                                                                  |       | (52) M17-C                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in M17 C (48) | 352.935448 Secs (352.935 Secs)<br>[==>] |                       | [1]                          |  |
|                                                                 | 3                                                                  |       | (52) M17-C                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in M17 C (48) | 152.935381 Secs (152.935 Secs)<br>[==>] |                       | [1]                          |  |
|                                                                 | 4                                                                  |       | (52) M17-C                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 C (48) | 177.935896 Secs (177.936 Secs)<br>[==>] |                       | [1]                          |  |
|                                                                 | 5                                                                  |       | (52) M17-C                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 C (48) | 202.936411 Secs (202.936 Secs)<br>[==>] |                       | [1]                          |  |
|                                                                 | 6                                                                  |       | (52) M17-C                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 C (48) | 327.938986 Secs (327.939 Secs)<br>[==>] |                       | [1]                          |  |
|                                                                 | 7                                                                  |       | (52) M17-C                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 C (48) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                       | [1]                          |  |
|                                                                 | 8                                                                  |       | (52) M17-C                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 C (48) | 252.937441 Secs (252.937 Secs)<br>[==>] |                       | [1]                          |  |
|                                                                 | 9                                                                  |       | (52) M17-C                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 C (48) | 152.935381 Secs (152.935 Secs)<br>[==>] |                       | [1]                          |  |

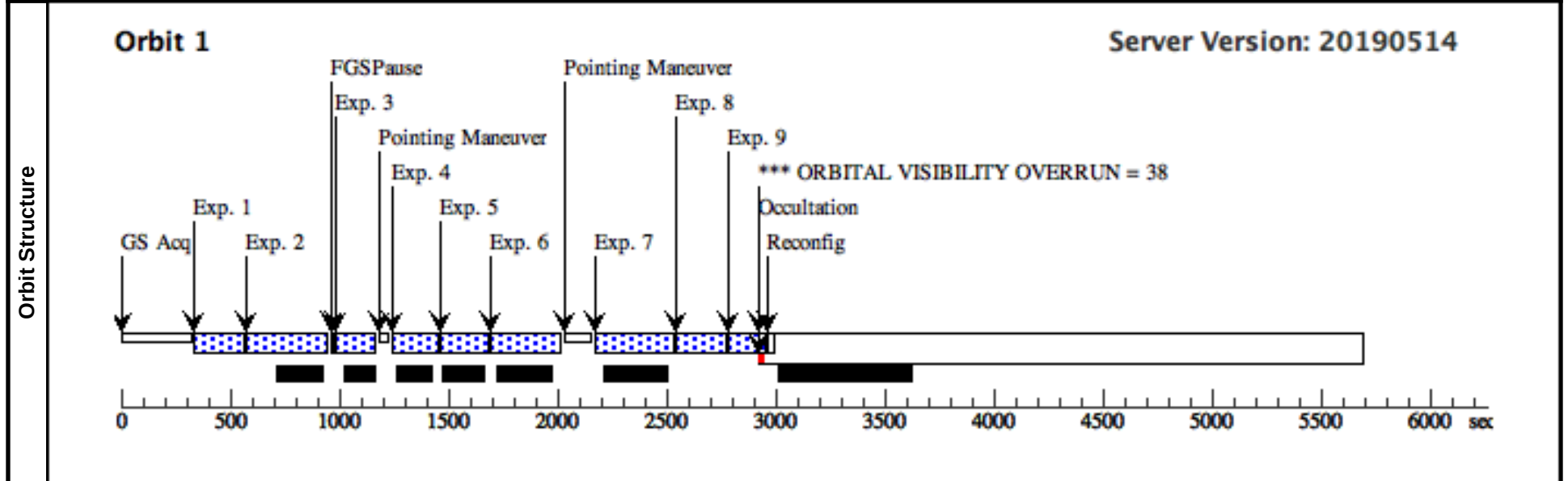


# Proposal 15238 - M17 X/V/C (1P) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                                                                                                                                                                                   |          |                                                                                      |                          |           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------|--------------------------|-----------|
| Visit         | <b>Proposal 15238, M17 X/V/C (1P)</b> <span style="float: right;">Tue Sep 10 16:05:19 GMT 2019</span>                                                                                                                             |          |                                                                                      |                          |           |
|               | <b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 100%; ORIENT 85D TO 85 D<br><i>Comments: New orbit to re-observe the third pointings from visits M17 X, M17 V, and M17 C.</i> |          |                                                                                      |                          |           |
| Diagnostics   | (M17 X/V/C (1P)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                              |          |                                                                                      |                          |           |
|               |                                                                                                                                                                                                                                   |          |                                                                                      |                          |           |
| Fixed Targets | #                                                                                                                                                                                                                                 | Name     | Target Coordinates                                                                   | Targ. Coord. Corrections | Fluxes    |
|               | (141)                                                                                                                                                                                                                             | M17-X-P3 | RA: 18 20 59.9295 (275.2497062d)<br>Dec: -16 02 12.10 (-16.03669d)<br>Equinox: J2000 |                          | V=15+/-10 |
|               | <i>Comments:</i><br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]                                                                                                                                                            |          |                                                                                      |                          |           |
|               | (142)                                                                                                                                                                                                                             | M17-V-P3 | RA: 18 20 54.2602 (275.2260842d)<br>Dec: -16 03 50.64 (-16.06407d)<br>Equinox: J2000 |                          | V=15+/-10 |
|               | <i>Comments:</i><br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]                                                                                                                                                            |          |                                                                                      |                          |           |
|               | (143)                                                                                                                                                                                                                             | M17-C-P3 | RA: 18 20 25.8853 (275.1078554d)<br>Dec: -16 15 3.48 (-16.25097d)<br>Equinox: J2000  |                          | V=15+/-10 |
|               | <i>Comments:</i><br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]                                                                                                                                                            |          |                                                                                      |                          |           |
|               |                                                                                                                                                                                                                                   |          |                                                                                      |                          |           |

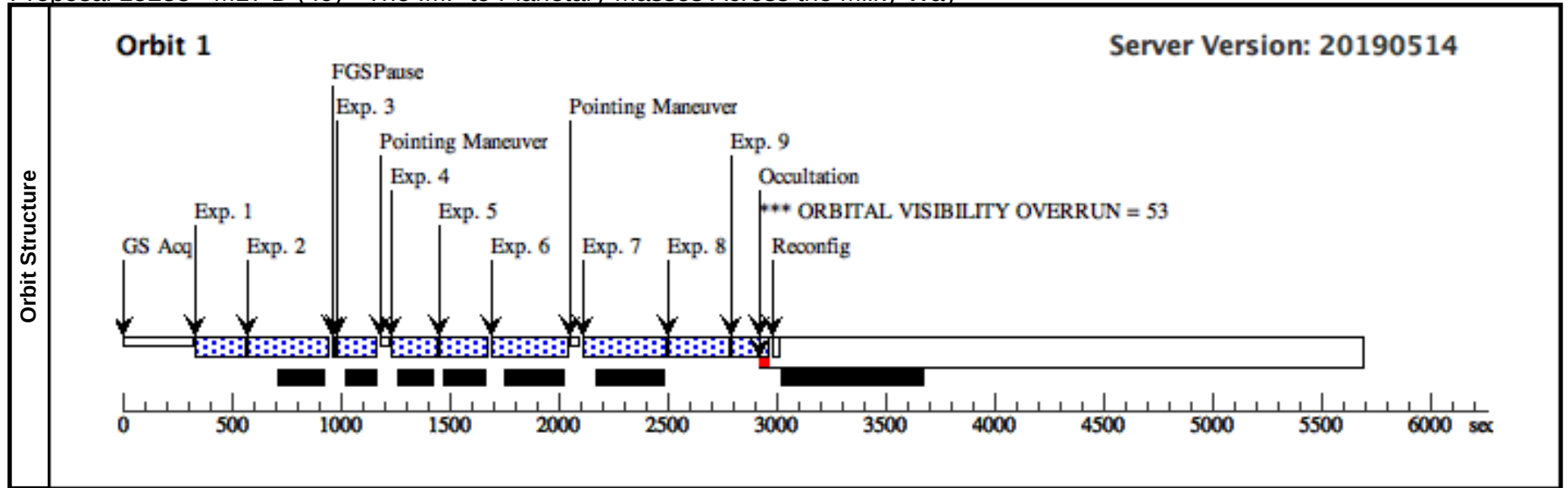
# Proposal 15238 - M17 X/V/C (1P) - The IMF to Planetary Masses Across the Milky Way

| Exposures | # | Label | Target         | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                          | Groups                                 | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|---|-------|----------------|-----------------------------|---------------|-----------------------------------|----------------------------------------|----------------------------------------|-----------------------------------------|-------|
|           | 1 |       | (141) M17-X-P3 | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE | Sequence 1-9 Non-Int in M17 X/V/C (1P) | 202.934095 Secs (202.934 Secs)<br>[==>] | [1]   |
|           | 2 |       | (141) M17-X-P3 | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE | Sequence 1-9 Non-Int in M17 X/V/C (1P) | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|           | 3 |       | (141) M17-X-P3 | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-Int in M17 X/V/C (1P) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |
|           | 4 |       | (142) M17-V-P3 | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-Int in M17 X/V/C (1P) | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|           | 5 |       | (142) M17-V-P3 | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-Int in M17 X/V/C (1P) | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|           | 6 |       | (142) M17-V-P3 | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=13;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-Int in M17 X/V/C (1P) | 302.938471 Secs (302.938 Secs)<br>[==>] | [1]   |
|           | 7 |       | (143) M17-C-P3 | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-Int in M17 X/V/C (1P) | 327.938986 Secs (327.939 Secs)<br>[==>] | [1]   |
|           | 8 |       | (143) M17-C-P3 | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-Int in M17 X/V/C (1P) | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|           | 9 |       | (143) M17-C-P3 | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-Int in M17 X/V/C (1P) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |



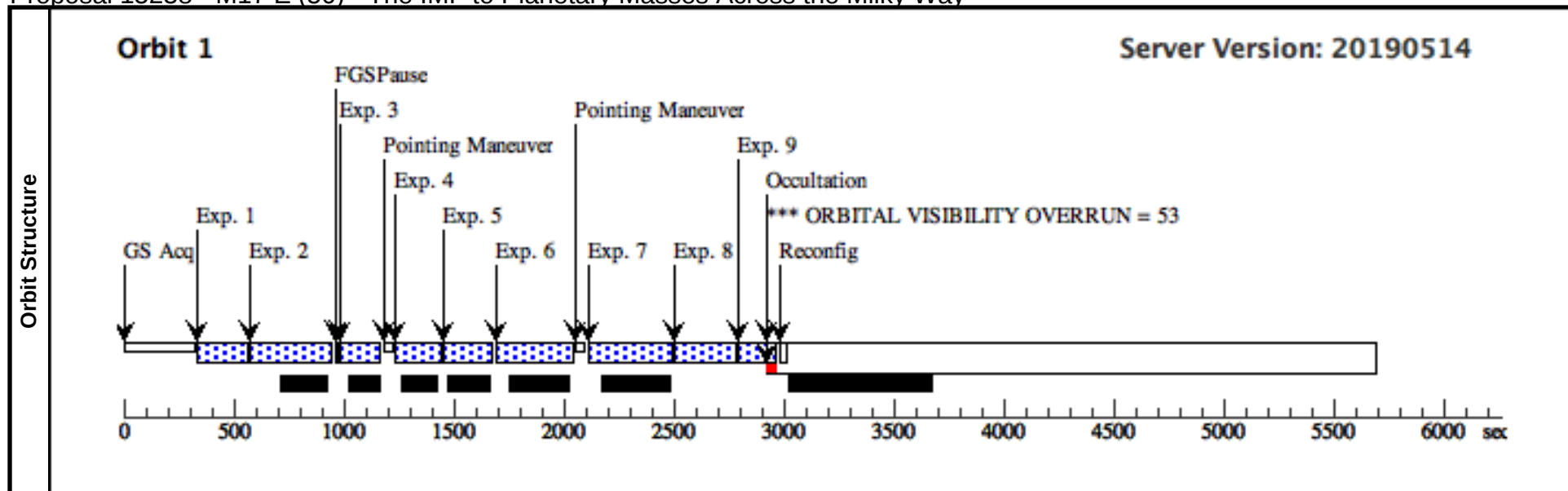
# Proposal 15238 - M17 D (49) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|---------------|--------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, M17 D (49), completed                              |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:19 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D               |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics   | (M17 D (49)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 D (49)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 D (49)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 D (49)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 D (49)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 D (49)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 D (49)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets | #            Name                                                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |



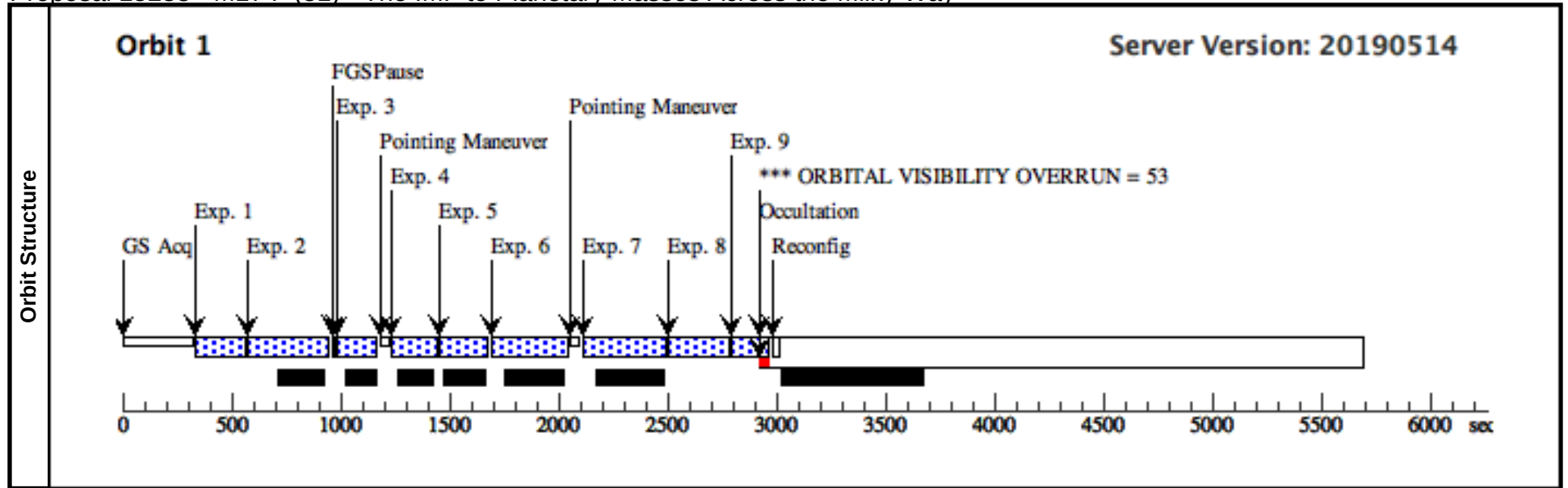
# Proposal 15238 - M17 E (50) - The IMF to Planetary Masses Across the Milky Way

|                                                                 |                                                                    |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |                       |                              |  |
|-----------------------------------------------------------------|--------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------------------|----------------------------------------|-----------------------------------------|-----------------------|------------------------------|--|
| Visit                                                           | Proposal 15238, M17 E (50), completed                              |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |                       | Tue Sep 10 16:05:19 GMT 2019 |  |
|                                                                 | Diagnostic Status: Warning                                         |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |                       |                              |  |
|                                                                 | Scientific Instruments: WFC3/IR                                    |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |                       |                              |  |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D               |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |                       |                              |  |
| Diagnostics                                                     | (M17 E (50)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |                       |                              |  |
|                                                                 | (M17 E (50)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |                       |                              |  |
|                                                                 | (M17 E (50)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |                       |                              |  |
|                                                                 | (M17 E (50)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |                       |                              |  |
|                                                                 | (M17 E (50)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |                       |                              |  |
|                                                                 | (M17 E (50)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |                       |                              |  |
|                                                                 | (M17 E (50)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |                       |                              |  |
| Fixed Targets                                                   | #                                                                  | Name  | Target Coordinates                                                                  |                             |               | Targ. Coord. Corrections          |                                          | Fluxes                                 |                                         | Miscellaneous         |                              |  |
|                                                                 | (54)                                                               | M17-E | RA: 18 20 17.7683 (275.0740346d)<br>Dec: -16 02 9.40 (-16.03594d)<br>Equinox: J2000 |                             |               |                                   |                                          | V=15+/-10                              |                                         | Reference Frame: ICRS |                              |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                    |       |                                                                                     |                             |               |                                   |                                          |                                        |                                         |                       |                              |  |
| Exposures                                                       | #                                                                  | Label | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                 | Exp. Time (Total)/[Actual Dur.]         |                       | Orbit                        |  |
|                                                                 | 1                                                                  |       | (54) M17-E                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in M17 E (50) | 202.934095 Secs (202.934 Secs)<br>[==>] |                       | [1]                          |  |
|                                                                 | 2                                                                  |       | (54) M17-E                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in M17 E (50) | 352.935448 Secs (352.935 Secs)<br>[==>] |                       | [1]                          |  |
|                                                                 | 3                                                                  |       | (54) M17-E                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in M17 E (50) | 152.935381 Secs (152.935 Secs)<br>[==>] |                       | [1]                          |  |
|                                                                 | 4                                                                  |       | (54) M17-E                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 E (50) | 177.935896 Secs (177.936 Secs)<br>[==>] |                       | [1]                          |  |
|                                                                 | 5                                                                  |       | (54) M17-E                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 E (50) | 202.936411 Secs (202.936 Secs)<br>[==>] |                       | [1]                          |  |
|                                                                 | 6                                                                  |       | (54) M17-E                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 E (50) | 327.938986 Secs (327.939 Secs)<br>[==>] |                       | [1]                          |  |
|                                                                 | 7                                                                  |       | (54) M17-E                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 E (50) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                       | [1]                          |  |
|                                                                 | 8                                                                  |       | (54) M17-E                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 E (50) | 252.937441 Secs (252.937 Secs)<br>[==>] |                       | [1]                          |  |
|                                                                 | 9                                                                  |       | (54) M17-E                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 E (50) | 152.935381 Secs (152.935 Secs)<br>[==>] |                       | [1]                          |  |



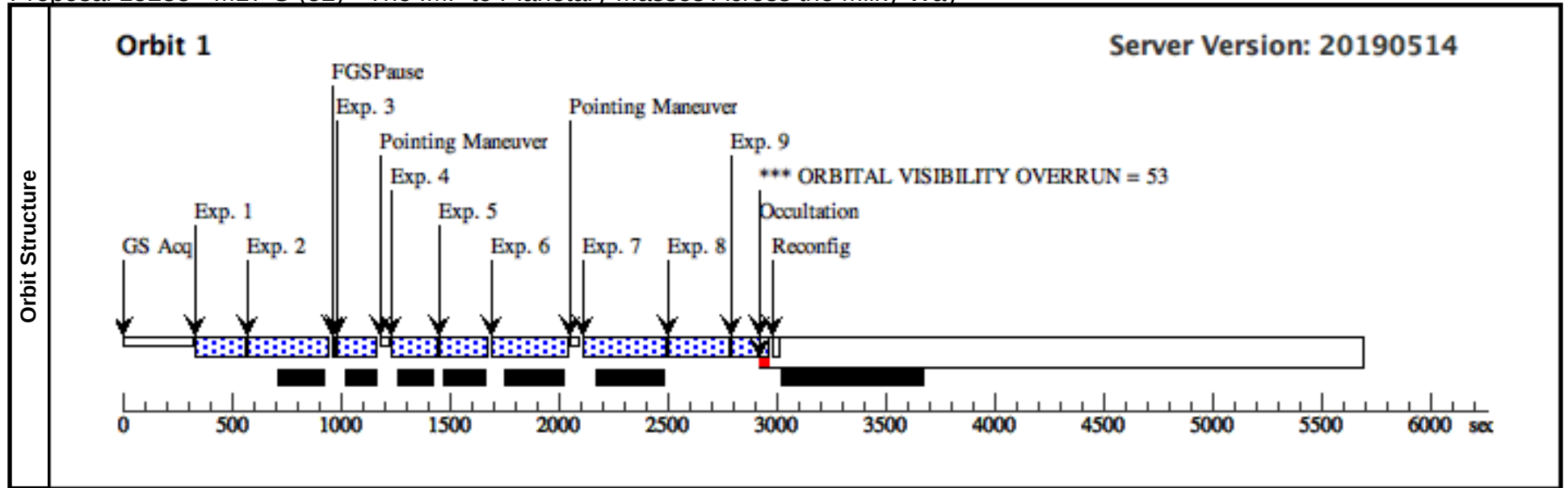
# Proposal 15238 - M17 F (51) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|---------------|--------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, M17 F (51), completed                              |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:19 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D               |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics   | (M17 F (51)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 F (51)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 F (51)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 F (51)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 F (51)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 F (51)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 F (51)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets | #            Name                                                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |



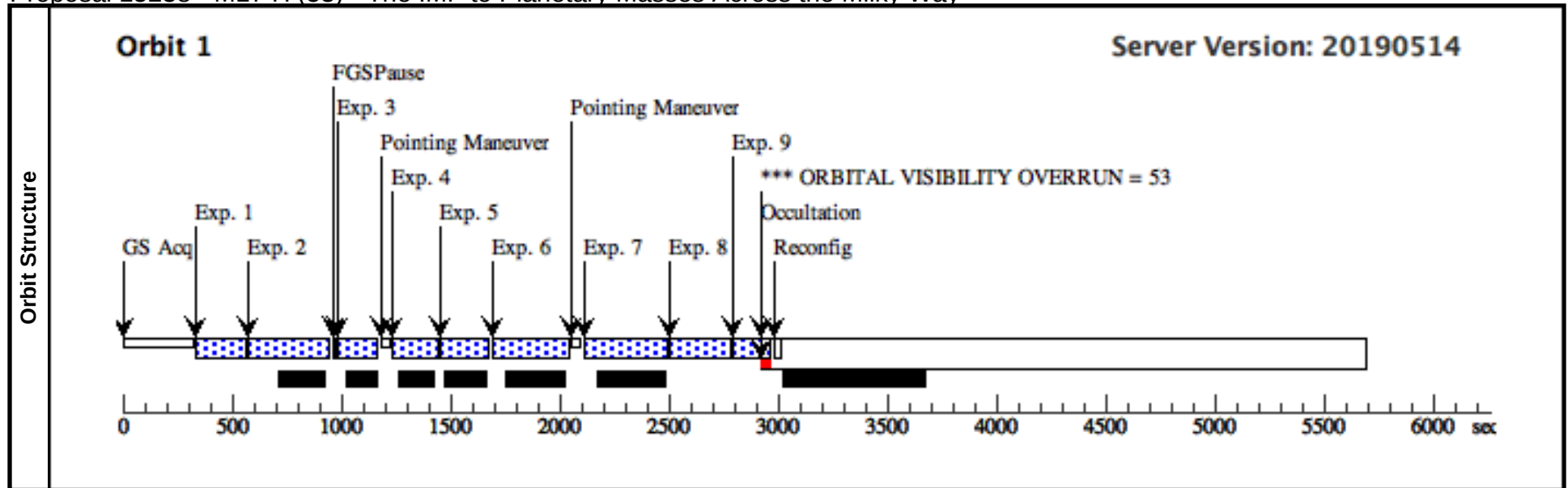
# Proposal 15238 - M17 G (52) - The IMF to Planetary Masses Across the Milky Way

|                                                                 |                                                                    |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       |                              |
|-----------------------------------------------------------------|--------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------------------|----------------------------------------|-----------------------------------------|-----------------------|------------------------------|
| Visit                                                           | Proposal 15238, M17 G (52), completed                              |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       | Tue Sep 10 16:05:19 GMT 2019 |
|                                                                 | Diagnostic Status: Warning                                         |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       |                              |
|                                                                 | Scientific Instruments: WFC3/IR                                    |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       |                              |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D               |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       |                              |
| Diagnostics                                                     | (M17 G (52)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       |                              |
|                                                                 | (M17 G (52)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       |                              |
|                                                                 | (M17 G (52)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       |                              |
|                                                                 | (M17 G (52)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       |                              |
|                                                                 | (M17 G (52)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       |                              |
|                                                                 | (M17 G (52)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       |                              |
|                                                                 | (M17 G (52)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       |                              |
| Fixed Targets                                                   | #                                                                  | Name  | Target Coordinates                                                                   |                             |               | Targ. Coord. Corrections          |                                          | Fluxes                                 |                                         | Miscellaneous         |                              |
|                                                                 | (56)                                                               | M17-G | RA: 18 19 55.1861 (274.9799421d)<br>Dec: -16 11 47.79 (-16.19661d)<br>Equinox: J2000 |                             |               |                                   |                                          | V=15+/-10                              |                                         | Reference Frame: ICRS |                              |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                    |       |                                                                                      |                             |               |                                   |                                          |                                        |                                         |                       |                              |
| Exposures                                                       | #                                                                  | Label | Target                                                                               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                 | Exp. Time (Total)/[Actual Dur.]         |                       | Orbit                        |
|                                                                 | 1                                                                  |       | (56) M17-G                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in M17 G (52) | 202.934095 Secs (202.934 Secs)<br>[==>] |                       | [1]                          |
|                                                                 | 2                                                                  |       | (56) M17-G                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in M17 G (52) | 352.935448 Secs (352.935 Secs)<br>[==>] |                       | [1]                          |
|                                                                 | 3                                                                  |       | (56) M17-G                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in M17 G (52) | 152.935381 Secs (152.935 Secs)<br>[==>] |                       | [1]                          |
|                                                                 | 4                                                                  |       | (56) M17-G                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 G (52) | 177.935896 Secs (177.936 Secs)<br>[==>] |                       | [1]                          |
|                                                                 | 5                                                                  |       | (56) M17-G                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 G (52) | 202.936411 Secs (202.936 Secs)<br>[==>] |                       | [1]                          |
|                                                                 | 6                                                                  |       | (56) M17-G                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 G (52) | 327.938986 Secs (327.939 Secs)<br>[==>] |                       | [1]                          |
|                                                                 | 7                                                                  |       | (56) M17-G                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 G (52) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                       | [1]                          |
|                                                                 | 8                                                                  |       | (56) M17-G                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 G (52) | 252.937441 Secs (252.937 Secs)<br>[==>] |                       | [1]                          |
|                                                                 | 9                                                                  |       | (56) M17-G                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 G (52) | 152.935381 Secs (152.935 Secs)<br>[==>] |                       | [1]                          |



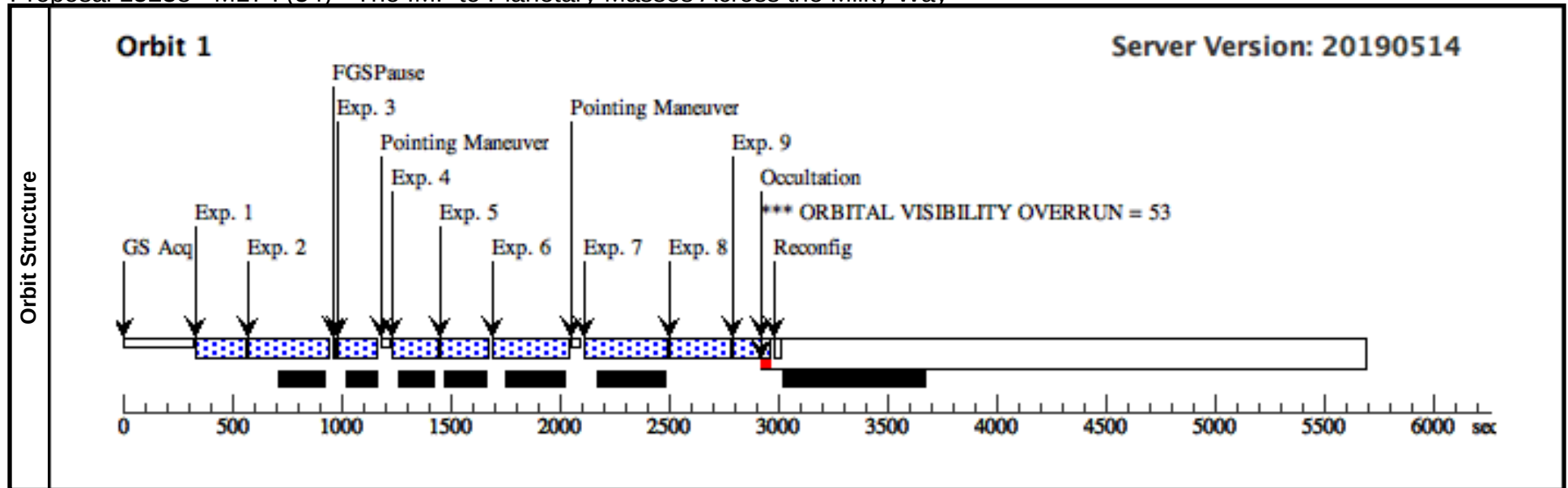
# Proposal 15238 - M17 H (53) - The IMF to Planetary Masses Across the Milky Way

|                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit                                                                                                                                                                                                                                                                                                                                           | Proposal 15238, M17 H (53), completed                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:19 GMT 2019 |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                 | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                 | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                 | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics                                                                                                                                                                                                                                                                                                                                     | (M17 H (53)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                               |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                 | (M17 H (53)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                 | (M17 H (53)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                 | (M17 H (53)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                 | (M17 H (53)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                 | (M17 H (53)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                 | (M17 H (53)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets                                                                                                                                                                                                                                                                                                                                   | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                                                                                                                                               |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                 | (57)                      M17-H                      RA: 18 20 2.0116 (275.0083817d)                      V=15+/-10                      Reference Frame: ICRS                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                 | Dec: -16 15 55.26 (-16.26535d)                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                 | Equinox: J2000                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Exposures                                                                                                                                                                                                                                                                                                                                       | #                      Label                      Target                      Config,Mode,Aperture                      Spectral Els.                      Opt. Params.                      Special Reqs.                      Groups                      Exp. Time (Total)/[Actual Dur.]                      Orbit                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                 | 1                                           (57) M17-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=5;                      POS TARG 0,0;                      Sequence 1-9 Non-In<br>t in M17 H (53)                      202.934095 Secs (202.934 Secs)                      [1]   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                 | SAMP-SEQ=SPAR<br>S50                      EXP PCS MODE FI<br>NE                      [==>]                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                 | 2                                           (57) M17-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=8;                      POS TARG 0,0;                      Sequence 1-9 Non-In<br>t in M17 H (53)                      352.935448 Secs (352.935 Secs)                      [1]   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                 | SAMP-SEQ=SPAR<br>S50                      EXP PCS MODE FI<br>NE                      [==>]                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                 | 3                                           (57) M17-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;                      POS TARG 0,0;                      Sequence 1-9 Non-In<br>t in M17 H (53)                      152.935381 Secs (152.935 Secs)                      [1]   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                 | SAMP-SEQ=SPAR<br>S25                      EXP PCS MODE G<br>YRO                      [==>]                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                 | 4                                           (57) M17-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=8;                      POS TARG 0,117;                      Sequence 1-9 Non-In<br>t in M17 H (53)                      177.935896 Secs (177.936 Secs)                      [1] |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                 | SAMP-SEQ=SPAR<br>S25                      EXP PCS MODE G<br>YRO                      [==>]                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                 | 5                                           (57) M17-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=9;                      POS TARG 0,117;                      Sequence 1-9 Non-In<br>t in M17 H (53)                      202.936411 Secs (202.936 Secs)                      [1] |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                 | SAMP-SEQ=SPAR<br>S25                      EXP PCS MODE G<br>YRO                      [==>]                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 6                                           (57) M17-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=14;                      POS TARG 0,117;                      Sequence 1-9 Non-In<br>t in M17 H (53)                      327.938986 Secs (327.939 Secs)                      [1] |                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR<br>S25                      EXP PCS MODE G<br>YRO                      [==>]                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 7                                           (57) M17-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=15;                      POS TARG 0,234;                      Sequence 1-9 Non-In<br>t in M17 H (53)                      352.939501 Secs (352.94 Secs)                      [1]  |                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR<br>S25                      EXP PCS MODE G<br>YRO                      [==>]                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 8                                           (57) M17-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=11;                      POS TARG 0,234;                      Sequence 1-9 Non-In<br>t in M17 H (53)                      252.937441 Secs (252.937 Secs)                      [1] |                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR<br>S25                      EXP PCS MODE G<br>YRO                      [==>]                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 9                                           (57) M17-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;                      POS TARG 0,234;                      Sequence 1-9 Non-In<br>t in M17 H (53)                      152.935381 Secs (152.935 Secs)                      [1]  |                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| SAMP-SEQ=SPAR<br>S25                      EXP PCS MODE G<br>YRO                      [==>]                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |                              |  |  |  |



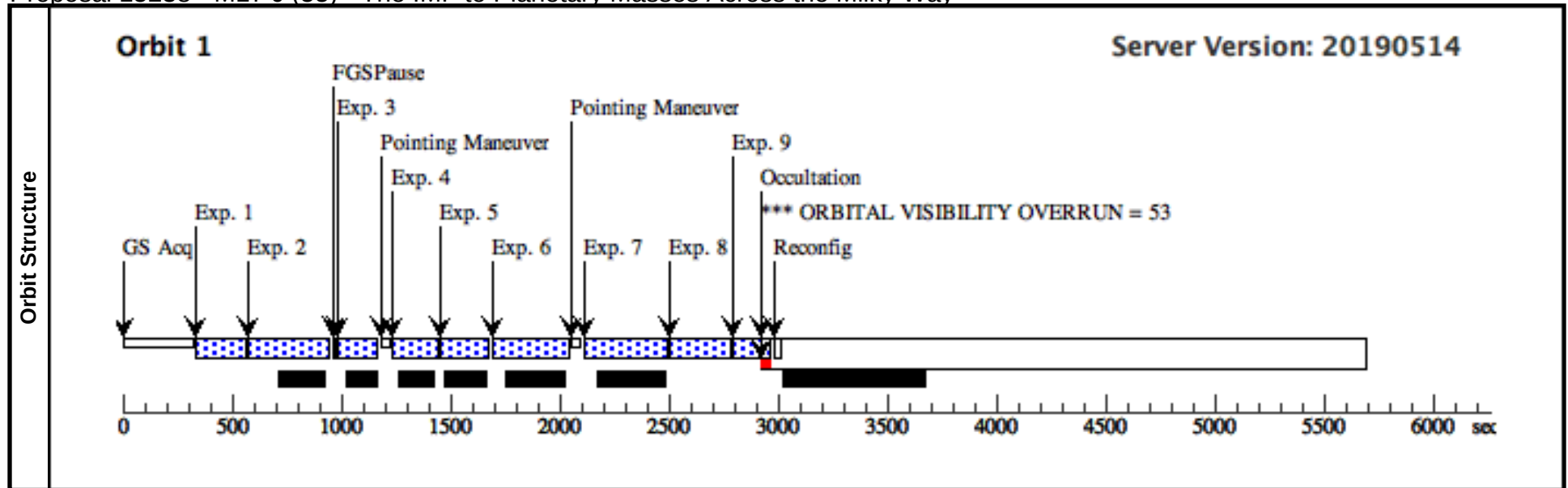
# Proposal 15238 - M17 I (54) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                    |  |  |  |  |  |  |  |  |                              |  |  |
|---------------|--------------------------------------------------------------------|--|--|--|--|--|--|--|--|------------------------------|--|--|
| Visit         | Proposal 15238, M17 I (54), completed                              |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:19 GMT 2019 |  |  |
|               | Diagnostic Status: Warning                                         |  |  |  |  |  |  |  |  |                              |  |  |
|               | Scientific Instruments: WFC3/IR                                    |  |  |  |  |  |  |  |  |                              |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D               |  |  |  |  |  |  |  |  |                              |  |  |
| Diagnostics   | (M17 I (54)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |                              |  |  |
|               | (M17 I (54)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (M17 I (54)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (M17 I (54)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (M17 I (54)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (M17 I (54)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (M17 I (54)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
| Fixed Targets | #            Name                                                  |  |  |  |  |  |  |  |  |                              |  |  |



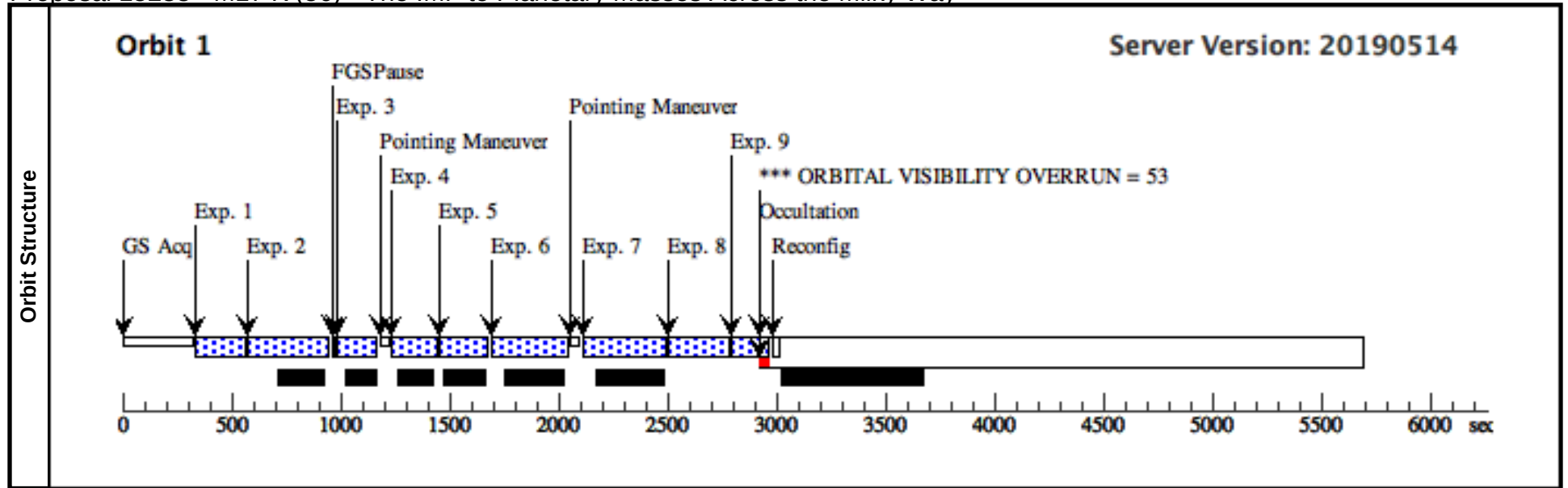
# Proposal 15238 - M17 J (55) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                    |       |                                  |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|---------------|--------------------------------------------------------------------|-------|----------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------------------|----------------------------------------|-----------------------------------------|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, M17 J (55), completed                              |       |                                  |                             |               |                                   |                                          |                                        |                                         |  | Tue Sep 10 16:05:19 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                         |       |                                  |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                    |       |                                  |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D               |       |                                  |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
| Diagnostics   | (M17 J (55)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                                  |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|               | (M17 J (55)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                  |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|               | (M17 J (55)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                  |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|               | (M17 J (55)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                  |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|               | (M17 J (55)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                  |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|               | (M17 J (55)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                  |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|               | (M17 J (55)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                  |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
| Fixed Targets | #                                                                  | Name  | Target Coordinates               |                             |               | Targ. Coord. Corrections          |                                          |                                        | Fluxes                                  |  | Miscellaneous                |  |  |  |
|               | (59)                                                               | M17-J | RA: 18 19 53.3456 (274.9722733d) |                             |               |                                   |                                          |                                        | V=15+/-10                               |  | Reference Frame: ICRS        |  |  |  |
|               |                                                                    |       | Dec: -16 00 5.42 (-16.00151d)    |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|               |                                                                    |       | Equinox: J2000                   |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]    |       |                                  |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
| Exposures     | #                                                                  | Label | Target                           | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                 | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |  |  |
|               | 1                                                                  |       | (59) M17-J                       | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in M17 J (55) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 2                                                                  |       | (59) M17-J                       | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in M17 J (55) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 3                                                                  |       | (59) M17-J                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in M17 J (55) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 4                                                                  |       | (59) M17-J                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 J (55) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 5                                                                  |       | (59) M17-J                       | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 J (55) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 6                                                                  |       | (59) M17-J                       | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 J (55) | 327.938986 Secs (327.939 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 7                                                                  |       | (59) M17-J                       | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 J (55) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 8                                                                  |       | (59) M17-J                       | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 J (55) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 9                                                                  |       | (59) M17-J                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 J (55) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |



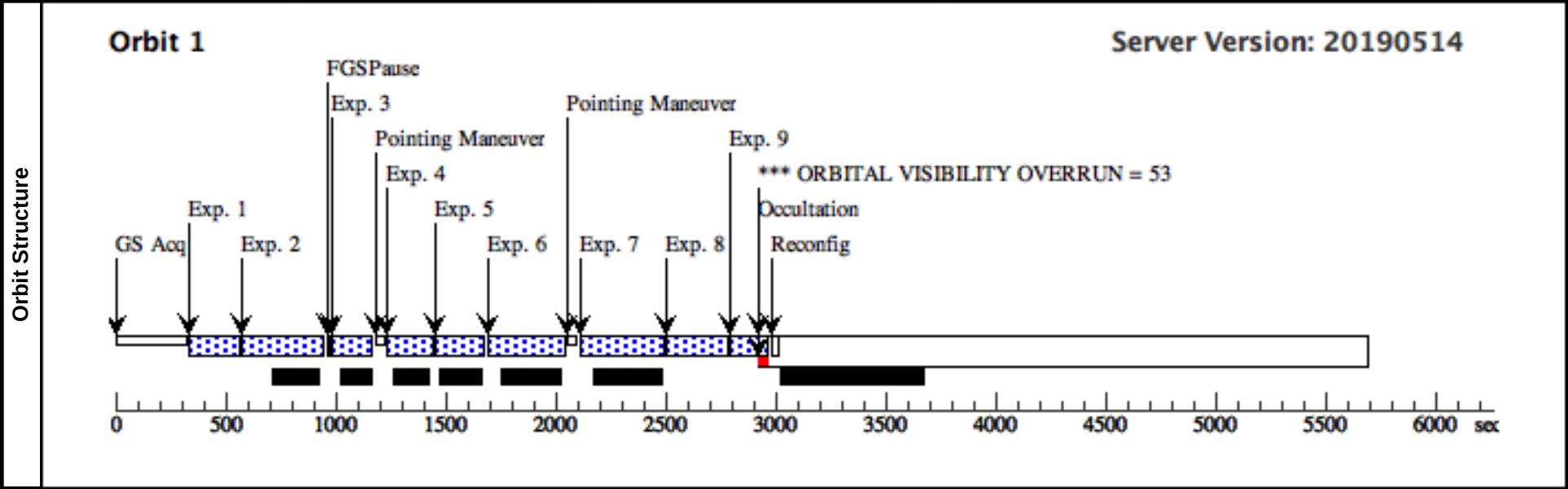
# Proposal 15238 - M17 K (56) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                    |       |                                                                                      |                             |  |                          |                                   |                                          |                                        |                                         |  |       |
|---------------|--------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------|-----------------------------|--|--------------------------|-----------------------------------|------------------------------------------|----------------------------------------|-----------------------------------------|--|-------|
| Visit         | Proposal 15238, M17 K (56), completed                              |       |                                                                                      |                             |  |                          |                                   |                                          |                                        | Tue Sep 10 16:05:19 GMT 2019            |  |       |
|               | Diagnostic Status: Warning                                         |       |                                                                                      |                             |  |                          |                                   |                                          |                                        |                                         |  |       |
|               | Scientific Instruments: WFC3/IR                                    |       |                                                                                      |                             |  |                          |                                   |                                          |                                        |                                         |  |       |
|               | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D               |       |                                                                                      |                             |  |                          |                                   |                                          |                                        |                                         |  |       |
| Diagnostics   | (M17 K (56)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                                                                                      |                             |  |                          |                                   |                                          |                                        |                                         |  |       |
|               | (M17 K (56)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |  |                          |                                   |                                          |                                        |                                         |  |       |
|               | (M17 K (56)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |  |                          |                                   |                                          |                                        |                                         |  |       |
|               | (M17 K (56)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |  |                          |                                   |                                          |                                        |                                         |  |       |
|               | (M17 K (56)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |  |                          |                                   |                                          |                                        |                                         |  |       |
|               | (M17 K (56)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |  |                          |                                   |                                          |                                        |                                         |  |       |
|               | (M17 K (56)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                      |                             |  |                          |                                   |                                          |                                        |                                         |  |       |
| Fixed Targets |                                                                    |       |                                                                                      |                             |  |                          |                                   |                                          |                                        |                                         |  |       |
|               | #                                                                  | Name  | Target Coordinates                                                                   |                             |  | Targ. Coord. Corrections |                                   | Fluxes                                   |                                        | Miscellaneous                           |  |       |
|               | (60)                                                               | M17-K | RA: 18 19 59.1682 (274.9965342d)<br>Dec: -15 58 24.87 (-15.97357d)<br>Equinox: J2000 |                             |  |                          |                                   | V=15+/-10                                |                                        | Reference Frame: ICRS                   |  |       |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]    |       |                                                                                      |                             |  |                          |                                   |                                          |                                        |                                         |  |       |
| Exposures     | #                                                                  | Label | Target                                                                               | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                      | Special Reqs.                            | Groups                                 | Exp. Time (Total)/[Actual Dur.]         |  | Orbit |
|               | 1                                                                  |       | (60) M17-K                                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F110W                    | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in M17 K (56) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]   |
|               | 2                                                                  |       | (60) M17-K                                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F139M                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in M17 K (56) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]   |
|               | 3                                                                  |       | (60) M17-K                                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in M17 K (56) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]   |
|               | 4                                                                  |       | (60) M17-K                                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 K (56) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]   |
|               | 5                                                                  |       | (60) M17-K                                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F110W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 K (56) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]   |
|               | 6                                                                  |       | (60) M17-K                                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F139M                    | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 K (56) | 327.938986 Secs (327.939 Secs)<br>[==>] |  | [1]   |
|               | 7                                                                  |       | (60) M17-K                                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F139M                    | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 K (56) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]   |
|               | 8                                                                  |       | (60) M17-K                                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F110W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 K (56) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]   |
|               | 9                                                                  |       | (60) M17-K                                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 K (56) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]   |



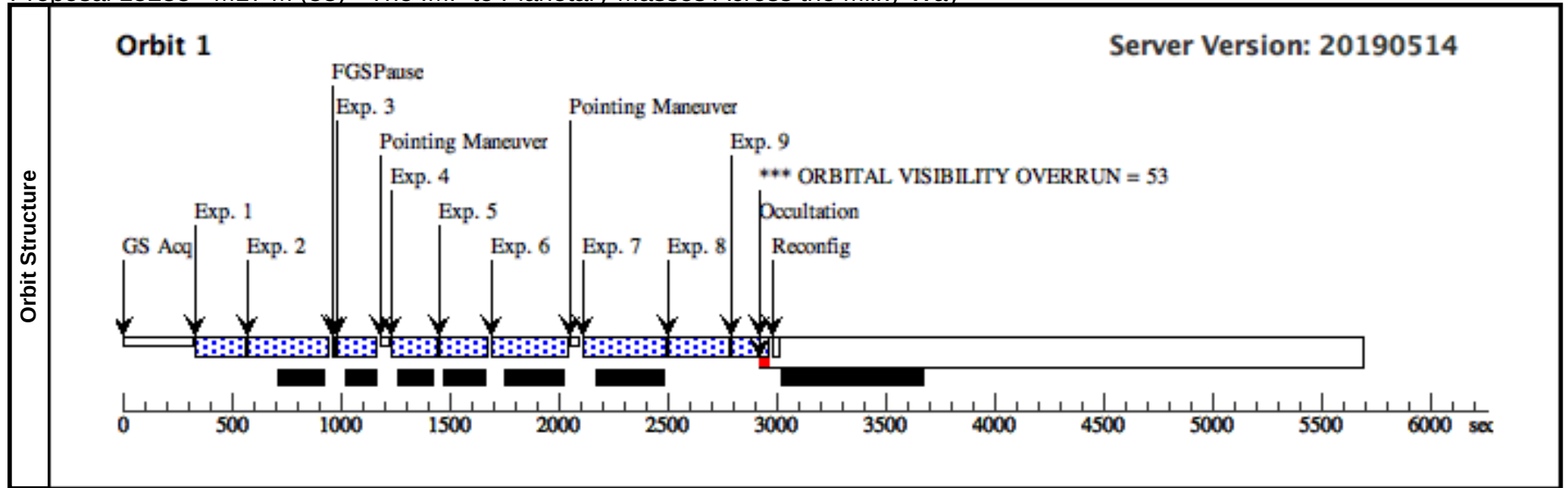
# Proposal 15238 - M17 L (57) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|---------------|--------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, M17 L (57), completed                              |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:19 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D               |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics   | (M17 L (57)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 L (57)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 L (57)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 L (57)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 L (57)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 L (57)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets | #            Name                                                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |



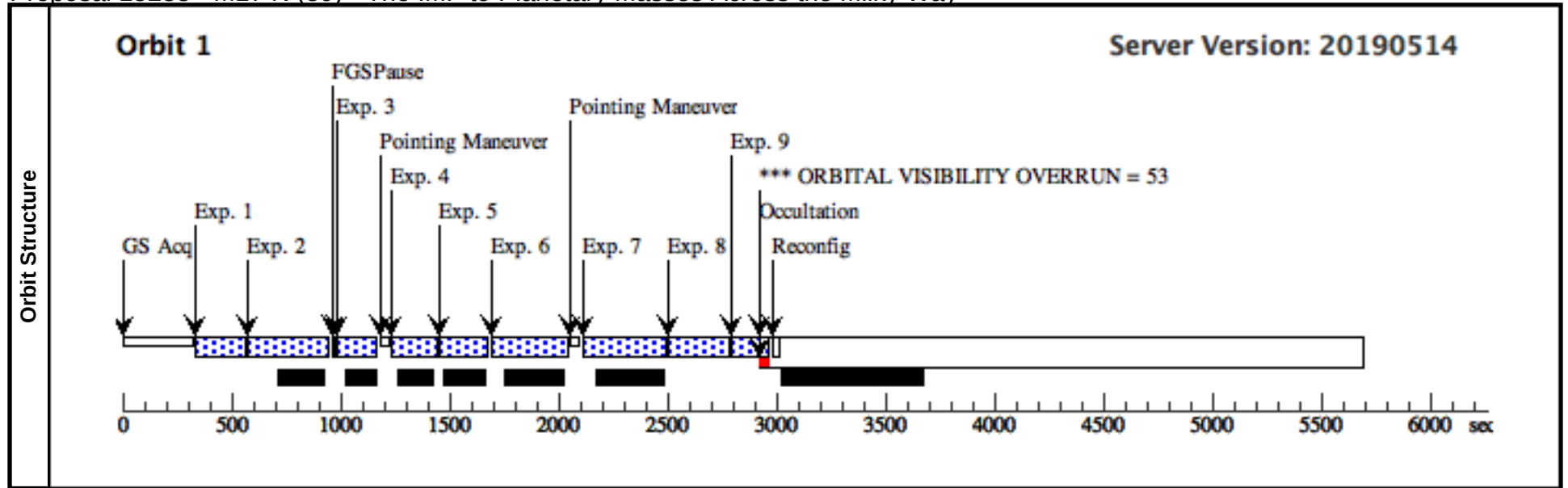
# Proposal 15238 - M17 M (58) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                    |  |  |  |  |  |  |  |  |                              |  |  |
|---------------|--------------------------------------------------------------------|--|--|--|--|--|--|--|--|------------------------------|--|--|
| Visit         | Proposal 15238, M17 M (58), completed                              |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:19 GMT 2019 |  |  |
|               | Diagnostic Status: Warning                                         |  |  |  |  |  |  |  |  |                              |  |  |
|               | Scientific Instruments: WFC3/IR                                    |  |  |  |  |  |  |  |  |                              |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D               |  |  |  |  |  |  |  |  |                              |  |  |
| Diagnostics   | (M17 M (58)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |                              |  |  |
|               | (M17 M (58)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (M17 M (58)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (M17 M (58)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (M17 M (58)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (M17 M (58)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (M17 M (58)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
| Fixed Targets | #            Name                                                  |  |  |  |  |  |  |  |  |                              |  |  |



# Proposal 15238 - M17 N (59) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|---------------|--------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, M17 N (59), completed                              |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:19 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D               |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics   | (M17 N (59)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 N (59)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 N (59)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 N (59)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 N (59)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 N (59)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 N (59)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets | #            Name                                                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |

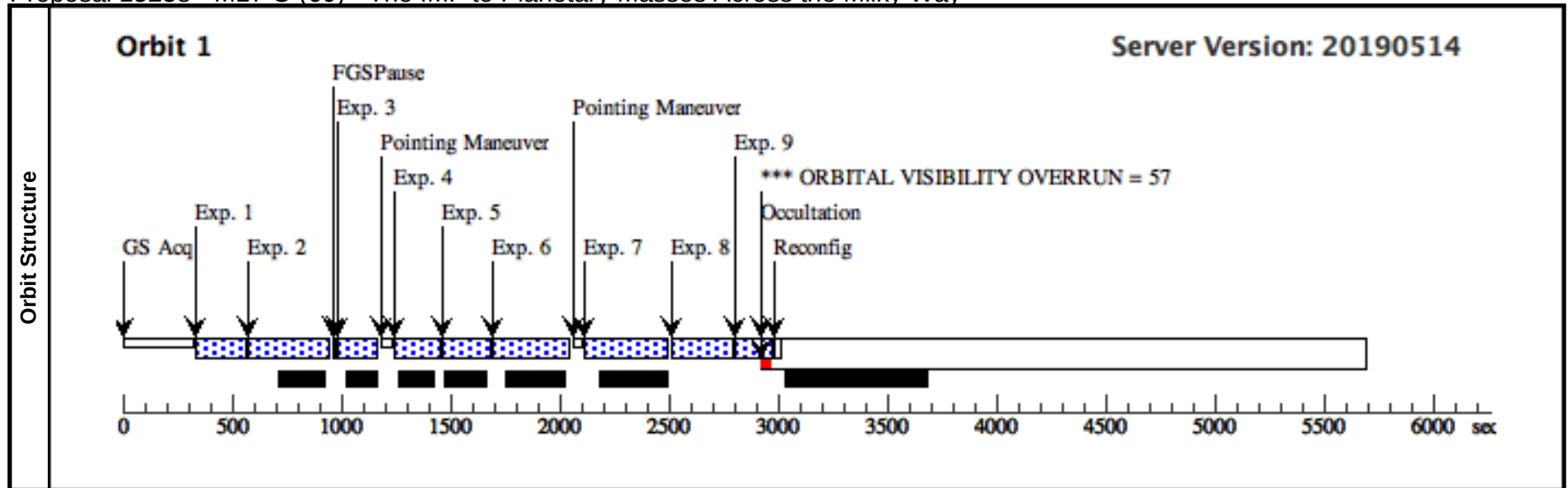


# Proposal 15238 - M17 O (60) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                     |                          |           |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|--------------------------|-----------|
| Visit         | <b>Proposal 15238, M17 O (60), completed</b> <span style="float: right;">Tue Sep 10 16:05:19 GMT 2019</span>                                                                                                                                                                                                                                                                                                                                                                                         |       |                                                                                     |                          |           |
|               | <b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 100%; ORIENT 85D TO 85 D                                                                                                                                                                                                                                                                                                                                                                         |       |                                                                                     |                          |           |
| Diagnostics   | (M17 O (60)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(M17 O (60)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE<br>(M17 O (60)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE<br>(M17 O (60)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE<br>(M17 O (60)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE<br>(M17 O (60)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE<br>(M17 O (60)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                     |                          |           |
|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                     |                          |           |
| Fixed Targets | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Name  | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes    |
|               | (64)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | M17-O | RA: 18 20 0.7344 (275.0030600d)<br>Dec: -16 07 11.11 (-16.11975d)<br>Equinox: J2000 |                          | V=15+/-10 |
| Fixed Targets | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                     |                          |           |
|               | Reference Frame: ICRS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                                                                                     |                          |           |

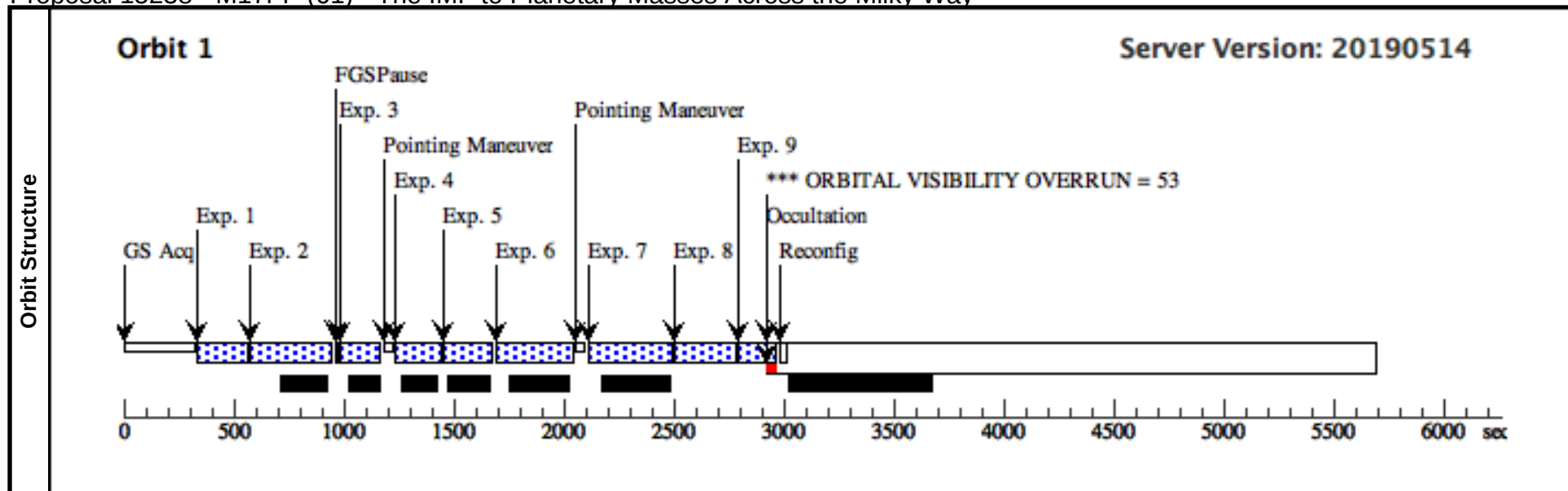
# Proposal 15238 - M17 O (60) - The IMF to Planetary Masses Across the Milky Way

| Exposures | # | Label | Target     | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                                   | Groups                                 | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|---|-------|------------|-----------------------------|---------------|-----------------------------------|-------------------------------------------------|----------------------------------------|-----------------------------------------|-------|
|           | 1 |       | (64) M17-O | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE          | Sequence 1-9 Non-In<br>t in M17 O (60) | 202.934095 Secs (202.934 Secs)<br>[==>] | [1]   |
|           | 2 |       | (64) M17-O | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE          | Sequence 1-9 Non-In<br>t in M17 O (60) | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|           | 3 |       | (64) M17-O | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO          | Sequence 1-9 Non-In<br>t in M17 O (60) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |
|           | 4 |       | (64) M17-O | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -130,11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 O (60) | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|           | 5 |       | (64) M17-O | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -130,11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 O (60) | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|           | 6 |       | (64) M17-O | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -130,11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 O (60) | 327.938986 Secs (327.939 Secs)<br>[==>] | [1]   |
|           | 7 |       | (64) M17-O | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -130,23<br>4;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 O (60) | 352.939501 Secs (352.94 Secs)<br>[==>]  | [1]   |
|           | 8 |       | (64) M17-O | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -130,23<br>4;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 O (60) | 252.937441 Secs (252.937 Secs)<br>[==>] | [1]   |
|           | 9 |       | (64) M17-O | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -130,23<br>4;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 O (60) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |



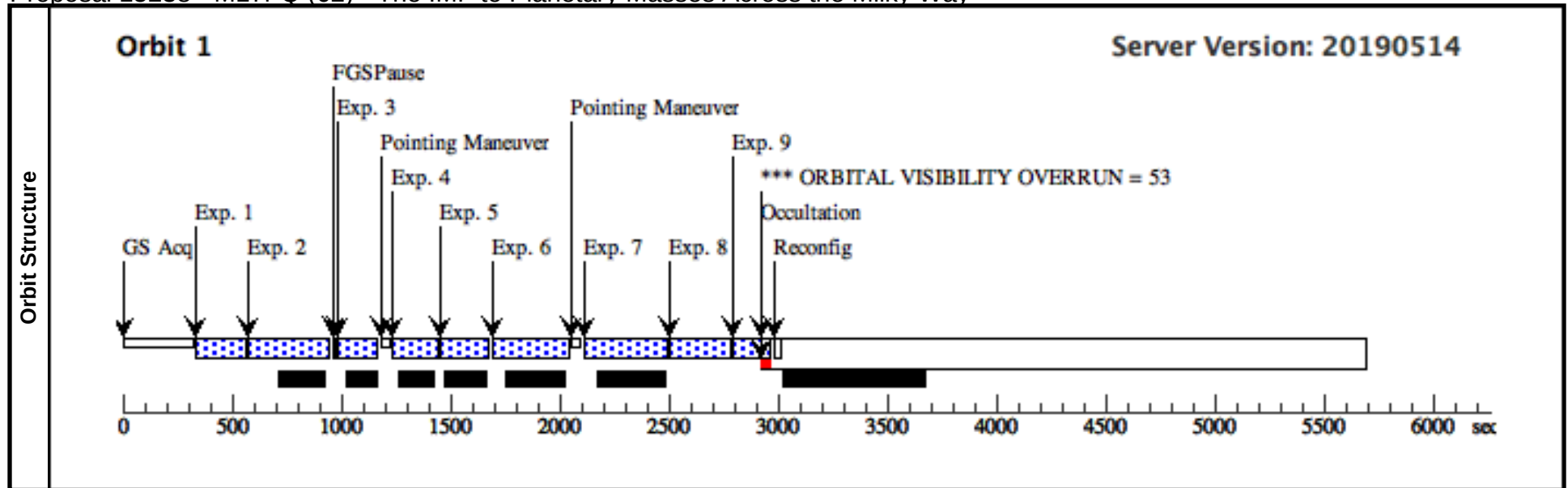
# Proposal 15238 - M17r P (61) - The IMF to Planetary Masses Across the Milky Way

|                                                                                                                                                                                                                   |                                                                     |       |                    |                             |                          |                                   |                                           |                                         |                                         |  |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------|--------------------|-----------------------------|--------------------------|-----------------------------------|-------------------------------------------|-----------------------------------------|-----------------------------------------|--|-------|
| Visit                                                                                                                                                                                                             | Proposal 15238, M17r P (61), completed                              |       |                    |                             |                          |                                   |                                           |                                         | Tue Sep 10 16:05:19 GMT 2019            |  |       |
|                                                                                                                                                                                                                   | Diagnostic Status: Warning                                          |       |                    |                             |                          |                                   |                                           |                                         |                                         |  |       |
|                                                                                                                                                                                                                   | Scientific Instruments: WFC3/IR                                     |       |                    |                             |                          |                                   |                                           |                                         |                                         |  |       |
|                                                                                                                                                                                                                   | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D                |       |                    |                             |                          |                                   |                                           |                                         |                                         |  |       |
| Diagnostics                                                                                                                                                                                                       | (M17r P (61)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                    |                             |                          |                                   |                                           |                                         |                                         |  |       |
|                                                                                                                                                                                                                   | (M17r P (61)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |                          |                                   |                                           |                                         |                                         |  |       |
|                                                                                                                                                                                                                   | (M17r P (61)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |                          |                                   |                                           |                                         |                                         |  |       |
|                                                                                                                                                                                                                   | (M17r P (61)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |                          |                                   |                                           |                                         |                                         |  |       |
|                                                                                                                                                                                                                   | (M17r P (61)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |                          |                                   |                                           |                                         |                                         |  |       |
|                                                                                                                                                                                                                   | (M17r P (61)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |                          |                                   |                                           |                                         |                                         |  |       |
|                                                                                                                                                                                                                   | (M17r P (61)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |                          |                                   |                                           |                                         |                                         |  |       |
| Fixed Targets                                                                                                                                                                                                     |                                                                     |       |                    |                             |                          |                                   |                                           |                                         |                                         |  |       |
|                                                                                                                                                                                                                   | #                                                                   | Name  | Target Coordinates |                             | Targ. Coord. Corrections |                                   | Fluxes                                    |                                         | Miscellaneous                           |  |       |
| <div>(65)M17-P</div> <div>RA: 18 20 43.7975 (275.1824896d)</div> <div>Dec: -16 15 51.35 (-16.26426d)</div> <div>Equinox: J2000</div> <div>Comments:<br/>Category=EXT-CLUSTER<br/>Description=[OPEN CLUSTER]</div> |                                                                     |       |                    |                             |                          |                                   |                                           |                                         |                                         |  |       |
| Exposures                                                                                                                                                                                                         | #                                                                   | Label | Target             | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.                      | Special Reqs.                             | Groups                                  | Exp. Time (Total)/[Actual Dur.]         |  | Orbit |
|                                                                                                                                                                                                                   | 1                                                                   |       | (65) M17-P         | WFC3/IR, MULTIACCUM, IR-FIX | F110W                    | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE    | Sequence 1-9 Non-In<br>t in M17r P (61) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]   |
|                                                                                                                                                                                                                   | 2                                                                   |       | (65) M17-P         | WFC3/IR, MULTIACCUM, IR-FIX | F139M                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE    | Sequence 1-9 Non-In<br>t in M17r P (61) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]   |
|                                                                                                                                                                                                                   | 3                                                                   |       | (65) M17-P         | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO    | Sequence 1-9 Non-In<br>t in M17r P (61) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]   |
|                                                                                                                                                                                                                   | 4                                                                   |       | (65) M17-P         | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,-117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17r P (61) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]   |
|                                                                                                                                                                                                                   | 5                                                                   |       | (65) M17-P         | WFC3/IR, MULTIACCUM, IR-FIX | F110W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,-117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17r P (61) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]   |
|                                                                                                                                                                                                                   | 6                                                                   |       | (65) M17-P         | WFC3/IR, MULTIACCUM, IR-FIX | F139M                    | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,-117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17r P (61) | 327.938986 Secs (327.939 Secs)<br>[==>] |  | [1]   |
|                                                                                                                                                                                                                   | 7                                                                   |       | (65) M17-P         | WFC3/IR, MULTIACCUM, IR-FIX | F139M                    | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,-234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17r P (61) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]   |
|                                                                                                                                                                                                                   | 8                                                                   |       | (65) M17-P         | WFC3/IR, MULTIACCUM, IR-FIX | F110W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,-234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17r P (61) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]   |
|                                                                                                                                                                                                                   | 9                                                                   |       | (65) M17-P         | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,-234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17r P (61) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]   |



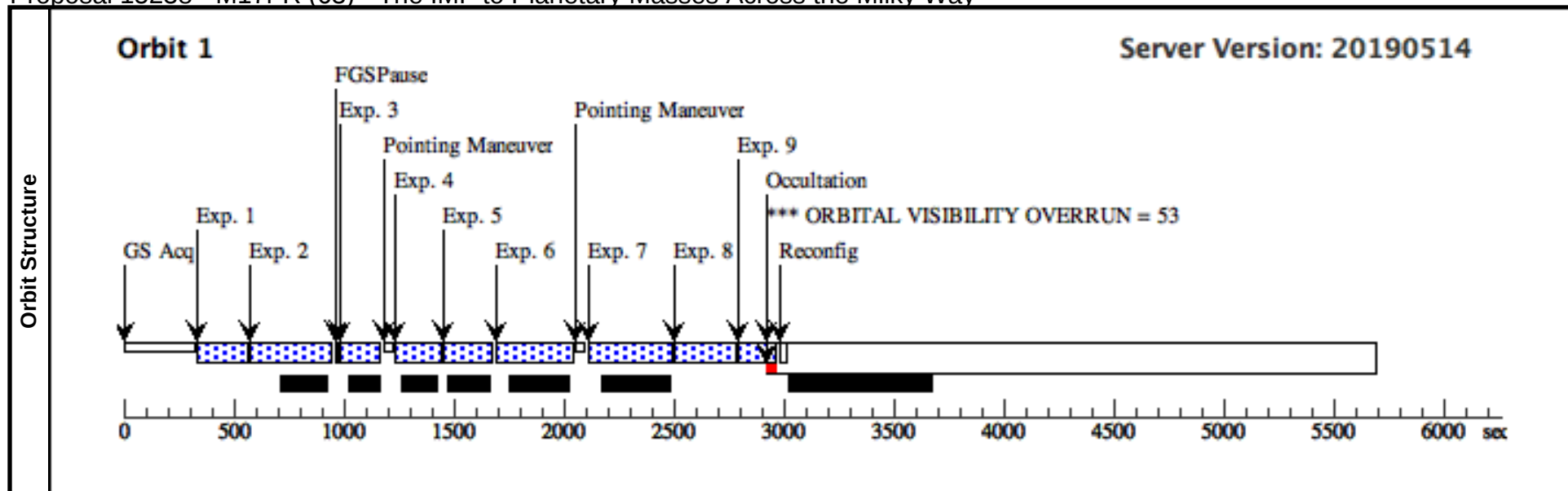
# Proposal 15238 - M17r Q (62) - The IMF to Planetary Masses Across the Milky Way

|                                                                 |                                                                     |       |            |                             |               |                                   |                                           |                                         |                                         |               |                              |  |  |  |
|-----------------------------------------------------------------|---------------------------------------------------------------------|-------|------------|-----------------------------|---------------|-----------------------------------|-------------------------------------------|-----------------------------------------|-----------------------------------------|---------------|------------------------------|--|--|--|
| Visit                                                           | Proposal 15238, M17r Q (62), completed                              |       |            |                             |               |                                   |                                           |                                         |                                         |               | Tue Sep 10 16:05:19 GMT 2019 |  |  |  |
|                                                                 | Diagnostic Status: Warning                                          |       |            |                             |               |                                   |                                           |                                         |                                         |               |                              |  |  |  |
|                                                                 | Scientific Instruments: WFC3/IR                                     |       |            |                             |               |                                   |                                           |                                         |                                         |               |                              |  |  |  |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D                |       |            |                             |               |                                   |                                           |                                         |                                         |               |                              |  |  |  |
| Diagnostics                                                     | (M17r Q (62)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |            |                             |               |                                   |                                           |                                         |                                         |               |                              |  |  |  |
|                                                                 | (M17r Q (62)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |            |                             |               |                                   |                                           |                                         |                                         |               |                              |  |  |  |
|                                                                 | (M17r Q (62)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |            |                             |               |                                   |                                           |                                         |                                         |               |                              |  |  |  |
|                                                                 | (M17r Q (62)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |            |                             |               |                                   |                                           |                                         |                                         |               |                              |  |  |  |
|                                                                 | (M17r Q (62)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |            |                             |               |                                   |                                           |                                         |                                         |               |                              |  |  |  |
|                                                                 | (M17r Q (62)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |            |                             |               |                                   |                                           |                                         |                                         |               |                              |  |  |  |
|                                                                 | (M17r Q (62)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |            |                             |               |                                   |                                           |                                         |                                         |               |                              |  |  |  |
| Fixed Targets                                                   |                                                                     |       |            |                             |               |                                   |                                           |                                         |                                         |               |                              |  |  |  |
|                                                                 | #                                                                   | Name  |            | Target Coordinates          |               | Targ. Coord. Corrections          |                                           | Fluxes                                  |                                         | Miscellaneous |                              |  |  |  |
| (66) M17-Q                                                      |                                                                     |       |            |                             |               |                                   |                                           |                                         |                                         |               |                              |  |  |  |
| RA: 18 20 55.9594 (275.2331642d)                                |                                                                     |       |            |                             |               |                                   |                                           |                                         |                                         |               |                              |  |  |  |
| Dec: -16 15 28.76 (-16.25799d)                                  |                                                                     |       |            |                             |               |                                   |                                           |                                         |                                         |               |                              |  |  |  |
| Equinox: J2000                                                  |                                                                     |       |            |                             |               |                                   |                                           |                                         |                                         |               |                              |  |  |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                     |       |            |                             |               |                                   |                                           |                                         |                                         |               |                              |  |  |  |
| Exposures                                                       | #                                                                   | Label | Target     | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                             | Groups                                  | Exp. Time (Total)/[Actual Dur.]         |               | Orbit                        |  |  |  |
|                                                                 | 1                                                                   |       | (66) M17-Q | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE    | Sequence 1-9 Non-In<br>t in M17r Q (62) | 202.934095 Secs (202.934 Secs)<br>[==>] |               | [1]                          |  |  |  |
|                                                                 | 2                                                                   |       | (66) M17-Q | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE    | Sequence 1-9 Non-In<br>t in M17r Q (62) | 352.935448 Secs (352.935 Secs)<br>[==>] |               | [1]                          |  |  |  |
|                                                                 | 3                                                                   |       | (66) M17-Q | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO    | Sequence 1-9 Non-In<br>t in M17r Q (62) | 152.935381 Secs (152.935 Secs)<br>[==>] |               | [1]                          |  |  |  |
|                                                                 | 4                                                                   |       | (66) M17-Q | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,-117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17r Q (62) | 177.935896 Secs (177.936 Secs)<br>[==>] |               | [1]                          |  |  |  |
|                                                                 | 5                                                                   |       | (66) M17-Q | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,-117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17r Q (62) | 202.936411 Secs (202.936 Secs)<br>[==>] |               | [1]                          |  |  |  |
|                                                                 | 6                                                                   |       | (66) M17-Q | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,-117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17r Q (62) | 327.938986 Secs (327.939 Secs)<br>[==>] |               | [1]                          |  |  |  |
|                                                                 | 7                                                                   |       | (66) M17-Q | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,-234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17r Q (62) | 352.939501 Secs (352.94 Secs)<br>[==>]  |               | [1]                          |  |  |  |
|                                                                 | 8                                                                   |       | (66) M17-Q | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,-234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17r Q (62) | 252.937441 Secs (252.937 Secs)<br>[==>] |               | [1]                          |  |  |  |
|                                                                 | 9                                                                   |       | (66) M17-Q | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,-234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17r Q (62) | 152.935381 Secs (152.935 Secs)<br>[==>] |               | [1]                          |  |  |  |



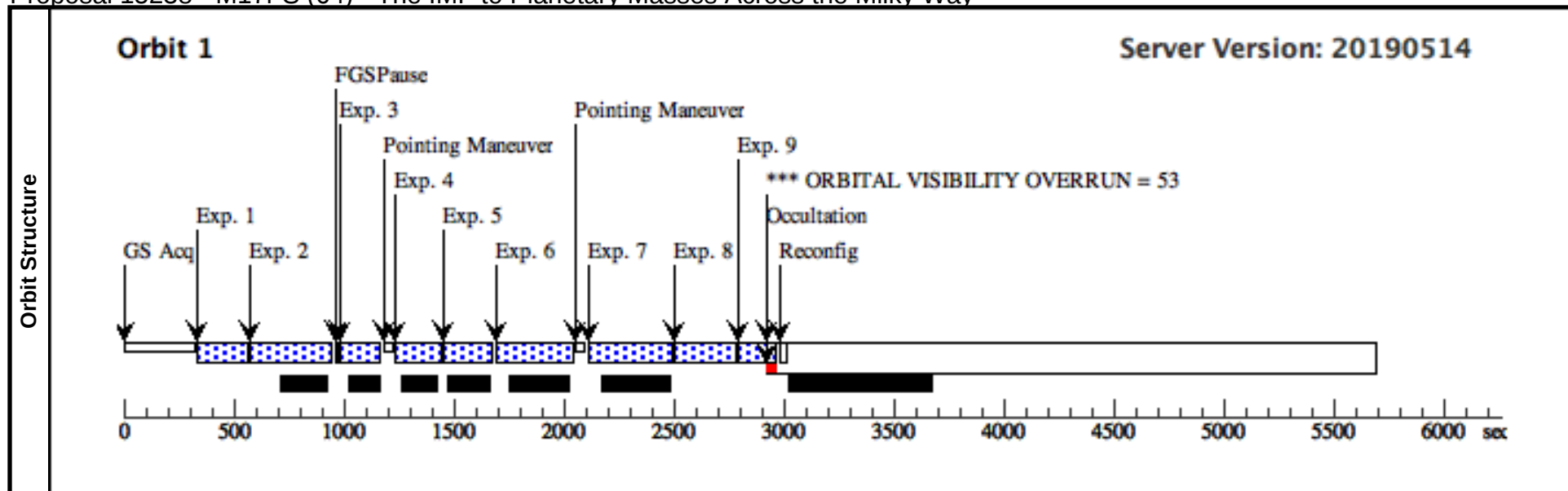
# Proposal 15238 - M17r R (63) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|---------------|---------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, M17r R (63), completed                              |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:19 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                          |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D                |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics   | (M17r R (63)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17r R (63)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17r R (63)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17r R (63)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17r R (63)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17r R (63)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17r R (63)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets | #            Name                                                   |  |  |  |  |  |  |  |  |  |                              |  |  |  |



# Proposal 15238 - M17r S (64) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|---------------|---------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, M17r S (64), completed                              |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:19 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                          |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D                |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics   | (M17r S (64)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17r S (64)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17r S (64)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17r S (64)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17r S (64)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17r S (64)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17r S (64)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets | #            Name                                                   |  |  |  |  |  |  |  |  |  |                              |  |  |  |

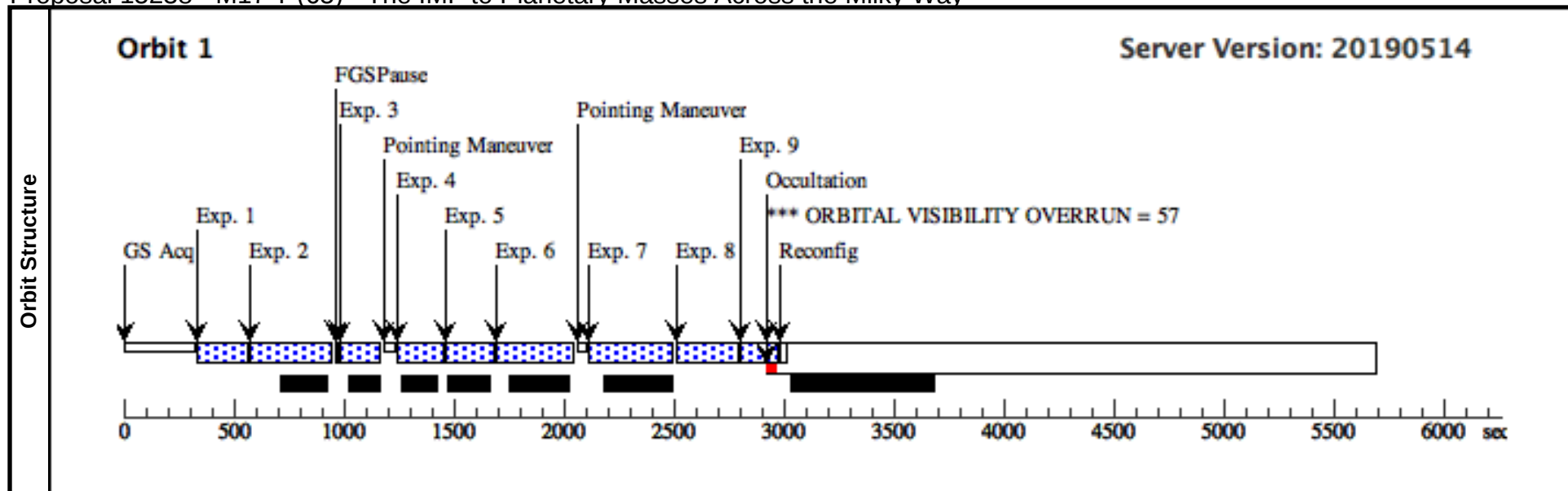


# Proposal 15238 - M17 T (65) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                    |       |                                  |                          |           |                              |
|---------------|--------------------------------------------------------------------|-------|----------------------------------|--------------------------|-----------|------------------------------|
| Visit         | Proposal 15238, M17 T (65), completed                              |       |                                  |                          |           | Tue Sep 10 16:05:19 GMT 2019 |
|               | Diagnostic Status: Warning                                         |       |                                  |                          |           |                              |
|               | Scientific Instruments: WFC3/IR                                    |       |                                  |                          |           |                              |
|               | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D               |       |                                  |                          |           |                              |
| Diagnostics   | (M17 T (65)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                                  |                          |           |                              |
|               | (M17 T (65)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                  |                          |           |                              |
|               | (M17 T (65)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                  |                          |           |                              |
|               | (M17 T (65)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                  |                          |           |                              |
|               | (M17 T (65)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                  |                          |           |                              |
|               | (M17 T (65)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                  |                          |           |                              |
|               | (M17 T (65)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                  |                          |           |                              |
| Fixed Targets | #                                                                  | Name  | Target Coordinates               | Targ. Coord. Corrections | Fluxes    | Miscellaneous                |
|               | (69)                                                               | M17-T | RA: 18 20 50.0586 (275.2085775d) |                          | V=15+/-10 | Reference Frame: ICRS        |
|               |                                                                    |       | Dec: -16 17 6.82 (-16.28523d)    |                          |           |                              |
|               |                                                                    |       | Equinox: J2000                   |                          |           |                              |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]    |       |                                  |                          |           |                              |

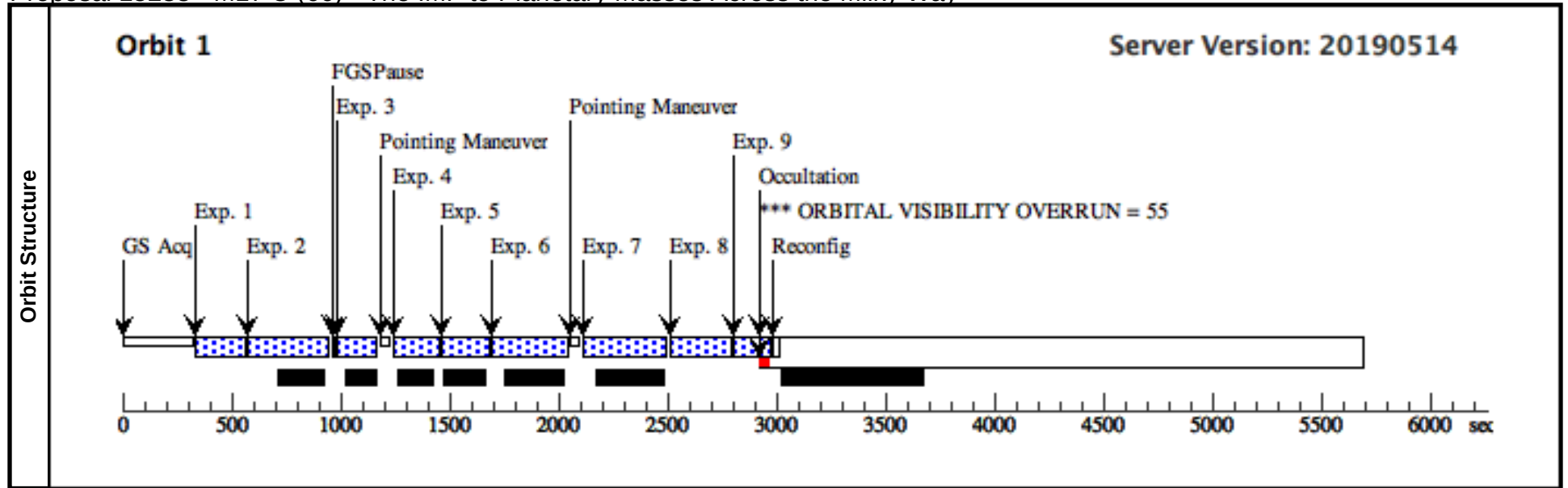
# Proposal 15238 - M17 T (65) - The IMF to Planetary Masses Across the Milky Way

| Exposures | # | Label | Target     | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                                    | Groups                                 | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|---|-------|------------|-----------------------------|---------------|-----------------------------------|--------------------------------------------------|----------------------------------------|-----------------------------------------|-------|
|           | 1 |       | (69) M17-T | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE           | Sequence 1-9 Non-In<br>t in M17 T (65) | 202.934095 Secs (202.934 Secs)<br>[==>] | [1]   |
|           | 2 |       | (69) M17-T | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE           | Sequence 1-9 Non-In<br>t in M17 T (65) | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|           | 3 |       | (69) M17-T | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO           | Sequence 1-9 Non-In<br>t in M17 T (65) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |
|           | 4 |       | (69) M17-T | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -130,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 T (65) | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|           | 5 |       | (69) M17-T | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -130,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 T (65) | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|           | 6 |       | (69) M17-T | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -130,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 T (65) | 327.938986 Secs (327.939 Secs)<br>[==>] | [1]   |
|           | 7 |       | (69) M17-T | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -130,-23<br>4;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 T (65) | 352.939501 Secs (352.94 Secs)<br>[==>]  | [1]   |
|           | 8 |       | (69) M17-T | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -130,-23<br>4;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 T (65) | 252.937441 Secs (252.937 Secs)<br>[==>] | [1]   |
|           | 9 |       | (69) M17-T | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -130,-23<br>4;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 T (65) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |



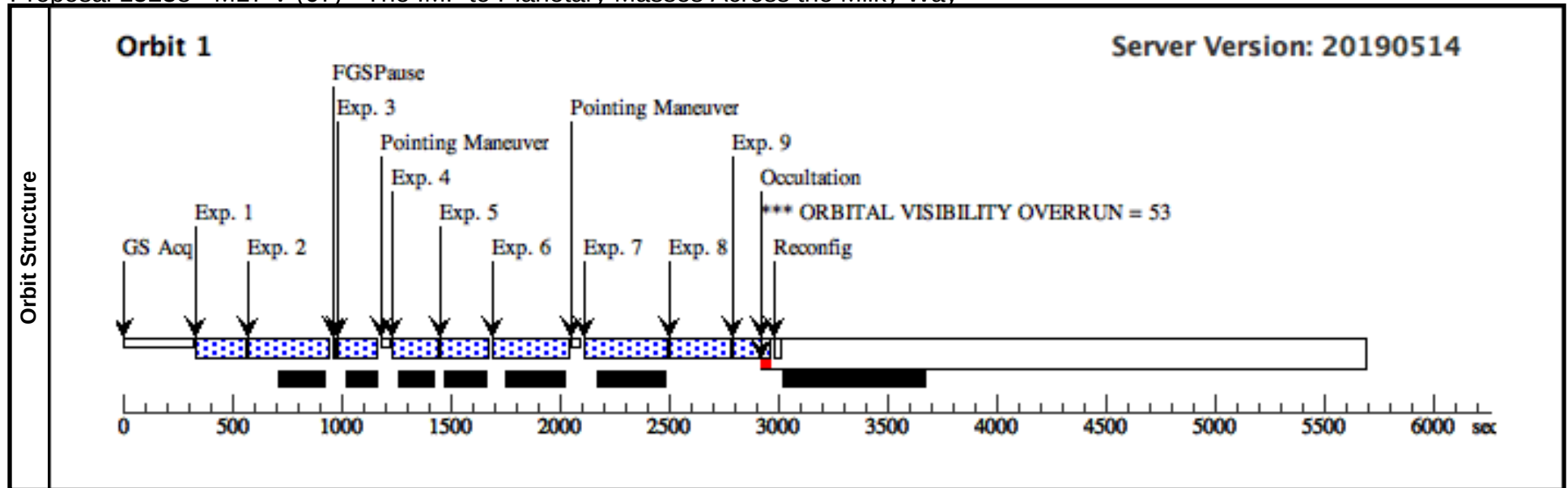
# Proposal 15238 - M17 U (66) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|---------------|--------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, M17 U (66), completed                              |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:19 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D               |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics   | (M17 U (66)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 U (66)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 U (66)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 U (66)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 U (66)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 U (66)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 U (66)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets | #            Name                                                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |



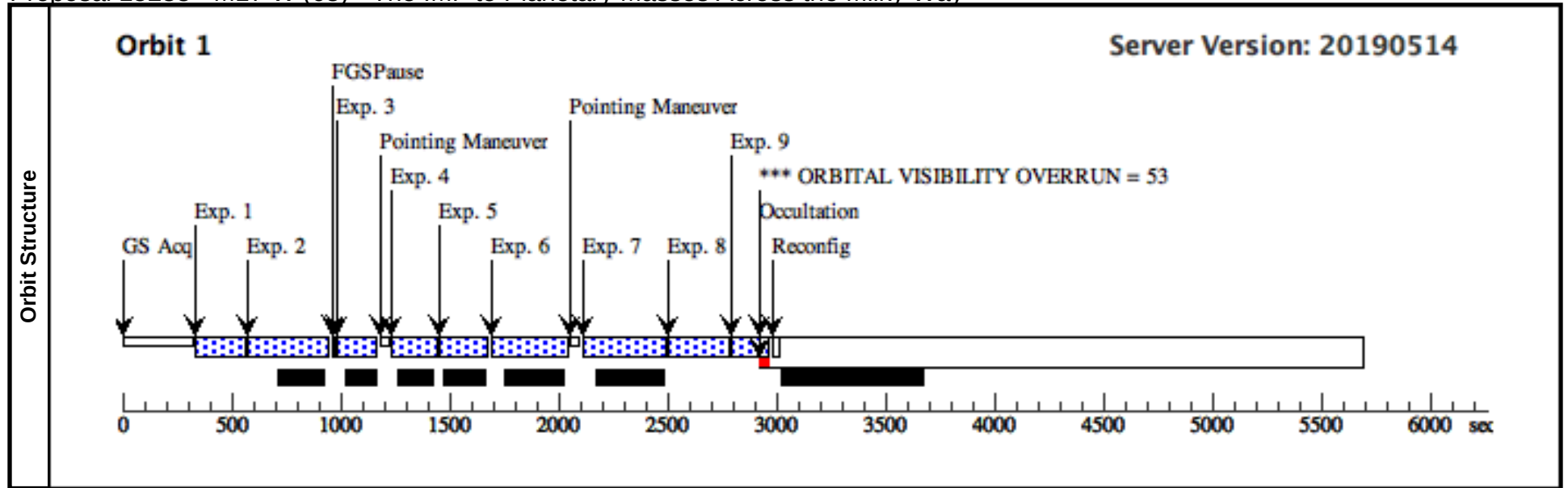
# Proposal 15238 - M17 V (67) - The IMF to Planetary Masses Across the Milky Way

| Visit                                                           | Proposal 15238, M17 V (67), completed                                                                                                                                                                                                                                                                                                        |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         | Tue Sep 10 16:05:19 GMT 2019 |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------|-----------------------------|-----------------------|-----------------------------------|------------------------------------------|----------------------------------------|-----------------------------------------|------------------------------|-------|--|---|------|--------------------|--------------------------|--------|---------------|------|-------|--------------------------------------------------------------------------------------|--|-----------|-----------------------|
|                                                                 | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                   |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                              |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D                                                                                                                                                                                                                                                                                         |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
| Diagnostics                                                     | (M17 V (67)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                             |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | (M17 V (67)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                           |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | (M17 V (67)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                           |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | (M17 V (67)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                           |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | (M17 V (67)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                           |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | (M17 V (67)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                           |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | (M17 V (67)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                           |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
| Fixed Targets                                                   | <table><tr><th>#</th><th>Name</th><th>Target Coordinates</th><th>Targ. Coord. Corrections</th><th>Fluxes</th><th>Miscellaneous</th></tr><tr><td>(71)</td><td>M17-V</td><td>RA: 18 20 41.7640 (275.1740167d)<br/>Dec: -16 01 21.29 (-16.02258d)<br/>Equinox: J2000</td><td></td><td>V=15+/-10</td><td>Reference Frame: ICRS</td></tr></table> |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | (71) | M17-V | RA: 18 20 41.7640 (275.1740167d)<br>Dec: -16 01 21.29 (-16.02258d)<br>Equinox: J2000 |  | V=15+/-10 | Reference Frame: ICRS |
|                                                                 | #                                                                                                                                                                                                                                                                                                                                            | Name                                                                                 | Target Coordinates | Targ. Coord. Corrections    | Fluxes                | Miscellaneous                     |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
| (71)                                                            | M17-V                                                                                                                                                                                                                                                                                                                                        | RA: 18 20 41.7640 (275.1740167d)<br>Dec: -16 01 21.29 (-16.02258d)<br>Equinox: J2000 |                    | V=15+/-10                   | Reference Frame: ICRS |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                                                                                                                                                                                                                                                                                              |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
| Exposures                                                       | #                                                                                                                                                                                                                                                                                                                                            | Label                                                                                | Target             | Config,Mode,Aperture        | Spectral Els.         | Opt. Params.                      | Special Reqs.                            | Groups                                 | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | 1                                                                                                                                                                                                                                                                                                                                            |                                                                                      | (71) M17-V         | WFC3/IR, MULTIACCUM, IR-FIX | F110W                 | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in M17 V (67) | 202.934095 Secs (202.934 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | 2                                                                                                                                                                                                                                                                                                                                            |                                                                                      | (71) M17-V         | WFC3/IR, MULTIACCUM, IR-FIX | F139M                 | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in M17 V (67) | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | 3                                                                                                                                                                                                                                                                                                                                            |                                                                                      | (71) M17-V         | WFC3/IR, MULTIACCUM, IR-FIX | F160W                 | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in M17 V (67) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | 4                                                                                                                                                                                                                                                                                                                                            |                                                                                      | (71) M17-V         | WFC3/IR, MULTIACCUM, IR-FIX | F160W                 | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 V (67) | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | 5                                                                                                                                                                                                                                                                                                                                            |                                                                                      | (71) M17-V         | WFC3/IR, MULTIACCUM, IR-FIX | F110W                 | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 V (67) | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | 6                                                                                                                                                                                                                                                                                                                                            |                                                                                      | (71) M17-V         | WFC3/IR, MULTIACCUM, IR-FIX | F139M                 | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 V (67) | 327.938986 Secs (327.939 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | 7                                                                                                                                                                                                                                                                                                                                            |                                                                                      | (71) M17-V         | WFC3/IR, MULTIACCUM, IR-FIX | F139M                 | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 V (67) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | 8                                                                                                                                                                                                                                                                                                                                            |                                                                                      | (71) M17-V         | WFC3/IR, MULTIACCUM, IR-FIX | F110W                 | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 V (67) | 252.937441 Secs (252.937 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | 9                                                                                                                                                                                                                                                                                                                                            |                                                                                      | (71) M17-V         | WFC3/IR, MULTIACCUM, IR-FIX | F160W                 | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 V (67) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |



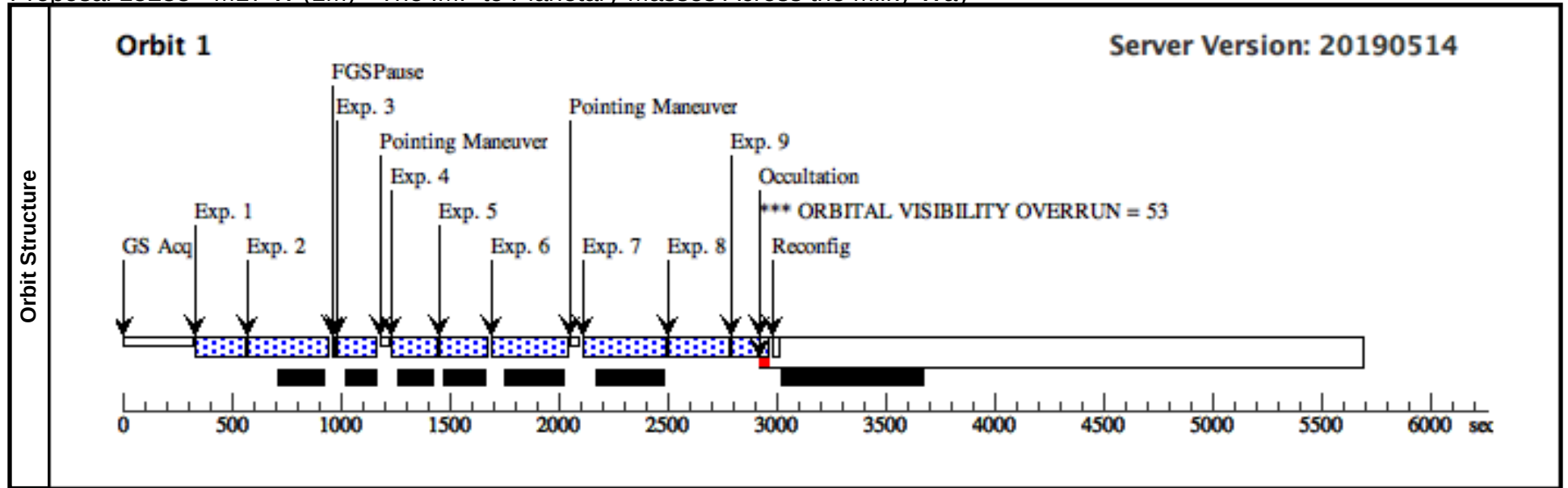
# Proposal 15238 - M17 W (68) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                    |       |                                                                                                                                                           |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|---------------|--------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------------------|----------------------------------------|-----------------------------------------|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, M17 W (68), failed                                 |       |                                                                                                                                                           |                             |               |                                   |                                          |                                        |                                         |  | Tue Sep 10 16:05:19 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                         |       |                                                                                                                                                           |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                    |       |                                                                                                                                                           |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D               |       |                                                                                                                                                           |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
| Diagnostics   | (M17 W (68)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                                                                                                                                                           |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|               | (M17 W (68)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                                                                                           |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|               | (M17 W (68)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                                                                                           |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|               | (M17 W (68)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                                                                                           |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|               | (M17 W (68)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                                                                                           |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|               | (M17 W (68)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                                                                                           |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|               | (M17 W (68)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                                                                                           |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
| Fixed Targets | #                                                                  | Name  | Target Coordinates                                                                                                                                        | Targ. Coord. Corrections    |               |                                   | Fluxes                                   |                                        | Miscellaneous                           |  |                              |  |  |  |
|               | (72)                                                               | M17-W | RA: 18 21 0.2365 (275.2509854d)<br>Dec: -16 05 5.59 (-16.08489d)<br>Equinox: J2000<br><br>Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                             |               |                                   | V=15+/-10                                |                                        | Reference Frame: ICRS                   |  |                              |  |  |  |
| Exposures     | #                                                                  | Label | Target                                                                                                                                                    | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                 | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |  |  |
|               | 1                                                                  |       | (72) M17-W                                                                                                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in M17 W (68) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 2                                                                  |       | (72) M17-W                                                                                                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in M17 W (68) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 3                                                                  |       | (72) M17-W                                                                                                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in M17 W (68) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 4                                                                  |       | (72) M17-W                                                                                                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 W (68) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 5                                                                  |       | (72) M17-W                                                                                                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 W (68) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 6                                                                  |       | (72) M17-W                                                                                                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 W (68) | 327.938986 Secs (327.939 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 7                                                                  |       | (72) M17-W                                                                                                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 W (68) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 8                                                                  |       | (72) M17-W                                                                                                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 W (68) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 9                                                                  |       | (72) M17-W                                                                                                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 W (68) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |



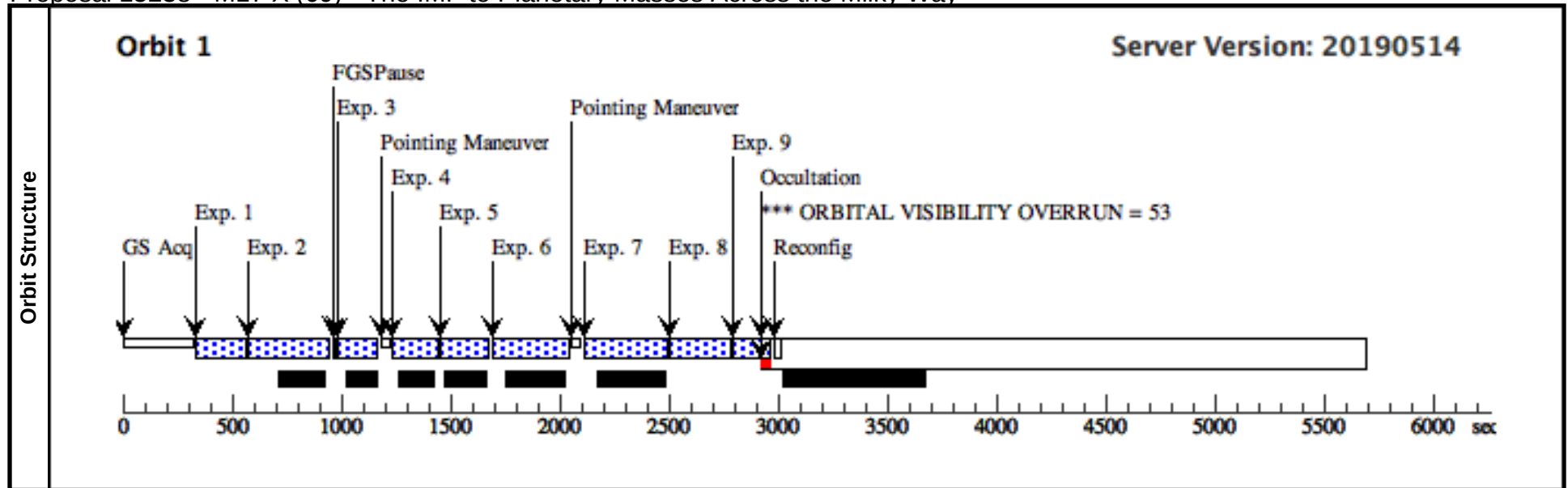
# Proposal 15238 - M17 W (1M) - The IMF to Planetary Masses Across the Milky Way

| Visit                                                           | Proposal 15238, M17 W (1M), completed                                                                                                                                                                                                                                                                                                      |                                                                                    |                    |                             |                       |                                   |                                          |                                        |                                         | Tue Sep 10 16:05:19 GMT 2019 |       |  |   |      |                    |                          |        |               |      |       |                                                                                    |  |           |                       |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------|-----------------------------|-----------------------|-----------------------------------|------------------------------------------|----------------------------------------|-----------------------------------------|------------------------------|-------|--|---|------|--------------------|--------------------------|--------|---------------|------|-------|------------------------------------------------------------------------------------|--|-----------|-----------------------|
|                                                                 | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                 |                                                                                    |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                    |  |           |                       |
|                                                                 | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                            |                                                                                    |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                    |  |           |                       |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D                                                                                                                                                                                                                                                                                       |                                                                                    |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                    |  |           |                       |
| Diagnostics                                                     | (M17 W (1M)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                           |                                                                                    |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                    |  |           |                       |
|                                                                 | (M17 W (1M)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                         |                                                                                    |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                    |  |           |                       |
|                                                                 | (M17 W (1M)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                         |                                                                                    |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                    |  |           |                       |
|                                                                 | (M17 W (1M)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                         |                                                                                    |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                    |  |           |                       |
|                                                                 | (M17 W (1M)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                         |                                                                                    |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                    |  |           |                       |
|                                                                 | (M17 W (1M)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                         |                                                                                    |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                    |  |           |                       |
|                                                                 | (M17 W (1M)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                         |                                                                                    |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                    |  |           |                       |
| Fixed Targets                                                   | <table><tr><th>#</th><th>Name</th><th>Target Coordinates</th><th>Targ. Coord. Corrections</th><th>Fluxes</th><th>Miscellaneous</th></tr><tr><td>(72)</td><td>M17-W</td><td>RA: 18 21 0.2365 (275.2509854d)<br/>Dec: -16 05 5.59 (-16.08489d)<br/>Equinox: J2000</td><td></td><td>V=15+/-10</td><td>Reference Frame: ICRS</td></tr></table> |                                                                                    |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | (72) | M17-W | RA: 18 21 0.2365 (275.2509854d)<br>Dec: -16 05 5.59 (-16.08489d)<br>Equinox: J2000 |  | V=15+/-10 | Reference Frame: ICRS |
|                                                                 | #                                                                                                                                                                                                                                                                                                                                          | Name                                                                               | Target Coordinates | Targ. Coord. Corrections    | Fluxes                | Miscellaneous                     |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                    |  |           |                       |
| (72)                                                            | M17-W                                                                                                                                                                                                                                                                                                                                      | RA: 18 21 0.2365 (275.2509854d)<br>Dec: -16 05 5.59 (-16.08489d)<br>Equinox: J2000 |                    | V=15+/-10                   | Reference Frame: ICRS |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                    |  |           |                       |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                                                                                                                                                                                                                                                                                            |                                                                                    |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                    |  |           |                       |
| Exposures                                                       | #                                                                                                                                                                                                                                                                                                                                          | Label                                                                              | Target             | Config,Mode,Aperture        | Spectral Els.         | Opt. Params.                      | Special Reqs.                            | Groups                                 | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |  |   |      |                    |                          |        |               |      |       |                                                                                    |  |           |                       |
|                                                                 | 1                                                                                                                                                                                                                                                                                                                                          |                                                                                    | (72) M17-W         | WFC3/IR, MULTIACCUM, IR-FIX | F110W                 | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in M17 W (1M) | 202.934095 Secs (202.934 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                    |  |           |                       |
|                                                                 | 2                                                                                                                                                                                                                                                                                                                                          |                                                                                    | (72) M17-W         | WFC3/IR, MULTIACCUM, IR-FIX | F139M                 | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in M17 W (1M) | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                    |  |           |                       |
|                                                                 | 3                                                                                                                                                                                                                                                                                                                                          |                                                                                    | (72) M17-W         | WFC3/IR, MULTIACCUM, IR-FIX | F160W                 | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in M17 W (1M) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                    |  |           |                       |
|                                                                 | 4                                                                                                                                                                                                                                                                                                                                          |                                                                                    | (72) M17-W         | WFC3/IR, MULTIACCUM, IR-FIX | F160W                 | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 W (1M) | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                    |  |           |                       |
|                                                                 | 5                                                                                                                                                                                                                                                                                                                                          |                                                                                    | (72) M17-W         | WFC3/IR, MULTIACCUM, IR-FIX | F110W                 | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 W (1M) | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                    |  |           |                       |
|                                                                 | 6                                                                                                                                                                                                                                                                                                                                          |                                                                                    | (72) M17-W         | WFC3/IR, MULTIACCUM, IR-FIX | F139M                 | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 W (1M) | 327.938986 Secs (327.939 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                    |  |           |                       |
|                                                                 | 7                                                                                                                                                                                                                                                                                                                                          |                                                                                    | (72) M17-W         | WFC3/IR, MULTIACCUM, IR-FIX | F139M                 | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 W (1M) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                    |  |           |                       |
|                                                                 | 8                                                                                                                                                                                                                                                                                                                                          |                                                                                    | (72) M17-W         | WFC3/IR, MULTIACCUM, IR-FIX | F110W                 | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 W (1M) | 252.937441 Secs (252.937 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                    |  |           |                       |
|                                                                 | 9                                                                                                                                                                                                                                                                                                                                          |                                                                                    | (72) M17-W         | WFC3/IR, MULTIACCUM, IR-FIX | F160W                 | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 W (1M) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                    |  |           |                       |



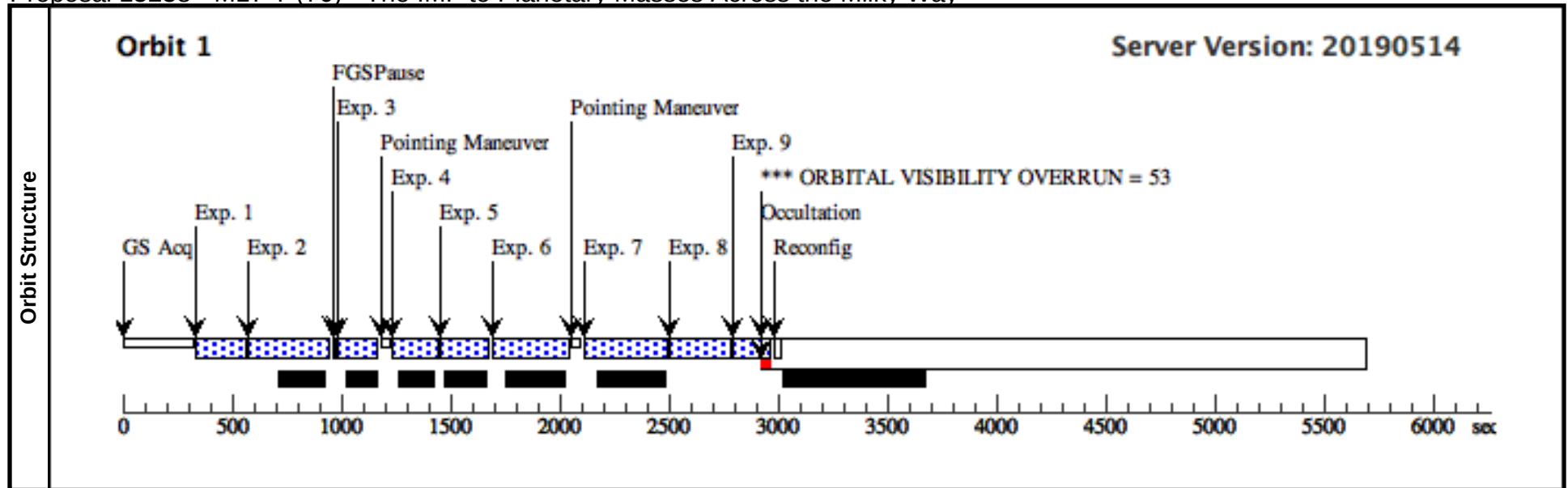
# Proposal 15238 - M17 X (69) - The IMF to Planetary Masses Across the Milky Way

| Visit                                                           | Proposal 15238, M17 X (69), completed                                                                                                                                                                                                                                                                                                        |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         | Tue Sep 10 16:05:20 GMT 2019 |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------|-----------------------------|-----------------------|-----------------------------------|------------------------------------------|----------------------------------------|-----------------------------------------|------------------------------|-------|--|---|------|--------------------|--------------------------|--------|---------------|------|-------|--------------------------------------------------------------------------------------|--|-----------|-----------------------|
|                                                                 | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                   |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                              |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D                                                                                                                                                                                                                                                                                         |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
| Diagnostics                                                     | (M17 X (69)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                             |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | (M17 X (69)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                           |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | (M17 X (69)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                           |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | (M17 X (69)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                           |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | (M17 X (69)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                           |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | (M17 X (69)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                           |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | (M17 X (69)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                           |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
| Fixed Targets                                                   | <table><tr><th>#</th><th>Name</th><th>Target Coordinates</th><th>Targ. Coord. Corrections</th><th>Fluxes</th><th>Miscellaneous</th></tr><tr><td>(73)</td><td>M17-X</td><td>RA: 18 20 47.4350 (275.1976458d)<br/>Dec: -15 59 42.75 (-15.99521d)<br/>Equinox: J2000</td><td></td><td>V=15+/-10</td><td>Reference Frame: ICRS</td></tr></table> |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | (73) | M17-X | RA: 18 20 47.4350 (275.1976458d)<br>Dec: -15 59 42.75 (-15.99521d)<br>Equinox: J2000 |  | V=15+/-10 | Reference Frame: ICRS |
|                                                                 | #                                                                                                                                                                                                                                                                                                                                            | Name                                                                                 | Target Coordinates | Targ. Coord. Corrections    | Fluxes                | Miscellaneous                     |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
| (73)                                                            | M17-X                                                                                                                                                                                                                                                                                                                                        | RA: 18 20 47.4350 (275.1976458d)<br>Dec: -15 59 42.75 (-15.99521d)<br>Equinox: J2000 |                    | V=15+/-10                   | Reference Frame: ICRS |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                                                                                                                                                                                                                                                                                              |                                                                                      |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
| Exposures                                                       | #                                                                                                                                                                                                                                                                                                                                            | Label                                                                                | Target             | Config,Mode,Aperture        | Spectral Els.         | Opt. Params.                      | Special Reqs.                            | Groups                                 | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | 1                                                                                                                                                                                                                                                                                                                                            |                                                                                      | (73) M17-X         | WFC3/IR, MULTIACCUM, IR-FIX | F110W                 | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in M17 X (69) | 202.934095 Secs (202.934 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | 2                                                                                                                                                                                                                                                                                                                                            |                                                                                      | (73) M17-X         | WFC3/IR, MULTIACCUM, IR-FIX | F139M                 | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in M17 X (69) | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | 3                                                                                                                                                                                                                                                                                                                                            |                                                                                      | (73) M17-X         | WFC3/IR, MULTIACCUM, IR-FIX | F160W                 | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in M17 X (69) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | 4                                                                                                                                                                                                                                                                                                                                            |                                                                                      | (73) M17-X         | WFC3/IR, MULTIACCUM, IR-FIX | F160W                 | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 X (69) | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | 5                                                                                                                                                                                                                                                                                                                                            |                                                                                      | (73) M17-X         | WFC3/IR, MULTIACCUM, IR-FIX | F110W                 | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 X (69) | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | 6                                                                                                                                                                                                                                                                                                                                            |                                                                                      | (73) M17-X         | WFC3/IR, MULTIACCUM, IR-FIX | F139M                 | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 X (69) | 327.938986 Secs (327.939 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | 7                                                                                                                                                                                                                                                                                                                                            |                                                                                      | (73) M17-X         | WFC3/IR, MULTIACCUM, IR-FIX | F139M                 | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 X (69) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | 8                                                                                                                                                                                                                                                                                                                                            |                                                                                      | (73) M17-X         | WFC3/IR, MULTIACCUM, IR-FIX | F110W                 | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 X (69) | 252.937441 Secs (252.937 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |
|                                                                 | 9                                                                                                                                                                                                                                                                                                                                            |                                                                                      | (73) M17-X         | WFC3/IR, MULTIACCUM, IR-FIX | F160W                 | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 X (69) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                      |  |           |                       |



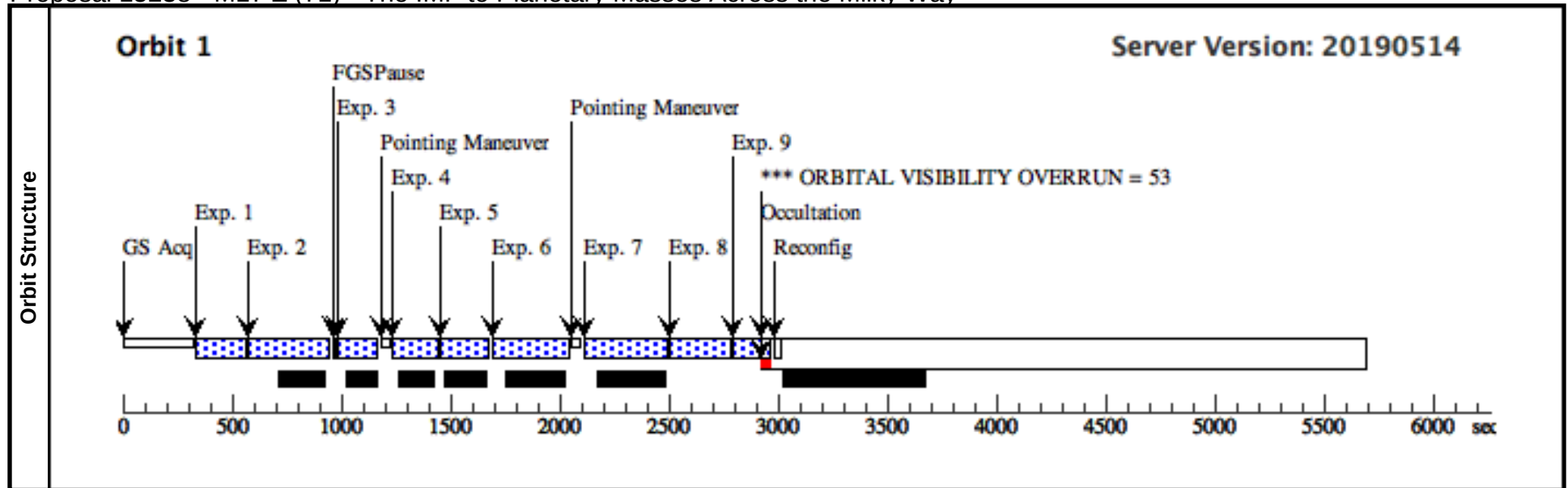
# Proposal 15238 - M17 Y (70) - The IMF to Planetary Masses Across the Milky Way

| Visit                                                           | Proposal 15238, M17 Y (70), completed                                                                                                                                                                                                                                                                                                       |                                                                                     |                    |                             |                       |                                   |                                          |                                        |                                         | Tue Sep 10 16:05:20 GMT 2019 |       |  |   |      |                    |                          |        |               |      |       |                                                                                     |  |           |                       |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------|-----------------------------|-----------------------|-----------------------------------|------------------------------------------|----------------------------------------|-----------------------------------------|------------------------------|-------|--|---|------|--------------------|--------------------------|--------|---------------|------|-------|-------------------------------------------------------------------------------------|--|-----------|-----------------------|
|                                                                 | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                  |                                                                                     |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                     |  |           |                       |
|                                                                 | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                             |                                                                                     |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                     |  |           |                       |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D                                                                                                                                                                                                                                                                                        |                                                                                     |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                     |  |           |                       |
| Diagnostics                                                     | (M17 Y (70)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                            |                                                                                     |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                     |  |           |                       |
|                                                                 | (M17 Y (70)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                          |                                                                                     |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                     |  |           |                       |
|                                                                 | (M17 Y (70)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                          |                                                                                     |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                     |  |           |                       |
|                                                                 | (M17 Y (70)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                          |                                                                                     |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                     |  |           |                       |
|                                                                 | (M17 Y (70)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                          |                                                                                     |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                     |  |           |                       |
|                                                                 | (M17 Y (70)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                          |                                                                                     |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                     |  |           |                       |
|                                                                 | (M17 Y (70)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                          |                                                                                     |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                     |  |           |                       |
| Fixed Targets                                                   | <table><tr><th>#</th><th>Name</th><th>Target Coordinates</th><th>Targ. Coord. Corrections</th><th>Fluxes</th><th>Miscellaneous</th></tr><tr><td>(74)</td><td>M17-Y</td><td>RA: 18 20 28.9748 (275.1207283d)<br/>Dec: -15 56 0.48 (-15.93347d)<br/>Equinox: J2000</td><td></td><td>V=15+/-10</td><td>Reference Frame: ICRS</td></tr></table> |                                                                                     |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | (74) | M17-Y | RA: 18 20 28.9748 (275.1207283d)<br>Dec: -15 56 0.48 (-15.93347d)<br>Equinox: J2000 |  | V=15+/-10 | Reference Frame: ICRS |
|                                                                 | #                                                                                                                                                                                                                                                                                                                                           | Name                                                                                | Target Coordinates | Targ. Coord. Corrections    | Fluxes                | Miscellaneous                     |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                     |  |           |                       |
| (74)                                                            | M17-Y                                                                                                                                                                                                                                                                                                                                       | RA: 18 20 28.9748 (275.1207283d)<br>Dec: -15 56 0.48 (-15.93347d)<br>Equinox: J2000 |                    | V=15+/-10                   | Reference Frame: ICRS |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                     |  |           |                       |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                                                                                                                                                                                                                                                                                             |                                                                                     |                    |                             |                       |                                   |                                          |                                        |                                         |                              |       |  |   |      |                    |                          |        |               |      |       |                                                                                     |  |           |                       |
| Exposures                                                       | #                                                                                                                                                                                                                                                                                                                                           | Label                                                                               | Target             | Config,Mode,Aperture        | Spectral Els.         | Opt. Params.                      | Special Reqs.                            | Groups                                 | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |  |   |      |                    |                          |        |               |      |       |                                                                                     |  |           |                       |
|                                                                 | 1                                                                                                                                                                                                                                                                                                                                           |                                                                                     | (74) M17-Y         | WFC3/IR, MULTIACCUM, IR-FIX | F110W                 | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in M17 Y (70) | 202.934095 Secs (202.934 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                     |  |           |                       |
|                                                                 | 2                                                                                                                                                                                                                                                                                                                                           |                                                                                     | (74) M17-Y         | WFC3/IR, MULTIACCUM, IR-FIX | F139M                 | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in M17 Y (70) | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                     |  |           |                       |
|                                                                 | 3                                                                                                                                                                                                                                                                                                                                           |                                                                                     | (74) M17-Y         | WFC3/IR, MULTIACCUM, IR-FIX | F160W                 | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in M17 Y (70) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                     |  |           |                       |
|                                                                 | 4                                                                                                                                                                                                                                                                                                                                           |                                                                                     | (74) M17-Y         | WFC3/IR, MULTIACCUM, IR-FIX | F160W                 | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 Y (70) | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                     |  |           |                       |
|                                                                 | 5                                                                                                                                                                                                                                                                                                                                           |                                                                                     | (74) M17-Y         | WFC3/IR, MULTIACCUM, IR-FIX | F110W                 | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 Y (70) | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                     |  |           |                       |
|                                                                 | 6                                                                                                                                                                                                                                                                                                                                           |                                                                                     | (74) M17-Y         | WFC3/IR, MULTIACCUM, IR-FIX | F139M                 | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 Y (70) | 327.938986 Secs (327.939 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                     |  |           |                       |
|                                                                 | 7                                                                                                                                                                                                                                                                                                                                           |                                                                                     | (74) M17-Y         | WFC3/IR, MULTIACCUM, IR-FIX | F139M                 | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 Y (70) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                     |  |           |                       |
|                                                                 | 8                                                                                                                                                                                                                                                                                                                                           |                                                                                     | (74) M17-Y         | WFC3/IR, MULTIACCUM, IR-FIX | F110W                 | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 Y (70) | 252.937441 Secs (252.937 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                     |  |           |                       |
|                                                                 | 9                                                                                                                                                                                                                                                                                                                                           |                                                                                     | (74) M17-Y         | WFC3/IR, MULTIACCUM, IR-FIX | F160W                 | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 Y (70) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |       |                                                                                     |  |           |                       |



# Proposal 15238 - M17 Z (71) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|---------------|--------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, M17 Z (71), completed                              |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:20 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D               |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics   | (M17 Z (71)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 Z (71)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 Z (71)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 Z (71)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 Z (71)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 Z (71)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (M17 Z (71)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets | #            Name                                                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |

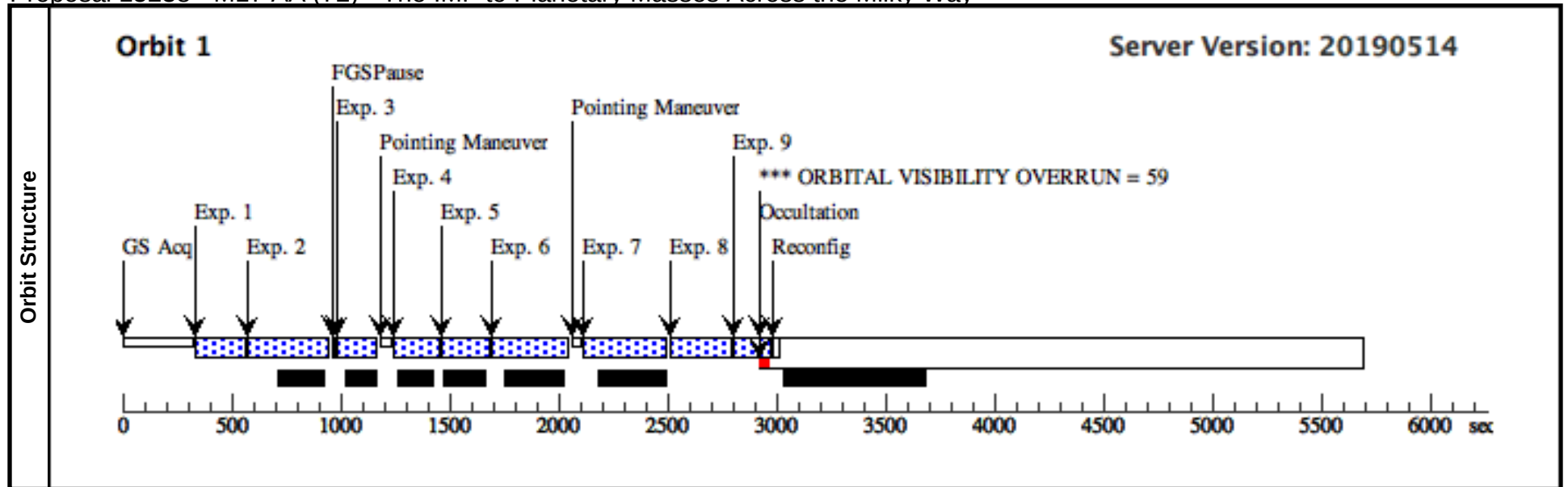


# Proposal 15238 - M17 AA (72) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                     |        |                                                                                            |                          |           |                              |
|---------------|---------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------|--------------------------|-----------|------------------------------|
| Visit         | Proposal 15238, M17 AA (72), failed                                 |        |                                                                                            |                          |           | Tue Sep 10 16:05:20 GMT 2019 |
|               | Diagnostic Status: Warning                                          |        |                                                                                            |                          |           |                              |
|               | Scientific Instruments: WFC3/IR                                     |        |                                                                                            |                          |           |                              |
|               | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D                |        |                                                                                            |                          |           |                              |
| Diagnostics   | (M17 AA (72)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |        |                                                                                            |                          |           |                              |
|               | (M17 AA (72)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |        |                                                                                            |                          |           |                              |
|               | (M17 AA (72)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |        |                                                                                            |                          |           |                              |
|               | (M17 AA (72)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |        |                                                                                            |                          |           |                              |
|               | (M17 AA (72)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |        |                                                                                            |                          |           |                              |
|               | (M17 AA (72)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |        |                                                                                            |                          |           |                              |
|               | (M17 AA (72)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |        |                                                                                            |                          |           |                              |
| Fixed Targets | #                                                                   | Name   | Target Coordinates                                                                         | Targ. Coord. Corrections | Fluxes    | Miscellaneous                |
|               | (76)                                                                | M17-AA | RA: 18 21 0.6766 (275.2528192d)<br><br>Dec: -16 08 1.69 (-16.13380d)<br><br>Equinox: J2000 |                          | V=15+/-10 | Reference Frame: ICRS        |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]     |        |                                                                                            |                          |           |                              |

# Proposal 15238 - M17 AA (72) - The IMF to Planetary Masses Across the Milky Way

| Exposures | # | Label | Target      | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                                    | Groups                                  | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|---|-------|-------------|-----------------------------|---------------|-----------------------------------|--------------------------------------------------|-----------------------------------------|-----------------------------------------|-------|
|           | 1 |       | (76) M17-AA | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE           | Sequence 1-9 Non-In<br>t in M17 AA (72) | 202.934095 Secs (202.934 Secs)<br>[==>] | [1]   |
|           | 2 |       | (76) M17-AA | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE           | Sequence 1-9 Non-In<br>t in M17 AA (72) | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|           | 3 |       | (76) M17-AA | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO           | Sequence 1-9 Non-In<br>t in M17 AA (72) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |
|           | 4 |       | (76) M17-AA | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -130,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 AA (72) | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|           | 5 |       | (76) M17-AA | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -130,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 AA (72) | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|           | 6 |       | (76) M17-AA | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -130,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 AA (72) | 327.938986 Secs (327.939 Secs)<br>[==>] | [1]   |
|           | 7 |       | (76) M17-AA | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -260,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 AA (72) | 352.939501 Secs (352.94 Secs)<br>[==>]  | [1]   |
|           | 8 |       | (76) M17-AA | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -260,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 AA (72) | 252.937441 Secs (252.937 Secs)<br>[==>] | [1]   |
|           | 9 |       | (76) M17-AA | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -260,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 AA (72) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |

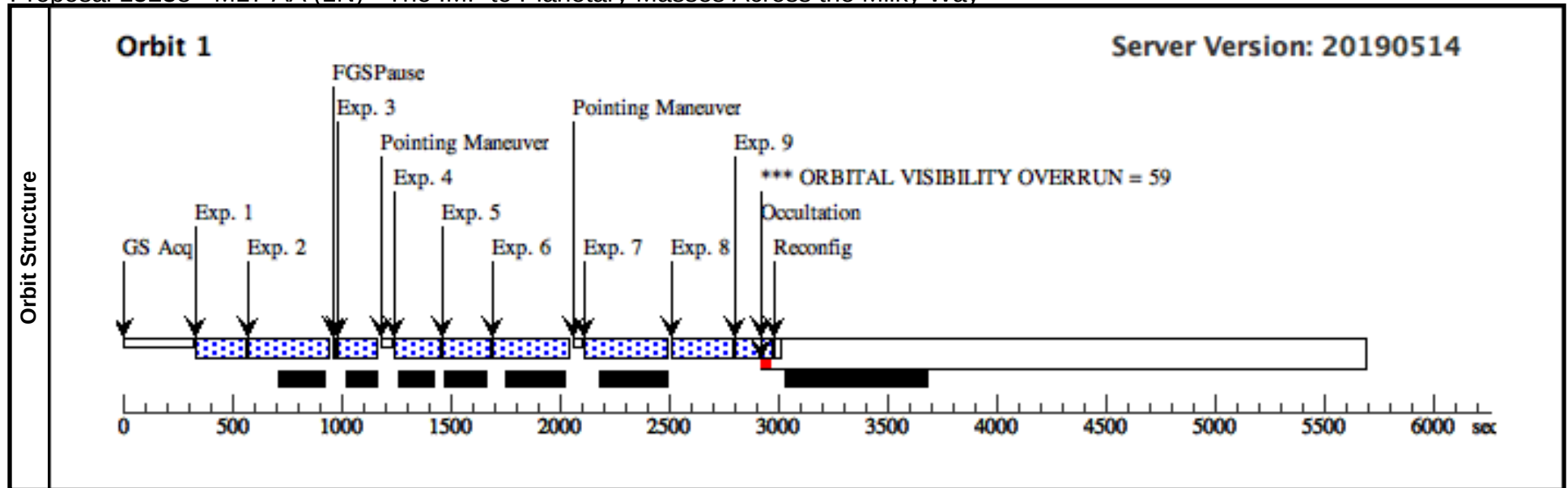


# Proposal 15238 - M17 AA (1N) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                     |        |                                                                                            |                          |           |                              |
|---------------|---------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------|--------------------------|-----------|------------------------------|
| Visit         | Proposal 15238, M17 AA (1N), completed                              |        |                                                                                            |                          |           | Tue Sep 10 16:05:20 GMT 2019 |
|               | Diagnostic Status: Warning                                          |        |                                                                                            |                          |           |                              |
|               | Scientific Instruments: WFC3/IR                                     |        |                                                                                            |                          |           |                              |
|               | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D                |        |                                                                                            |                          |           |                              |
| Diagnostics   | (M17 AA (1N)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |        |                                                                                            |                          |           |                              |
|               | (M17 AA (1N)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |        |                                                                                            |                          |           |                              |
|               | (M17 AA (1N)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |        |                                                                                            |                          |           |                              |
|               | (M17 AA (1N)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |        |                                                                                            |                          |           |                              |
|               | (M17 AA (1N)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |        |                                                                                            |                          |           |                              |
|               | (M17 AA (1N)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |        |                                                                                            |                          |           |                              |
|               | (M17 AA (1N)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |        |                                                                                            |                          |           |                              |
| Fixed Targets | #                                                                   | Name   | Target Coordinates                                                                         | Targ. Coord. Corrections | Fluxes    | Miscellaneous                |
|               | (76)                                                                | M17-AA | RA: 18 21 0.6766 (275.2528192d)<br><br>Dec: -16 08 1.69 (-16.13380d)<br><br>Equinox: J2000 |                          | V=15+/-10 | Reference Frame: ICRS        |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]     |        |                                                                                            |                          |           |                              |

# Proposal 15238 - M17 AA (1N) - The IMF to Planetary Masses Across the Milky Way

| Exposures | # | Label | Target      | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                                    | Groups                                  | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|---|-------|-------------|-----------------------------|---------------|-----------------------------------|--------------------------------------------------|-----------------------------------------|-----------------------------------------|-------|
|           | 1 |       | (76) M17-AA | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE           | Sequence 1-9 Non-In<br>t in M17 AA (1N) | 202.934095 Secs (202.934 Secs)<br>[==>] | [1]   |
|           | 2 |       | (76) M17-AA | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE           | Sequence 1-9 Non-In<br>t in M17 AA (1N) | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|           | 3 |       | (76) M17-AA | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO           | Sequence 1-9 Non-In<br>t in M17 AA (1N) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |
|           | 4 |       | (76) M17-AA | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -130,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 AA (1N) | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|           | 5 |       | (76) M17-AA | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -130,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 AA (1N) | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|           | 6 |       | (76) M17-AA | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -130,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 AA (1N) | 327.938986 Secs (327.939 Secs)<br>[==>] | [1]   |
|           | 7 |       | (76) M17-AA | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -260,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 AA (1N) | 352.939501 Secs (352.94 Secs)<br>[==>]  | [1]   |
|           | 8 |       | (76) M17-AA | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -260,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 AA (1N) | 252.937441 Secs (252.937 Secs)<br>[==>] | [1]   |
|           | 9 |       | (76) M17-AA | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -260,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 AA (1N) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |

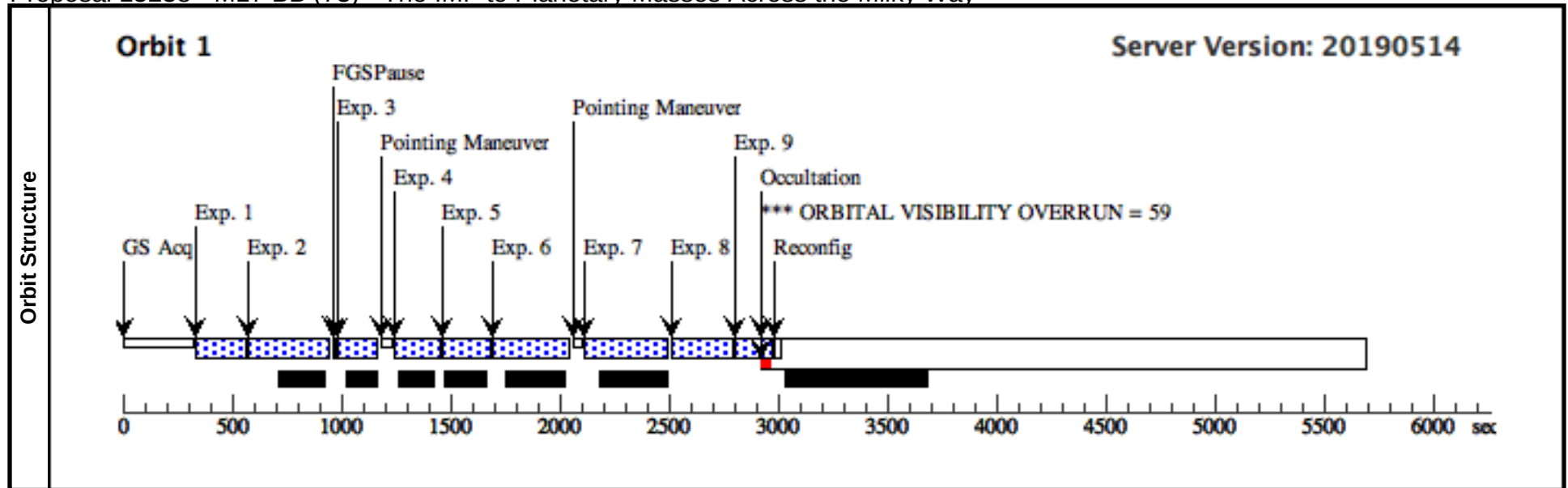


# Proposal 15238 - M17 BB (73) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                     |        |                                                                                                                                                                     |                          |           |                              |
|---------------|---------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------|------------------------------|
| Visit         | Proposal 15238, M17 BB (73), completed                              |        |                                                                                                                                                                     |                          |           | Tue Sep 10 16:05:20 GMT 2019 |
|               | Diagnostic Status: Warning                                          |        |                                                                                                                                                                     |                          |           |                              |
|               | Scientific Instruments: WFC3/IR                                     |        |                                                                                                                                                                     |                          |           |                              |
|               | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D                |        |                                                                                                                                                                     |                          |           |                              |
| Diagnostics   | (M17 BB (73)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |        |                                                                                                                                                                     |                          |           |                              |
|               | (M17 BB (73)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |        |                                                                                                                                                                     |                          |           |                              |
|               | (M17 BB (73)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |        |                                                                                                                                                                     |                          |           |                              |
|               | (M17 BB (73)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |        |                                                                                                                                                                     |                          |           |                              |
|               | (M17 BB (73)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |        |                                                                                                                                                                     |                          |           |                              |
|               | (M17 BB (73)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |        |                                                                                                                                                                     |                          |           |                              |
|               | (M17 BB (73)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |        |                                                                                                                                                                     |                          |           |                              |
| Fixed Targets | #                                                                   | Name   | Target Coordinates                                                                                                                                                  | Targ. Coord. Corrections | Fluxes    | Miscellaneous                |
|               | (77)                                                                | M17-BB | RA: 18 20 54.5647 (275.2273529d)<br><br>Dec: -16 06 44.14 (-16.11226d)<br><br>Equinox: J2000<br><br>Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                          | V=15+/-10 | Reference Frame: ICRS        |

# Proposal 15238 - M17 BB (73) - The IMF to Planetary Masses Across the Milky Way

| Exposures | # | Label | Target      | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                                    | Groups                                  | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|---|-------|-------------|-----------------------------|---------------|-----------------------------------|--------------------------------------------------|-----------------------------------------|-----------------------------------------|-------|
|           | 1 |       | (77) M17-BB | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE           | Sequence 1-9 Non-In<br>t in M17 BB (73) | 202.934095 Secs (202.934 Secs)<br>[==>] | [1]   |
|           | 2 |       | (77) M17-BB | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE           | Sequence 1-9 Non-In<br>t in M17 BB (73) | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|           | 3 |       | (77) M17-BB | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO           | Sequence 1-9 Non-In<br>t in M17 BB (73) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |
|           | 4 |       | (77) M17-BB | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -130,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 BB (73) | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|           | 5 |       | (77) M17-BB | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -130,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 BB (73) | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|           | 6 |       | (77) M17-BB | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -130,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 BB (73) | 327.938986 Secs (327.939 Secs)<br>[==>] | [1]   |
|           | 7 |       | (77) M17-BB | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -260,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 BB (73) | 352.939501 Secs (352.94 Secs)<br>[==>]  | [1]   |
|           | 8 |       | (77) M17-BB | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -260,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 BB (73) | 252.937441 Secs (252.937 Secs)<br>[==>] | [1]   |
|           | 9 |       | (77) M17-BB | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -260,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 BB (73) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |

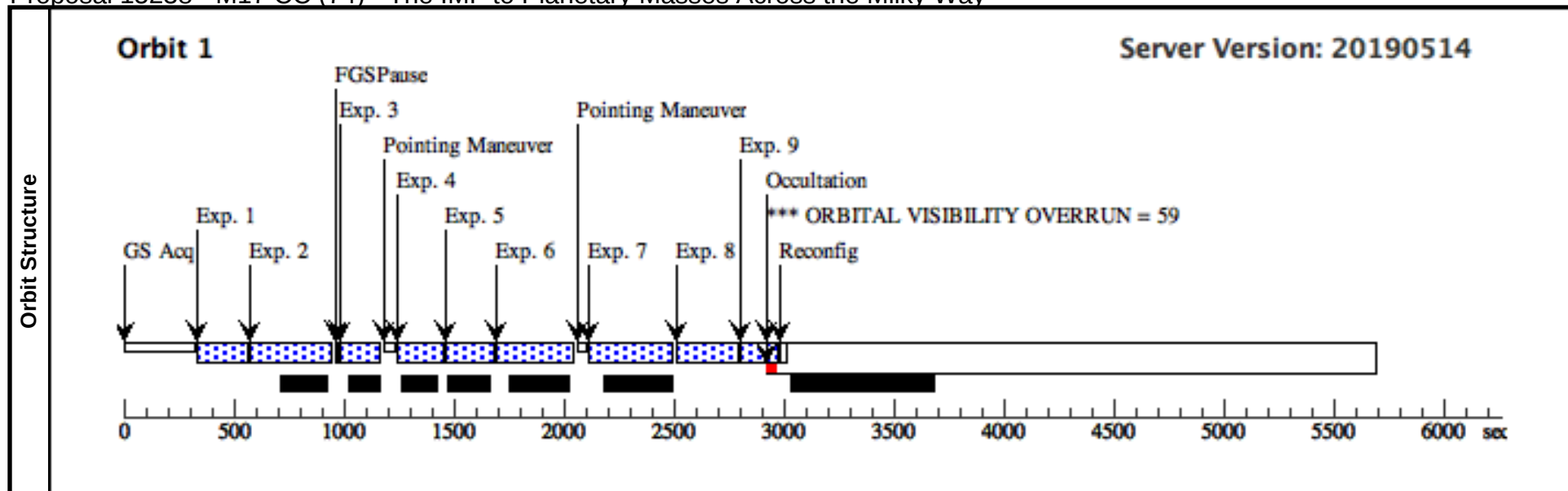


# Proposal 15238 - M17 CC (74) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                     |        |                                                                                                                                                                     |                          |           |                              |
|---------------|---------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------|------------------------------|
| Visit         | Proposal 15238, M17 CC (74), completed                              |        |                                                                                                                                                                     |                          |           | Tue Sep 10 16:05:20 GMT 2019 |
|               | Diagnostic Status: Warning                                          |        |                                                                                                                                                                     |                          |           |                              |
|               | Scientific Instruments: WFC3/IR                                     |        |                                                                                                                                                                     |                          |           |                              |
|               | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D                |        |                                                                                                                                                                     |                          |           |                              |
| Diagnostics   | (M17 CC (74)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |        |                                                                                                                                                                     |                          |           |                              |
|               | (M17 CC (74)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |        |                                                                                                                                                                     |                          |           |                              |
|               | (M17 CC (74)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |        |                                                                                                                                                                     |                          |           |                              |
|               | (M17 CC (74)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |        |                                                                                                                                                                     |                          |           |                              |
|               | (M17 CC (74)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |        |                                                                                                                                                                     |                          |           |                              |
|               | (M17 CC (74)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |        |                                                                                                                                                                     |                          |           |                              |
|               | (M17 CC (74)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |        |                                                                                                                                                                     |                          |           |                              |
| Fixed Targets | #                                                                   | Name   | Target Coordinates                                                                                                                                                  | Targ. Coord. Corrections | Fluxes    | Miscellaneous                |
|               | (78)                                                                | M17-CC | RA: 18 20 48.3087 (275.2012862d)<br><br>Dec: -16 05 30.78 (-16.09188d)<br><br>Equinox: J2000<br><br>Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                          | V=15+/-10 | Reference Frame: ICRS        |

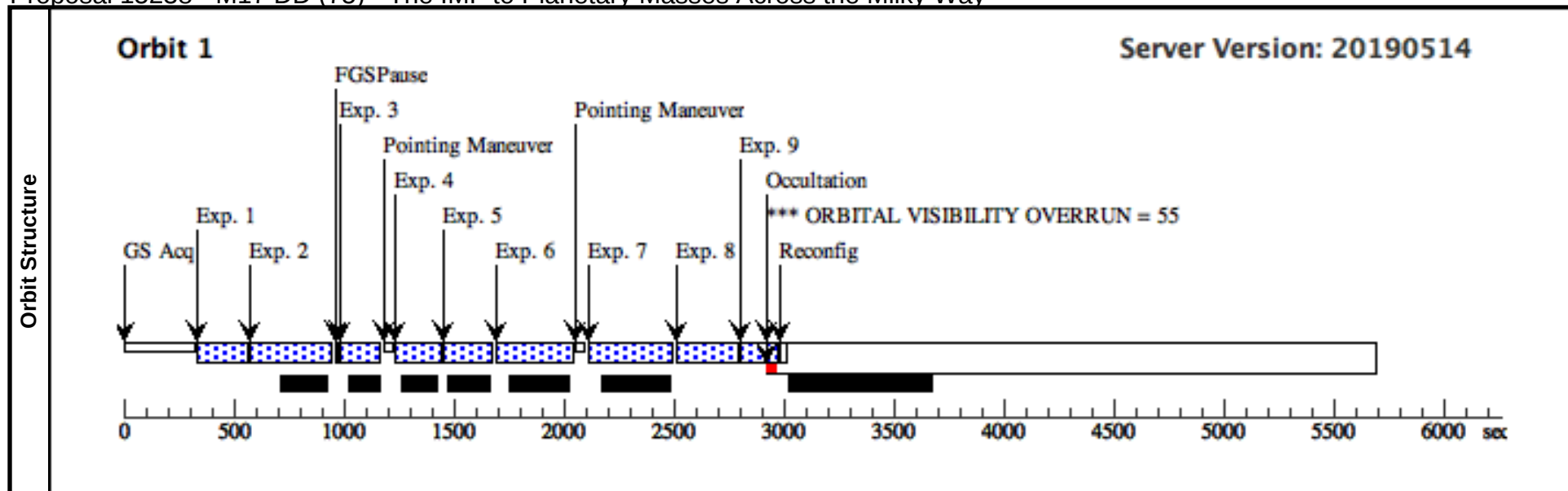
# Proposal 15238 - M17 CC (74) - The IMF to Planetary Masses Across the Milky Way

| Exposures | # | Label | Target      | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                                    | Groups                                  | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|---|-------|-------------|-----------------------------|---------------|-----------------------------------|--------------------------------------------------|-----------------------------------------|-----------------------------------------|-------|
|           | 1 |       | (78) M17-CC | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE           | Sequence 1-9 Non-In<br>t in M17 CC (74) | 202.934095 Secs (202.934 Secs)<br>[==>] | [1]   |
|           | 2 |       | (78) M17-CC | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE           | Sequence 1-9 Non-In<br>t in M17 CC (74) | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|           | 3 |       | (78) M17-CC | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO           | Sequence 1-9 Non-In<br>t in M17 CC (74) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |
|           | 4 |       | (78) M17-CC | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -130,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 CC (74) | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|           | 5 |       | (78) M17-CC | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -130,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 CC (74) | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|           | 6 |       | (78) M17-CC | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -130,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 CC (74) | 327.938986 Secs (327.939 Secs)<br>[==>] | [1]   |
|           | 7 |       | (78) M17-CC | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -260,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 CC (74) | 352.939501 Secs (352.94 Secs)<br>[==>]  | [1]   |
|           | 8 |       | (78) M17-CC | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -260,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 CC (74) | 252.937441 Secs (252.937 Secs)<br>[==>] | [1]   |
|           | 9 |       | (78) M17-CC | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -260,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 CC (74) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |



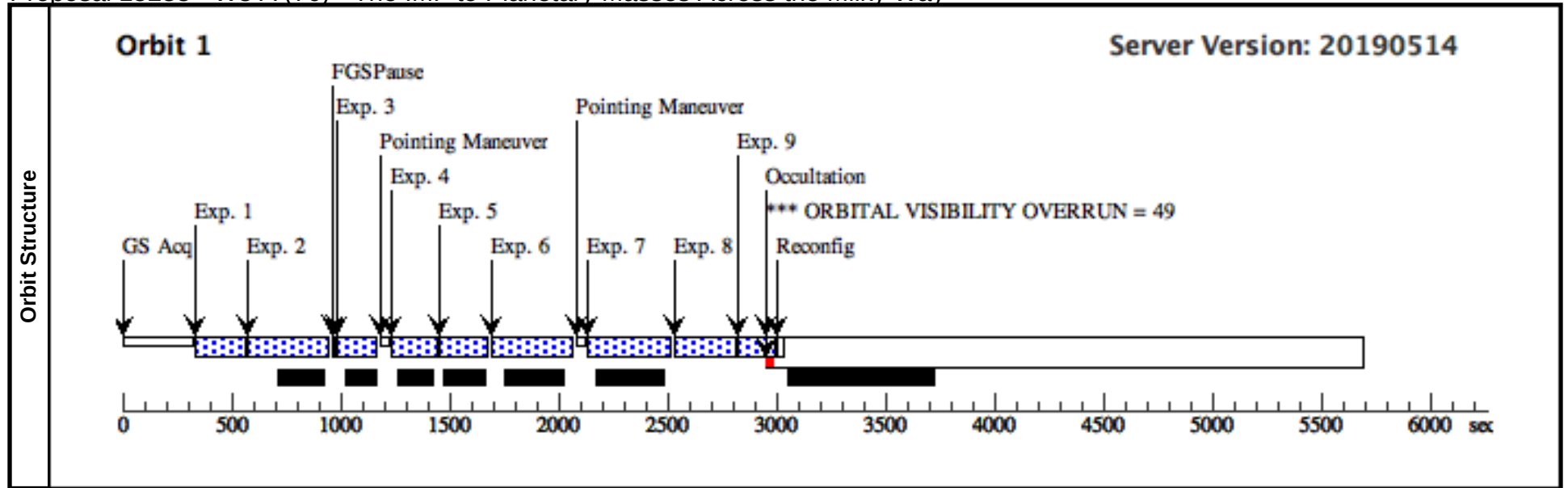
# Proposal 15238 - M17 DD (75) - The IMF to Planetary Masses Across the Milky Way

|                                                                 |                                                                     |       |             |                             |               |                                   |                                                  |                                         |                                         |               |                              |  |  |  |  |
|-----------------------------------------------------------------|---------------------------------------------------------------------|-------|-------------|-----------------------------|---------------|-----------------------------------|--------------------------------------------------|-----------------------------------------|-----------------------------------------|---------------|------------------------------|--|--|--|--|
| Visit                                                           | Proposal 15238, M17 DD (75), completed                              |       |             |                             |               |                                   |                                                  |                                         |                                         |               | Tue Sep 10 16:05:20 GMT 2019 |  |  |  |  |
|                                                                 | Diagnostic Status: Warning                                          |       |             |                             |               |                                   |                                                  |                                         |                                         |               |                              |  |  |  |  |
|                                                                 | Scientific Instruments: WFC3/IR                                     |       |             |                             |               |                                   |                                                  |                                         |                                         |               |                              |  |  |  |  |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 85D TO 85 D                |       |             |                             |               |                                   |                                                  |                                         |                                         |               |                              |  |  |  |  |
| Diagnostics                                                     | (M17 DD (75)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |             |                             |               |                                   |                                                  |                                         |                                         |               |                              |  |  |  |  |
|                                                                 | (M17 DD (75)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |             |                             |               |                                   |                                                  |                                         |                                         |               |                              |  |  |  |  |
|                                                                 | (M17 DD (75)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |             |                             |               |                                   |                                                  |                                         |                                         |               |                              |  |  |  |  |
|                                                                 | (M17 DD (75)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |             |                             |               |                                   |                                                  |                                         |                                         |               |                              |  |  |  |  |
|                                                                 | (M17 DD (75)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |             |                             |               |                                   |                                                  |                                         |                                         |               |                              |  |  |  |  |
|                                                                 | (M17 DD (75)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |             |                             |               |                                   |                                                  |                                         |                                         |               |                              |  |  |  |  |
|                                                                 | (M17 DD (75)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |             |                             |               |                                   |                                                  |                                         |                                         |               |                              |  |  |  |  |
| Fixed Targets                                                   |                                                                     |       |             |                             |               |                                   |                                                  |                                         |                                         |               |                              |  |  |  |  |
|                                                                 | #                                                                   | Name  |             | Target Coordinates          |               | Targ. Coord. Corrections          |                                                  | Fluxes                                  |                                         | Miscellaneous |                              |  |  |  |  |
| (79) M17-DD                                                     |                                                                     |       |             |                             |               |                                   |                                                  |                                         |                                         |               |                              |  |  |  |  |
| RA: 18 20 37.2487 (275.1552029d)                                |                                                                     |       |             |                             |               |                                   |                                                  |                                         |                                         |               |                              |  |  |  |  |
| Dec: -16 11 46.04 (-16.19612d)                                  |                                                                     |       |             |                             |               |                                   |                                                  |                                         |                                         |               |                              |  |  |  |  |
| Equinox: J2000                                                  |                                                                     |       |             |                             |               |                                   |                                                  |                                         |                                         |               |                              |  |  |  |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                     |       |             |                             |               |                                   |                                                  |                                         |                                         |               |                              |  |  |  |  |
| Exposures                                                       | #                                                                   | Label | Target      | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                                    | Groups                                  | Exp. Time (Total)/[Actual Dur.]         |               | Orbit                        |  |  |  |  |
|                                                                 | 1                                                                   |       | (79) M17-DD | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE           | Sequence 1-9 Non-In<br>t in M17 DD (75) | 202.934095 Secs (202.934 Secs)<br>[==>] |               | [1]                          |  |  |  |  |
|                                                                 | 2                                                                   |       | (79) M17-DD | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE           | Sequence 1-9 Non-In<br>t in M17 DD (75) | 352.935448 Secs (352.935 Secs)<br>[==>] |               | [1]                          |  |  |  |  |
|                                                                 | 3                                                                   |       | (79) M17-DD | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO           | Sequence 1-9 Non-In<br>t in M17 DD (75) | 152.935381 Secs (152.935 Secs)<br>[==>] |               | [1]                          |  |  |  |  |
|                                                                 | 4                                                                   |       | (79) M17-DD | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,-117;<br>EXP PCS MODE G<br>YRO        | Sequence 1-9 Non-In<br>t in M17 DD (75) | 177.935896 Secs (177.936 Secs)<br>[==>] |               | [1]                          |  |  |  |  |
|                                                                 | 5                                                                   |       | (79) M17-DD | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,-117;<br>EXP PCS MODE G<br>YRO        | Sequence 1-9 Non-In<br>t in M17 DD (75) | 202.936411 Secs (202.936 Secs)<br>[==>] |               | [1]                          |  |  |  |  |
|                                                                 | 6                                                                   |       | (79) M17-DD | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,-117;<br>EXP PCS MODE G<br>YRO        | Sequence 1-9 Non-In<br>t in M17 DD (75) | 327.938986 Secs (327.939 Secs)<br>[==>] |               | [1]                          |  |  |  |  |
|                                                                 | 7                                                                   |       | (79) M17-DD | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -130,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 DD (75) | 352.939501 Secs (352.94 Secs)<br>[==>]  |               | [1]                          |  |  |  |  |
|                                                                 | 8                                                                   |       | (79) M17-DD | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -130,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 DD (75) | 252.937441 Secs (252.937 Secs)<br>[==>] |               | [1]                          |  |  |  |  |
|                                                                 | 9                                                                   |       | (79) M17-DD | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -130,-11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in M17 DD (75) | 152.935381 Secs (152.935 Secs)<br>[==>] |               | [1]                          |  |  |  |  |



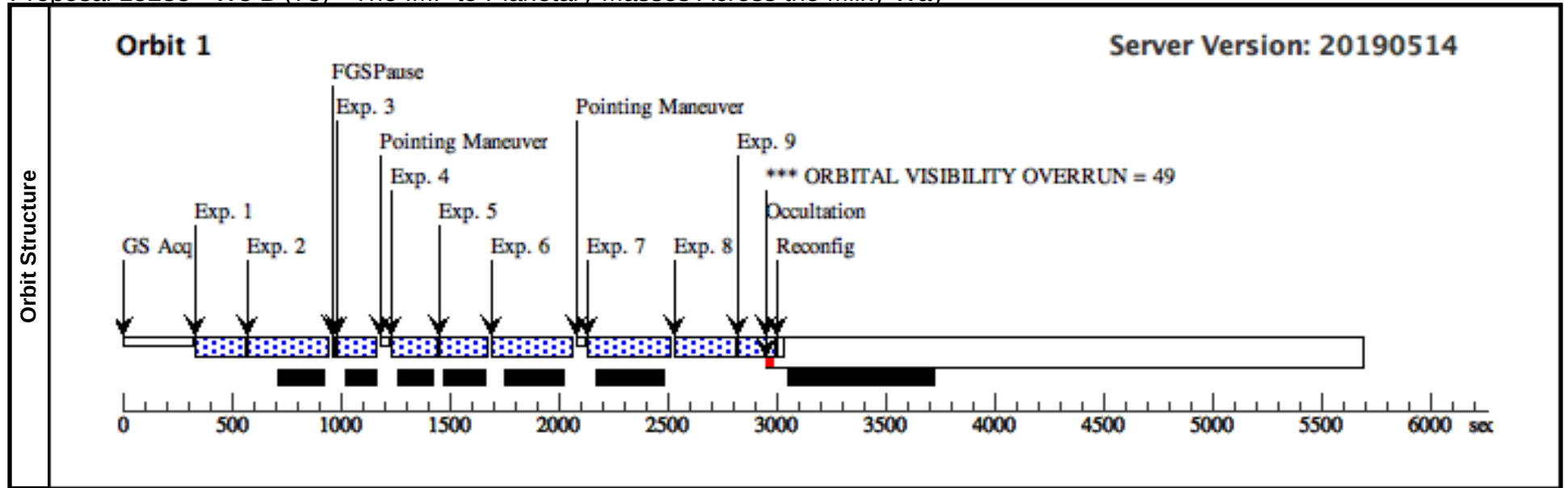
# Proposal 15238 - W3 A (76) - The IMF to Planetary Masses Across the Milky Way

| Visit                                                           | Proposal 15238, W3 A (76), completed                                                                                                                                                                                                                                                                                                     |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         | Tue Sep 10 16:05:20 GMT 2019 |       |  |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------|-----------------------------|-----------------------|-----------------------------------|------------------------------------------|---------------------------------------|-----------------------------------------|------------------------------|-------|--|---|------|--------------------|--------------------------|--------|---------------|------|------|-----------------------------------------------------------------------------------|--|-----------|-----------------------|
|                                                                 | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                               |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                          |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D                                                                                                                                                                                                                                                                                     |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
| Diagnostics                                                     | (W3 A (76)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                          |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | (W3 A (76)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                        |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | (W3 A (76)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                        |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | (W3 A (76)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                        |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | (W3 A (76)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                        |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | (W3 A (76)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                        |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | (W3 A (76)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                        |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
| Fixed Targets                                                   | <table><tr><th>#</th><th>Name</th><th>Target Coordinates</th><th>Targ. Coord. Corrections</th><th>Fluxes</th><th>Miscellaneous</th></tr><tr><td>(80)</td><td>W3-A</td><td>RA: 02 27 3.7122 (36.7654675d)<br/>Dec: +62 19 48.89 (62.33025d)<br/>Equinox: J2000</td><td></td><td>V=15+/-10</td><td>Reference Frame: ICRS</td></tr></table> |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |                              |       |  | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | (80) | W3-A | RA: 02 27 3.7122 (36.7654675d)<br>Dec: +62 19 48.89 (62.33025d)<br>Equinox: J2000 |  | V=15+/-10 | Reference Frame: ICRS |
|                                                                 | #                                                                                                                                                                                                                                                                                                                                        | Name                                                                              | Target Coordinates | Targ. Coord. Corrections    | Fluxes                | Miscellaneous                     |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
| (80)                                                            | W3-A                                                                                                                                                                                                                                                                                                                                     | RA: 02 27 3.7122 (36.7654675d)<br>Dec: +62 19 48.89 (62.33025d)<br>Equinox: J2000 |                    | V=15+/-10                   | Reference Frame: ICRS |                                   |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                                                                                                                                                                                                                                                                                          |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
| Exposures                                                       | #                                                                                                                                                                                                                                                                                                                                        | Label                                                                             | Target             | Config,Mode,Aperture        | Spectral Els.         | Opt. Params.                      | Special Reqs.                            | Groups                                | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |  |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | 1                                                                                                                                                                                                                                                                                                                                        |                                                                                   | (80) W3-A          | WFC3/IR, MULTIACCUM, IR-FIX | F110W                 | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 A (76) | 202.934095 Secs (202.934 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | 2                                                                                                                                                                                                                                                                                                                                        |                                                                                   | (80) W3-A          | WFC3/IR, MULTIACCUM, IR-FIX | F139M                 | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 A (76) | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | 3                                                                                                                                                                                                                                                                                                                                        |                                                                                   | (80) W3-A          | WFC3/IR, MULTIACCUM, IR-FIX | F160W                 | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in W3 A (76) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | 4                                                                                                                                                                                                                                                                                                                                        |                                                                                   | (80) W3-A          | WFC3/IR, MULTIACCUM, IR-FIX | F160W                 | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 A (76) | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | 5                                                                                                                                                                                                                                                                                                                                        |                                                                                   | (80) W3-A          | WFC3/IR, MULTIACCUM, IR-FIX | F110W                 | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 A (76) | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | 6                                                                                                                                                                                                                                                                                                                                        |                                                                                   | (80) W3-A          | WFC3/IR, MULTIACCUM, IR-FIX | F139M                 | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 A (76) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | 7                                                                                                                                                                                                                                                                                                                                        |                                                                                   | (80) W3-A          | WFC3/IR, MULTIACCUM, IR-FIX | F139M                 | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 A (76) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | 8                                                                                                                                                                                                                                                                                                                                        |                                                                                   | (80) W3-A          | WFC3/IR, MULTIACCUM, IR-FIX | F110W                 | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 A (76) | 252.937441 Secs (252.937 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | 9                                                                                                                                                                                                                                                                                                                                        |                                                                                   | (80) W3-A          | WFC3/IR, MULTIACCUM, IR-FIX | F160W                 | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 A (76) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |



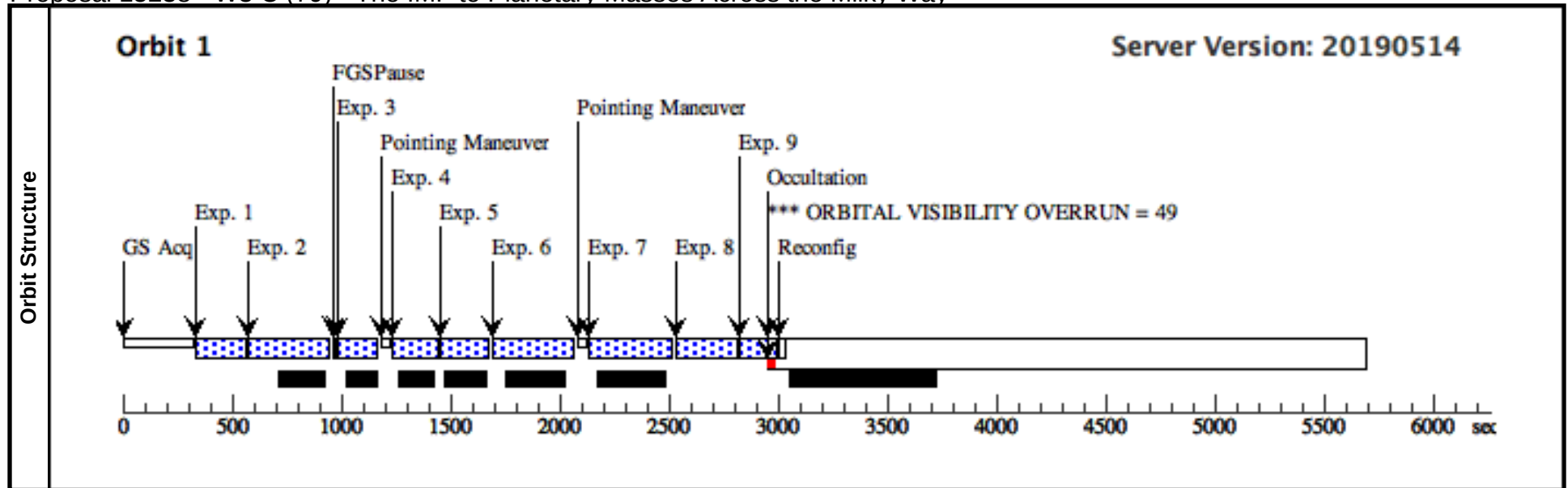
# Proposal 15238 - W3 B (78) - The IMF to Planetary Masses Across the Milky Way

|                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |                              |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|------------------------------|--|--|
| Visit                                                                                                                                                                                                                                                                                                                       | Proposal 15238, W3 B (78), completed                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:20 GMT 2019 |  |  |
|                                                                                                                                                                                                                                                                                                                             | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                             | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                             | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |                              |  |  |
| Diagnostics                                                                                                                                                                                                                                                                                                                 | (W3 B (78)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                             | (W3 B (78)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                             | (W3 B (78)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                             | (W3 B (78)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                             | (W3 B (78)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                             | (W3 B (78)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                             | (W3 B (78)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |                              |  |  |
| Fixed Targets                                                                                                                                                                                                                                                                                                               | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                                                                                                                           |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                             | (81)                      W3-B                      RA: 02 26 26.6823 (36.6111763d)                                           V=15+/-10                      Reference Frame: ICRS                                                                                                                                         |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                             | Dec: +62 21 1.81 (62.35050d)                                                                                                                                                                                                                                                                                               |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                             | Equinox: J2000                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |                              |  |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |                              |  |  |
| Exposures                                                                                                                                                                                                                                                                                                                   | #                      Label                      Target                      Config,Mode,Aperture                      Spectral Els.                      Opt. Params.                      Special Reqs.                      Groups                      Exp. Time (Total)/[Actual Dur.]                      Orbit     |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                             | 1                                           (81) W3-B                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=5;                      POS TARG 0,0;                      Sequence 1-9 Non-In                      202.934095 Secs (202.934 Secs)                      [1]   |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                             | SAMP-SEQ=SPAR                      EXP PCS MODE FI                      t in W3 B (78)                      [==>]                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                             | S50                      NE                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                             | 2                                           (81) W3-B                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=8;                      POS TARG 0,0;                      Sequence 1-9 Non-In                      352.935448 Secs (352.935 Secs)                      [1]   |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                             | SAMP-SEQ=SPAR                      EXP PCS MODE FI                      t in W3 B (78)                      [==>]                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                             | S50                      NE                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                             | 3                                           (81) W3-B                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;                      POS TARG 0,0;                      Sequence 1-9 Non-In                      152.935381 Secs (152.935 Secs)                      [1]   |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                             | SAMP-SEQ=SPAR                      EXP PCS MODE G                      t in W3 B (78)                      [==>]                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                             | S25                      YRO                                                                                                                                                                                                                                                                                               |  |  |  |  |  |  |  |  |                              |  |  |
|                                                                                                                                                                                                                                                                                                                             | 4                                           (81) W3-B                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=8;                      POS TARG 0,117;                      Sequence 1-9 Non-In                      177.935896 Secs (177.936 Secs)                      [1] |  |  |  |  |  |  |  |  |                              |  |  |
| SAMP-SEQ=SPAR                      EXP PCS MODE G                      t in W3 B (78)                      [==>]                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |                              |  |  |
| S25                      YRO                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |                              |  |  |
| 5                                           (81) W3-B                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=9;                      POS TARG 0,117;                      Sequence 1-9 Non-In                      202.936411 Secs (202.936 Secs)                      [1]  |                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |                              |  |  |
| SAMP-SEQ=SPAR                      EXP PCS MODE G                      t in W3 B (78)                      [==>]                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |                              |  |  |
| S25                      YRO                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |                              |  |  |
| 6                                           (81) W3-B                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=15;                      POS TARG 0,117;                      Sequence 1-9 Non-In                      352.939501 Secs (352.94 Secs)                      [1]  |                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |                              |  |  |
| SAMP-SEQ=SPAR                      EXP PCS MODE G                      t in W3 B (78)                      [==>]                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |                              |  |  |
| S25                      YRO                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |                              |  |  |
| 7                                           (81) W3-B                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=15;                      POS TARG 0,234;                      Sequence 1-9 Non-In                      352.939501 Secs (352.94 Secs)                      [1]  |                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |                              |  |  |
| SAMP-SEQ=SPAR                      EXP PCS MODE G                      t in W3 B (78)                      [==>]                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |                              |  |  |
| S25                      YRO                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |                              |  |  |
| 8                                           (81) W3-B                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=11;                      POS TARG 0,234;                      Sequence 1-9 Non-In                      252.937441 Secs (252.937 Secs)                      [1] |                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |                              |  |  |
| SAMP-SEQ=SPAR                      EXP PCS MODE G                      t in W3 B (78)                      [==>]                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |                              |  |  |
| S25                      YRO                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |                              |  |  |
| 9                                           (81) W3-B                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;                      POS TARG 0,234;                      Sequence 1-9 Non-In                      152.935381 Secs (152.935 Secs)                      [1]  |                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |                              |  |  |
| SAMP-SEQ=SPAR                      EXP PCS MODE G                      t in W3 B (78)                      [==>]                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |                              |  |  |
| S25                      YRO                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |                              |  |  |



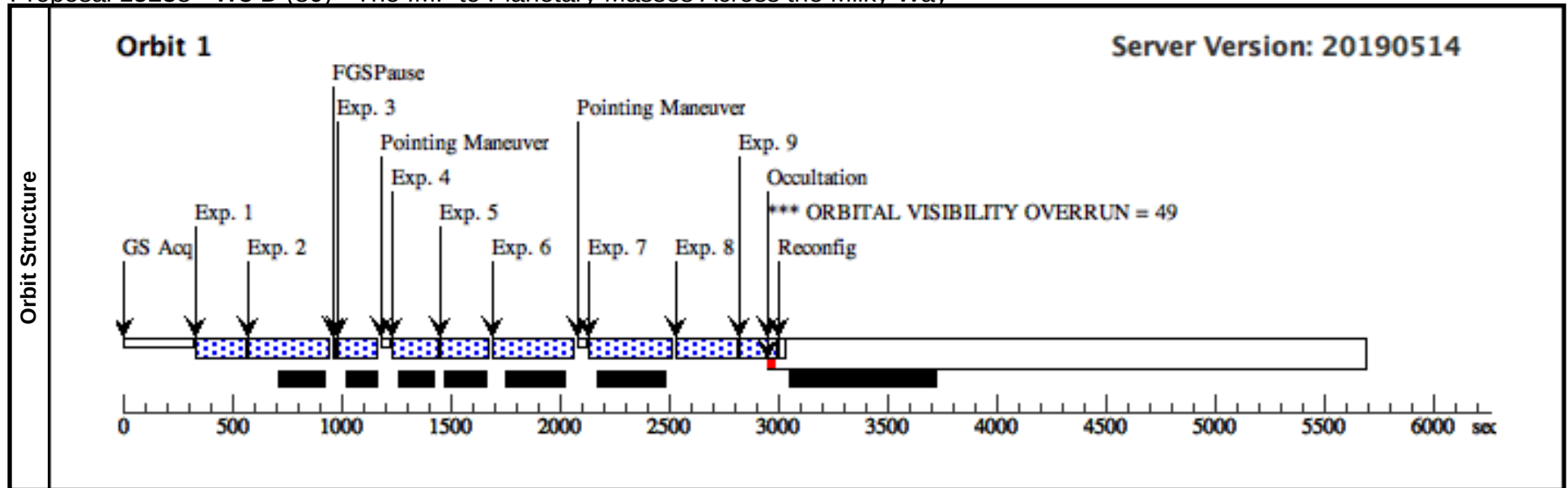
# Proposal 15238 - W3 C (79) - The IMF to Planetary Masses Across the Milky Way

|                                                                 |                                                                   |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|-----------------------------------------------------------------|-------------------------------------------------------------------|-------|--------------------|-----------------------------|---------------|-----------------------------------|------------------------------------------|---------------------------------------|-----------------------------------------|------------------------------|-------|--|
| Visit                                                           | Proposal 15238, W3 C (79), completed                              |       |                    |                             |               |                                   |                                          |                                       |                                         | Tue Sep 10 16:05:20 GMT 2019 |       |  |
|                                                                 | Diagnostic Status: Warning                                        |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                 | Scientific Instruments: WFC3/IR                                   |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D              |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Diagnostics                                                     | (W3 C (79)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                 | (W3 C (79)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                 | (W3 C (79)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                 | (W3 C (79)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                 | (W3 C (79)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                 | (W3 C (79)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                 | (W3 C (79)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Fixed Targets                                                   |                                                                   |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                 | #                                                                 | Name  | Target Coordinates |                             |               | Targ. Coord. Corrections          |                                          | Fluxes                                |                                         | Miscellaneous                |       |  |
| (82) W3-C                                                       |                                                                   |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| RA: 02 27 2.9380 (36.7622417d)                                  |                                                                   |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Dec: +62 16 55.47 (62.28207d)                                   |                                                                   |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Equinox: J2000                                                  |                                                                   |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                   |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Exposures                                                       | #                                                                 | Label | Target             | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |  |
|                                                                 | 1                                                                 |       | (82) W3-C          | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 C (79) | 202.934095 Secs (202.934 Secs)<br>[==>] |                              | [1]   |  |
|                                                                 | 2                                                                 |       | (82) W3-C          | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 C (79) | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |  |
|                                                                 | 3                                                                 |       | (82) W3-C          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in W3 C (79) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |
|                                                                 | 4                                                                 |       | (82) W3-C          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 C (79) | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |  |
|                                                                 | 5                                                                 |       | (82) W3-C          | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 C (79) | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |  |
|                                                                 | 6                                                                 |       | (82) W3-C          | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 C (79) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|                                                                 | 7                                                                 |       | (82) W3-C          | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 C (79) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|                                                                 | 8                                                                 |       | (82) W3-C          | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 C (79) | 252.937441 Secs (252.937 Secs)<br>[==>] |                              | [1]   |  |
|                                                                 | 9                                                                 |       | (82) W3-C          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 C (79) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |



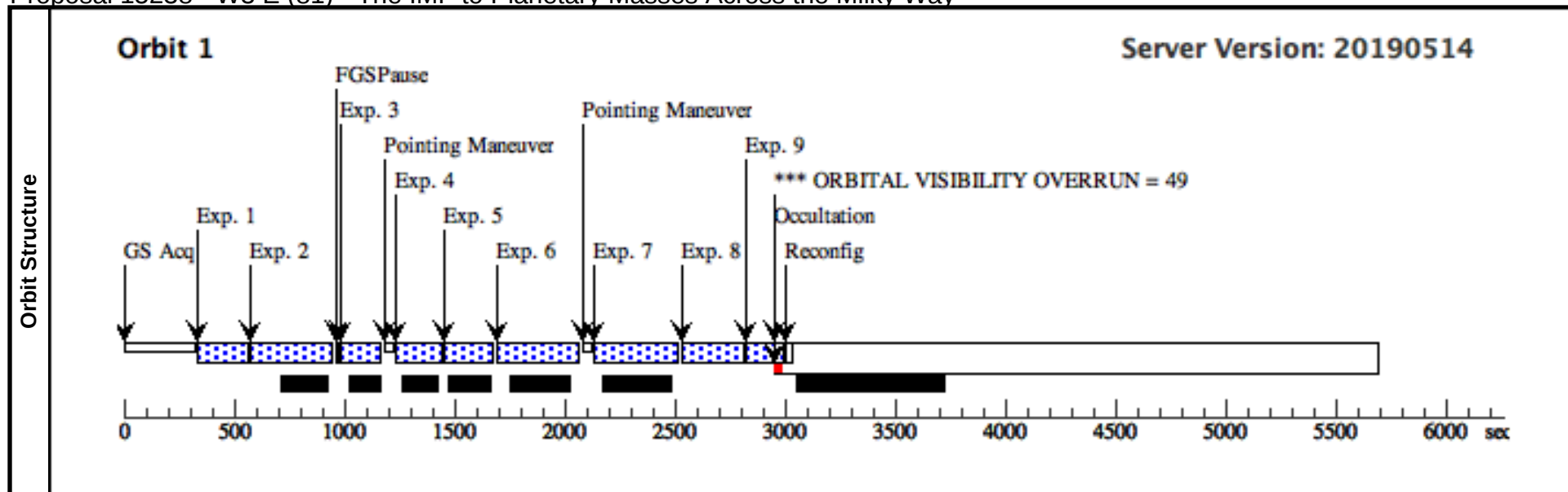
# Proposal 15238 - W3 D (80) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                   |  |  |  |  |  |  |  |  |                              |  |  |
|---------------|-------------------------------------------------------------------|--|--|--|--|--|--|--|--|------------------------------|--|--|
| Visit         | Proposal 15238, W3 D (80), completed                              |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:20 GMT 2019 |  |  |
|               | Diagnostic Status: Warning                                        |  |  |  |  |  |  |  |  |                              |  |  |
|               | Scientific Instruments: WFC3/IR                                   |  |  |  |  |  |  |  |  |                              |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D              |  |  |  |  |  |  |  |  |                              |  |  |
| Diagnostics   | (W3 D (80)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |                              |  |  |
|               | (W3 D (80)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (W3 D (80)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (W3 D (80)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (W3 D (80)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (W3 D (80)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (W3 D (80)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
| Fixed Targets | #            Name                                                 |  |  |  |  |  |  |  |  |                              |  |  |



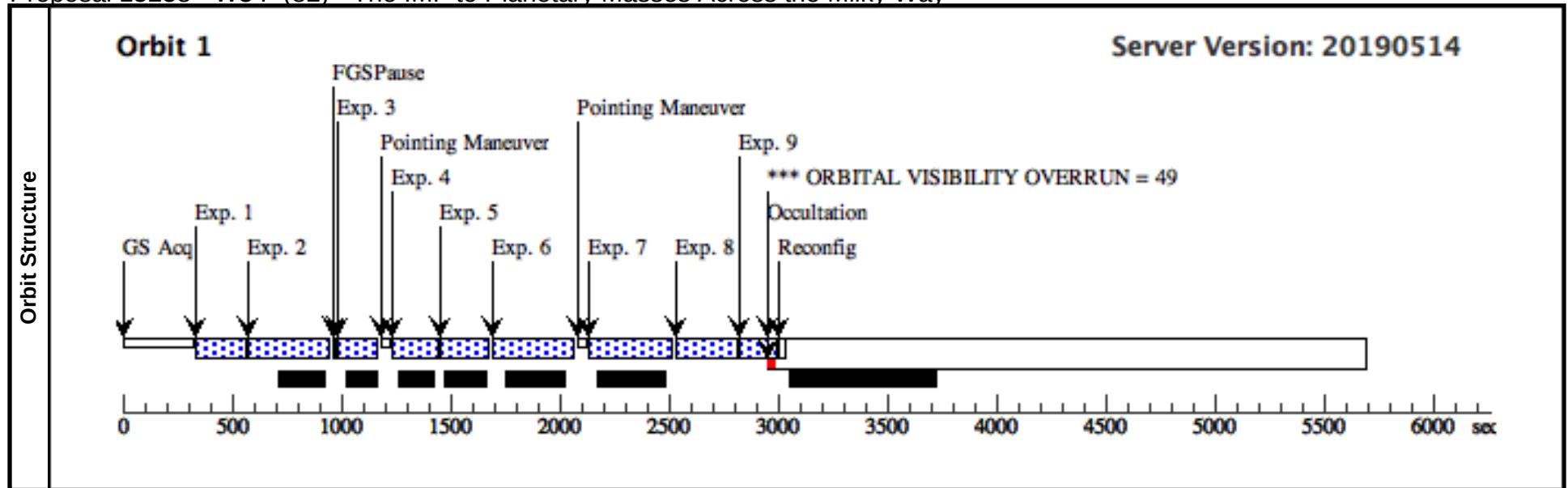
# Proposal 15238 - W3 E (81) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|---------------|-------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, W3 E (81), completed                              |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:20 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D              |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics   | (W3 E (81)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (W3 E (81)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (W3 E (81)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (W3 E (81)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (W3 E (81)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (W3 E (81)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (W3 E (81)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets | #            Name                                                 |  |  |  |  |  |  |  |  |  |                              |  |  |  |



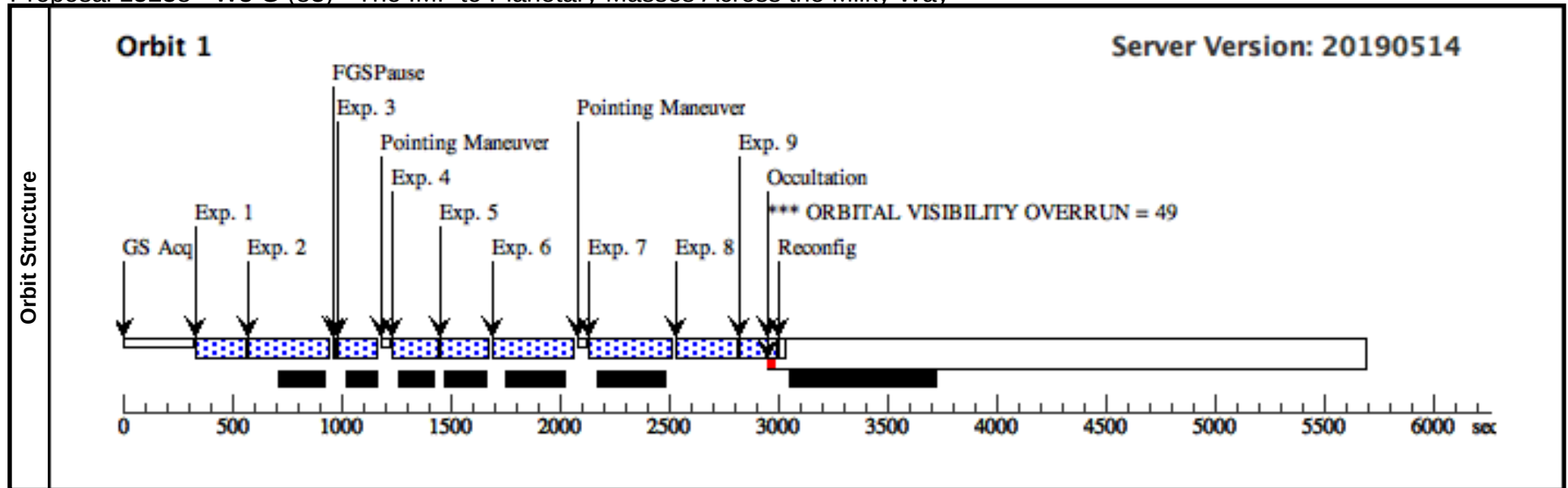
# Proposal 15238 - W3 F (82) - The IMF to Planetary Masses Across the Milky Way

|                                                                                                                                                                                     |                                                                   |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-------|--------------------|-----------------------------|---------------|-----------------------------------|------------------------------------------|---------------------------------------|-----------------------------------------|------------------------------|-------|--|
| Visit                                                                                                                                                                               | Proposal 15238, W3 F (82), completed                              |       |                    |                             |               |                                   |                                          |                                       |                                         | Tue Sep 10 16:05:20 GMT 2019 |       |  |
|                                                                                                                                                                                     | Diagnostic Status: Warning                                        |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                                                                                                                                     | Scientific Instruments: WFC3/IR                                   |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                                                                                                                                     | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D              |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Diagnostics                                                                                                                                                                         | (W3 F (82)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                                                                                                                                     | (W3 F (82)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                                                                                                                                     | (W3 F (82)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                                                                                                                                     | (W3 F (82)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                                                                                                                                     | (W3 F (82)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                                                                                                                                     | (W3 F (82)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                                                                                                                                     | (W3 F (82)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Fixed Targets                                                                                                                                                                       |                                                                   |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                                                                                                                                     | #                                                                 | Name  | Target Coordinates |                             |               | Targ. Coord. Corrections          |                                          | Fluxes                                |                                         | Miscellaneous                |       |  |
| <div>(85)W3-FRA: 02 26 0.1449 (36.5006038d)<br/>Dec: +62 17 59.81 (62.29995d)<br/>Equinox: J2000</div> <div>Comments:<br/>Category=EXT-CLUSTER<br/>Description=[OPEN CLUSTER]</div> |                                                                   |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Exposures                                                                                                                                                                           | #                                                                 | Label | Target             | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |  |
|                                                                                                                                                                                     | 1                                                                 |       | (85) W3-F          | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 F (82) | 202.934095 Secs (202.934 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                     | 2                                                                 |       | (85) W3-F          | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 F (82) | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                     | 3                                                                 |       | (85) W3-F          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in W3 F (82) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                     | 4                                                                 |       | (85) W3-F          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 F (82) | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                     | 5                                                                 |       | (85) W3-F          | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 F (82) | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                     | 6                                                                 |       | (85) W3-F          | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 F (82) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|                                                                                                                                                                                     | 7                                                                 |       | (85) W3-F          | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 F (82) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|                                                                                                                                                                                     | 8                                                                 |       | (85) W3-F          | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 F (82) | 252.937441 Secs (252.937 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                     | 9                                                                 |       | (85) W3-F          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 F (82) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |



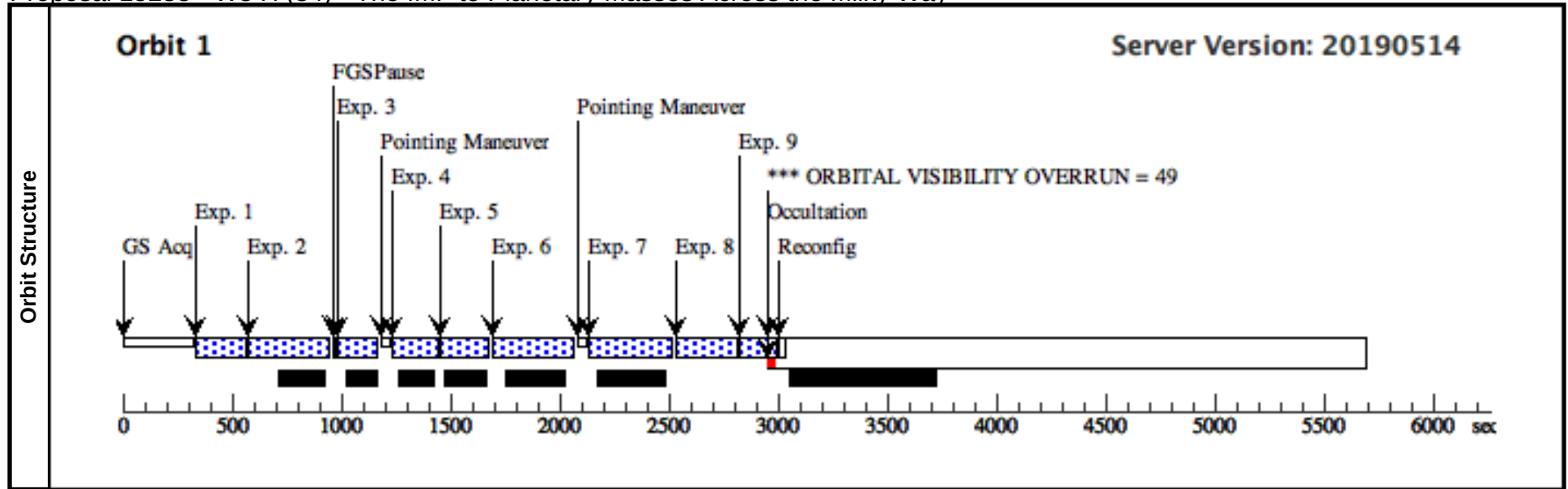
# Proposal 15238 - W3 G (83) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                   |  |  |  |  |  |  |  |  |                              |  |  |
|---------------|-------------------------------------------------------------------|--|--|--|--|--|--|--|--|------------------------------|--|--|
| Visit         | Proposal 15238, W3 G (83), completed                              |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:20 GMT 2019 |  |  |
|               | Diagnostic Status: Warning                                        |  |  |  |  |  |  |  |  |                              |  |  |
|               | Scientific Instruments: WFC3/IR                                   |  |  |  |  |  |  |  |  |                              |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D              |  |  |  |  |  |  |  |  |                              |  |  |
| Diagnostics   | (W3 G (83)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |                              |  |  |
|               | (W3 G (83)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (W3 G (83)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (W3 G (83)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (W3 G (83)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (W3 G (83)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (W3 G (83)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
| Fixed Targets | #            Name                                                 |  |  |  |  |  |  |  |  |                              |  |  |



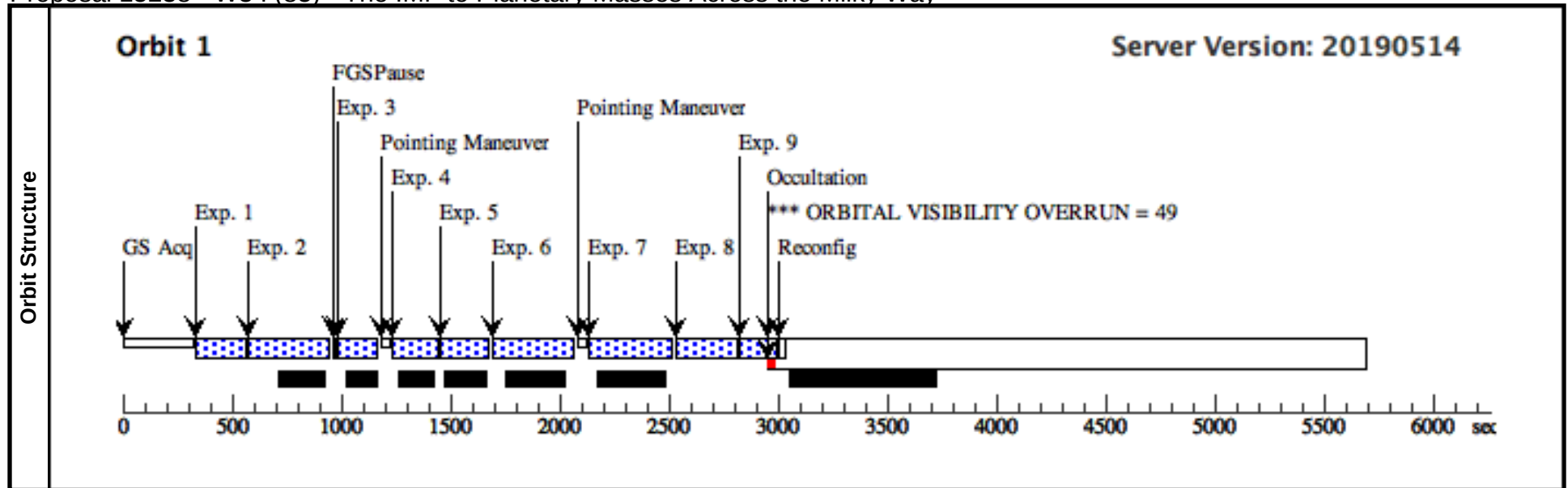
# Proposal 15238 - W3 H (84) - The IMF to Planetary Masses Across the Milky Way

| Visit                                                           | Proposal 15238, W3 H (84), completed                                                                                                                                                                                                                                                                                                     |                                                                                   |                    |                             |                       |                                   |                                          |                                       | Tue Sep 10 16:05:20 GMT 2019            |       |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------|-----------------------------|-----------------------|-----------------------------------|------------------------------------------|---------------------------------------|-----------------------------------------|-------|---|------|--------------------|--------------------------|--------|---------------|------|------|-----------------------------------------------------------------------------------|--|-----------|-----------------------|
|                                                                 | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                               |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |       |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                          |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |       |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D                                                                                                                                                                                                                                                                                     |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |       |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
| Diagnostics                                                     | (W3 H (84)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                          |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |       |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | (W3 H (84)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                        |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |       |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | (W3 H (84)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                        |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |       |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | (W3 H (84)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                        |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |       |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | (W3 H (84)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                        |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |       |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | (W3 H (84)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                        |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |       |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | (W3 H (84)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                        |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |       |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
| Fixed Targets                                                   | <table><tr><th>#</th><th>Name</th><th>Target Coordinates</th><th>Targ. Coord. Corrections</th><th>Fluxes</th><th>Miscellaneous</th></tr><tr><td>(87)</td><td>W3-H</td><td>RA: 02 25 58.9296 (36.4955400d)<br/>Dec: +62 15 8.02 (62.25223d)<br/>Equinox: J2000</td><td></td><td>V=15+/-10</td><td>Reference Frame: ICRS</td></tr></table> |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |       | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | (87) | W3-H | RA: 02 25 58.9296 (36.4955400d)<br>Dec: +62 15 8.02 (62.25223d)<br>Equinox: J2000 |  | V=15+/-10 | Reference Frame: ICRS |
|                                                                 | #                                                                                                                                                                                                                                                                                                                                        | Name                                                                              | Target Coordinates | Targ. Coord. Corrections    | Fluxes                | Miscellaneous                     |                                          |                                       |                                         |       |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
| (87)                                                            | W3-H                                                                                                                                                                                                                                                                                                                                     | RA: 02 25 58.9296 (36.4955400d)<br>Dec: +62 15 8.02 (62.25223d)<br>Equinox: J2000 |                    | V=15+/-10                   | Reference Frame: ICRS |                                   |                                          |                                       |                                         |       |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                                                                                                                                                                                                                                                                                          |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |       |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
| Exposures                                                       | #                                                                                                                                                                                                                                                                                                                                        | Label                                                                             | Target             | Config,Mode,Aperture        | Spectral Els.         | Opt. Params.                      | Special Reqs.                            | Groups                                | Exp. Time (Total)/[Actual Dur.]         | Orbit |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | 1                                                                                                                                                                                                                                                                                                                                        |                                                                                   | (87) W3-H          | WFC3/IR, MULTIACCUM, IR-FIX | F110W                 | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 H (84) | 202.934095 Secs (202.934 Secs)<br>[==>] | [1]   |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | 2                                                                                                                                                                                                                                                                                                                                        |                                                                                   | (87) W3-H          | WFC3/IR, MULTIACCUM, IR-FIX | F139M                 | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 H (84) | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | 3                                                                                                                                                                                                                                                                                                                                        |                                                                                   | (87) W3-H          | WFC3/IR, MULTIACCUM, IR-FIX | F160W                 | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in W3 H (84) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | 4                                                                                                                                                                                                                                                                                                                                        |                                                                                   | (87) W3-H          | WFC3/IR, MULTIACCUM, IR-FIX | F160W                 | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 H (84) | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | 5                                                                                                                                                                                                                                                                                                                                        |                                                                                   | (87) W3-H          | WFC3/IR, MULTIACCUM, IR-FIX | F110W                 | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 H (84) | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | 6                                                                                                                                                                                                                                                                                                                                        |                                                                                   | (87) W3-H          | WFC3/IR, MULTIACCUM, IR-FIX | F139M                 | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 H (84) | 352.939501 Secs (352.94 Secs)<br>[==>]  | [1]   |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | 7                                                                                                                                                                                                                                                                                                                                        |                                                                                   | (87) W3-H          | WFC3/IR, MULTIACCUM, IR-FIX | F139M                 | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 H (84) | 352.939501 Secs (352.94 Secs)<br>[==>]  | [1]   |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | 8                                                                                                                                                                                                                                                                                                                                        |                                                                                   | (87) W3-H          | WFC3/IR, MULTIACCUM, IR-FIX | F110W                 | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 H (84) | 252.937441 Secs (252.937 Secs)<br>[==>] | [1]   |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |
|                                                                 | 9                                                                                                                                                                                                                                                                                                                                        |                                                                                   | (87) W3-H          | WFC3/IR, MULTIACCUM, IR-FIX | F160W                 | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 H (84) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |   |      |                    |                          |        |               |      |      |                                                                                   |  |           |                       |



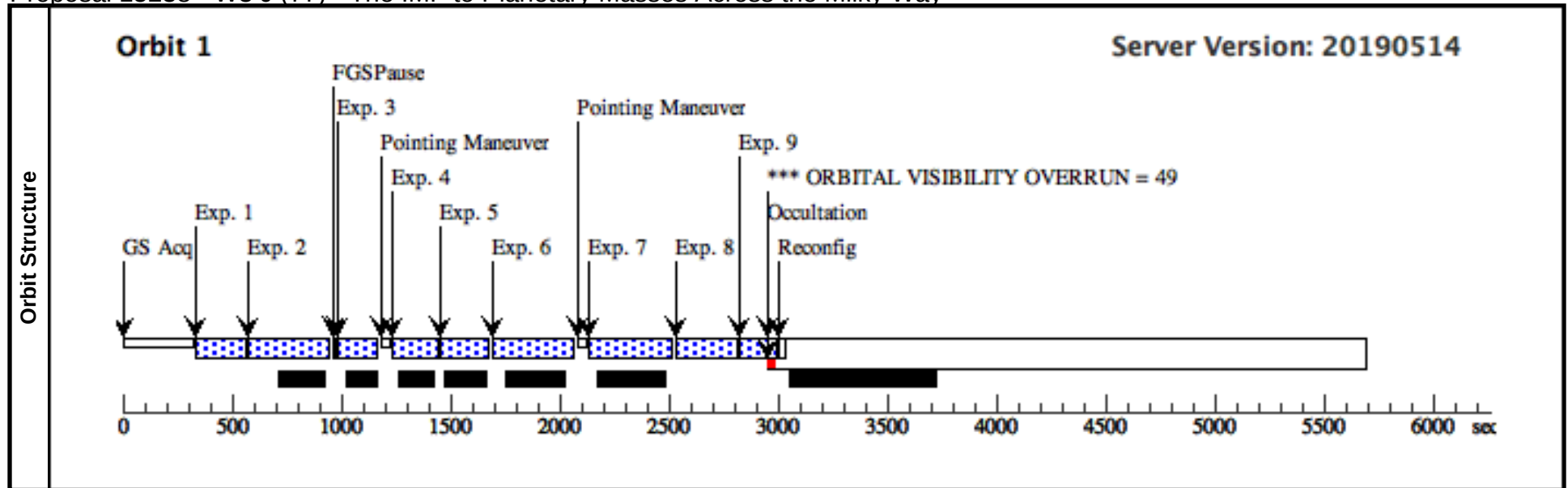
# Proposal 15238 - W3 I (85) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                   |       |                                                                                   |                             |                          |                                   |                                          |                                       |                                         |  |                              |  |
|---------------|-------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------|-----------------------------|--------------------------|-----------------------------------|------------------------------------------|---------------------------------------|-----------------------------------------|--|------------------------------|--|
| Visit         | Proposal 15238, W3 I (85), completed                              |       |                                                                                   |                             |                          |                                   |                                          |                                       |                                         |  | Tue Sep 10 16:05:20 GMT 2019 |  |
|               | Diagnostic Status: Warning                                        |       |                                                                                   |                             |                          |                                   |                                          |                                       |                                         |  |                              |  |
|               | Scientific Instruments: WFC3/IR                                   |       |                                                                                   |                             |                          |                                   |                                          |                                       |                                         |  |                              |  |
|               | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D              |       |                                                                                   |                             |                          |                                   |                                          |                                       |                                         |  |                              |  |
| Diagnostics   | (W3 I (85)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                                                                                   |                             |                          |                                   |                                          |                                       |                                         |  |                              |  |
|               | (W3 I (85)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                   |                             |                          |                                   |                                          |                                       |                                         |  |                              |  |
|               | (W3 I (85)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                   |                             |                          |                                   |                                          |                                       |                                         |  |                              |  |
|               | (W3 I (85)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                   |                             |                          |                                   |                                          |                                       |                                         |  |                              |  |
|               | (W3 I (85)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                   |                             |                          |                                   |                                          |                                       |                                         |  |                              |  |
|               | (W3 I (85)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                   |                             |                          |                                   |                                          |                                       |                                         |  |                              |  |
|               | (W3 I (85)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                   |                             |                          |                                   |                                          |                                       |                                         |  |                              |  |
| Fixed Targets |                                                                   |       |                                                                                   |                             |                          |                                   |                                          |                                       |                                         |  |                              |  |
|               | #                                                                 | Name  | Target Coordinates                                                                |                             | Targ. Coord. Corrections |                                   | Fluxes                                   |                                       | Miscellaneous                           |  |                              |  |
|               | (88)                                                              | W3-I  | RA: 02 26 34.5313 (36.6438804d)<br>Dec: +62 11 2.15 (62.18393d)<br>Equinox: J2000 |                             |                          |                                   | V=15+/-10                                |                                       | Reference Frame: ICRS                   |  |                              |  |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]   |       |                                                                                   |                             |                          |                                   |                                          |                                       |                                         |  |                              |  |
| Exposures     | #                                                                 | Label | Target                                                                            | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.                      | Special Reqs.                            | Groups                                | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |
|               | 1                                                                 |       | (88) W3-I                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F110W                    | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 I (85) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |
|               | 2                                                                 |       | (88) W3-I                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F139M                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 I (85) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |
|               | 3                                                                 |       | (88) W3-I                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in W3 I (85) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |
|               | 4                                                                 |       | (88) W3-I                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 I (85) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |
|               | 5                                                                 |       | (88) W3-I                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F110W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 I (85) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |
|               | 6                                                                 |       | (88) W3-I                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F139M                    | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 I (85) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |
|               | 7                                                                 |       | (88) W3-I                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F139M                    | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 I (85) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |
|               | 8                                                                 |       | (88) W3-I                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F110W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 I (85) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |
|               | 9                                                                 |       | (88) W3-I                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 I (85) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |



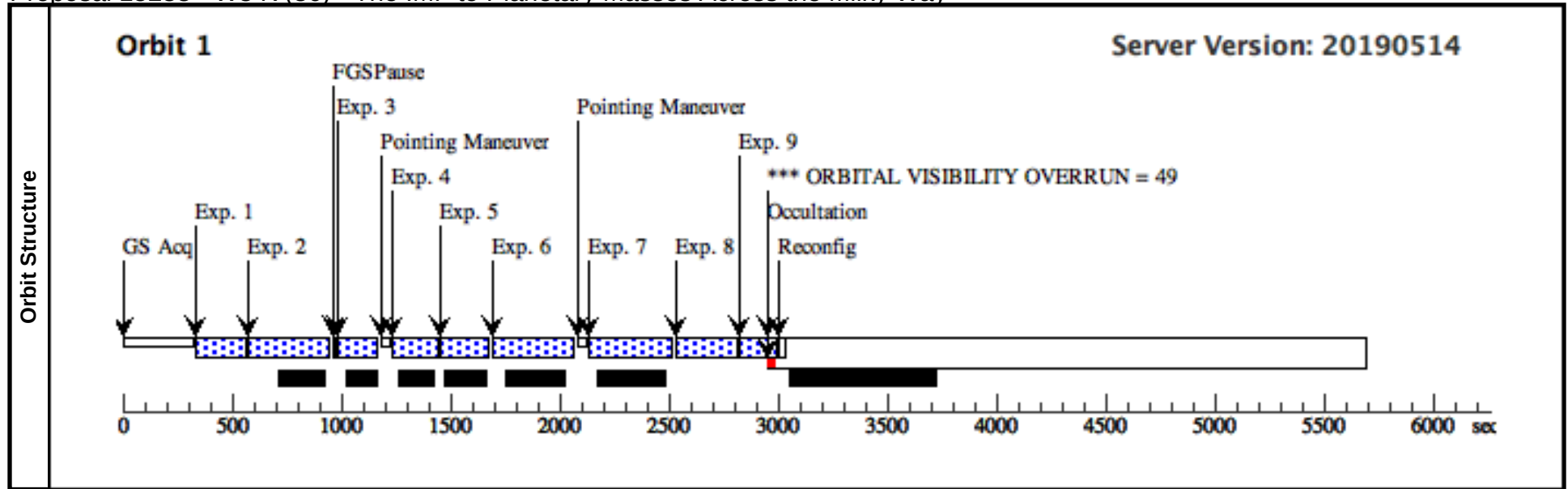
# Proposal 15238 - W3 J (77) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                   |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |  |                              |  |  |  |
|---------------|-------------------------------------------------------------------|-------|------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------------------|---------------------------------------|-----------------------------------------|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, W3 J (77), completed                              |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |  | Tue Sep 10 16:05:20 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                        |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                   |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D              |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |  |                              |  |  |  |
| Diagnostics   | (W3 J (77)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |  |                              |  |  |  |
|               | (W3 J (77)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |  |                              |  |  |  |
|               | (W3 J (77)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |  |                              |  |  |  |
|               | (W3 J (77)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |  |                              |  |  |  |
|               | (W3 J (77)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |  |                              |  |  |  |
|               | (W3 J (77)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |  |                              |  |  |  |
|               | (W3 J (77)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |  |                              |  |  |  |
| Fixed Targets | #                                                                 | Name  | Target Coordinates                                                                 |                             |               | Targ. Coord. Corrections          |                                          |                                       | Fluxes                                  |  | Miscellaneous                |  |  |  |
|               | (89)                                                              | W3-J  | RA: 02 25 57.0566 (36.4877358d)<br>Dec: +62 12 17.97 (62.20499d)<br>Equinox: J2000 |                             |               |                                   |                                          |                                       | V=15+/-10                               |  | Reference Frame: ICRS        |  |  |  |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]   |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |  |                              |  |  |  |
|               |                                                                   |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |  |                              |  |  |  |
| Exposures     | #                                                                 | Label | Target                                                                             | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |  |  |
|               | 1                                                                 |       | (89) W3-J                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 J (77) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 2                                                                 |       | (89) W3-J                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 J (77) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 3                                                                 |       | (89) W3-J                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in W3 J (77) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 4                                                                 |       | (89) W3-J                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 J (77) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 5                                                                 |       | (89) W3-J                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 J (77) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 6                                                                 |       | (89) W3-J                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 J (77) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 7                                                                 |       | (89) W3-J                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 J (77) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 8                                                                 |       | (89) W3-J                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 J (77) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 9                                                                 |       | (89) W3-J                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 J (77) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |



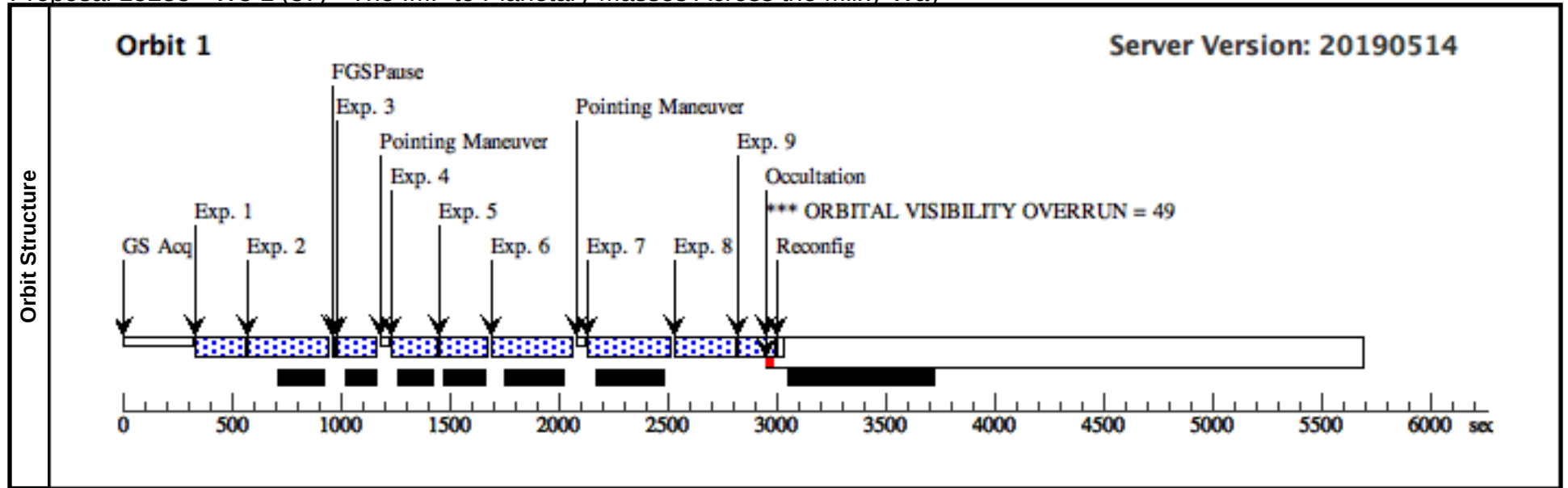
# Proposal 15238 - W3 K (86) - The IMF to Planetary Masses Across the Milky Way

|                                                                 |                                                                   |       |           |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
|-----------------------------------------------------------------|-------------------------------------------------------------------|-------|-----------|-----------------------------|---------------|-----------------------------------|------------------------------------------|---------------------------------------|-----------------------------------------|---------------|------------------------------|--|--|--|--|
| Visit                                                           | Proposal 15238, W3 K (86), completed                              |       |           |                             |               |                                   |                                          |                                       |                                         |               | Tue Sep 10 16:05:20 GMT 2019 |  |  |  |  |
|                                                                 | Diagnostic Status: Warning                                        |       |           |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
|                                                                 | Scientific Instruments: WFC3/IR                                   |       |           |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D              |       |           |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
| Diagnostics                                                     | (W3 K (86)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |           |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
|                                                                 | (W3 K (86)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |           |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
|                                                                 | (W3 K (86)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |           |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
|                                                                 | (W3 K (86)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |           |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
|                                                                 | (W3 K (86)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |           |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
|                                                                 | (W3 K (86)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |           |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
|                                                                 | (W3 K (86)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |           |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
| Fixed Targets                                                   |                                                                   |       |           |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
|                                                                 | #                                                                 | Name  |           | Target Coordinates          |               | Targ. Coord. Corrections          |                                          | Fluxes                                |                                         | Miscellaneous |                              |  |  |  |  |
| (90) W3-K                                                       |                                                                   |       |           |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
| RA: 02 26 32.2601 (36.6344171d)                                 |                                                                   |       |           |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
| Dec: +62 08 10.92 (62.13637d)                                   |                                                                   |       |           |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
| Equinox: J2000                                                  |                                                                   |       |           |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                   |       |           |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
| Exposures                                                       | #                                                                 | Label | Target    | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                | Exp. Time (Total)/[Actual Dur.]         |               | Orbit                        |  |  |  |  |
|                                                                 | 1                                                                 |       | (90) W3-K | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 K (86) | 202.934095 Secs (202.934 Secs)<br>[==>] |               | [1]                          |  |  |  |  |
|                                                                 | 2                                                                 |       | (90) W3-K | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 K (86) | 352.935448 Secs (352.935 Secs)<br>[==>] |               | [1]                          |  |  |  |  |
|                                                                 | 3                                                                 |       | (90) W3-K | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in W3 K (86) | 152.935381 Secs (152.935 Secs)<br>[==>] |               | [1]                          |  |  |  |  |
|                                                                 | 4                                                                 |       | (90) W3-K | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 K (86) | 177.935896 Secs (177.936 Secs)<br>[==>] |               | [1]                          |  |  |  |  |
|                                                                 | 5                                                                 |       | (90) W3-K | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 K (86) | 202.936411 Secs (202.936 Secs)<br>[==>] |               | [1]                          |  |  |  |  |
|                                                                 | 6                                                                 |       | (90) W3-K | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 K (86) | 352.939501 Secs (352.94 Secs)<br>[==>]  |               | [1]                          |  |  |  |  |
|                                                                 | 7                                                                 |       | (90) W3-K | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 K (86) | 352.939501 Secs (352.94 Secs)<br>[==>]  |               | [1]                          |  |  |  |  |
|                                                                 | 8                                                                 |       | (90) W3-K | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 K (86) | 252.937441 Secs (252.937 Secs)<br>[==>] |               | [1]                          |  |  |  |  |
|                                                                 | 9                                                                 |       | (90) W3-K | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 K (86) | 152.935381 Secs (152.935 Secs)<br>[==>] |               | [1]                          |  |  |  |  |



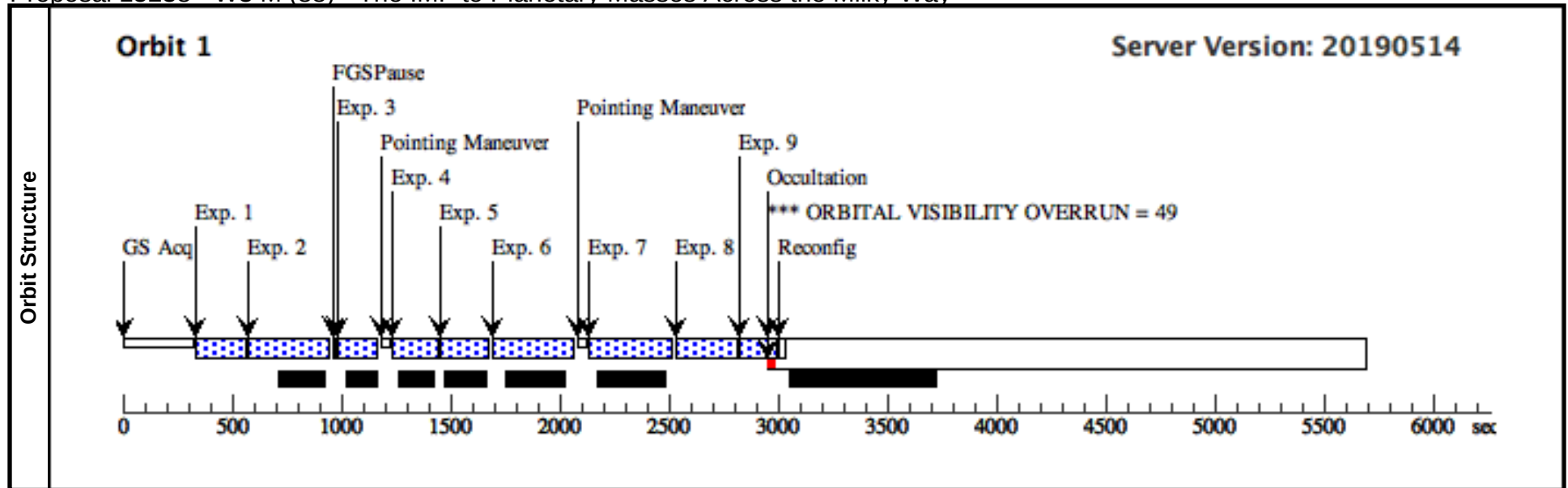
# Proposal 15238 - W3 L (87) - The IMF to Planetary Masses Across the Milky Way

|                                                                                                                                                                                                  |                                                                   |       |           |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-------|-----------|-----------------------------|---------------|-----------------------------------|------------------------------------------|---------------------------------------|-----------------------------------------|------------------------------|-------|--|
| Visit                                                                                                                                                                                            | Proposal 15238, W3 L (87), completed                              |       |           |                             |               |                                   |                                          |                                       |                                         | Tue Sep 10 16:05:20 GMT 2019 |       |  |
|                                                                                                                                                                                                  | Diagnostic Status: Warning                                        |       |           |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                                                                                                                                                  | Scientific Instruments: WFC3/IR                                   |       |           |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                                                                                                                                                  | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D              |       |           |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Diagnostics                                                                                                                                                                                      | (W3 L (87)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |           |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                                                                                                                                                  | (W3 L (87)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |           |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                                                                                                                                                  | (W3 L (87)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |           |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                                                                                                                                                  | (W3 L (87)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |           |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                                                                                                                                                  | (W3 L (87)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |           |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                                                                                                                                                  | (W3 L (87)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |           |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                                                                                                                                                  | (W3 L (87)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |           |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Fixed Targets                                                                                                                                                                                    |                                                                   |       |           |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                                                                                                                                                  | #                                                                 | Name  |           | Target Coordinates          |               | Targ. Coord. Corrections          |                                          | Fluxes                                |                                         | Miscellaneous                |       |  |
| <div>(91)W3-L</div> <div>RA: 02 25 43.8177 (36.4325737d)<br/>Dec: +62 10 47.31 (62.17981d)<br/>Equinox: J2000</div> <div>Comments:<br/>Category=EXT-CLUSTER<br/>Description=[OPEN CLUSTER]</div> |                                                                   |       |           |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Exposures                                                                                                                                                                                        | #                                                                 | Label | Target    | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |  |
|                                                                                                                                                                                                  | 1                                                                 |       | (91) W3-L | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 L (87) | 202.934095 Secs (202.934 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                                  | 2                                                                 |       | (91) W3-L | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 L (87) | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                                  | 3                                                                 |       | (91) W3-L | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in W3 L (87) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                                  | 4                                                                 |       | (91) W3-L | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 L (87) | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                                  | 5                                                                 |       | (91) W3-L | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 L (87) | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                                  | 6                                                                 |       | (91) W3-L | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 L (87) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|                                                                                                                                                                                                  | 7                                                                 |       | (91) W3-L | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 L (87) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|                                                                                                                                                                                                  | 8                                                                 |       | (91) W3-L | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 L (87) | 252.937441 Secs (252.937 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                                  | 9                                                                 |       | (91) W3-L | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 L (87) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |



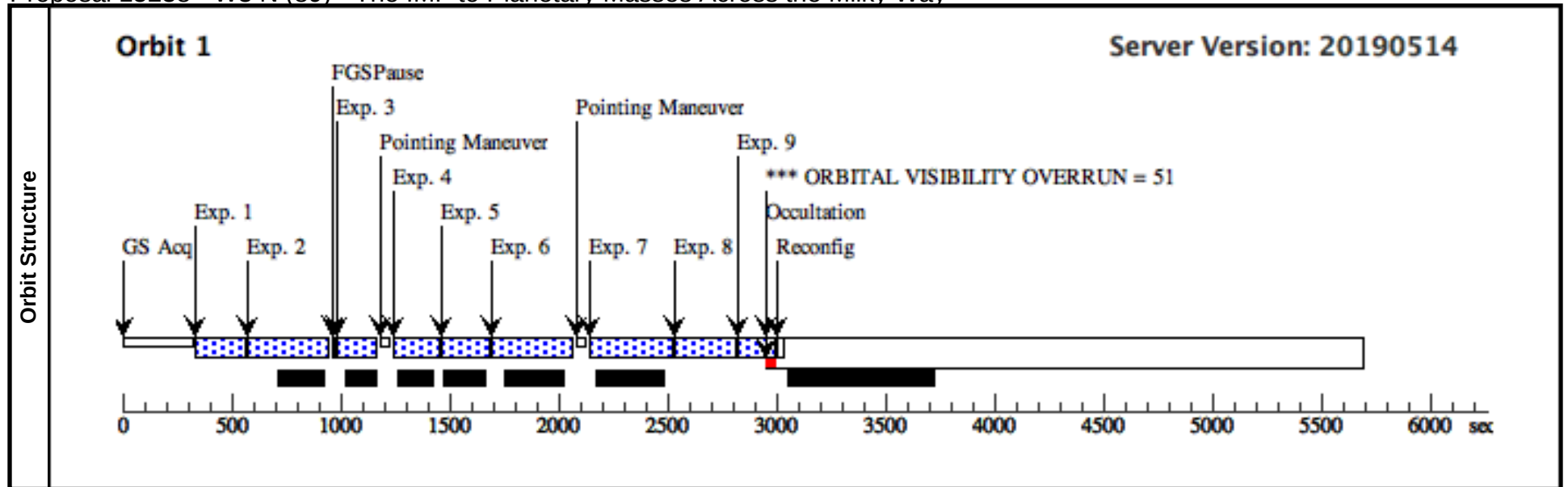
# Proposal 15238 - W3 M (88) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                   |  |  |  |  |  |  |  |  |                              |  |  |
|---------------|-------------------------------------------------------------------|--|--|--|--|--|--|--|--|------------------------------|--|--|
| Visit         | Proposal 15238, W3 M (88), completed                              |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:20 GMT 2019 |  |  |
|               | Diagnostic Status: Warning                                        |  |  |  |  |  |  |  |  |                              |  |  |
|               | Scientific Instruments: WFC3/IR                                   |  |  |  |  |  |  |  |  |                              |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D              |  |  |  |  |  |  |  |  |                              |  |  |
| Diagnostics   | (W3 M (88)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |                              |  |  |
|               | (W3 M (88)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (W3 M (88)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (W3 M (88)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (W3 M (88)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (W3 M (88)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (W3 M (88)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
| Fixed Targets | #            Name                                                 |  |  |  |  |  |  |  |  |                              |  |  |



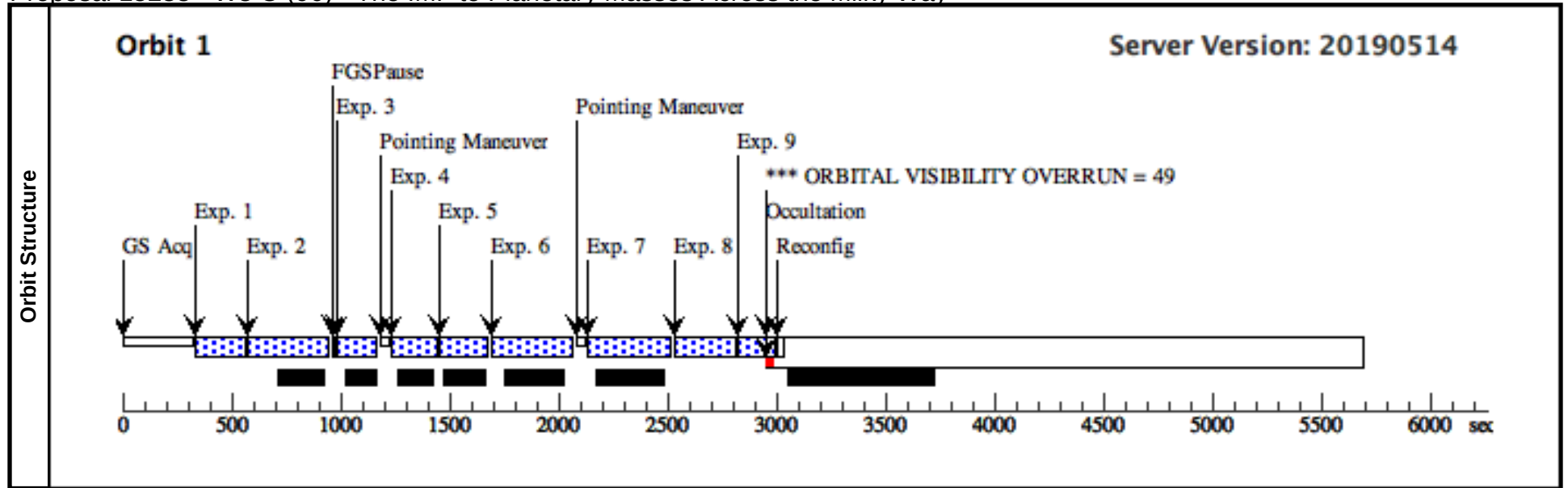
# Proposal 15238 - W3 N (89) - The IMF to Planetary Masses Across the Milky Way

| Visit                                                           | Proposal 15238, W3 N (89), completed                                                                                                                                                                                                                                                                                                      |                                                                                    |                    |                             |                       |                                   |                                                 |                                       |                                         |  | Tue Sep 10 16:05:20 GMT 2019 |  |   |      |                    |                          |        |               |      |      |                                                                                    |  |           |                       |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------|-----------------------------|-----------------------|-----------------------------------|-------------------------------------------------|---------------------------------------|-----------------------------------------|--|------------------------------|--|---|------|--------------------|--------------------------|--------|---------------|------|------|------------------------------------------------------------------------------------|--|-----------|-----------------------|
|                                                                 | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                |                                                                                    |                    |                             |                       |                                   |                                                 |                                       |                                         |  |                              |  |   |      |                    |                          |        |               |      |      |                                                                                    |  |           |                       |
|                                                                 | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                           |                                                                                    |                    |                             |                       |                                   |                                                 |                                       |                                         |  |                              |  |   |      |                    |                          |        |               |      |      |                                                                                    |  |           |                       |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D                                                                                                                                                                                                                                                                                      |                                                                                    |                    |                             |                       |                                   |                                                 |                                       |                                         |  |                              |  |   |      |                    |                          |        |               |      |      |                                                                                    |  |           |                       |
| Diagnostics                                                     | (W3 N (89)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                           |                                                                                    |                    |                             |                       |                                   |                                                 |                                       |                                         |  |                              |  |   |      |                    |                          |        |               |      |      |                                                                                    |  |           |                       |
|                                                                 | (W3 N (89)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                         |                                                                                    |                    |                             |                       |                                   |                                                 |                                       |                                         |  |                              |  |   |      |                    |                          |        |               |      |      |                                                                                    |  |           |                       |
|                                                                 | (W3 N (89)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                         |                                                                                    |                    |                             |                       |                                   |                                                 |                                       |                                         |  |                              |  |   |      |                    |                          |        |               |      |      |                                                                                    |  |           |                       |
|                                                                 | (W3 N (89)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                         |                                                                                    |                    |                             |                       |                                   |                                                 |                                       |                                         |  |                              |  |   |      |                    |                          |        |               |      |      |                                                                                    |  |           |                       |
|                                                                 | (W3 N (89)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                         |                                                                                    |                    |                             |                       |                                   |                                                 |                                       |                                         |  |                              |  |   |      |                    |                          |        |               |      |      |                                                                                    |  |           |                       |
|                                                                 | (W3 N (89)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                         |                                                                                    |                    |                             |                       |                                   |                                                 |                                       |                                         |  |                              |  |   |      |                    |                          |        |               |      |      |                                                                                    |  |           |                       |
|                                                                 | (W3 N (89)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                         |                                                                                    |                    |                             |                       |                                   |                                                 |                                       |                                         |  |                              |  |   |      |                    |                          |        |               |      |      |                                                                                    |  |           |                       |
| Fixed Targets                                                   | <table><tr><th>#</th><th>Name</th><th>Target Coordinates</th><th>Targ. Coord. Corrections</th><th>Fluxes</th><th>Miscellaneous</th></tr><tr><td>(93)</td><td>W3-N</td><td>RA: 02 24 51.6396 (36.2151650d)<br/>Dec: +62 04 36.93 (62.07693d)<br/>Equinox: J2000</td><td></td><td>V=15+/-10</td><td>Reference Frame: ICRS</td></tr></table> |                                                                                    |                    |                             |                       |                                   |                                                 |                                       |                                         |  |                              |  | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | (93) | W3-N | RA: 02 24 51.6396 (36.2151650d)<br>Dec: +62 04 36.93 (62.07693d)<br>Equinox: J2000 |  | V=15+/-10 | Reference Frame: ICRS |
|                                                                 | #                                                                                                                                                                                                                                                                                                                                         | Name                                                                               | Target Coordinates | Targ. Coord. Corrections    | Fluxes                | Miscellaneous                     |                                                 |                                       |                                         |  |                              |  |   |      |                    |                          |        |               |      |      |                                                                                    |  |           |                       |
| (93)                                                            | W3-N                                                                                                                                                                                                                                                                                                                                      | RA: 02 24 51.6396 (36.2151650d)<br>Dec: +62 04 36.93 (62.07693d)<br>Equinox: J2000 |                    | V=15+/-10                   | Reference Frame: ICRS |                                   |                                                 |                                       |                                         |  |                              |  |   |      |                    |                          |        |               |      |      |                                                                                    |  |           |                       |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                                                                                                                                                                                                                                                                                           |                                                                                    |                    |                             |                       |                                   |                                                 |                                       |                                         |  |                              |  |   |      |                    |                          |        |               |      |      |                                                                                    |  |           |                       |
| Exposures                                                       | #                                                                                                                                                                                                                                                                                                                                         | Label                                                                              | Target             | Config,Mode,Aperture        | Spectral Els.         | Opt. Params.                      | Special Reqs.                                   | Groups                                | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |   |      |                    |                          |        |               |      |      |                                                                                    |  |           |                       |
|                                                                 | 1                                                                                                                                                                                                                                                                                                                                         |                                                                                    | (93) W3-N          | WFC3/IR, MULTIACCUM, IR-FIX | F110W                 | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE          | Sequence 1-9 Non-In<br>t in W3 N (89) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |   |      |                    |                          |        |               |      |      |                                                                                    |  |           |                       |
|                                                                 | 2                                                                                                                                                                                                                                                                                                                                         |                                                                                    | (93) W3-N          | WFC3/IR, MULTIACCUM, IR-FIX | F139M                 | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE          | Sequence 1-9 Non-In<br>t in W3 N (89) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |   |      |                    |                          |        |               |      |      |                                                                                    |  |           |                       |
|                                                                 | 3                                                                                                                                                                                                                                                                                                                                         |                                                                                    | (93) W3-N          | WFC3/IR, MULTIACCUM, IR-FIX | F160W                 | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO          | Sequence 1-9 Non-In<br>t in W3 N (89) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |   |      |                    |                          |        |               |      |      |                                                                                    |  |           |                       |
|                                                                 | 4                                                                                                                                                                                                                                                                                                                                         |                                                                                    | (93) W3-N          | WFC3/IR, MULTIACCUM, IR-FIX | F160W                 | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -130,0;<br>EXP PCS MODE G<br>YRO       | Sequence 1-9 Non-In<br>t in W3 N (89) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |   |      |                    |                          |        |               |      |      |                                                                                    |  |           |                       |
|                                                                 | 5                                                                                                                                                                                                                                                                                                                                         |                                                                                    | (93) W3-N          | WFC3/IR, MULTIACCUM, IR-FIX | F110W                 | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -130,0;<br>EXP PCS MODE G<br>YRO       | Sequence 1-9 Non-In<br>t in W3 N (89) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |   |      |                    |                          |        |               |      |      |                                                                                    |  |           |                       |
|                                                                 | 6                                                                                                                                                                                                                                                                                                                                         |                                                                                    | (93) W3-N          | WFC3/IR, MULTIACCUM, IR-FIX | F139M                 | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -130,0;<br>EXP PCS MODE G<br>YRO       | Sequence 1-9 Non-In<br>t in W3 N (89) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |   |      |                    |                          |        |               |      |      |                                                                                    |  |           |                       |
|                                                                 | 7                                                                                                                                                                                                                                                                                                                                         |                                                                                    | (93) W3-N          | WFC3/IR, MULTIACCUM, IR-FIX | F139M                 | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -130,11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 N (89) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |   |      |                    |                          |        |               |      |      |                                                                                    |  |           |                       |
|                                                                 | 8                                                                                                                                                                                                                                                                                                                                         |                                                                                    | (93) W3-N          | WFC3/IR, MULTIACCUM, IR-FIX | F110W                 | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -130,11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 N (89) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |   |      |                    |                          |        |               |      |      |                                                                                    |  |           |                       |
|                                                                 | 9                                                                                                                                                                                                                                                                                                                                         |                                                                                    | (93) W3-N          | WFC3/IR, MULTIACCUM, IR-FIX | F160W                 | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -130,11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 N (89) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |   |      |                    |                          |        |               |      |      |                                                                                    |  |           |                       |



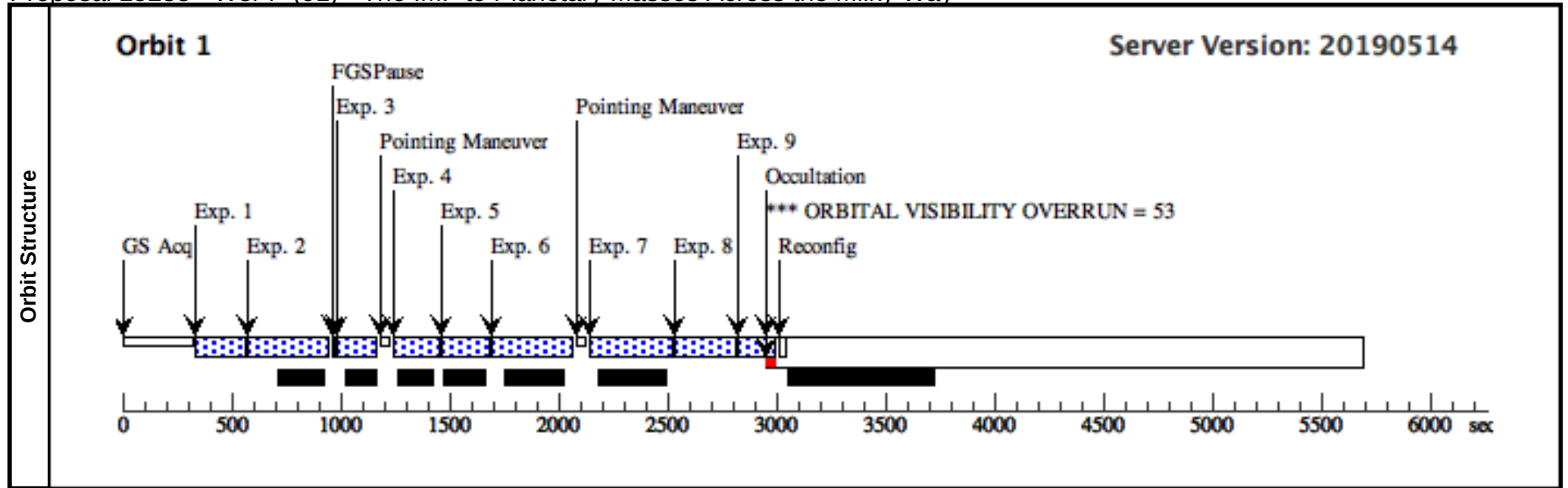
# Proposal 15238 - W3 O (90) - The IMF to Planetary Masses Across the Milky Way

|                                                                 |                                                                   |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|-----------------------------------------------------------------|-------------------------------------------------------------------|-------|--------------------|-----------------------------|---------------|-----------------------------------|------------------------------------------|---------------------------------------|-----------------------------------------|------------------------------|-------|--|
| Visit                                                           | Proposal 15238, W3 O (90), completed                              |       |                    |                             |               |                                   |                                          |                                       |                                         | Tue Sep 10 16:05:20 GMT 2019 |       |  |
|                                                                 | Diagnostic Status: Warning                                        |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                 | Scientific Instruments: WFC3/IR                                   |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D              |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Diagnostics                                                     | (W3 O (90)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                 | (W3 O (90)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                 | (W3 O (90)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                 | (W3 O (90)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                 | (W3 O (90)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                 | (W3 O (90)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                 | (W3 O (90)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Fixed Targets                                                   |                                                                   |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|                                                                 | #                                                                 | Name  | Target Coordinates |                             |               | Targ. Coord. Corrections          |                                          | Fluxes                                |                                         | Miscellaneous                |       |  |
| (94) W3-O                                                       |                                                                   |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| RA: 02 25 42.3942 (36.4266425d)                                 |                                                                   |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Dec: +62 07 54.00 (62.13167d)                                   |                                                                   |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Equinox: J2000                                                  |                                                                   |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                   |       |                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Exposures                                                       | #                                                                 | Label | Target             | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |  |
|                                                                 | 1                                                                 |       | (94) W3-O          | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 O (90) | 202.934095 Secs (202.934 Secs)<br>[==>] |                              | [1]   |  |
|                                                                 | 2                                                                 |       | (94) W3-O          | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 O (90) | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |  |
|                                                                 | 3                                                                 |       | (94) W3-O          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in W3 O (90) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |
|                                                                 | 4                                                                 |       | (94) W3-O          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 O (90) | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |  |
|                                                                 | 5                                                                 |       | (94) W3-O          | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 O (90) | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |  |
|                                                                 | 6                                                                 |       | (94) W3-O          | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 O (90) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|                                                                 | 7                                                                 |       | (94) W3-O          | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 O (90) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|                                                                 | 8                                                                 |       | (94) W3-O          | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 O (90) | 252.937441 Secs (252.937 Secs)<br>[==>] |                              | [1]   |  |
|                                                                 | 9                                                                 |       | (94) W3-O          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 O (90) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |



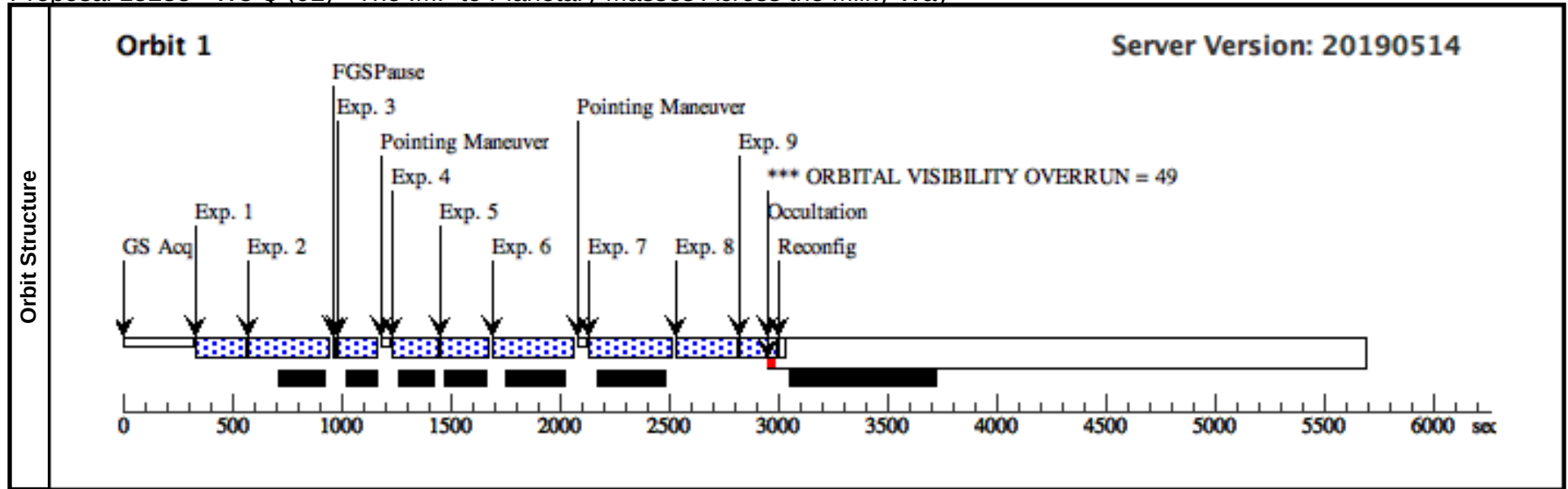
# Proposal 15238 - W3r P (91) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |           |                             |               |                                    |                                          |                                        |                                         |       |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-----------------------------|---------------|------------------------------------|------------------------------------------|----------------------------------------|-----------------------------------------|-------|
| Visit         | <b>Proposal 15238, W3r P (91), completed</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |           |                             |               | Tue Sep 10 16:05:20 GMT 2019       |                                          |                                        |                                         |       |
|               | <b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 100%; ORIENT 90D TO 90 D                                                                                                                                                                                                                                                                                                                                                                         |       |           |                             |               |                                    |                                          |                                        |                                         |       |
| Diagnostics   | (W3r P (91)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(W3r P (91)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE<br>(W3r P (91)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE<br>(W3r P (91)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE<br>(W3r P (91)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE<br>(W3r P (91)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE<br>(W3r P (91)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |           |                             |               |                                    |                                          |                                        |                                         |       |
|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |           |                             |               |                                    |                                          |                                        |                                         |       |
| Fixed Targets | #      Name      Target Coordinates      Targ. Coord. Corrections      Fluxes      Miscellaneous                                                                                                                                                                                                                                                                                                                                                                                                     |       |           |                             |               |                                    |                                          |                                        |                                         |       |
|               | (95)      W3-P      RA: 02 24 53.2254 (36.2217725d)<br>Dec: +62 07 28.20 (62.12450d)<br>Equinox: J2000<br>Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]                                                                                                                                                                                                                                                                                                                            |       |           |                             |               | V=15+/-10<br>Reference Frame: ICRS |                                          |                                        |                                         |       |
| Exposures     | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Label | Target    | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                       | Special Reqs.                            | Groups                                 | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       | (95) W3-P | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50   | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3r P (91) | 202.934095 Secs (202.934 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       | (95) W3-P | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50   | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3r P (91) | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       | (95) W3-P | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25   | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in W3r P (91) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       | (95) W3-P | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25   | POS TARG 130,0;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3r P (91) | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       | (95) W3-P | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25   | POS TARG 130,0;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3r P (91) | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       | (95) W3-P | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 130,0;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3r P (91) | 352.939501 Secs (352.94 Secs)<br>[==>]  | [1]   |
|               | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       | (95) W3-P | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 260,0;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3r P (91) | 352.939501 Secs (352.94 Secs)<br>[==>]  | [1]   |
|               | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       | (95) W3-P | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 260,0;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3r P (91) | 252.937441 Secs (252.937 Secs)<br>[==>] | [1]   |
|               | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       | (95) W3-P | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25   | POS TARG 260,0;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3r P (91) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |



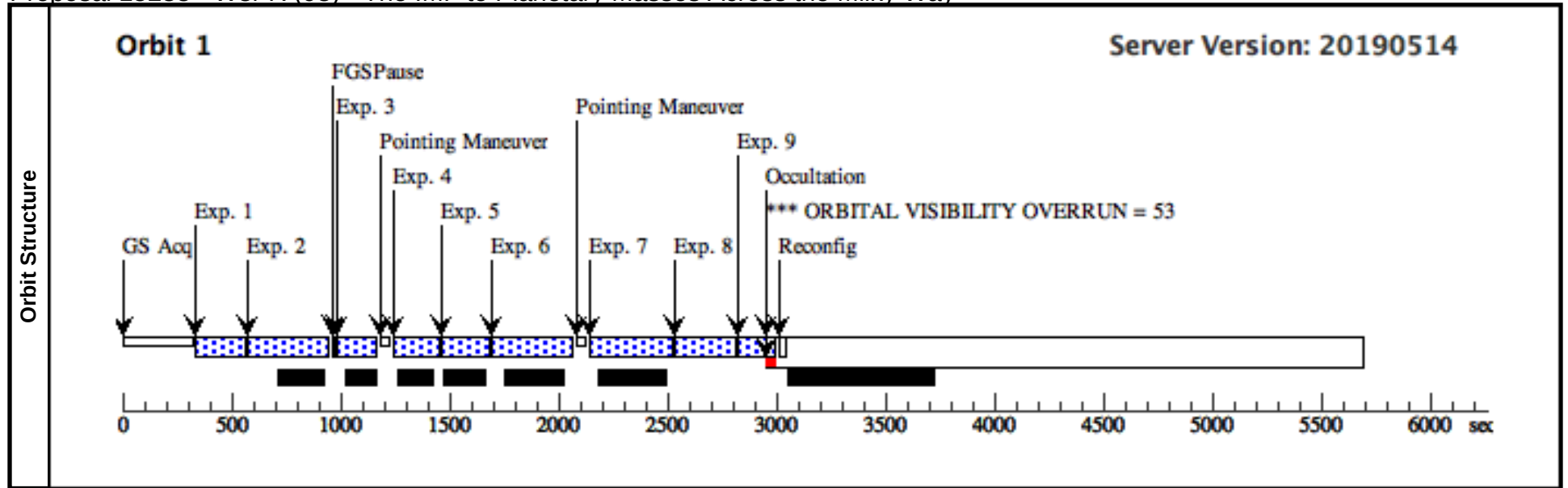
# Proposal 15238 - W3 Q (92) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                   |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                       |                              |  |  |  |
|---------------|-------------------------------------------------------------------|-------|------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------------------|---------------------------------------|-----------------------------------------|-----------------------|------------------------------|--|--|--|
| Visit         | Proposal 15238, W3 Q (92), completed                              |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                       | Tue Sep 10 16:05:20 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                        |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                       |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                   |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                       |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D              |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                       |                              |  |  |  |
| Diagnostics   | (W3 Q (92)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                       |                              |  |  |  |
|               | (W3 Q (92)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                       |                              |  |  |  |
|               | (W3 Q (92)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                       |                              |  |  |  |
|               | (W3 Q (92)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                       |                              |  |  |  |
|               | (W3 Q (92)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                       |                              |  |  |  |
|               | (W3 Q (92)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                       |                              |  |  |  |
|               | (W3 Q (92)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                       |                              |  |  |  |
| Fixed Targets | #                                                                 | Name  | Target Coordinates                                                                 |                             |               | Targ. Coord. Corrections          |                                          | Fluxes                                |                                         | Miscellaneous         |                              |  |  |  |
|               | (96)                                                              | W3-Q  | RA: 02 25 29.5461 (36.3731087d)<br>Dec: +62 06 21.73 (62.10604d)<br>Equinox: J2000 |                             |               |                                   |                                          | V=15+/-10                             |                                         | Reference Frame: ICRS |                              |  |  |  |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]   |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                       |                              |  |  |  |
| Exposures     | #                                                                 | Label | Target                                                                             | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                | Exp. Time (Total)/[Actual Dur.]         |                       | Orbit                        |  |  |  |
|               | 1                                                                 |       | (96) W3-Q                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 Q (92) | 202.934095 Secs (202.934 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|               | 2                                                                 |       | (96) W3-Q                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 Q (92) | 352.935448 Secs (352.935 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|               | 3                                                                 |       | (96) W3-Q                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in W3 Q (92) | 152.935381 Secs (152.935 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|               | 4                                                                 |       | (96) W3-Q                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 Q (92) | 177.935896 Secs (177.936 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|               | 5                                                                 |       | (96) W3-Q                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 Q (92) | 202.936411 Secs (202.936 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|               | 6                                                                 |       | (96) W3-Q                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 Q (92) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                       | [1]                          |  |  |  |
|               | 7                                                                 |       | (96) W3-Q                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 Q (92) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                       | [1]                          |  |  |  |
|               | 8                                                                 |       | (96) W3-Q                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 Q (92) | 252.937441 Secs (252.937 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|               | 9                                                                 |       | (96) W3-Q                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 Q (92) | 152.935381 Secs (152.935 Secs)<br>[==>] |                       | [1]                          |  |  |  |



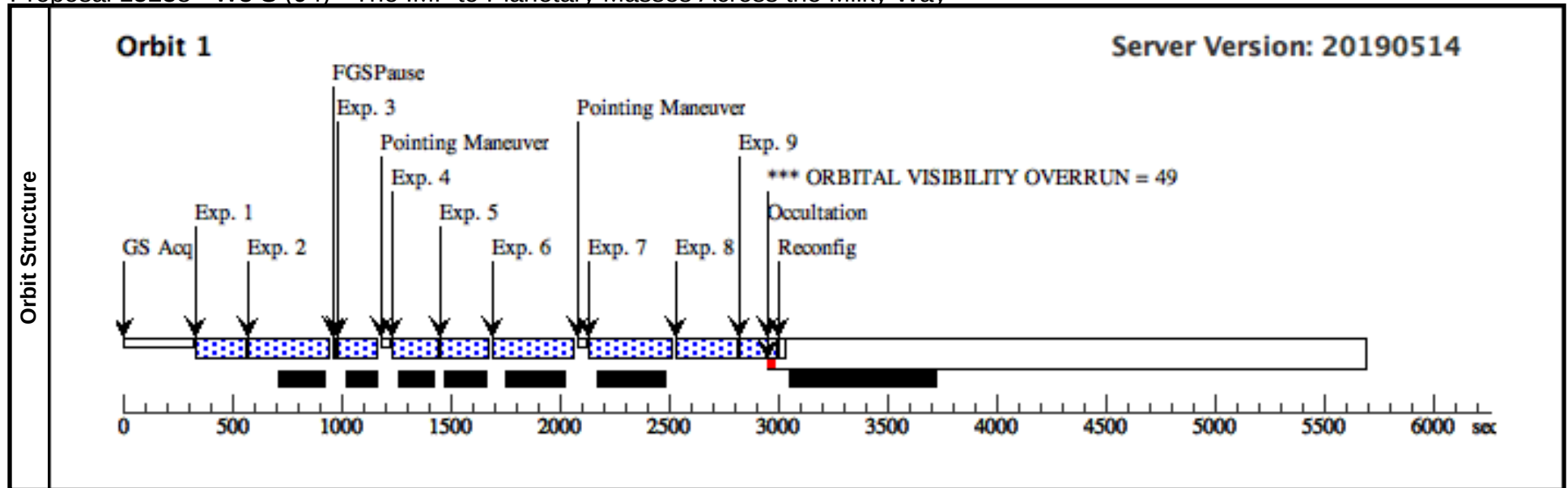
# Proposal 15238 - W3r R (93) - The IMF to Planetary Masses Across the Milky Way

|                                                                 |                                                                    |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|-----------------------------------------------------------------|--------------------------------------------------------------------|-------|----------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------------------|----------------------------------------|-----------------------------------------|--|------------------------------|--|--|--|
| Visit                                                           | Proposal 15238, W3r R (93), completed                              |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |  | Tue Sep 10 16:05:20 GMT 2019 |  |  |  |
|                                                                 | Diagnostic Status: Warning                                         |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|                                                                 | Scientific Instruments: WFC3/IR                                    |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D               |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
| Diagnostics                                                     | (W3r R (93)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|                                                                 | (W3r R (93)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|                                                                 | (W3r R (93)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|                                                                 | (W3r R (93)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|                                                                 | (W3r R (93)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|                                                                 | (W3r R (93)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
|                                                                 | (W3r R (93)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
| Fixed Targets                                                   | #                                                                  | Name  | Target Coordinates                                                               |                             |               | Targ. Coord. Corrections          |                                          |                                        | Fluxes                                  |  | Miscellaneous                |  |  |  |
|                                                                 | (97)                                                               | W3-R  | RA: 02 25 5.0505 (36.2710437d)<br>Dec: +62 06 8.88 (62.10247d)<br>Equinox: J2000 |                             |               |                                   |                                          |                                        | V=15+/-10                               |  | Reference Frame: ICRS        |  |  |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                    |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |  |                              |  |  |  |
| Exposures                                                       | #                                                                  | Label | Target                                                                           | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                 | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |  |  |
|                                                                 | 1                                                                  |       | (97) W3-R                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3r R (93) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |  |  |
|                                                                 | 2                                                                  |       | (97) W3-R                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3r R (93) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|                                                                 | 3                                                                  |       | (97) W3-R                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in W3r R (93) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|                                                                 | 4                                                                  |       | (97) W3-R                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 130,0;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3r R (93) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|                                                                 | 5                                                                  |       | (97) W3-R                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 130,0;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3r R (93) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|                                                                 | 6                                                                  |       | (97) W3-R                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 130,0;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3r R (93) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|                                                                 | 7                                                                  |       | (97) W3-R                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 260,0;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3r R (93) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|                                                                 | 8                                                                  |       | (97) W3-R                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 260,0;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3r R (93) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |  |  |
|                                                                 | 9                                                                  |       | (97) W3-R                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 260,0;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3r R (93) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |



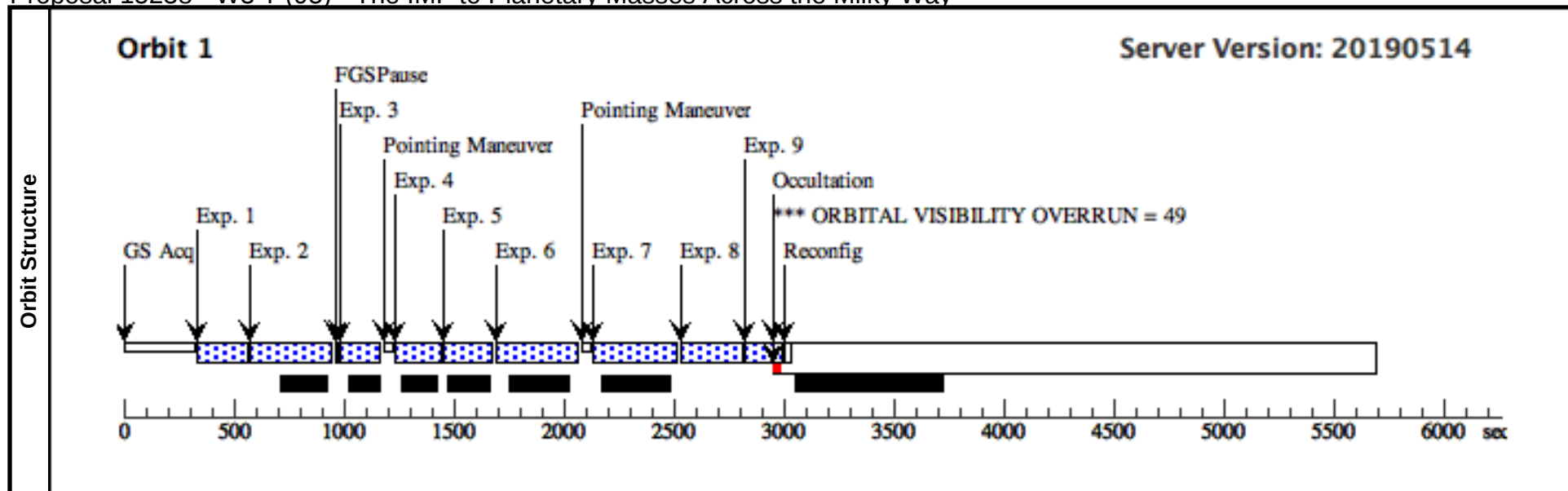
# Proposal 15238 - W3 S (94) - The IMF to Planetary Masses Across the Milky Way

|                                                                                                                                                                                                                              |                                                                   |           |                             |                             |                          |                   |                                   |                                   |                                 |     |                              |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------|-----------------------------|-----------------------------|--------------------------|-------------------|-----------------------------------|-----------------------------------|---------------------------------|-----|------------------------------|--|
| Visit                                                                                                                                                                                                                        | Proposal 15238, W3 S (94), completed                              |           |                             |                             |                          |                   |                                   |                                   |                                 |     | Tue Sep 10 16:05:20 GMT 2019 |  |
|                                                                                                                                                                                                                              | Diagnostic Status: Warning                                        |           |                             |                             |                          |                   |                                   |                                   |                                 |     |                              |  |
|                                                                                                                                                                                                                              | Scientific Instruments: WFC3/IR                                   |           |                             |                             |                          |                   |                                   |                                   |                                 |     |                              |  |
|                                                                                                                                                                                                                              | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D              |           |                             |                             |                          |                   |                                   |                                   |                                 |     |                              |  |
| Diagnostics                                                                                                                                                                                                                  | (W3 S (94)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |           |                             |                             |                          |                   |                                   |                                   |                                 |     |                              |  |
|                                                                                                                                                                                                                              | (W3 S (94)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |           |                             |                             |                          |                   |                                   |                                   |                                 |     |                              |  |
|                                                                                                                                                                                                                              | (W3 S (94)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |           |                             |                             |                          |                   |                                   |                                   |                                 |     |                              |  |
|                                                                                                                                                                                                                              | (W3 S (94)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |           |                             |                             |                          |                   |                                   |                                   |                                 |     |                              |  |
|                                                                                                                                                                                                                              | (W3 S (94)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |           |                             |                             |                          |                   |                                   |                                   |                                 |     |                              |  |
|                                                                                                                                                                                                                              | (W3 S (94)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |           |                             |                             |                          |                   |                                   |                                   |                                 |     |                              |  |
|                                                                                                                                                                                                                              | (W3 S (94)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |           |                             |                             |                          |                   |                                   |                                   |                                 |     |                              |  |
| Fixed Targets                                                                                                                                                                                                                |                                                                   |           |                             |                             |                          |                   |                                   |                                   |                                 |     |                              |  |
|                                                                                                                                                                                                                              | #                                                                 | Name      | Target Coordinates          |                             | Targ. Coord. Corrections |                   | Fluxes                            |                                   | Miscellaneous                   |     |                              |  |
| <div>(98)W3-S</div> <div>RA: 02 25 16.4213 (36.3184221d)</div> <div>Dec: +62 04 49.37 (62.08038d)</div> <div>Equinox: J2000</div> <div>Comments:</div> <div>Category=EXT-CLUSTER</div> <div>Description=[OPEN CLUSTER]</div> |                                                                   |           |                             |                             |                          |                   |                                   |                                   |                                 |     |                              |  |
| Exposures                                                                                                                                                                                                                    | #                                                                 | Label     | Target                      | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.      | Special Reqs.                     | Groups                            | Exp. Time (Total)/[Actual Dur.] |     | Orbit                        |  |
|                                                                                                                                                                                                                              | 1                                                                 |           | (98) W3-S                   | WFC3/IR, MULTIACCUM, IR-FIX | F110W                    | NSAMP=5;          | POS TARG 0,0;                     | Sequence 1-9 Non-Int in W3 S (94) | 202.934095 Secs (202.934 Secs)  |     |                              |  |
|                                                                                                                                                                                                                              |                                                                   |           |                             |                             |                          | SAMP-SEQ=SPAR S50 | EXP PCS MODE FINE                 |                                   | [==>]                           |     | [1]                          |  |
|                                                                                                                                                                                                                              | 2                                                                 |           | (98) W3-S                   | WFC3/IR, MULTIACCUM, IR-FIX | F139M                    | NSAMP=8;          | POS TARG 0,0;                     | Sequence 1-9 Non-Int in W3 S (94) | 352.935448 Secs (352.935 Secs)  |     |                              |  |
|                                                                                                                                                                                                                              |                                                                   |           |                             |                             |                          | SAMP-SEQ=SPAR S50 | EXP PCS MODE FINE                 |                                   | [==>]                           |     | [1]                          |  |
|                                                                                                                                                                                                                              | 3                                                                 |           | (98) W3-S                   | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=7;          | POS TARG 0,0;                     | Sequence 1-9 Non-Int in W3 S (94) | 152.935381 Secs (152.935 Secs)  |     |                              |  |
|                                                                                                                                                                                                                              |                                                                   |           |                             |                             |                          | SAMP-SEQ=SPAR S25 | EXP PCS MODE GYRO                 |                                   | [==>]                           |     | [1]                          |  |
|                                                                                                                                                                                                                              | 4                                                                 |           | (98) W3-S                   | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=8;          | POS TARG 0,117;                   | Sequence 1-9 Non-Int in W3 S (94) | 177.935896 Secs (177.936 Secs)  |     |                              |  |
|                                                                                                                                                                                                                              |                                                                   |           |                             |                             |                          | SAMP-SEQ=SPAR S25 | EXP PCS MODE GYRO                 |                                   | [==>]                           |     | [1]                          |  |
|                                                                                                                                                                                                                              | 5                                                                 |           | (98) W3-S                   | WFC3/IR, MULTIACCUM, IR-FIX | F110W                    | NSAMP=9;          | POS TARG 0,117;                   | Sequence 1-9 Non-Int in W3 S (94) | 202.936411 Secs (202.936 Secs)  |     |                              |  |
|                                                                                                                                                                                                                              |                                                                   |           |                             |                             |                          | SAMP-SEQ=SPAR S25 | EXP PCS MODE GYRO                 |                                   | [==>]                           |     | [1]                          |  |
| 6                                                                                                                                                                                                                            |                                                                   | (98) W3-S | WFC3/IR, MULTIACCUM, IR-FIX | F139M                       | NSAMP=15;                | POS TARG 0,117;   | Sequence 1-9 Non-Int in W3 S (94) | 352.939501 Secs (352.94 Secs)     |                                 |     |                              |  |
|                                                                                                                                                                                                                              |                                                                   |           |                             |                             | SAMP-SEQ=SPAR S25        | EXP PCS MODE GYRO |                                   | [==>]                             |                                 | [1] |                              |  |
| 7                                                                                                                                                                                                                            |                                                                   | (98) W3-S | WFC3/IR, MULTIACCUM, IR-FIX | F139M                       | NSAMP=15;                | POS TARG 0,234;   | Sequence 1-9 Non-Int in W3 S (94) | 352.939501 Secs (352.94 Secs)     |                                 |     |                              |  |
|                                                                                                                                                                                                                              |                                                                   |           |                             |                             | SAMP-SEQ=SPAR S25        | EXP PCS MODE GYRO |                                   | [==>]                             |                                 | [1] |                              |  |
| 8                                                                                                                                                                                                                            |                                                                   | (98) W3-S | WFC3/IR, MULTIACCUM, IR-FIX | F110W                       | NSAMP=11;                | POS TARG 0,234;   | Sequence 1-9 Non-Int in W3 S (94) | 252.937441 Secs (252.937 Secs)    |                                 |     |                              |  |
|                                                                                                                                                                                                                              |                                                                   |           |                             |                             | SAMP-SEQ=SPAR S25        | EXP PCS MODE GYRO |                                   | [==>]                             |                                 | [1] |                              |  |
| 9                                                                                                                                                                                                                            |                                                                   | (98) W3-S | WFC3/IR, MULTIACCUM, IR-FIX | F160W                       | NSAMP=7;                 | POS TARG 0,234;   | Sequence 1-9 Non-Int in W3 S (94) | 152.935381 Secs (152.935 Secs)    |                                 |     |                              |  |
|                                                                                                                                                                                                                              |                                                                   |           |                             |                             | SAMP-SEQ=SPAR S25        | EXP PCS MODE GYRO |                                   | [==>]                             |                                 | [1] |                              |  |



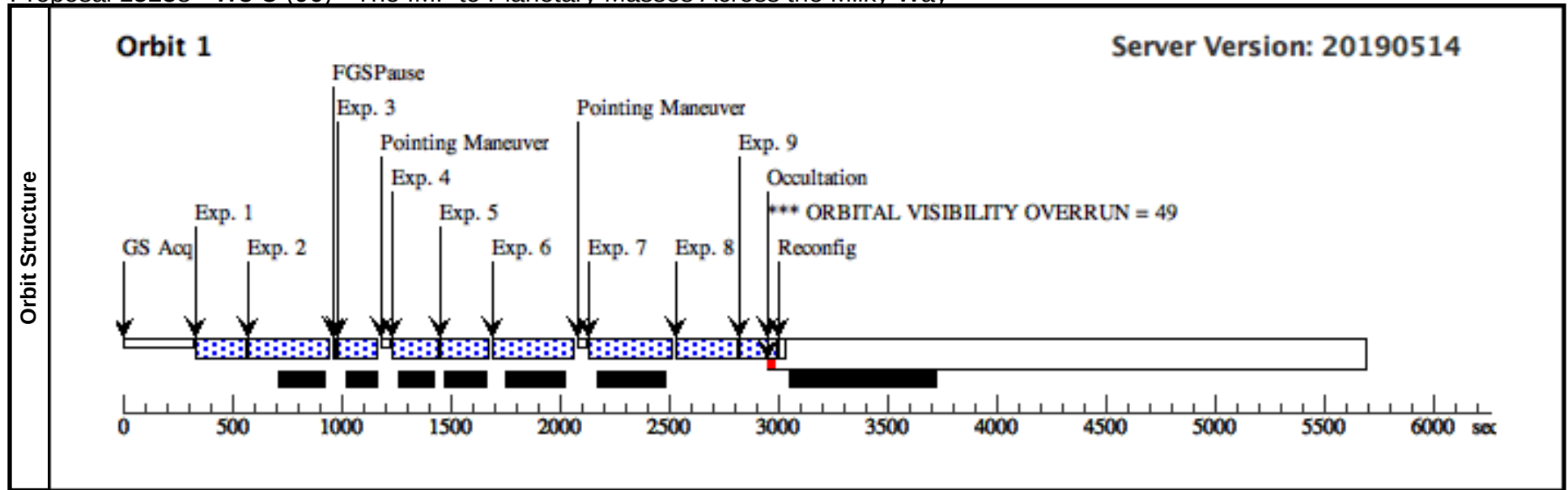
# Proposal 15238 - W3 T (95) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|---------------|-------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, W3 T (95), completed                              |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:20 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D              |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics   | (W3 T (95)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (W3 T (95)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (W3 T (95)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (W3 T (95)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (W3 T (95)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (W3 T (95)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (W3 T (95)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets | #            Name                                                 |  |  |  |  |  |  |  |  |  |                              |  |  |  |



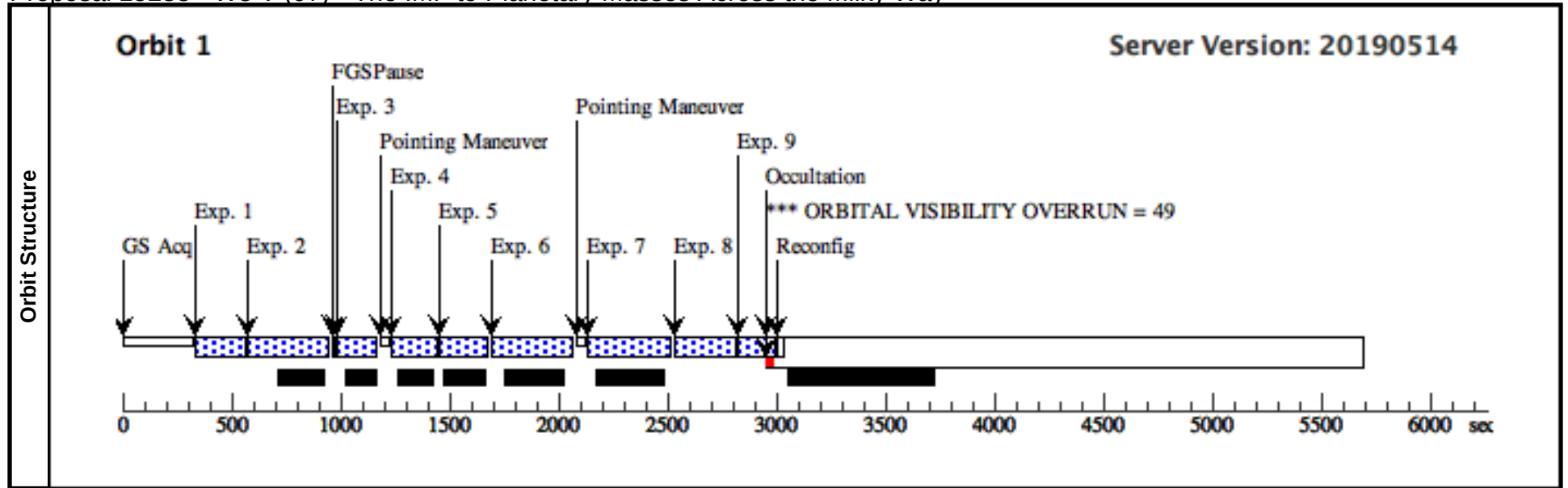
# Proposal 15238 - W3 U (96) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                   |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|---------------|-------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------------------|---------------------------------------|-----------------------------------------|------------------------------|-------|--|
| Visit         | Proposal 15238, W3 U (96), completed                              |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         | Tue Sep 10 16:05:20 GMT 2019 |       |  |
|               | Diagnostic Status: Warning                                        |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | Scientific Instruments: WFC3/IR                                   |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D              |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Diagnostics   | (W3 U (96)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | (W3 U (96)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | (W3 U (96)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | (W3 U (96)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | (W3 U (96)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | (W3 U (96)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | (W3 U (96)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Fixed Targets |                                                                   |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | #                                                                 | Name  | Target Coordinates                                                                |                             |               | Targ. Coord. Corrections          |                                          | Fluxes                                |                                         | Miscellaneous                |       |  |
|               | (100)                                                             | W3-U  | RA: 02 25 3.3186 (36.2638275d)<br>Dec: +62 03 16.95 (62.05471d)<br>Equinox: J2000 |                             |               |                                   |                                          | V=15+/-10                             |                                         | Reference Frame: ICRS        |       |  |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]   |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Exposures     | #                                                                 | Label | Target                                                                            | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |  |
|               | 1                                                                 |       | (100) W3-U                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 U (96) | 202.934095 Secs (202.934 Secs)<br>[==>] |                              | [1]   |  |
|               | 2                                                                 |       | (100) W3-U                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 U (96) | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |  |
|               | 3                                                                 |       | (100) W3-U                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in W3 U (96) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |
|               | 4                                                                 |       | (100) W3-U                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 U (96) | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |  |
|               | 5                                                                 |       | (100) W3-U                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 U (96) | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |  |
|               | 6                                                                 |       | (100) W3-U                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 U (96) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|               | 7                                                                 |       | (100) W3-U                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 U (96) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|               | 8                                                                 |       | (100) W3-U                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 U (96) | 252.937441 Secs (252.937 Secs)<br>[==>] |                              | [1]   |  |
|               | 9                                                                 |       | (100) W3-U                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 U (96) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |



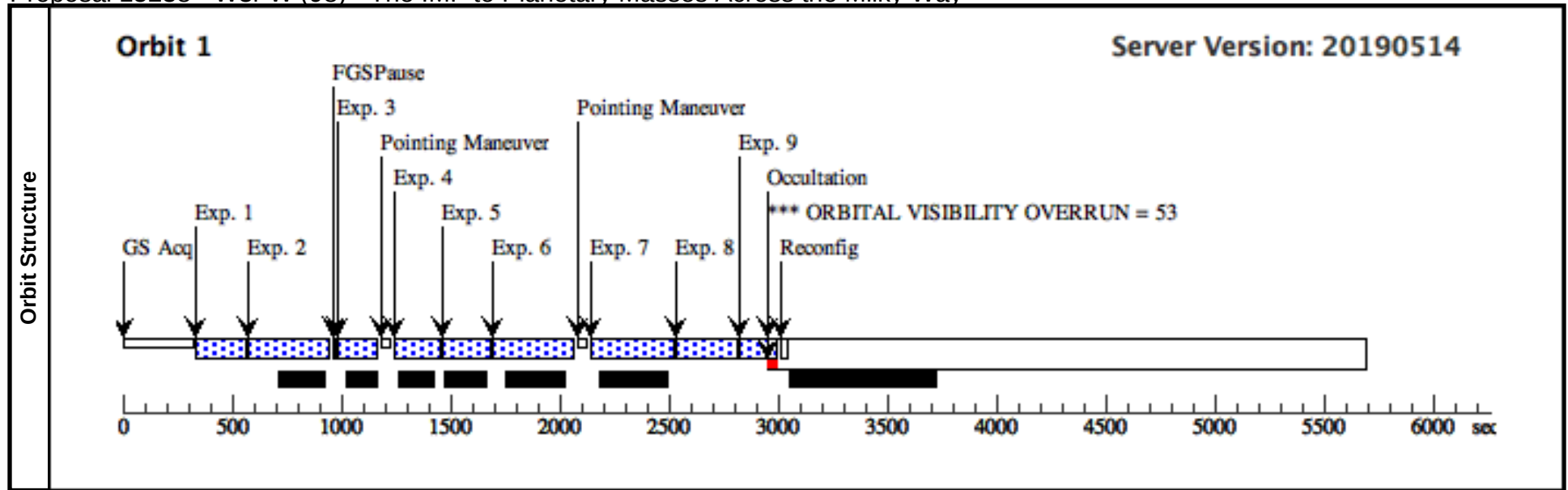
# Proposal 15238 - W3 V (97) - The IMF to Planetary Masses Across the Milky Way

| Visit                                                           | Proposal 15238, W3 V (97), completed                                                                                                                                                                                                                                                                                                      |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         | Tue Sep 10 16:05:20 GMT 2019 |       |  |   |      |                    |                          |        |               |       |      |                                                                                   |  |           |                       |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------|-----------------------------|-----------------------|-----------------------------------|------------------------------------------|---------------------------------------|-----------------------------------------|------------------------------|-------|--|---|------|--------------------|--------------------------|--------|---------------|-------|------|-----------------------------------------------------------------------------------|--|-----------|-----------------------|
|                                                                 | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |       |      |                                                                                   |  |           |                       |
|                                                                 | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                           |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |       |      |                                                                                   |  |           |                       |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D                                                                                                                                                                                                                                                                                      |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |       |      |                                                                                   |  |           |                       |
| Diagnostics                                                     | (W3 V (97)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                           |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |       |      |                                                                                   |  |           |                       |
|                                                                 | (W3 V (97)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                         |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |       |      |                                                                                   |  |           |                       |
|                                                                 | (W3 V (97)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                         |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |       |      |                                                                                   |  |           |                       |
|                                                                 | (W3 V (97)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                         |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |       |      |                                                                                   |  |           |                       |
|                                                                 | (W3 V (97)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                         |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |       |      |                                                                                   |  |           |                       |
|                                                                 | (W3 V (97)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                         |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |       |      |                                                                                   |  |           |                       |
|                                                                 | (W3 V (97)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                         |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |       |      |                                                                                   |  |           |                       |
| Fixed Targets                                                   | <table><tr><th>#</th><th>Name</th><th>Target Coordinates</th><th>Targ. Coord. Corrections</th><th>Fluxes</th><th>Miscellaneous</th></tr><tr><td>(101)</td><td>W3-V</td><td>RA: 02 25 1.7422 (36.2572592d)<br/>Dec: +62 00 23.22 (62.00645d)<br/>Equinox: J2000</td><td></td><td>V=15+/-10</td><td>Reference Frame: ICRS</td></tr></table> |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |                              |       |  | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | (101) | W3-V | RA: 02 25 1.7422 (36.2572592d)<br>Dec: +62 00 23.22 (62.00645d)<br>Equinox: J2000 |  | V=15+/-10 | Reference Frame: ICRS |
|                                                                 | #                                                                                                                                                                                                                                                                                                                                         | Name                                                                              | Target Coordinates | Targ. Coord. Corrections    | Fluxes                | Miscellaneous                     |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |       |      |                                                                                   |  |           |                       |
| (101)                                                           | W3-V                                                                                                                                                                                                                                                                                                                                      | RA: 02 25 1.7422 (36.2572592d)<br>Dec: +62 00 23.22 (62.00645d)<br>Equinox: J2000 |                    | V=15+/-10                   | Reference Frame: ICRS |                                   |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |       |      |                                                                                   |  |           |                       |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                                                                                                                                                                                                                                                                                           |                                                                                   |                    |                             |                       |                                   |                                          |                                       |                                         |                              |       |  |   |      |                    |                          |        |               |       |      |                                                                                   |  |           |                       |
| Exposures                                                       | #                                                                                                                                                                                                                                                                                                                                         | Label                                                                             | Target             | Config,Mode,Aperture        | Spectral Els.         | Opt. Params.                      | Special Reqs.                            | Groups                                | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |  |   |      |                    |                          |        |               |       |      |                                                                                   |  |           |                       |
|                                                                 | 1                                                                                                                                                                                                                                                                                                                                         |                                                                                   | (101) W3-V         | WFC3/IR, MULTIACCUM, IR-FIX | F110W                 | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 V (97) | 202.934095 Secs (202.934 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |       |      |                                                                                   |  |           |                       |
|                                                                 | 2                                                                                                                                                                                                                                                                                                                                         |                                                                                   | (101) W3-V         | WFC3/IR, MULTIACCUM, IR-FIX | F139M                 | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 V (97) | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |       |      |                                                                                   |  |           |                       |
|                                                                 | 3                                                                                                                                                                                                                                                                                                                                         |                                                                                   | (101) W3-V         | WFC3/IR, MULTIACCUM, IR-FIX | F160W                 | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in W3 V (97) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |       |      |                                                                                   |  |           |                       |
|                                                                 | 4                                                                                                                                                                                                                                                                                                                                         |                                                                                   | (101) W3-V         | WFC3/IR, MULTIACCUM, IR-FIX | F160W                 | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 V (97) | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |       |      |                                                                                   |  |           |                       |
|                                                                 | 5                                                                                                                                                                                                                                                                                                                                         |                                                                                   | (101) W3-V         | WFC3/IR, MULTIACCUM, IR-FIX | F110W                 | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 V (97) | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |       |      |                                                                                   |  |           |                       |
|                                                                 | 6                                                                                                                                                                                                                                                                                                                                         |                                                                                   | (101) W3-V         | WFC3/IR, MULTIACCUM, IR-FIX | F139M                 | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 V (97) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |   |      |                    |                          |        |               |       |      |                                                                                   |  |           |                       |
|                                                                 | 7                                                                                                                                                                                                                                                                                                                                         |                                                                                   | (101) W3-V         | WFC3/IR, MULTIACCUM, IR-FIX | F139M                 | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 V (97) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |   |      |                    |                          |        |               |       |      |                                                                                   |  |           |                       |
|                                                                 | 8                                                                                                                                                                                                                                                                                                                                         |                                                                                   | (101) W3-V         | WFC3/IR, MULTIACCUM, IR-FIX | F110W                 | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 V (97) | 252.937441 Secs (252.937 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |       |      |                                                                                   |  |           |                       |
|                                                                 | 9                                                                                                                                                                                                                                                                                                                                         |                                                                                   | (101) W3-V         | WFC3/IR, MULTIACCUM, IR-FIX | F160W                 | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 V (97) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |   |      |                    |                          |        |               |       |      |                                                                                   |  |           |                       |



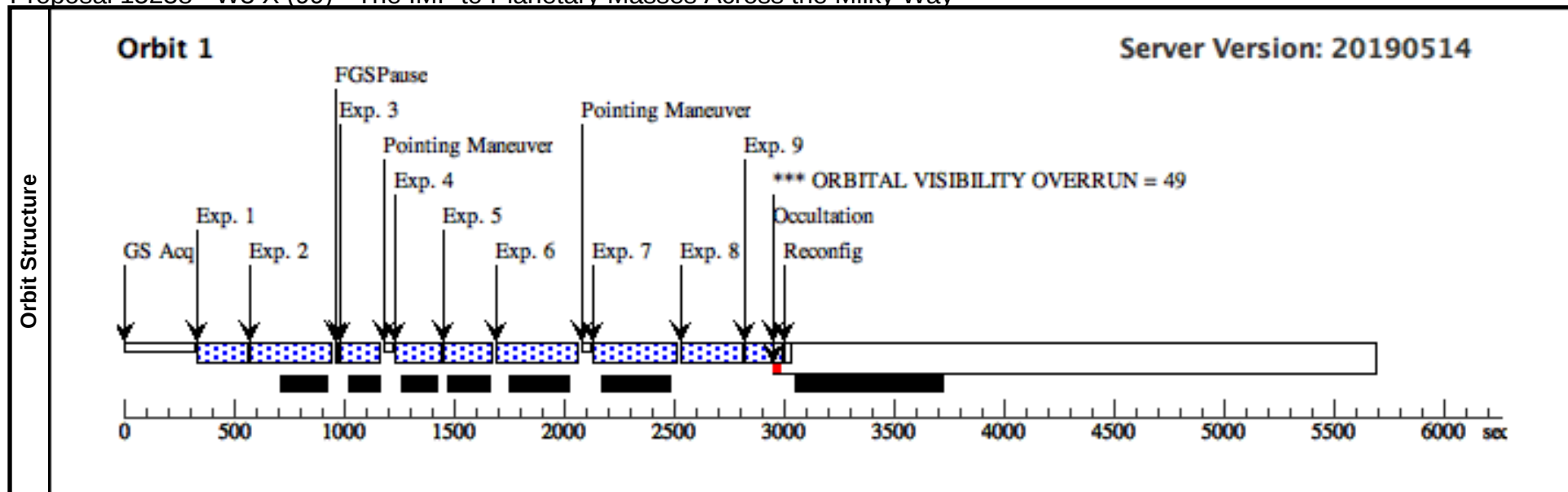
# Proposal 15238 - W3r W (98) - The IMF to Planetary Masses Across the Milky Way

|                                                                                                                                                                                      |                                                                    |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------|--------------------|-----------------------------|---------------|-----------------------------------|------------------------------------------|----------------------------------------|-----------------------------------------|------------------------------|-------|--|
| Visit                                                                                                                                                                                | Proposal 15238, W3r W (98), completed                              |       |                    |                             |               |                                   |                                          |                                        |                                         | Tue Sep 10 16:05:20 GMT 2019 |       |  |
|                                                                                                                                                                                      | Diagnostic Status: Warning                                         |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                      | Scientific Instruments: WFC3/IR                                    |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                      | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D               |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
| Diagnostics                                                                                                                                                                          | (W3r W (98)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                      | (W3r W (98)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                      | (W3r W (98)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                      | (W3r W (98)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                      | (W3r W (98)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                      | (W3r W (98)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                      | (W3r W (98)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
| Fixed Targets                                                                                                                                                                        |                                                                    |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                      | #                                                                  | Name  | Target Coordinates |                             |               | Targ. Coord. Corrections          |                                          | Fluxes                                 |                                         | Miscellaneous                |       |  |
| <div>(102)W3-WRA: 02 27 14.0028 (36.8083450d)<br/>Dec: +61 51 7.30 (61.85203d)<br/>Equinox: J2000</div> <div>Comments:<br/>Category=EXT-CLUSTER<br/>Description=[OPEN CLUSTER]</div> |                                                                    |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
| Exposures                                                                                                                                                                            | #                                                                  | Label | Target             | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                 | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |  |
|                                                                                                                                                                                      | 1                                                                  |       | (102) W3-W         | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3r W (98) | 202.934095 Secs (202.934 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                      | 2                                                                  |       | (102) W3-W         | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3r W (98) | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                      | 3                                                                  |       | (102) W3-W         | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in W3r W (98) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                      | 4                                                                  |       | (102) W3-W         | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 130,0;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3r W (98) | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                      | 5                                                                  |       | (102) W3-W         | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 130,0;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3r W (98) | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                      | 6                                                                  |       | (102) W3-W         | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 130,0;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3r W (98) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|                                                                                                                                                                                      | 7                                                                  |       | (102) W3-W         | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 260,0;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3r W (98) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|                                                                                                                                                                                      | 8                                                                  |       | (102) W3-W         | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 260,0;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3r W (98) | 252.937441 Secs (252.937 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                      | 9                                                                  |       | (102) W3-W         | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 260,0;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3r W (98) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |



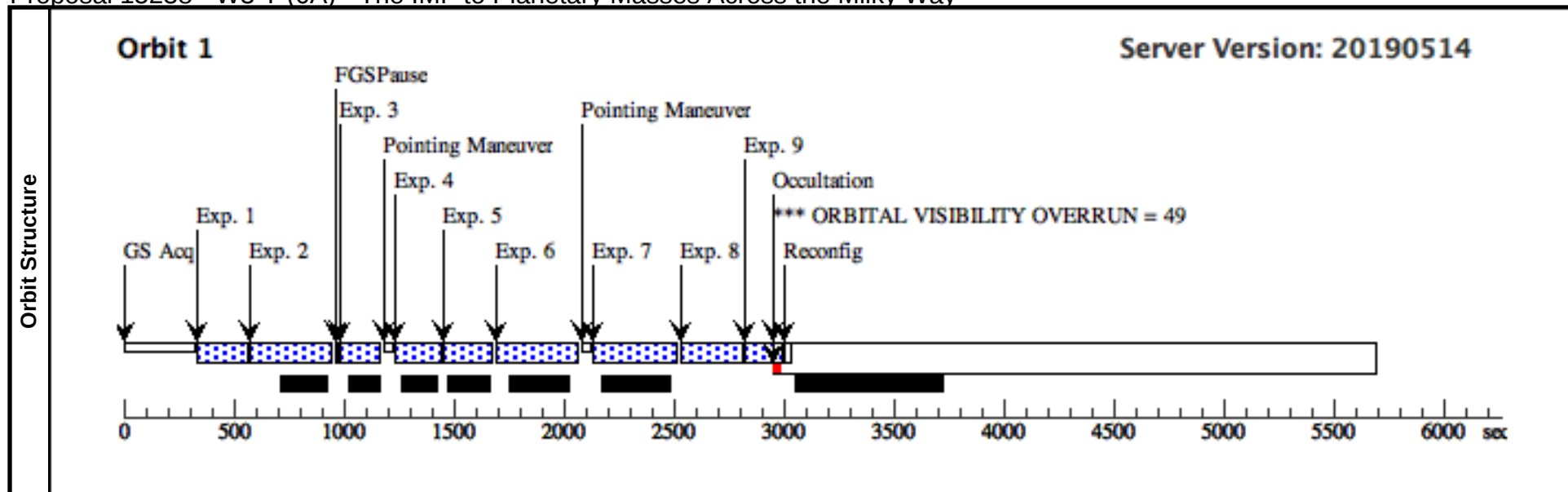
# Proposal 15238 - W3 X (99) - The IMF to Planetary Masses Across the Milky Way

|                                                                 |                                                                   |       |            |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
|-----------------------------------------------------------------|-------------------------------------------------------------------|-------|------------|-----------------------------|---------------|-----------------------------------|------------------------------------------|---------------------------------------|-----------------------------------------|---------------|------------------------------|--|--|--|--|
| Visit                                                           | Proposal 15238, W3 X (99), completed                              |       |            |                             |               |                                   |                                          |                                       |                                         |               | Tue Sep 10 16:05:20 GMT 2019 |  |  |  |  |
|                                                                 | Diagnostic Status: Warning                                        |       |            |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
|                                                                 | Scientific Instruments: WFC3/IR                                   |       |            |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D              |       |            |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
| Diagnostics                                                     | (W3 X (99)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |            |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
|                                                                 | (W3 X (99)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |            |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
|                                                                 | (W3 X (99)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |            |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
|                                                                 | (W3 X (99)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |            |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
|                                                                 | (W3 X (99)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |            |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
|                                                                 | (W3 X (99)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |            |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
|                                                                 | (W3 X (99)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |            |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
| Fixed Targets                                                   |                                                                   |       |            |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
|                                                                 | #                                                                 | Name  |            | Target Coordinates          |               | Targ. Coord. Corrections          |                                          | Fluxes                                |                                         | Miscellaneous |                              |  |  |  |  |
| (103) W3-X                                                      |                                                                   |       |            |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
| RA: 02 25 38.6265 (36.4109437d)                                 |                                                                   |       |            |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
| Dec: +61 59 11.72 (61.98659d)                                   |                                                                   |       |            |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
| Equinox: J2000                                                  |                                                                   |       |            |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                   |       |            |                             |               |                                   |                                          |                                       |                                         |               |                              |  |  |  |  |
| Exposures                                                       | #                                                                 | Label | Target     | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                | Exp. Time (Total)/[Actual Dur.]         |               | Orbit                        |  |  |  |  |
|                                                                 | 1                                                                 |       | (103) W3-X | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 X (99) | 202.934095 Secs (202.934 Secs)<br>[==>] |               | [1]                          |  |  |  |  |
|                                                                 | 2                                                                 |       | (103) W3-X | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 X (99) | 352.935448 Secs (352.935 Secs)<br>[==>] |               | [1]                          |  |  |  |  |
|                                                                 | 3                                                                 |       | (103) W3-X | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in W3 X (99) | 152.935381 Secs (152.935 Secs)<br>[==>] |               | [1]                          |  |  |  |  |
|                                                                 | 4                                                                 |       | (103) W3-X | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 X (99) | 177.935896 Secs (177.936 Secs)<br>[==>] |               | [1]                          |  |  |  |  |
|                                                                 | 5                                                                 |       | (103) W3-X | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 X (99) | 202.936411 Secs (202.936 Secs)<br>[==>] |               | [1]                          |  |  |  |  |
|                                                                 | 6                                                                 |       | (103) W3-X | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 X (99) | 352.939501 Secs (352.94 Secs)<br>[==>]  |               | [1]                          |  |  |  |  |
|                                                                 | 7                                                                 |       | (103) W3-X | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 X (99) | 352.939501 Secs (352.94 Secs)<br>[==>]  |               | [1]                          |  |  |  |  |
|                                                                 | 8                                                                 |       | (103) W3-X | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 X (99) | 252.937441 Secs (252.937 Secs)<br>[==>] |               | [1]                          |  |  |  |  |
|                                                                 | 9                                                                 |       | (103) W3-X | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 X (99) | 152.935381 Secs (152.935 Secs)<br>[==>] |               | [1]                          |  |  |  |  |



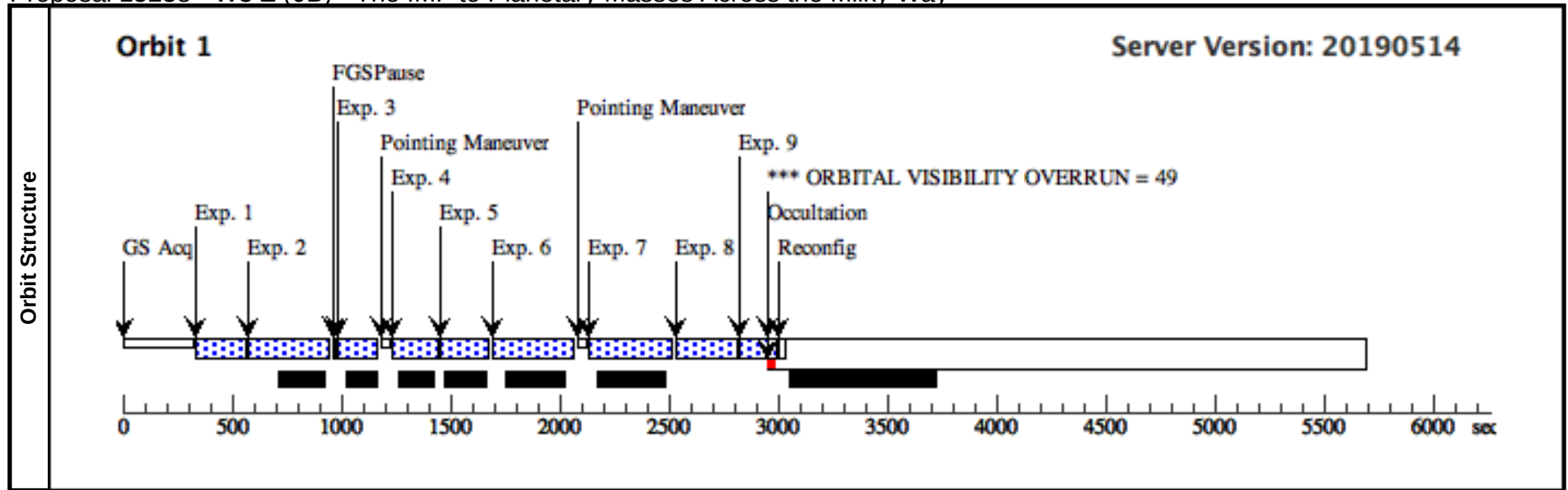
# Proposal 15238 - W3 Y (0A) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                   |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|---------------|-------------------------------------------------------------------|-------|------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------------------|---------------------------------------|-----------------------------------------|------------------------------|-------|--|
| Visit         | Proposal 15238, W3 Y (0A), completed                              |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         | Tue Sep 10 16:05:20 GMT 2019 |       |  |
|               | Diagnostic Status: Warning                                        |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | Scientific Instruments: WFC3/IR                                   |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D              |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Diagnostics   | (W3 Y (0A)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | (W3 Y (0A)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | (W3 Y (0A)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | (W3 Y (0A)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | (W3 Y (0A)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | (W3 Y (0A)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | (W3 Y (0A)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Fixed Targets |                                                                   |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | #                                                                 | Name  | Target Coordinates                                                                 |                             |               | Targ. Coord. Corrections          |                                          | Fluxes                                |                                         | Miscellaneous                |       |  |
|               | (104)                                                             | W3-Y  | RA: 02 25 51.5367 (36.4647363d)<br>Dec: +62 00 41.94 (62.01165d)<br>Equinox: J2000 |                             |               |                                   |                                          | V=15+/-10                             |                                         | Reference Frame: ICRS        |       |  |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]   |       |                                                                                    |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Exposures     | #                                                                 | Label | Target                                                                             | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |  |
|               | 1                                                                 |       | (104) W3-Y                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 Y (0A) | 202.934095 Secs (202.934 Secs)<br>[==>] |                              | [1]   |  |
|               | 2                                                                 |       | (104) W3-Y                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 Y (0A) | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |  |
|               | 3                                                                 |       | (104) W3-Y                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in W3 Y (0A) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |
|               | 4                                                                 |       | (104) W3-Y                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 Y (0A) | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |  |
|               | 5                                                                 |       | (104) W3-Y                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 Y (0A) | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |  |
|               | 6                                                                 |       | (104) W3-Y                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 Y (0A) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|               | 7                                                                 |       | (104) W3-Y                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 Y (0A) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|               | 8                                                                 |       | (104) W3-Y                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 Y (0A) | 252.937441 Secs (252.937 Secs)<br>[==>] |                              | [1]   |  |
|               | 9                                                                 |       | (104) W3-Y                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 Y (0A) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |



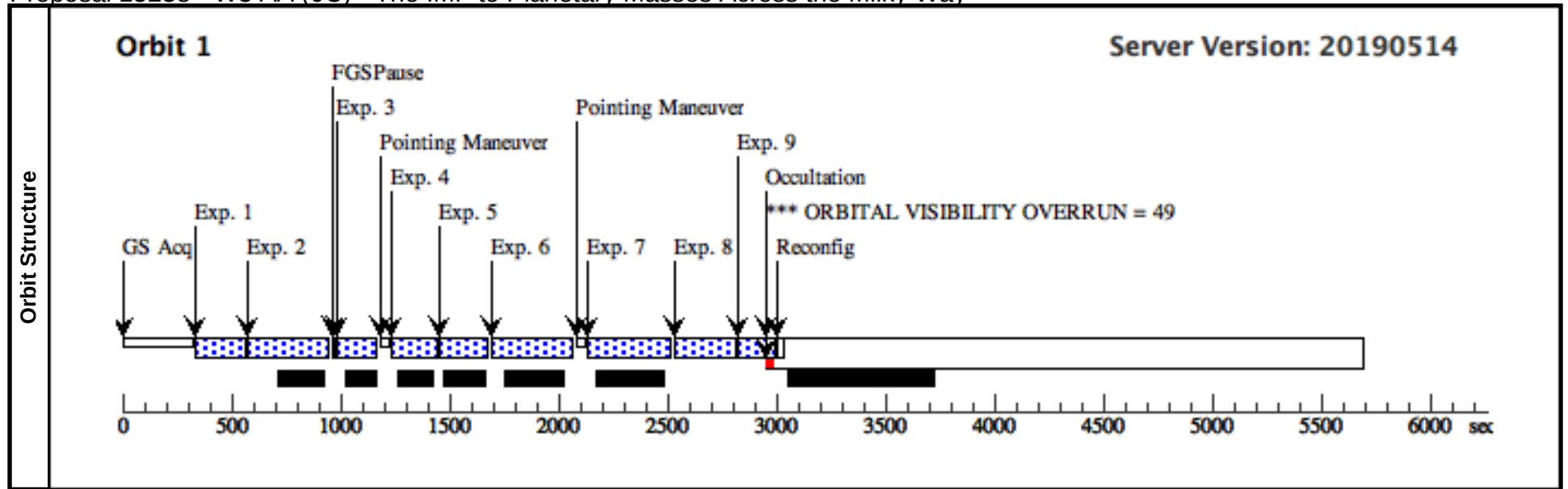
# Proposal 15238 - W3 Z (0B) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                   |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|---------------|-------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------------------|---------------------------------------|-----------------------------------------|------------------------------|-------|--|
| Visit         | Proposal 15238, W3 Z (0B), completed                              |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         | Tue Sep 10 16:05:20 GMT 2019 |       |  |
|               | Diagnostic Status: Warning                                        |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | Scientific Instruments: WFC3/IR                                   |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D              |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Diagnostics   | (W3 Z (0B)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | (W3 Z (0B)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | (W3 Z (0B)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | (W3 Z (0B)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | (W3 Z (0B)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | (W3 Z (0B)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | (W3 Z (0B)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Fixed Targets |                                                                   |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
|               | #                                                                 | Name  | Target Coordinates                                                                |                             |               | Targ. Coord. Corrections          |                                          | Fluxes                                |                                         | Miscellaneous                |       |  |
|               | (105)                                                             | W3-Z  | RA: 02 26 4.8258 (36.5201075d)<br>Dec: +62 02 12.08 (62.03669d)<br>Equinox: J2000 |                             |               |                                   |                                          | V=15+/-10                             |                                         | Reference Frame: ICRS        |       |  |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]   |       |                                                                                   |                             |               |                                   |                                          |                                       |                                         |                              |       |  |
| Exposures     | #                                                                 | Label | Target                                                                            | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |  |
|               | 1                                                                 |       | (105) W3-Z                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 Z (0B) | 202.934095 Secs (202.934 Secs)<br>[==>] |                              | [1]   |  |
|               | 2                                                                 |       | (105) W3-Z                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 Z (0B) | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |  |
|               | 3                                                                 |       | (105) W3-Z                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in W3 Z (0B) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |
|               | 4                                                                 |       | (105) W3-Z                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 Z (0B) | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |  |
|               | 5                                                                 |       | (105) W3-Z                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 Z (0B) | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |  |
|               | 6                                                                 |       | (105) W3-Z                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 Z (0B) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|               | 7                                                                 |       | (105) W3-Z                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 Z (0B) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|               | 8                                                                 |       | (105) W3-Z                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 Z (0B) | 252.937441 Secs (252.937 Secs)<br>[==>] |                              | [1]   |  |
|               | 9                                                                 |       | (105) W3-Z                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 Z (0B) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |



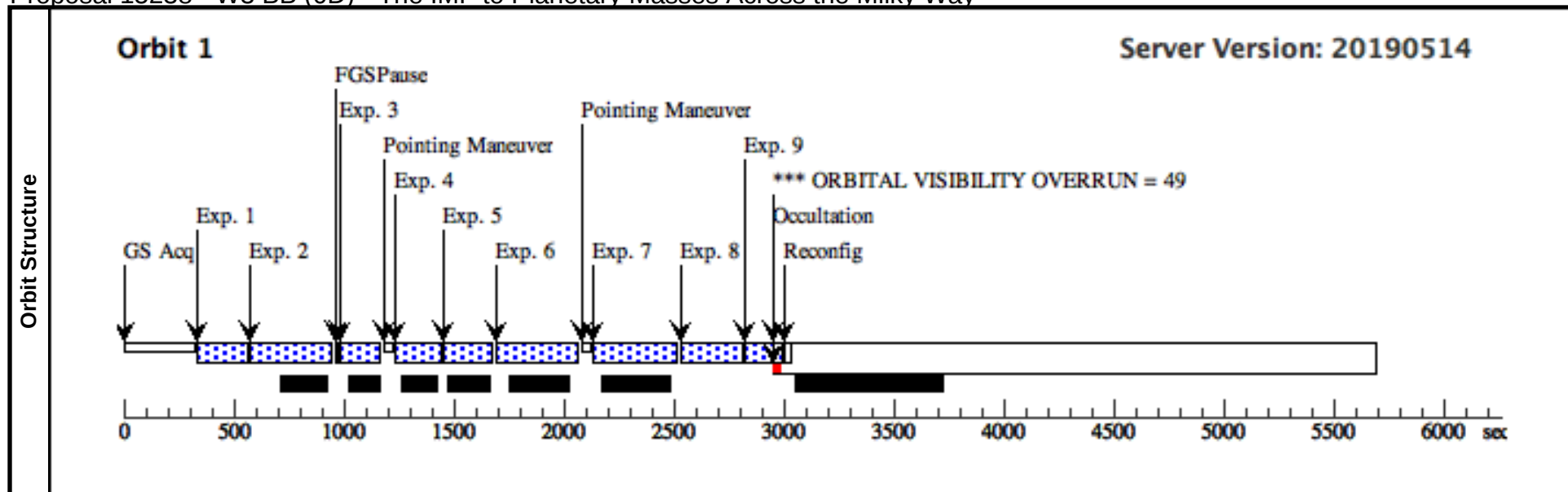
# Proposal 15238 - W3 AA (0C) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                    |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|---------------|--------------------------------------------------------------------|-------|------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------------------|----------------------------------------|-----------------------------------------|------------------------------|-------|--|
| Visit         | Proposal 15238, W3 AA (0C), completed                              |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         | Tue Sep 10 16:05:20 GMT 2019 |       |  |
|               | Diagnostic Status: Warning                                         |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | Scientific Instruments: WFC3/IR                                    |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D               |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
| Diagnostics   | (W3 AA (0C)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | (W3 AA (0C)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | (W3 AA (0C)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | (W3 AA (0C)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | (W3 AA (0C)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | (W3 AA (0C)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | (W3 AA (0C)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
| Fixed Targets |                                                                    |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | #                                                                  | Name  | Target Coordinates                                                                 |                             |               | Targ. Coord. Corrections          |                                          | Fluxes                                 |                                         | Miscellaneous                |       |  |
|               | (106)                                                              | W3-AA | RA: 02 26 17.7813 (36.5740888d)<br>Dec: +62 03 46.76 (62.06299d)<br>Equinox: J2000 |                             |               |                                   |                                          | V=15+/-10                              |                                         | Reference Frame: ICRS        |       |  |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]    |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
| Exposures     | #                                                                  | Label | Target                                                                             | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                 | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |  |
|               | 1                                                                  |       | (106) W3-AA                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 AA (0C) | 202.934095 Secs (202.934 Secs)<br>[==>] |                              | [1]   |  |
|               | 2                                                                  |       | (106) W3-AA                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 AA (0C) | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |  |
|               | 3                                                                  |       | (106) W3-AA                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in W3 AA (0C) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |
|               | 4                                                                  |       | (106) W3-AA                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 AA (0C) | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |  |
|               | 5                                                                  |       | (106) W3-AA                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 AA (0C) | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |  |
|               | 6                                                                  |       | (106) W3-AA                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 AA (0C) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|               | 7                                                                  |       | (106) W3-AA                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 AA (0C) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|               | 8                                                                  |       | (106) W3-AA                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 AA (0C) | 252.937441 Secs (252.937 Secs)<br>[==>] |                              | [1]   |  |
|               | 9                                                                  |       | (106) W3-AA                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 AA (0C) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |



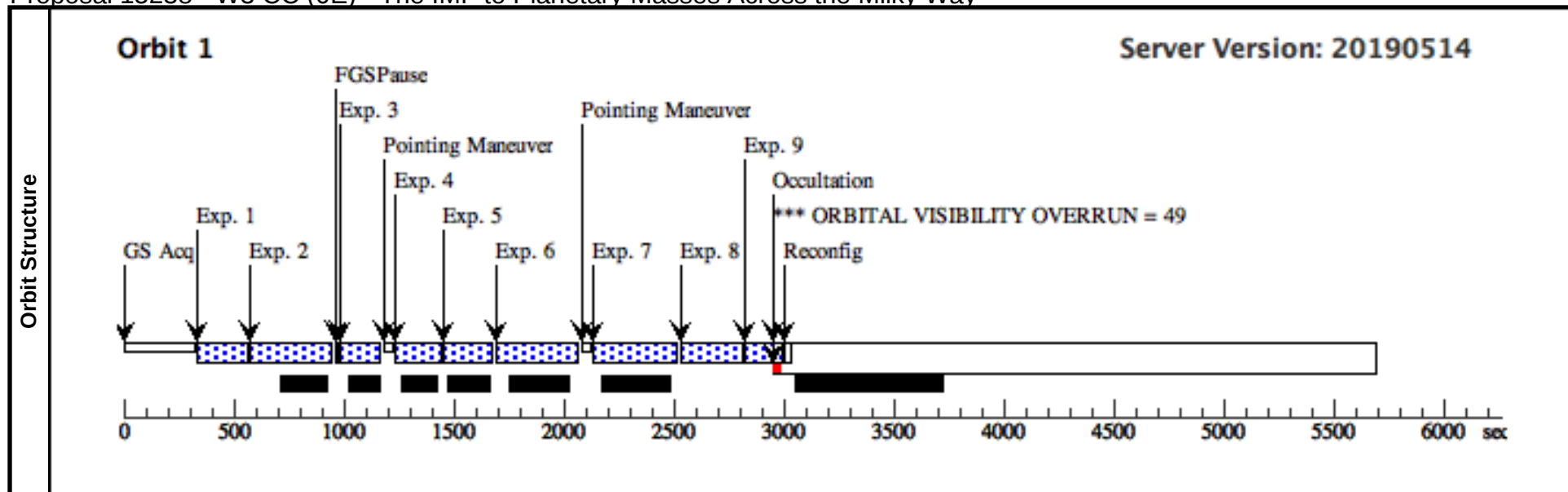
# Proposal 15238 - W3 BB (0D) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                    |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|---------------|--------------------------------------------------------------------|-------|------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------------------|----------------------------------------|-----------------------------------------|------------------------------|-------|--|
| Visit         | Proposal 15238, W3 BB (0D), completed                              |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         | Tue Sep 10 16:05:20 GMT 2019 |       |  |
|               | Diagnostic Status: Warning                                         |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | Scientific Instruments: WFC3/IR                                    |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D               |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
| Diagnostics   | (W3 BB (0D)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | (W3 BB (0D)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | (W3 BB (0D)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | (W3 BB (0D)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | (W3 BB (0D)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | (W3 BB (0D)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | (W3 BB (0D)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
| Fixed Targets |                                                                    |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | #                                                                  | Name  | Target Coordinates                                                                 |                             |               | Targ. Coord. Corrections          |                                          | Fluxes                                 |                                         | Miscellaneous                |       |  |
|               | (107)                                                              | W3-BB | RA: 02 26 55.0814 (36.7295058d)<br>Dec: +62 02 32.81 (62.04245d)<br>Equinox: J2000 |                             |               |                                   |                                          | V=15+/-10                              |                                         | Reference Frame: ICRS        |       |  |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]    |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
| Exposures     | #                                                                  | Label | Target                                                                             | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                 | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |  |
|               | 1                                                                  |       | (107) W3-BB                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 BB (0D) | 202.934095 Secs (202.934 Secs)<br>[==>] |                              | [1]   |  |
|               | 2                                                                  |       | (107) W3-BB                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 BB (0D) | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |  |
|               | 3                                                                  |       | (107) W3-BB                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in W3 BB (0D) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |
|               | 4                                                                  |       | (107) W3-BB                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 BB (0D) | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |  |
|               | 5                                                                  |       | (107) W3-BB                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 BB (0D) | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |  |
|               | 6                                                                  |       | (107) W3-BB                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 BB (0D) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|               | 7                                                                  |       | (107) W3-BB                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 BB (0D) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|               | 8                                                                  |       | (107) W3-BB                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 BB (0D) | 252.937441 Secs (252.937 Secs)<br>[==>] |                              | [1]   |  |
|               | 9                                                                  |       | (107) W3-BB                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 BB (0D) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |



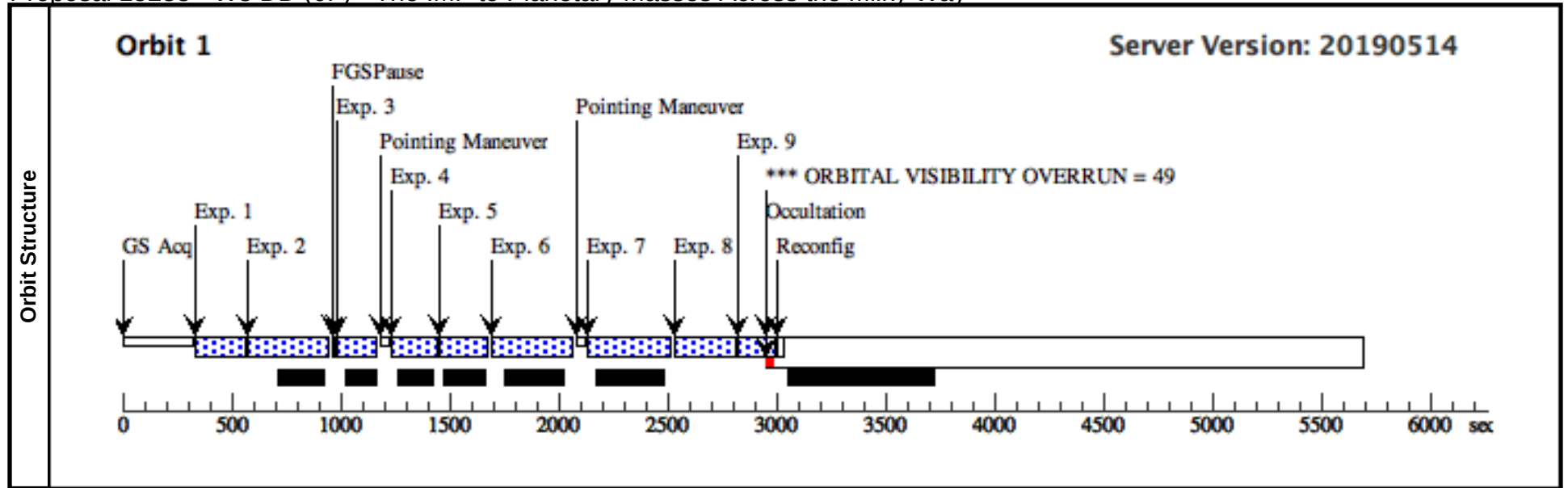
# Proposal 15238 - W3 CC (0E) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                    |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|---------------|--------------------------------------------------------------------|-------|----------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------------------|----------------------------------------|-----------------------------------------|------------------------------|-------|--|
| Visit         | Proposal 15238, W3 CC (0E), completed                              |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         | Tue Sep 10 16:05:20 GMT 2019 |       |  |
|               | Diagnostic Status: Warning                                         |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | Scientific Instruments: WFC3/IR                                    |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D               |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
| Diagnostics   | (W3 CC (0E)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | (W3 CC (0E)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | (W3 CC (0E)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | (W3 CC (0E)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | (W3 CC (0E)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | (W3 CC (0E)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | (W3 CC (0E)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
| Fixed Targets |                                                                    |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | #                                                                  | Name  | Target Coordinates                                                               |                             |               | Targ. Coord. Corrections          |                                          | Fluxes                                 |                                         | Miscellaneous                |       |  |
|               | (108)                                                              | W3-CC | RA: 02 27 7.9685 (36.7832021d)<br>Dec: +62 04 5.10 (62.06808d)<br>Equinox: J2000 |                             |               |                                   |                                          | V=15+/-10                              |                                         | Reference Frame: ICRS        |       |  |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]    |       |                                                                                  |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
| Exposures     | #                                                                  | Label | Target                                                                           | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                 | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |  |
|               | 1                                                                  |       | (108) W3-CC                                                                      | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 CC (0E) | 202.934095 Secs (202.934 Secs)<br>[==>] |                              | [1]   |  |
|               | 2                                                                  |       | (108) W3-CC                                                                      | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 CC (0E) | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |  |
|               | 3                                                                  |       | (108) W3-CC                                                                      | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in W3 CC (0E) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |
|               | 4                                                                  |       | (108) W3-CC                                                                      | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 CC (0E) | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |  |
|               | 5                                                                  |       | (108) W3-CC                                                                      | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 CC (0E) | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |  |
|               | 6                                                                  |       | (108) W3-CC                                                                      | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 CC (0E) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|               | 7                                                                  |       | (108) W3-CC                                                                      | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 CC (0E) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|               | 8                                                                  |       | (108) W3-CC                                                                      | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 CC (0E) | 252.937441 Secs (252.937 Secs)<br>[==>] |                              | [1]   |  |
|               | 9                                                                  |       | (108) W3-CC                                                                      | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 CC (0E) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |



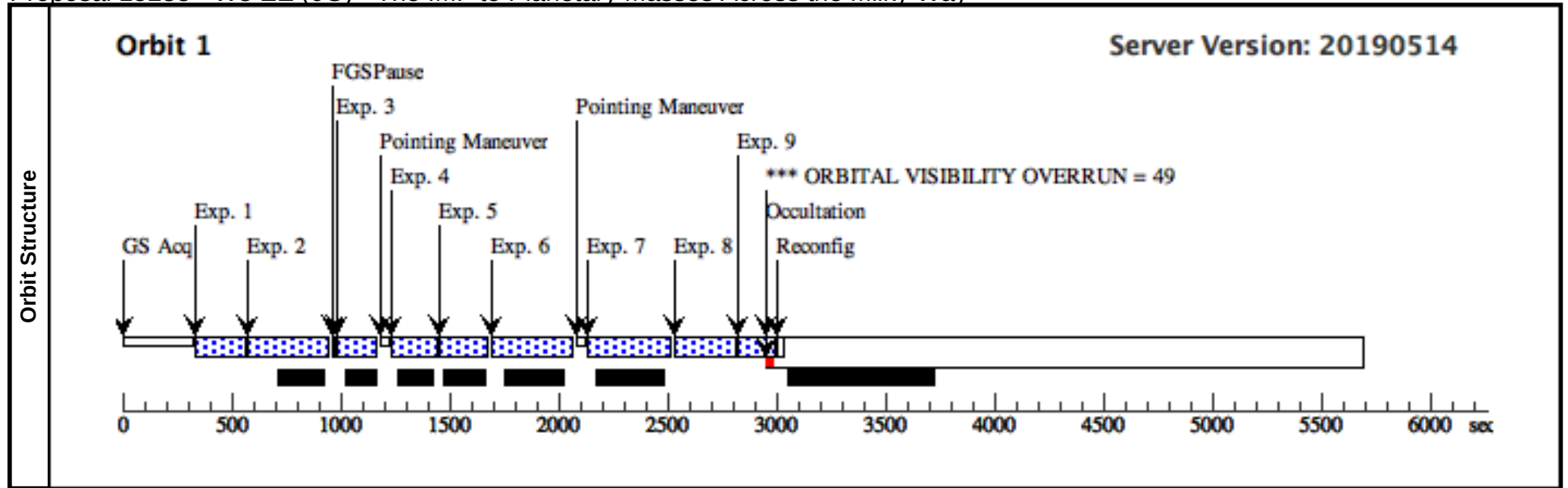
# Proposal 15238 - W3 DD (0F) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                    |       |             |                                                                                    |               |                                   |                                          |                                        |                                         |                       |                              |  |  |  |
|---------------|--------------------------------------------------------------------|-------|-------------|------------------------------------------------------------------------------------|---------------|-----------------------------------|------------------------------------------|----------------------------------------|-----------------------------------------|-----------------------|------------------------------|--|--|--|
| Visit         | Proposal 15238, W3 DD (0F), completed                              |       |             |                                                                                    |               |                                   |                                          |                                        |                                         |                       | Tue Sep 10 16:05:21 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                         |       |             |                                                                                    |               |                                   |                                          |                                        |                                         |                       |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                    |       |             |                                                                                    |               |                                   |                                          |                                        |                                         |                       |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D               |       |             |                                                                                    |               |                                   |                                          |                                        |                                         |                       |                              |  |  |  |
| Diagnostics   | (W3 DD (0F)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |             |                                                                                    |               |                                   |                                          |                                        |                                         |                       |                              |  |  |  |
|               | (W3 DD (0F)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |             |                                                                                    |               |                                   |                                          |                                        |                                         |                       |                              |  |  |  |
|               | (W3 DD (0F)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |             |                                                                                    |               |                                   |                                          |                                        |                                         |                       |                              |  |  |  |
|               | (W3 DD (0F)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |             |                                                                                    |               |                                   |                                          |                                        |                                         |                       |                              |  |  |  |
|               | (W3 DD (0F)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |             |                                                                                    |               |                                   |                                          |                                        |                                         |                       |                              |  |  |  |
|               | (W3 DD (0F)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |             |                                                                                    |               |                                   |                                          |                                        |                                         |                       |                              |  |  |  |
|               | (W3 DD (0F)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |             |                                                                                    |               |                                   |                                          |                                        |                                         |                       |                              |  |  |  |
| Fixed Targets |                                                                    |       |             |                                                                                    |               |                                   |                                          |                                        |                                         |                       |                              |  |  |  |
|               | #                                                                  | Name  |             | Target Coordinates                                                                 |               | Targ. Coord. Corrections          |                                          | Fluxes                                 |                                         | Miscellaneous         |                              |  |  |  |
|               | (109)                                                              | W3-DD |             | RA: 02 26 37.6024 (36.6566767d)<br>Dec: +61 52 18.35 (61.87176d)<br>Equinox: J2000 |               |                                   |                                          | V=15+/-10                              |                                         | Reference Frame: ICRS |                              |  |  |  |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]    |       |             |                                                                                    |               |                                   |                                          |                                        |                                         |                       |                              |  |  |  |
| Exposures     | #                                                                  | Label | Target      | Config,Mode,Aperture                                                               | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                 | Exp. Time (Total)/[Actual Dur.]         |                       | Orbit                        |  |  |  |
|               | 1                                                                  |       | (109) W3-DD | WFC3/IR, MULTIACCUM, IR-FIX                                                        | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 DD (0F) | 202.934095 Secs (202.934 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|               | 2                                                                  |       | (109) W3-DD | WFC3/IR, MULTIACCUM, IR-FIX                                                        | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 DD (0F) | 352.935448 Secs (352.935 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|               | 3                                                                  |       | (109) W3-DD | WFC3/IR, MULTIACCUM, IR-FIX                                                        | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in W3 DD (0F) | 152.935381 Secs (152.935 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|               | 4                                                                  |       | (109) W3-DD | WFC3/IR, MULTIACCUM, IR-FIX                                                        | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 DD (0F) | 177.935896 Secs (177.936 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|               | 5                                                                  |       | (109) W3-DD | WFC3/IR, MULTIACCUM, IR-FIX                                                        | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 DD (0F) | 202.936411 Secs (202.936 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|               | 6                                                                  |       | (109) W3-DD | WFC3/IR, MULTIACCUM, IR-FIX                                                        | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 DD (0F) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                       | [1]                          |  |  |  |
|               | 7                                                                  |       | (109) W3-DD | WFC3/IR, MULTIACCUM, IR-FIX                                                        | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 DD (0F) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                       | [1]                          |  |  |  |
|               | 8                                                                  |       | (109) W3-DD | WFC3/IR, MULTIACCUM, IR-FIX                                                        | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 DD (0F) | 252.937441 Secs (252.937 Secs)<br>[==>] |                       | [1]                          |  |  |  |
|               | 9                                                                  |       | (109) W3-DD | WFC3/IR, MULTIACCUM, IR-FIX                                                        | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 DD (0F) | 152.935381 Secs (152.935 Secs)<br>[==>] |                       | [1]                          |  |  |  |



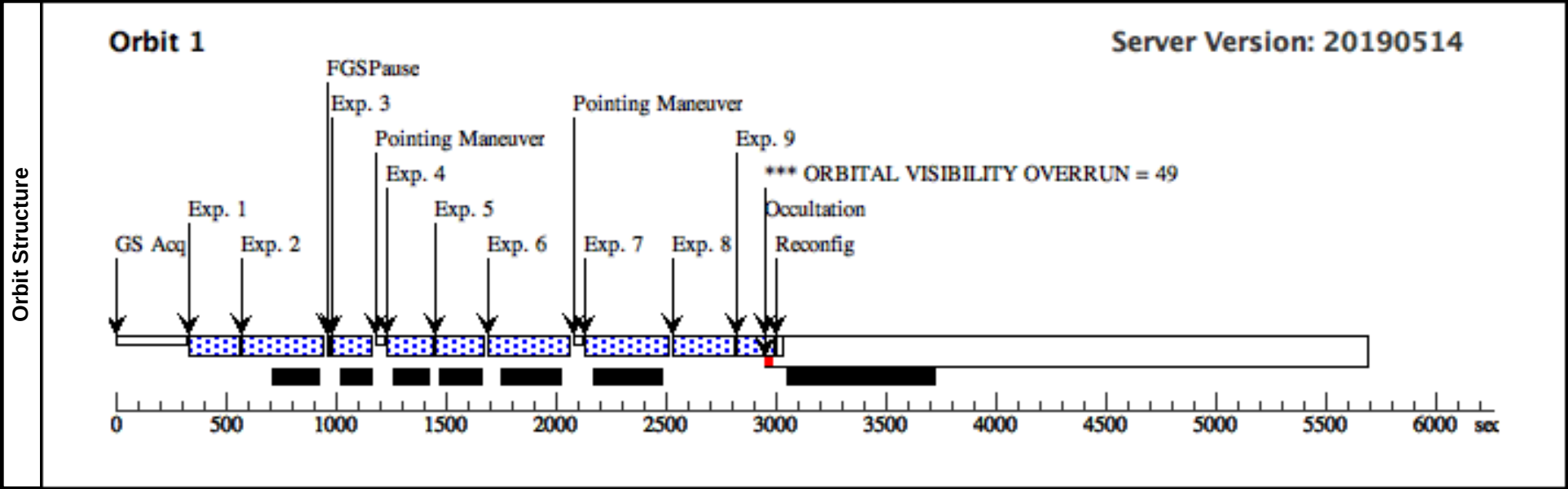
# Proposal 15238 - W3 EE (0G) - The IMF to Planetary Masses Across the Milky Way

|                                                                                                                                                                                                  |                                                                    |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------|--------------------|-----------------------------|---------------|-----------------------------------|------------------------------------------|----------------------------------------|-----------------------------------------|------------------------------|-------|--|
| Visit                                                                                                                                                                                            | Proposal 15238, W3 EE (0G), completed                              |       |                    |                             |               |                                   |                                          |                                        |                                         | Tue Sep 10 16:05:21 GMT 2019 |       |  |
|                                                                                                                                                                                                  | Diagnostic Status: Warning                                         |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                                  | Scientific Instruments: WFC3/IR                                    |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                                  | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D               |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
| Diagnostics                                                                                                                                                                                      | (W3 EE (0G)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                                  | (W3 EE (0G)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                                  | (W3 EE (0G)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                                  | (W3 EE (0G)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                                  | (W3 EE (0G)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                                  | (W3 EE (0G)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                                  | (W3 EE (0G)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
| Fixed Targets                                                                                                                                                                                    |                                                                    |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|                                                                                                                                                                                                  | #                                                                  | Name  | Target Coordinates |                             |               | Targ. Coord. Corrections          |                                          | Fluxes                                 |                                         | Miscellaneous                |       |  |
| <div>(110)      W3-EE      RA: 02 26 27.0489 (36.6127038d)<br/>Dec: +61 56 36.55 (61.94349d)<br/>Equinox: J2000<br/><br/>Comments:<br/>Category=EXT-CLUSTER<br/>Description=[OPEN CLUSTER]</div> |                                                                    |       |                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
| Exposures                                                                                                                                                                                        | #                                                                  | Label | Target             | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                 | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |  |
|                                                                                                                                                                                                  | 1                                                                  |       | (110) W3-EE        | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 EE (0G) | 202.934095 Secs (202.934 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                                  | 2                                                                  |       | (110) W3-EE        | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 EE (0G) | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                                  | 3                                                                  |       | (110) W3-EE        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in W3 EE (0G) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                                  | 4                                                                  |       | (110) W3-EE        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 EE (0G) | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                                  | 5                                                                  |       | (110) W3-EE        | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 EE (0G) | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                                  | 6                                                                  |       | (110) W3-EE        | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 EE (0G) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|                                                                                                                                                                                                  | 7                                                                  |       | (110) W3-EE        | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 EE (0G) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|                                                                                                                                                                                                  | 8                                                                  |       | (110) W3-EE        | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 EE (0G) | 252.937441 Secs (252.937 Secs)<br>[==>] |                              | [1]   |  |
|                                                                                                                                                                                                  | 9                                                                  |       | (110) W3-EE        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 EE (0G) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |



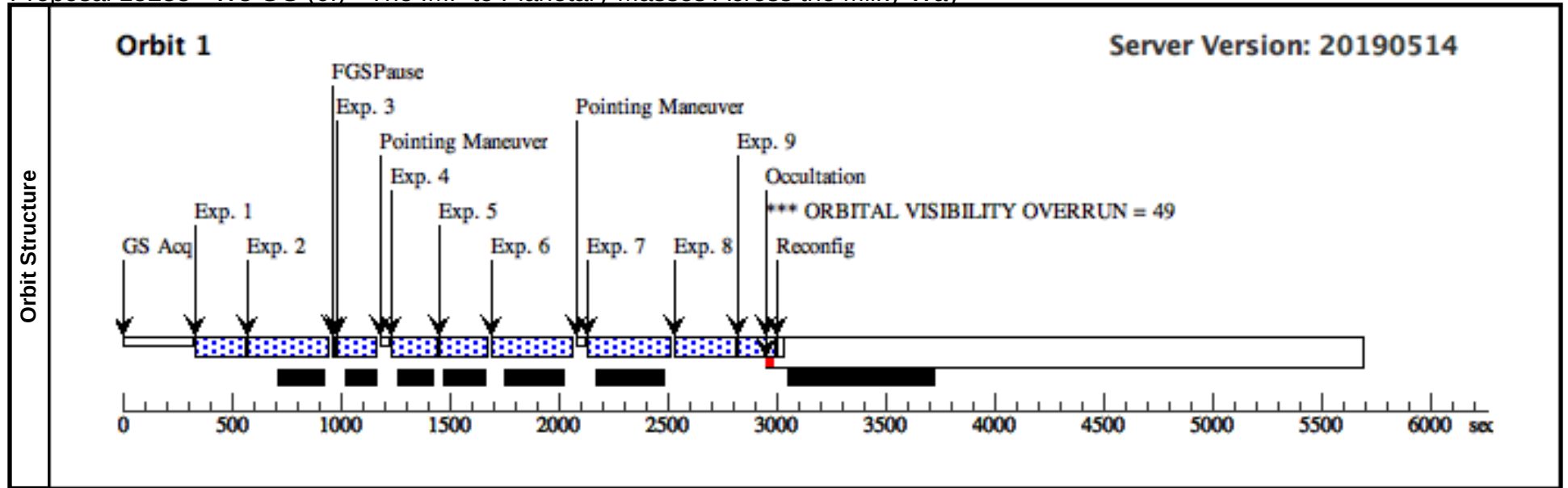
# Proposal 15238 - W3 FF (0H) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                    |       |                                                                                   |                             |               |                                   |                                          |                                    |                                         |                       |                              |  |
|---------------|--------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------------------|------------------------------------|-----------------------------------------|-----------------------|------------------------------|--|
| Visit         | Proposal 15238, W3 FF (0H), completed                              |       |                                                                                   |                             |               |                                   |                                          |                                    |                                         |                       | Tue Sep 10 16:05:21 GMT 2019 |  |
|               | Diagnostic Status: Warning                                         |       |                                                                                   |                             |               |                                   |                                          |                                    |                                         |                       |                              |  |
|               | Scientific Instruments: WFC3/IR                                    |       |                                                                                   |                             |               |                                   |                                          |                                    |                                         |                       |                              |  |
|               | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D               |       |                                                                                   |                             |               |                                   |                                          |                                    |                                         |                       |                              |  |
| Diagnostics   | (W3 FF (0H)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                                                                                   |                             |               |                                   |                                          |                                    |                                         |                       |                              |  |
|               | (W3 FF (0H)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                   |                             |               |                                   |                                          |                                    |                                         |                       |                              |  |
|               | (W3 FF (0H)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                   |                             |               |                                   |                                          |                                    |                                         |                       |                              |  |
|               | (W3 FF (0H)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                   |                             |               |                                   |                                          |                                    |                                         |                       |                              |  |
|               | (W3 FF (0H)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                   |                             |               |                                   |                                          |                                    |                                         |                       |                              |  |
|               | (W3 FF (0H)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                   |                             |               |                                   |                                          |                                    |                                         |                       |                              |  |
|               | (W3 FF (0H)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                   |                             |               |                                   |                                          |                                    |                                         |                       |                              |  |
| Fixed Targets |                                                                    |       |                                                                                   |                             |               |                                   |                                          |                                    |                                         |                       |                              |  |
|               | #                                                                  | Name  | Target Coordinates                                                                |                             |               | Targ. Coord. Corrections          |                                          | Fluxes                             |                                         | Miscellaneous         |                              |  |
|               | (111)                                                              | W3-FF | RA: 02 26 40.3401 (36.6680838d)<br>Dec: +61 58 8.99 (61.96916d)<br>Equinox: J2000 |                             |               |                                   |                                          | V=15+/-10                          |                                         | Reference Frame: ICRS |                              |  |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]    |       |                                                                                   |                             |               |                                   |                                          |                                    |                                         |                       |                              |  |
| Exposures     | #                                                                  | Label | Target                                                                            | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                             | Exp. Time (Total)/[Actual Dur.]         |                       | Orbit                        |  |
|               | 1                                                                  |       | (111) W3-FF                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-Int in W3 FF (0H) | 202.934095 Secs (202.934 Secs)<br>[==>] |                       | [1]                          |  |
|               | 2                                                                  |       | (111) W3-FF                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-Int in W3 FF (0H) | 352.935448 Secs (352.935 Secs)<br>[==>] |                       | [1]                          |  |
|               | 3                                                                  |       | (111) W3-FF                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-Int in W3 FF (0H) | 152.935381 Secs (152.935 Secs)<br>[==>] |                       | [1]                          |  |
|               | 4                                                                  |       | (111) W3-FF                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-Int in W3 FF (0H) | 177.935896 Secs (177.936 Secs)<br>[==>] |                       | [1]                          |  |
|               | 5                                                                  |       | (111) W3-FF                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-Int in W3 FF (0H) | 202.936411 Secs (202.936 Secs)<br>[==>] |                       | [1]                          |  |
|               | 6                                                                  |       | (111) W3-FF                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-Int in W3 FF (0H) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                       | [1]                          |  |
|               | 7                                                                  |       | (111) W3-FF                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-Int in W3 FF (0H) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                       | [1]                          |  |
|               | 8                                                                  |       | (111) W3-FF                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-Int in W3 FF (0H) | 252.937441 Secs (252.937 Secs)<br>[==>] |                       | [1]                          |  |
|               | 9                                                                  |       | (111) W3-FF                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-Int in W3 FF (0H) | 152.935381 Secs (152.935 Secs)<br>[==>] |                       | [1]                          |  |



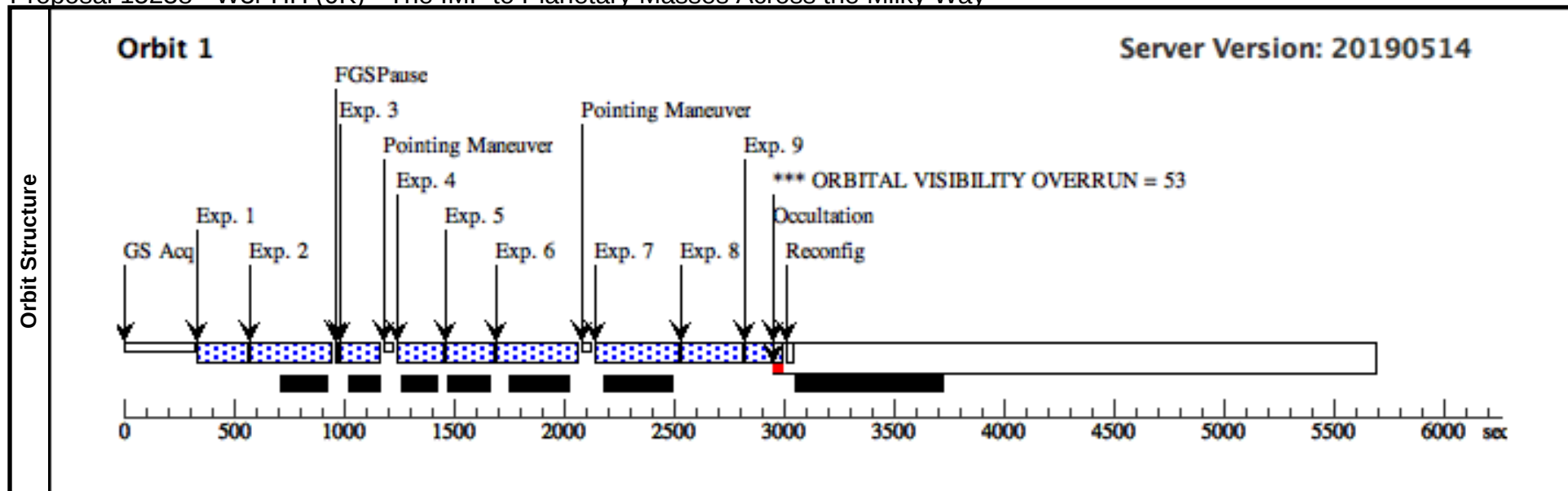
# Proposal 15238 - W3 GG (0I) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                    |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|---------------|--------------------------------------------------------------------|-------|------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------------------|----------------------------------------|-----------------------------------------|------------------------------|-------|--|
| Visit         | Proposal 15238, W3 GG (0I), completed                              |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         | Tue Sep 10 16:05:21 GMT 2019 |       |  |
|               | Diagnostic Status: Warning                                         |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | Scientific Instruments: WFC3/IR                                    |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D               |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
| Diagnostics   | (W3 GG (0I)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | (W3 GG (0I)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | (W3 GG (0I)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | (W3 GG (0I)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | (W3 GG (0I)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | (W3 GG (0I)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               | (W3 GG (0I)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
| Fixed Targets | #                                                                  | Name  | Target Coordinates                                                                 |                             |               | Targ. Coord. Corrections          |                                          | Fluxes                                 |                                         | Miscellaneous                |       |  |
|               | (112)                                                              | W3-GG | RA: 02 26 54.0079 (36.7250329d)<br>Dec: +61 59 38.81 (61.99411d)<br>Equinox: J2000 |                             |               |                                   |                                          | V=15+/-10                              |                                         | Reference Frame: ICRS        |       |  |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]    |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
|               |                                                                    |       |                                                                                    |                             |               |                                   |                                          |                                        |                                         |                              |       |  |
| Exposures     | #                                                                  | Label | Target                                                                             | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                            | Groups                                 | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |  |
|               | 1                                                                  |       | (112) W3-GG                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 GG (0I) | 202.934095 Secs (202.934 Secs)<br>[==>] |                              | [1]   |  |
|               | 2                                                                  |       | (112) W3-GG                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   | Sequence 1-9 Non-In<br>t in W3 GG (0I) | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |  |
|               | 3                                                                  |       | (112) W3-GG                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   | Sequence 1-9 Non-In<br>t in W3 GG (0I) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |
|               | 4                                                                  |       | (112) W3-GG                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 GG (0I) | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |  |
|               | 5                                                                  |       | (112) W3-GG                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 GG (0I) | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |  |
|               | 6                                                                  |       | (112) W3-GG                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 GG (0I) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|               | 7                                                                  |       | (112) W3-GG                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 GG (0I) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |
|               | 8                                                                  |       | (112) W3-GG                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 GG (0I) | 252.937441 Secs (252.937 Secs)<br>[==>] |                              | [1]   |  |
|               | 9                                                                  |       | (112) W3-GG                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-In<br>t in W3 GG (0I) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |



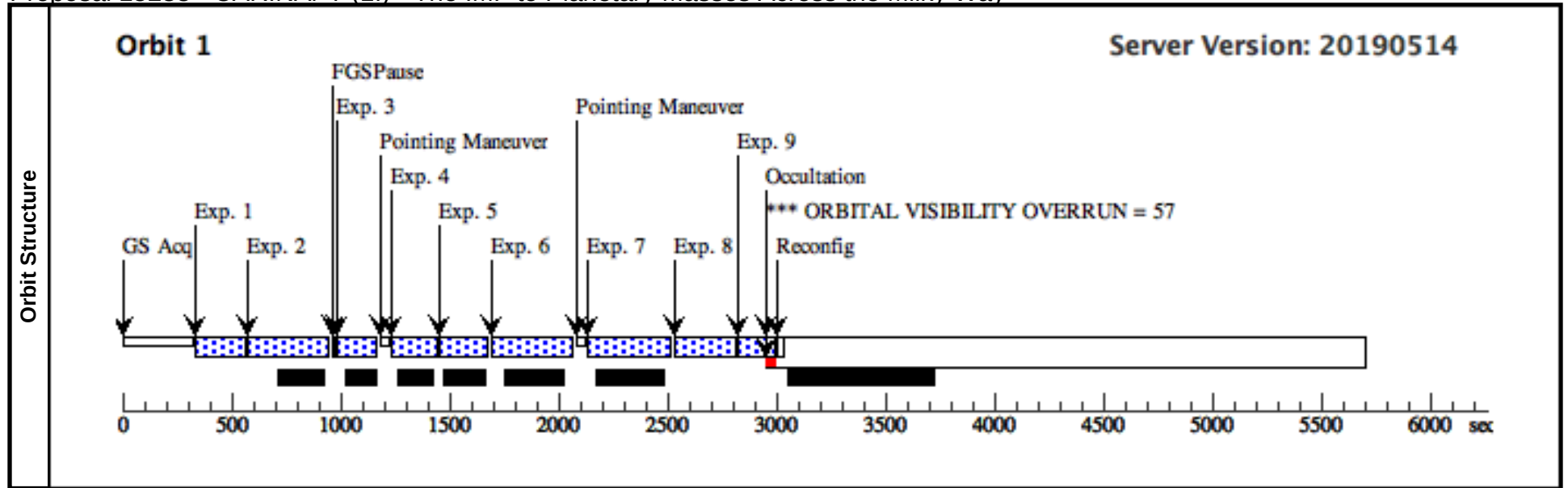
# Proposal 15238 - W3r HH (0K) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|---------------|---------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, W3r HH (0K), completed                              |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:21 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                          |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 90D TO 90 D                |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics   | (W3r HH (0K)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (W3r HH (0K)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (W3r HH (0K)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (W3r HH (0K)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (W3r HH (0K)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (W3r HH (0K)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (W3r HH (0K)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets | #            Name                                                   |  |  |  |  |  |  |  |  |  |                              |  |  |  |



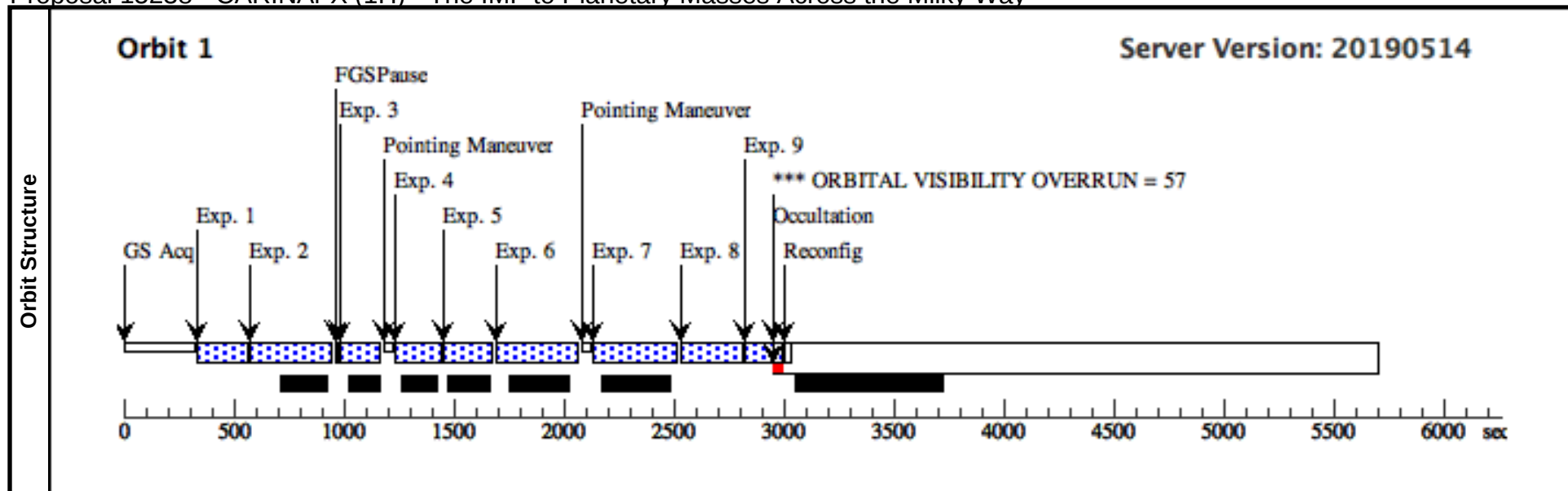
# Proposal 15238 - CARINAr Y (1I) - The IMF to Planetary Masses Across the Milky Way

|                                                                                       |                                                                        |       |                       |                             |       |                                |                                        |  |                                         |                                |                                 |     |       |  |
|---------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------|-----------------------|-----------------------------|-------|--------------------------------|----------------------------------------|--|-----------------------------------------|--------------------------------|---------------------------------|-----|-------|--|
| Visit                                                                                 | Proposal 15238, CARINAr Y (1I), completed                              |       |                       |                             |       |                                |                                        |  |                                         |                                | Tue Sep 10 16:05:21 GMT 2019    |     |       |  |
|                                                                                       | Diagnostic Status: Warning                                             |       |                       |                             |       |                                |                                        |  |                                         |                                |                                 |     |       |  |
|                                                                                       | Scientific Instruments: WFC3/IR                                        |       |                       |                             |       |                                |                                        |  |                                         |                                |                                 |     |       |  |
|                                                                                       | Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                 |       |                       |                             |       |                                |                                        |  |                                         |                                |                                 |     |       |  |
| Diagnostics                                                                           | (CARINAr Y (1I)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                       |                             |       |                                |                                        |  |                                         |                                |                                 |     |       |  |
|                                                                                       | (CARINAr Y (1I)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                       |                             |       |                                |                                        |  |                                         |                                |                                 |     |       |  |
|                                                                                       | (CARINAr Y (1I)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                       |                             |       |                                |                                        |  |                                         |                                |                                 |     |       |  |
|                                                                                       | (CARINAr Y (1I)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                       |                             |       |                                |                                        |  |                                         |                                |                                 |     |       |  |
|                                                                                       | (CARINAr Y (1I)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                       |                             |       |                                |                                        |  |                                         |                                |                                 |     |       |  |
|                                                                                       | (CARINAr Y (1I)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                       |                             |       |                                |                                        |  |                                         |                                |                                 |     |       |  |
|                                                                                       | (CARINAr Y (1I)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                       |                             |       |                                |                                        |  |                                         |                                |                                 |     |       |  |
| Fixed Targets                                                                         |                                                                        |       |                       |                             |       |                                |                                        |  |                                         |                                |                                 |     |       |  |
|                                                                                       | #                                                                      | Name  | Target Coordinates    |                             |       | Targ. Coord. Corrections       |                                        |  | Fluxes                                  |                                | Miscellaneous                   |     |       |  |
| (138) CARINANEBULA-Y RA: 10 45 20.8769 (161.3369871d) V=15+/-10 Reference Frame: ICRS |                                                                        |       |                       |                             |       |                                |                                        |  |                                         |                                |                                 |     |       |  |
| Dec: -59 41 18.96 (-59.68860d)                                                        |                                                                        |       |                       |                             |       |                                |                                        |  |                                         |                                |                                 |     |       |  |
| Equinox: J2000                                                                        |                                                                        |       |                       |                             |       |                                |                                        |  |                                         |                                |                                 |     |       |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]                       |                                                                        |       |                       |                             |       |                                |                                        |  |                                         |                                |                                 |     |       |  |
| Exposures                                                                             | #                                                                      | Label | Target                | Config,Mode,Aperture        |       | Spectral Els.                  | Opt. Params.                           |  | Special Reqs.                           | Groups                         | Exp. Time (Total)/[Actual Dur.] |     | Orbit |  |
|                                                                                       | 1                                                                      |       | (138) CARINANEB ULA-Y | WFC3/IR, MULTIACCUM, IR-FIX | F110W | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FI NE    |  | Sequence 1-9 Non-In t in CARINAr Y (1I) | 202.934095 Secs (202.934 Secs) | [==>]                           | [1] |       |  |
|                                                                                       | 2                                                                      |       | (138) CARINANEB ULA-Y | WFC3/IR, MULTIACCUM, IR-FIX | F139M | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FI NE    |  | Sequence 1-9 Non-In t in CARINAr Y (1I) | 352.935448 Secs (352.935 Secs) | [==>]                           | [1] |       |  |
|                                                                                       | 3                                                                      |       | (138) CARINANEB ULA-Y | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0;<br>EXP PCS MODE G YRO    |  | Sequence 1-9 Non-In t in CARINAr Y (1I) | 152.935381 Secs (152.935 Secs) | [==>]                           | [1] |       |  |
|                                                                                       | 4                                                                      |       | (138) CARINANEB ULA-Y | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,-117;<br>EXP PCS MODE G YRO |  | Sequence 1-9 Non-In t in CARINAr Y (1I) | 177.935896 Secs (177.936 Secs) | [==>]                           | [1] |       |  |
|                                                                                       | 5                                                                      |       | (138) CARINANEB ULA-Y | WFC3/IR, MULTIACCUM, IR-FIX | F110W | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,-117;<br>EXP PCS MODE G YRO |  | Sequence 1-9 Non-In t in CARINAr Y (1I) | 202.936411 Secs (202.936 Secs) | [==>]                           | [1] |       |  |
|                                                                                       | 6                                                                      |       | (138) CARINANEB ULA-Y | WFC3/IR, MULTIACCUM, IR-FIX | F139M | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,-117;<br>EXP PCS MODE G YRO |  | Sequence 1-9 Non-In t in CARINAr Y (1I) | 352.939501 Secs (352.94 Secs)  | [==>]                           | [1] |       |  |
|                                                                                       | 7                                                                      |       | (138) CARINANEB ULA-Y | WFC3/IR, MULTIACCUM, IR-FIX | F139M | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,-234;<br>EXP PCS MODE G YRO |  | Sequence 1-9 Non-In t in CARINAr Y (1I) | 352.939501 Secs (352.94 Secs)  | [==>]                           | [1] |       |  |
|                                                                                       | 8                                                                      |       | (138) CARINANEB ULA-Y | WFC3/IR, MULTIACCUM, IR-FIX | F110W | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,-234;<br>EXP PCS MODE G YRO |  | Sequence 1-9 Non-In t in CARINAr Y (1I) | 252.937441 Secs (252.937 Secs) | [==>]                           | [1] |       |  |
|                                                                                       | 9                                                                      |       | (138) CARINANEB ULA-Y | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,-234;<br>EXP PCS MODE G YRO |  | Sequence 1-9 Non-In t in CARINAr Y (1I) | 152.935381 Secs (152.935 Secs) | [==>]                           | [1] |       |  |



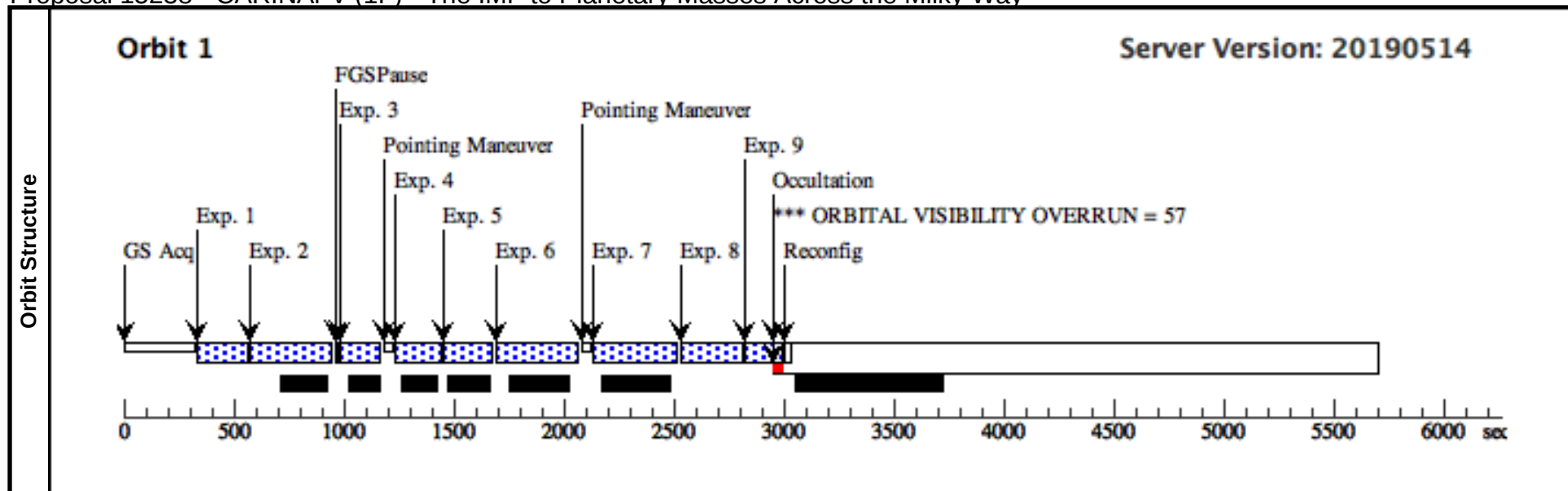
# Proposal 15238 - CARINAr X (1H) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                        |  |  |  |  |  |  |  |  |                              |  |  |
|---------------|------------------------------------------------------------------------|--|--|--|--|--|--|--|--|------------------------------|--|--|
| Visit         | Proposal 15238, CARINAr X (1H), completed                              |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:21 GMT 2019 |  |  |
|               | Diagnostic Status: Warning                                             |  |  |  |  |  |  |  |  |                              |  |  |
|               | Scientific Instruments: WFC3/IR                                        |  |  |  |  |  |  |  |  |                              |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                 |  |  |  |  |  |  |  |  |                              |  |  |
| Diagnostics   | (CARINAr X (1H)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |                              |  |  |
|               | (CARINAr X (1H)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (CARINAr X (1H)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (CARINAr X (1H)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (CARINAr X (1H)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (CARINAr X (1H)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (CARINAr X (1H)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
| Fixed Targets | #            Name                                                      |  |  |  |  |  |  |  |  |                              |  |  |



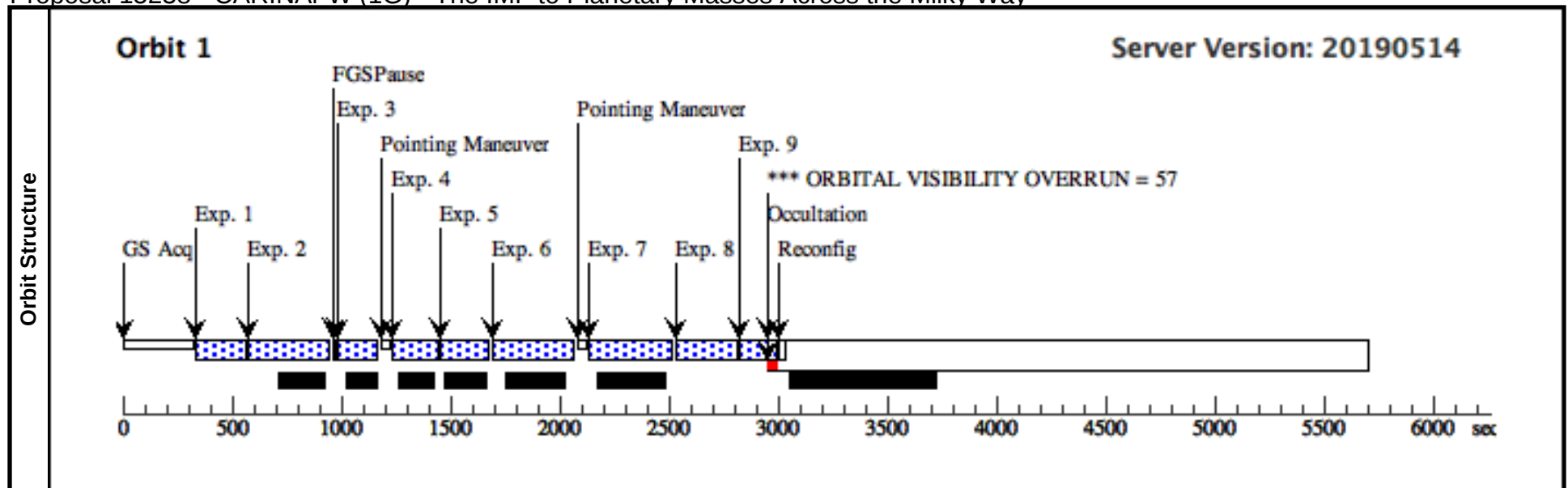
# Proposal 15238 - CARINAr V (1F) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                        |                                                                 |                      |                             |                                                                                      |                          |                               |        |                                       |               |                                        |                                         |  |       |
|---------------|------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------|-----------------------------|--------------------------------------------------------------------------------------|--------------------------|-------------------------------|--------|---------------------------------------|---------------|----------------------------------------|-----------------------------------------|--|-------|
| Visit         | Proposal 15238, CARINAr V (1F), completed                              |                                                                 |                      |                             |                                                                                      |                          |                               |        |                                       |               | Tue Sep 10 16:05:21 GMT 2019           |                                         |  |       |
|               | Diagnostic Status: Warning                                             |                                                                 |                      |                             |                                                                                      |                          |                               |        |                                       |               |                                        |                                         |  |       |
|               | Scientific Instruments: WFC3/IR                                        |                                                                 |                      |                             |                                                                                      |                          |                               |        |                                       |               |                                        |                                         |  |       |
|               | Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                 |                                                                 |                      |                             |                                                                                      |                          |                               |        |                                       |               |                                        |                                         |  |       |
| Diagnostics   | (CARINAr V (1F)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |                                                                 |                      |                             |                                                                                      |                          |                               |        |                                       |               |                                        |                                         |  |       |
|               | (CARINAr V (1F)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                                                                 |                      |                             |                                                                                      |                          |                               |        |                                       |               |                                        |                                         |  |       |
|               | (CARINAr V (1F)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                                                                 |                      |                             |                                                                                      |                          |                               |        |                                       |               |                                        |                                         |  |       |
|               | (CARINAr V (1F)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                                                                 |                      |                             |                                                                                      |                          |                               |        |                                       |               |                                        |                                         |  |       |
|               | (CARINAr V (1F)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                                                                 |                      |                             |                                                                                      |                          |                               |        |                                       |               |                                        |                                         |  |       |
|               | (CARINAr V (1F)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                                                                 |                      |                             |                                                                                      |                          |                               |        |                                       |               |                                        |                                         |  |       |
|               | (CARINAr V (1F)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                                                                 |                      |                             |                                                                                      |                          |                               |        |                                       |               |                                        |                                         |  |       |
| Fixed Targets |                                                                        |                                                                 |                      |                             |                                                                                      |                          |                               |        |                                       |               |                                        |                                         |  |       |
|               | #                                                                      | Name                                                            |                      | Target Coordinates          |                                                                                      | Targ. Coord. Corrections |                               | Fluxes |                                       | Miscellaneous |                                        |                                         |  |       |
|               |                                                                        | (135)                                                           | CARINANEBULA-V       |                             | RA: 10 44 43.3213 (161.1805054d)<br>Dec: -59 30 33.40 (-59.50928d)<br>Equinox: J2000 |                          |                               |        | V=15+/-10                             |               | Reference Frame: ICRS                  |                                         |  |       |
|               |                                                                        | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                      |                             |                                                                                      |                          |                               |        |                                       |               |                                        |                                         |  |       |
| Exposures     | #                                                                      | Label                                                           | Target               | Config,Mode,Aperture        |                                                                                      | Spectral Els.            | Opt. Params.                  |        | Special Reqs.                         |               | Groups                                 | Exp. Time (Total)/[Actual Dur.]         |  | Orbit |
|               | 1                                                                      |                                                                 | (135) CARINANEBULA-V | WFC3/IR, MULTIACCUM, IR-FIX |                                                                                      | F110W                    | NSAMP=5;<br>SAMP-SEQ=SPARS50  |        | POS TARG 0,0;<br>EXP PCS MODE FINE    |               | Sequence 1-9 Non-Int in CARINAr V (1F) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]   |
|               | 2                                                                      |                                                                 | (135) CARINANEBULA-V | WFC3/IR, MULTIACCUM, IR-FIX |                                                                                      | F139M                    | NSAMP=8;<br>SAMP-SEQ=SPARS50  |        | POS TARG 0,0;<br>EXP PCS MODE FINE    |               | Sequence 1-9 Non-Int in CARINAr V (1F) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]   |
|               | 3                                                                      |                                                                 | (135) CARINANEBULA-V | WFC3/IR, MULTIACCUM, IR-FIX |                                                                                      | F160W                    | NSAMP=7;<br>SAMP-SEQ=SPARS25  |        | POS TARG 0,0;<br>EXP PCS MODE GYRO    |               | Sequence 1-9 Non-Int in CARINAr V (1F) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]   |
|               | 4                                                                      |                                                                 | (135) CARINANEBULA-V | WFC3/IR, MULTIACCUM, IR-FIX |                                                                                      | F160W                    | NSAMP=8;<br>SAMP-SEQ=SPARS25  |        | POS TARG 0,-117;<br>EXP PCS MODE GYRO |               | Sequence 1-9 Non-Int in CARINAr V (1F) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]   |
|               | 5                                                                      |                                                                 | (135) CARINANEBULA-V | WFC3/IR, MULTIACCUM, IR-FIX |                                                                                      | F110W                    | NSAMP=9;<br>SAMP-SEQ=SPARS25  |        | POS TARG 0,-117;<br>EXP PCS MODE GYRO |               | Sequence 1-9 Non-Int in CARINAr V (1F) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]   |
|               | 6                                                                      |                                                                 | (135) CARINANEBULA-V | WFC3/IR, MULTIACCUM, IR-FIX |                                                                                      | F139M                    | NSAMP=15;<br>SAMP-SEQ=SPARS25 |        | POS TARG 0,-117;<br>EXP PCS MODE GYRO |               | Sequence 1-9 Non-Int in CARINAr V (1F) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]   |
|               | 7                                                                      |                                                                 | (135) CARINANEBULA-V | WFC3/IR, MULTIACCUM, IR-FIX |                                                                                      | F139M                    | NSAMP=15;<br>SAMP-SEQ=SPARS25 |        | POS TARG 0,-234;<br>EXP PCS MODE GYRO |               | Sequence 1-9 Non-Int in CARINAr V (1F) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]   |
|               | 8                                                                      |                                                                 | (135) CARINANEBULA-V | WFC3/IR, MULTIACCUM, IR-FIX |                                                                                      | F110W                    | NSAMP=11;<br>SAMP-SEQ=SPARS25 |        | POS TARG 0,-234;<br>EXP PCS MODE GYRO |               | Sequence 1-9 Non-Int in CARINAr V (1F) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]   |
|               | 9                                                                      |                                                                 | (135) CARINANEBULA-V | WFC3/IR, MULTIACCUM, IR-FIX |                                                                                      | F160W                    | NSAMP=7;<br>SAMP-SEQ=SPARS25  |        | POS TARG 0,-234;<br>EXP PCS MODE GYRO |               | Sequence 1-9 Non-Int in CARINAr V (1F) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]   |



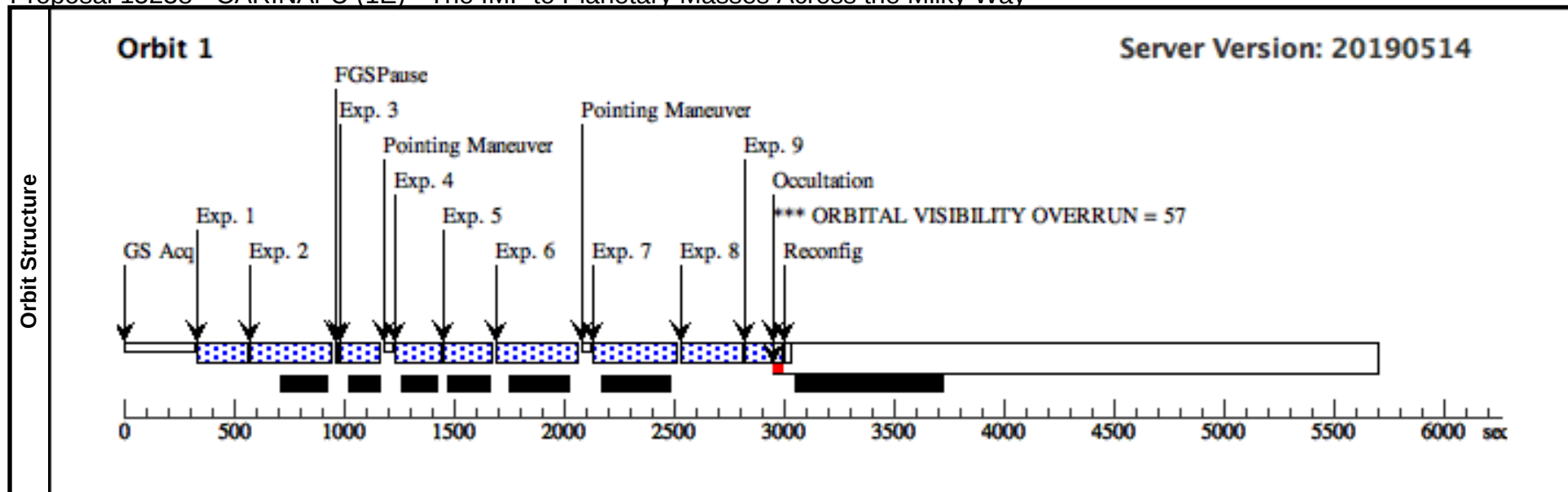
# Proposal 15238 - CARINAr W (1G) - The IMF to Planetary Masses Across the Milky Way

|                                                                 |                                                                        |       |                      |                             |       |                          |                                |                                       |                                        |                                         |                              |                                 |  |       |
|-----------------------------------------------------------------|------------------------------------------------------------------------|-------|----------------------|-----------------------------|-------|--------------------------|--------------------------------|---------------------------------------|----------------------------------------|-----------------------------------------|------------------------------|---------------------------------|--|-------|
| Visit                                                           | Proposal 15238, CARINAr W (1G), completed                              |       |                      |                             |       |                          |                                |                                       |                                        |                                         | Tue Sep 10 16:05:21 GMT 2019 |                                 |  |       |
|                                                                 | Diagnostic Status: Warning                                             |       |                      |                             |       |                          |                                |                                       |                                        |                                         |                              |                                 |  |       |
|                                                                 | Scientific Instruments: WFC3/IR                                        |       |                      |                             |       |                          |                                |                                       |                                        |                                         |                              |                                 |  |       |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                 |       |                      |                             |       |                          |                                |                                       |                                        |                                         |                              |                                 |  |       |
| Diagnostics                                                     | (CARINAr W (1G)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                      |                             |       |                          |                                |                                       |                                        |                                         |                              |                                 |  |       |
|                                                                 | (CARINAr W (1G)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |       |                          |                                |                                       |                                        |                                         |                              |                                 |  |       |
|                                                                 | (CARINAr W (1G)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |       |                          |                                |                                       |                                        |                                         |                              |                                 |  |       |
|                                                                 | (CARINAr W (1G)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |       |                          |                                |                                       |                                        |                                         |                              |                                 |  |       |
|                                                                 | (CARINAr W (1G)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |       |                          |                                |                                       |                                        |                                         |                              |                                 |  |       |
|                                                                 | (CARINAr W (1G)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |       |                          |                                |                                       |                                        |                                         |                              |                                 |  |       |
|                                                                 | (CARINAr W (1G)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |       |                          |                                |                                       |                                        |                                         |                              |                                 |  |       |
| Fixed Targets                                                   |                                                                        |       |                      |                             |       |                          |                                |                                       |                                        |                                         |                              |                                 |  |       |
|                                                                 | #                                                                      | Name  | Target Coordinates   |                             |       | Targ. Coord. Corrections |                                | Fluxes                                |                                        | Miscellaneous                           |                              |                                 |  |       |
| (136) CARINANEBULA-W                                            |                                                                        |       |                      |                             |       |                          |                                |                                       |                                        |                                         |                              |                                 |  |       |
| RA: 10 44 28.0685 (161.1169521d)                                |                                                                        |       |                      |                             |       |                          |                                |                                       |                                        |                                         |                              |                                 |  |       |
| Dec: -59 29 37.00 (-59.49361d)                                  |                                                                        |       |                      |                             |       |                          |                                |                                       |                                        |                                         |                              |                                 |  |       |
| Equinox: J2000                                                  |                                                                        |       |                      |                             |       |                          |                                |                                       |                                        |                                         |                              |                                 |  |       |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                        |       |                      |                             |       |                          |                                |                                       |                                        |                                         |                              |                                 |  |       |
| Exposures                                                       | #                                                                      | Label | Target               | Config,Mode,Aperture        |       | Spectral Els.            | Opt. Params.                   |                                       | Special Reqs.                          |                                         | Groups                       | Exp. Time (Total)/[Actual Dur.] |  | Orbit |
|                                                                 | 1                                                                      |       | (136) CARINANEBULA-W | WFC3/IR, MULTIACCUM, IR-FIX | F110W |                          | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE    | Sequence 1-9 Non-Int in CARINAr W (1G) | 202.934095 Secs (202.934 Secs)<br>[==>] |                              | [1]                             |  |       |
|                                                                 | 2                                                                      |       | (136) CARINANEBULA-W | WFC3/IR, MULTIACCUM, IR-FIX | F139M |                          | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE    | Sequence 1-9 Non-Int in CARINAr W (1G) | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]                             |  |       |
|                                                                 | 3                                                                      |       | (136) CARINANEBULA-W | WFC3/IR, MULTIACCUM, IR-FIX | F160W |                          | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0;<br>EXP PCS MODE GYRO    | Sequence 1-9 Non-Int in CARINAr W (1G) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]                             |  |       |
|                                                                 | 4                                                                      |       | (136) CARINANEBULA-W | WFC3/IR, MULTIACCUM, IR-FIX | F160W |                          | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,-117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINAr W (1G) | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]                             |  |       |
|                                                                 | 5                                                                      |       | (136) CARINANEBULA-W | WFC3/IR, MULTIACCUM, IR-FIX | F110W |                          | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,-117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINAr W (1G) | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]                             |  |       |
|                                                                 | 6                                                                      |       | (136) CARINANEBULA-W | WFC3/IR, MULTIACCUM, IR-FIX | F139M |                          | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,-117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINAr W (1G) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]                             |  |       |
|                                                                 | 7                                                                      |       | (136) CARINANEBULA-W | WFC3/IR, MULTIACCUM, IR-FIX | F139M |                          | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,-234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINAr W (1G) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]                             |  |       |
|                                                                 | 8                                                                      |       | (136) CARINANEBULA-W | WFC3/IR, MULTIACCUM, IR-FIX | F110W |                          | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,-234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINAr W (1G) | 252.937441 Secs (252.937 Secs)<br>[==>] |                              | [1]                             |  |       |
|                                                                 | 9                                                                      |       | (136) CARINANEBULA-W | WFC3/IR, MULTIACCUM, IR-FIX | F160W |                          | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,-234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINAr W (1G) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]                             |  |       |



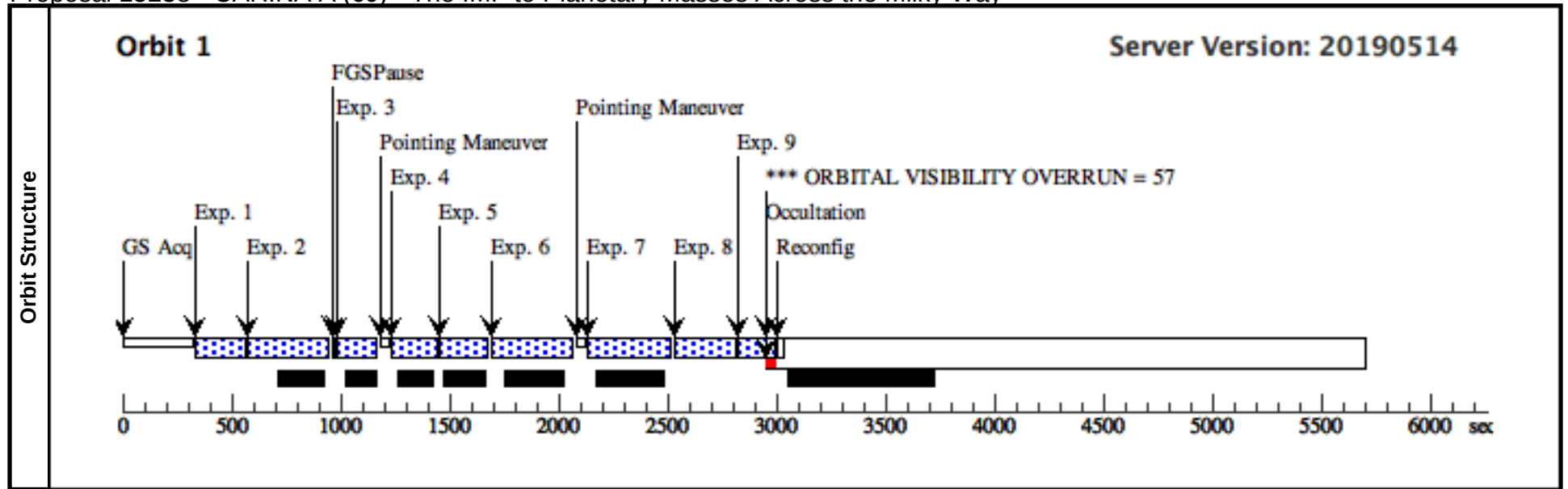
# Proposal 15238 - CARINAr U (1E) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|---------------|------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, CARINAr U (1E), completed                              |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:21 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                 |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics   | (CARINAr U (1E)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINAr U (1E)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINAr U (1E)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINAr U (1E)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINAr U (1E)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINAr U (1E)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINAr U (1E)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets | #            Name                                                      |  |  |  |  |  |  |  |  |  |                              |  |  |  |



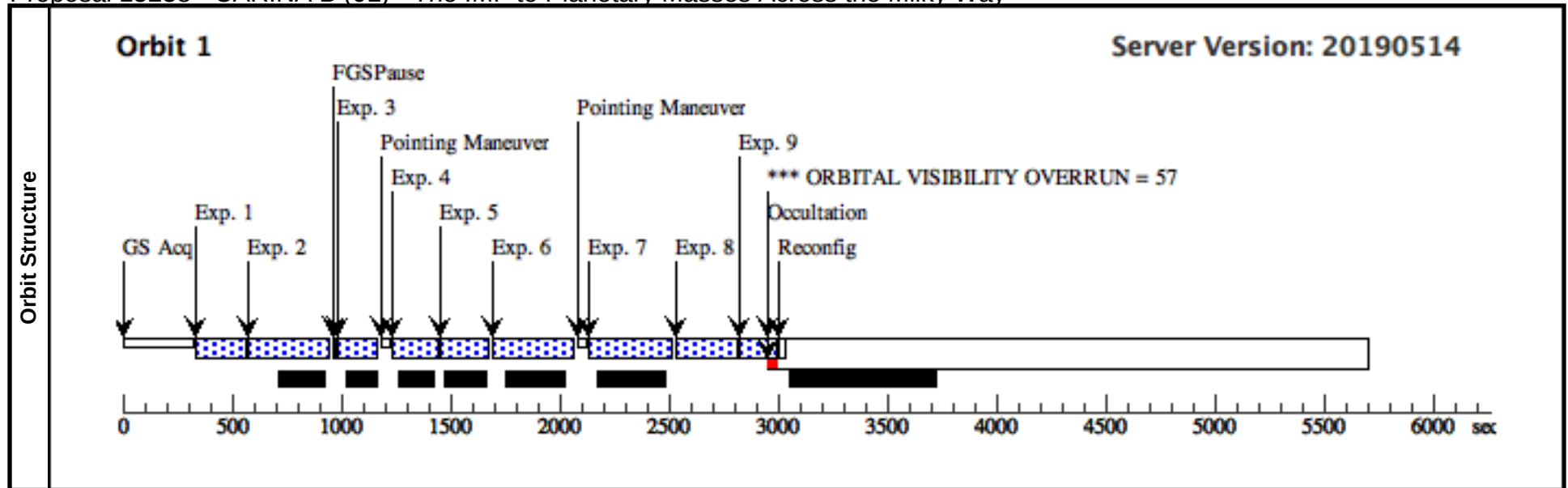
# Proposal 15238 - CARINA A (0J) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                       |                |                                                                                      |                             |  |                          |  |                               |           |                                      |                              |                                       |  |                                         |  |       |  |
|---------------|-----------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------|-----------------------------|--|--------------------------|--|-------------------------------|-----------|--------------------------------------|------------------------------|---------------------------------------|--|-----------------------------------------|--|-------|--|
| Visit         | Proposal 15238, CARINA A (0J), completed                              |                |                                                                                      |                             |  |                          |  |                               |           |                                      | Tue Sep 10 16:05:21 GMT 2019 |                                       |  |                                         |  |       |  |
|               | Diagnostic Status: Warning                                            |                |                                                                                      |                             |  |                          |  |                               |           |                                      |                              |                                       |  |                                         |  |       |  |
|               | Scientific Instruments: WFC3/IR                                       |                |                                                                                      |                             |  |                          |  |                               |           |                                      |                              |                                       |  |                                         |  |       |  |
|               | Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                |                |                                                                                      |                             |  |                          |  |                               |           |                                      |                              |                                       |  |                                         |  |       |  |
| Diagnostics   | (CARINA A (0J)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |                |                                                                                      |                             |  |                          |  |                               |           |                                      |                              |                                       |  |                                         |  |       |  |
|               | (CARINA A (0J)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                      |                             |  |                          |  |                               |           |                                      |                              |                                       |  |                                         |  |       |  |
|               | (CARINA A (0J)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                      |                             |  |                          |  |                               |           |                                      |                              |                                       |  |                                         |  |       |  |
|               | (CARINA A (0J)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                      |                             |  |                          |  |                               |           |                                      |                              |                                       |  |                                         |  |       |  |
|               | (CARINA A (0J)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                      |                             |  |                          |  |                               |           |                                      |                              |                                       |  |                                         |  |       |  |
|               | (CARINA A (0J)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                      |                             |  |                          |  |                               |           |                                      |                              |                                       |  |                                         |  |       |  |
|               | (CARINA A (0J)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                      |                             |  |                          |  |                               |           |                                      |                              |                                       |  |                                         |  |       |  |
| Fixed Targets |                                                                       |                |                                                                                      |                             |  |                          |  |                               |           |                                      |                              |                                       |  |                                         |  |       |  |
|               | #                                                                     | Name           | Target Coordinates                                                                   |                             |  | Targ. Coord. Corrections |  |                               | Fluxes    |                                      | Miscellaneous                |                                       |  |                                         |  |       |  |
|               | (114)                                                                 | CARINANEBULA-A | RA: 10 43 40.3944 (160.9183100d)<br>Dec: -59 37 37.08 (-59.62697d)<br>Equinox: J2000 |                             |  |                          |  |                               | V=15+/-10 |                                      | Reference Frame: ICRS        |                                       |  |                                         |  |       |  |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]       |                |                                                                                      |                             |  |                          |  |                               |           |                                      |                              |                                       |  |                                         |  |       |  |
| Exposures     | #                                                                     | Label          | Target                                                                               | Config,Mode,Aperture        |  | Spectral Els.            |  | Opt. Params.                  |           | Special Reqs.                        |                              | Groups                                |  | Exp. Time (Total)/[Actual Dur.]         |  | Orbit |  |
|               | 1                                                                     |                | (114) CARINANEBULA-A                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F110W                    |  | NSAMP=5;<br>SAMP-SEQ=SPARS50  |           | POS TARG 0,0;<br>EXP PCS MODE FINE   |                              | Sequence 1-9 Non-Int in CARINA A (0J) |  | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]   |  |
|               | 2                                                                     |                | (114) CARINANEBULA-A                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F139M                    |  | NSAMP=8;<br>SAMP-SEQ=SPARS50  |           | POS TARG 0,0;<br>EXP PCS MODE FINE   |                              | Sequence 1-9 Non-Int in CARINA A (0J) |  | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]   |  |
|               | 3                                                                     |                | (114) CARINANEBULA-A                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    |  | NSAMP=7;<br>SAMP-SEQ=SPARS25  |           | POS TARG 0,0;<br>EXP PCS MODE GYRO   |                              | Sequence 1-9 Non-Int in CARINA A (0J) |  | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]   |  |
|               | 4                                                                     |                | (114) CARINANEBULA-A                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    |  | NSAMP=8;<br>SAMP-SEQ=SPARS25  |           | POS TARG 0,117;<br>EXP PCS MODE GYRO |                              | Sequence 1-9 Non-Int in CARINA A (0J) |  | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]   |  |
|               | 5                                                                     |                | (114) CARINANEBULA-A                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F110W                    |  | NSAMP=9;<br>SAMP-SEQ=SPARS25  |           | POS TARG 0,117;<br>EXP PCS MODE GYRO |                              | Sequence 1-9 Non-Int in CARINA A (0J) |  | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]   |  |
|               | 6                                                                     |                | (114) CARINANEBULA-A                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F139M                    |  | NSAMP=15;<br>SAMP-SEQ=SPARS25 |           | POS TARG 0,117;<br>EXP PCS MODE GYRO |                              | Sequence 1-9 Non-Int in CARINA A (0J) |  | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]   |  |
|               | 7                                                                     |                | (114) CARINANEBULA-A                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F139M                    |  | NSAMP=15;<br>SAMP-SEQ=SPARS25 |           | POS TARG 0,234;<br>EXP PCS MODE GYRO |                              | Sequence 1-9 Non-Int in CARINA A (0J) |  | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]   |  |
|               | 8                                                                     |                | (114) CARINANEBULA-A                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F110W                    |  | NSAMP=11;<br>SAMP-SEQ=SPARS25 |           | POS TARG 0,234;<br>EXP PCS MODE GYRO |                              | Sequence 1-9 Non-Int in CARINA A (0J) |  | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]   |  |
|               | 9                                                                     |                | (114) CARINANEBULA-A                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    |  | NSAMP=7;<br>SAMP-SEQ=SPARS25  |           | POS TARG 0,234;<br>EXP PCS MODE GYRO |                              | Sequence 1-9 Non-Int in CARINA A (0J) |  | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]   |  |



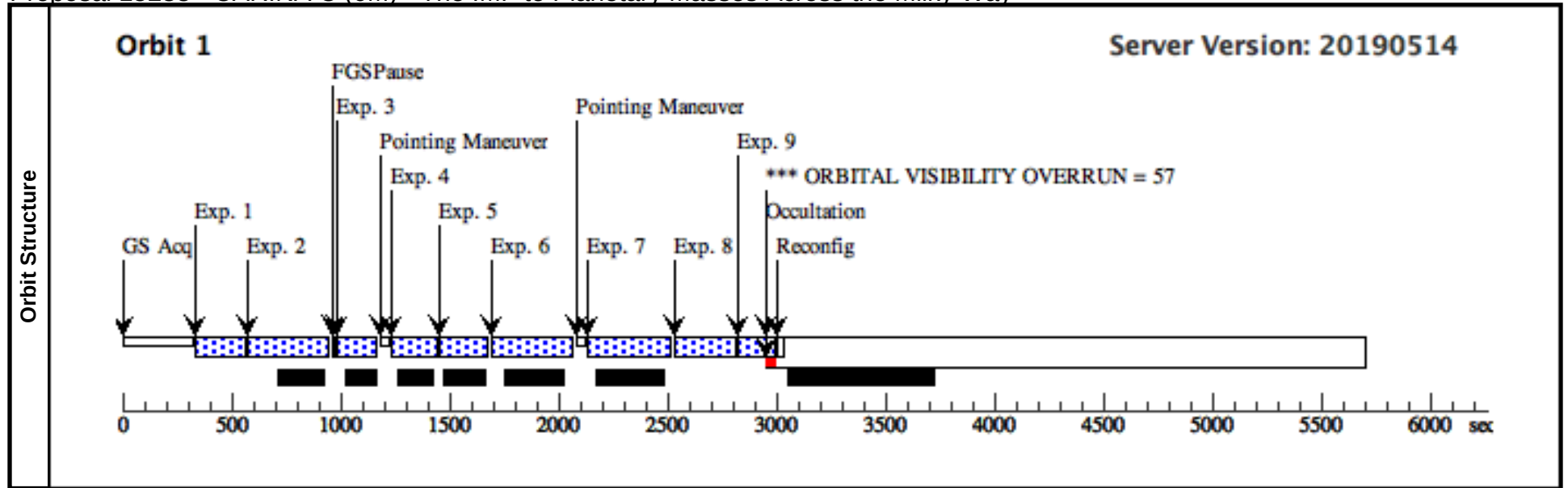
# Proposal 15238 - CARINA B (0L) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                                                                                                                                                                            |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------|-----------------------------|---------------|--------------------------------|--------------------------------------|---------------------------------------|-----------------------------------------|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, CARINA B (0L), completed                                                                                                                                                                                   |       |                      |                             |               |                                |                                      |                                       |                                         |  | Tue Sep 10 16:05:21 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                                                                                                                                                                                 |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                                                                                                                                                                            |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                                                                                                                                                                     |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
| Diagnostics   | (CARINA B (0L)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                        |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
|               | (CARINA B (0L)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                      |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
|               | (CARINA B (0L)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                      |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
|               | (CARINA B (0L)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                      |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
|               | (CARINA B (0L)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                      |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
|               | (CARINA B (0L)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                      |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
|               | (CARINA B (0L)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                      |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
| Fixed Targets | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                           |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
|               | (115)                      CARINANEBULA-B                      RA: 10 43 24.9807 (160.8540863d)<br>Dec: -59 36 38.31 (-59.61064d)<br>Equinox: J2000<br><br>Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
| Exposures     | #                                                                                                                                                                                                                          | Label | Target               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                        | Groups                                | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |  |  |
|               | 1                                                                                                                                                                                                                          |       | (115) CARINANEBULA-B | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in CARINA B (0L) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 2                                                                                                                                                                                                                          |       | (115) CARINANEBULA-B | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in CARINA B (0L) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 3                                                                                                                                                                                                                          |       | (115) CARINANEBULA-B | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0;<br>EXP PCS MODE GYRO   | Sequence 1-9 Non-Int in CARINA B (0L) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 4                                                                                                                                                                                                                          |       | (115) CARINANEBULA-B | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA B (0L) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 5                                                                                                                                                                                                                          |       | (115) CARINANEBULA-B | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA B (0L) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 6                                                                                                                                                                                                                          |       | (115) CARINANEBULA-B | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA B (0L) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 7                                                                                                                                                                                                                          |       | (115) CARINANEBULA-B | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA B (0L) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 8                                                                                                                                                                                                                          |       | (115) CARINANEBULA-B | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA B (0L) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 9                                                                                                                                                                                                                          |       | (115) CARINANEBULA-B | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA B (0L) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |



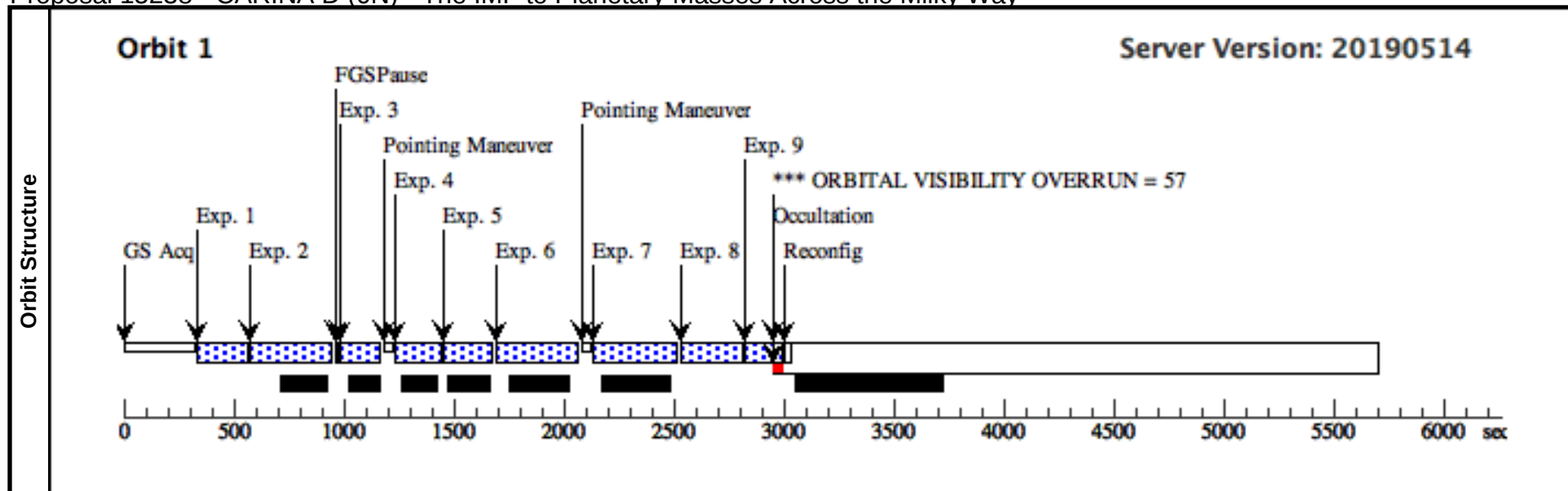
# Proposal 15238 - CARINA C (0M) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                       |                |                                                                                     |                             |               |                               |                                      |                                       |                                         |                       |                              |  |
|---------------|-----------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|-----------------------------|---------------|-------------------------------|--------------------------------------|---------------------------------------|-----------------------------------------|-----------------------|------------------------------|--|
| Visit         | Proposal 15238, CARINA C (0M), completed                              |                |                                                                                     |                             |               |                               |                                      |                                       |                                         |                       | Tue Sep 10 16:05:21 GMT 2019 |  |
|               | Diagnostic Status: Warning                                            |                |                                                                                     |                             |               |                               |                                      |                                       |                                         |                       |                              |  |
|               | Scientific Instruments: WFC3/IR                                       |                |                                                                                     |                             |               |                               |                                      |                                       |                                         |                       |                              |  |
|               | Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                |                |                                                                                     |                             |               |                               |                                      |                                       |                                         |                       |                              |  |
| Diagnostics   | (CARINA C (0M)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |                |                                                                                     |                             |               |                               |                                      |                                       |                                         |                       |                              |  |
|               | (CARINA C (0M)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                     |                             |               |                               |                                      |                                       |                                         |                       |                              |  |
|               | (CARINA C (0M)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                     |                             |               |                               |                                      |                                       |                                         |                       |                              |  |
|               | (CARINA C (0M)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                     |                             |               |                               |                                      |                                       |                                         |                       |                              |  |
|               | (CARINA C (0M)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                     |                             |               |                               |                                      |                                       |                                         |                       |                              |  |
|               | (CARINA C (0M)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                     |                             |               |                               |                                      |                                       |                                         |                       |                              |  |
|               | (CARINA C (0M)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                     |                             |               |                               |                                      |                                       |                                         |                       |                              |  |
| Fixed Targets |                                                                       |                |                                                                                     |                             |               |                               |                                      |                                       |                                         |                       |                              |  |
|               | #                                                                     | Name           | Target Coordinates                                                                  |                             |               | Targ. Coord. Corrections      |                                      | Fluxes                                |                                         | Miscellaneous         |                              |  |
|               | (116)                                                                 | CARINANEBULA-C | RA: 10 43 9.1610 (160.7881708d)<br>Dec: -59 35 46.91 (-59.59636d)<br>Equinox: J2000 |                             |               |                               |                                      | V=15+/-10                             |                                         | Reference Frame: ICRS |                              |  |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]       |                |                                                                                     |                             |               |                               |                                      |                                       |                                         |                       |                              |  |
| Exposures     | #                                                                     | Label          | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                  | Special Reqs.                        | Groups                                | Exp. Time (Total)/[Actual Dur.]         |                       | Orbit                        |  |
|               | 1                                                                     |                | (116) CARINANEBULA-C                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPARS50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in CARINA C (0M) | 202.934095 Secs (202.934 Secs)<br>[==>] |                       | [1]                          |  |
|               | 2                                                                     |                | (116) CARINANEBULA-C                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPARS50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in CARINA C (0M) | 352.935448 Secs (352.935 Secs)<br>[==>] |                       | [1]                          |  |
|               | 3                                                                     |                | (116) CARINANEBULA-C                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPARS25  | POS TARG 0,0;<br>EXP PCS MODE GYRO   | Sequence 1-9 Non-Int in CARINA C (0M) | 152.935381 Secs (152.935 Secs)<br>[==>] |                       | [1]                          |  |
|               | 4                                                                     |                | (116) CARINANEBULA-C                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPARS25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA C (0M) | 177.935896 Secs (177.936 Secs)<br>[==>] |                       | [1]                          |  |
|               | 5                                                                     |                | (116) CARINANEBULA-C                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPARS25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA C (0M) | 202.936411 Secs (202.936 Secs)<br>[==>] |                       | [1]                          |  |
|               | 6                                                                     |                | (116) CARINANEBULA-C                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPARS25 | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA C (0M) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                       | [1]                          |  |
|               | 7                                                                     |                | (116) CARINANEBULA-C                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPARS25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA C (0M) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                       | [1]                          |  |
|               | 8                                                                     |                | (116) CARINANEBULA-C                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPARS25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA C (0M) | 252.937441 Secs (252.937 Secs)<br>[==>] |                       | [1]                          |  |
|               | 9                                                                     |                | (116) CARINANEBULA-C                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPARS25  | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA C (0M) | 152.935381 Secs (152.935 Secs)<br>[==>] |                       | [1]                          |  |



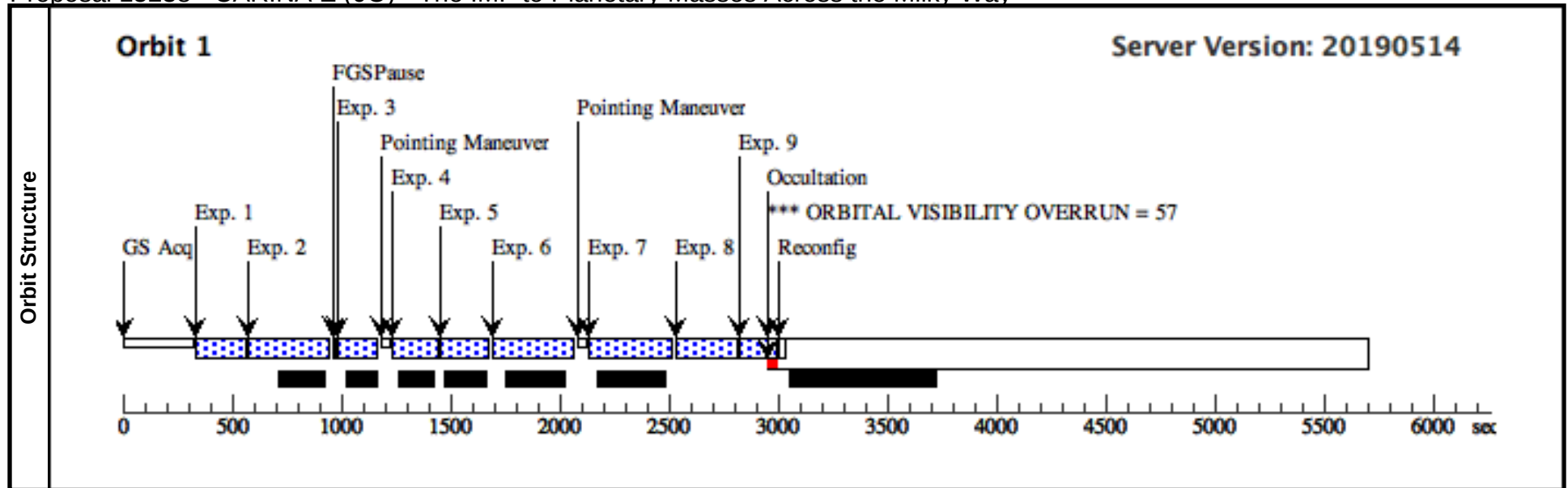
# Proposal 15238 - CARINA D (0N) - The IMF to Planetary Masses Across the Milky Way

|                                                                 |                                                                       |                |                                                                                      |                             |  |                          |                                   |           |                                          |                       |                                           |                                         |  |       |
|-----------------------------------------------------------------|-----------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------|-----------------------------|--|--------------------------|-----------------------------------|-----------|------------------------------------------|-----------------------|-------------------------------------------|-----------------------------------------|--|-------|
| Visit                                                           | Proposal 15238, CARINA D (0N), completed                              |                |                                                                                      |                             |  |                          |                                   |           |                                          |                       | Tue Sep 10 16:05:21 GMT 2019              |                                         |  |       |
|                                                                 | Diagnostic Status: Warning                                            |                |                                                                                      |                             |  |                          |                                   |           |                                          |                       |                                           |                                         |  |       |
|                                                                 | Scientific Instruments: WFC3/IR                                       |                |                                                                                      |                             |  |                          |                                   |           |                                          |                       |                                           |                                         |  |       |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                |                |                                                                                      |                             |  |                          |                                   |           |                                          |                       |                                           |                                         |  |       |
| Diagnostics                                                     | (CARINA D (0N)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |                |                                                                                      |                             |  |                          |                                   |           |                                          |                       |                                           |                                         |  |       |
|                                                                 | (CARINA D (0N)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                      |                             |  |                          |                                   |           |                                          |                       |                                           |                                         |  |       |
|                                                                 | (CARINA D (0N)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                      |                             |  |                          |                                   |           |                                          |                       |                                           |                                         |  |       |
|                                                                 | (CARINA D (0N)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                      |                             |  |                          |                                   |           |                                          |                       |                                           |                                         |  |       |
|                                                                 | (CARINA D (0N)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                      |                             |  |                          |                                   |           |                                          |                       |                                           |                                         |  |       |
|                                                                 | (CARINA D (0N)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                      |                             |  |                          |                                   |           |                                          |                       |                                           |                                         |  |       |
|                                                                 | (CARINA D (0N)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                      |                             |  |                          |                                   |           |                                          |                       |                                           |                                         |  |       |
| Fixed Targets                                                   | #                                                                     | Name           | Target Coordinates                                                                   |                             |  | Targ. Coord. Corrections |                                   | Fluxes    |                                          | Miscellaneous         |                                           |                                         |  |       |
|                                                                 | (117)                                                                 | CARINANEBULA-D | RA: 10 43 56.2554 (160.9843975d)<br>Dec: -59 38 30.07 (-59.64169d)<br>Equinox: J2000 |                             |  |                          |                                   | V=15+/-10 |                                          | Reference Frame: ICRS |                                           |                                         |  |       |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                       |                |                                                                                      |                             |  |                          |                                   |           |                                          |                       |                                           |                                         |  |       |
| Exposures                                                       | #                                                                     | Label          | Target                                                                               | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                      |           | Special Reqs.                            |                       | Groups                                    | Exp. Time (Total)/[Actual Dur.]         |  | Orbit |
|                                                                 | 1                                                                     |                | (117) CARINANEB<br>ULA-D                                                             | WFC3/IR, MULTIACCUM, IR-FIX |  | F110W                    | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  |           | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   |                       | Sequence 1-9 Non-In<br>t in CARINA D (0N) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]   |
|                                                                 | 2                                                                     |                | (117) CARINANEB<br>ULA-D                                                             | WFC3/IR, MULTIACCUM, IR-FIX |  | F139M                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  |           | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE   |                       | Sequence 1-9 Non-In<br>t in CARINA D (0N) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]   |
|                                                                 | 3                                                                     |                | (117) CARINANEB<br>ULA-D                                                             | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  |           | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO   |                       | Sequence 1-9 Non-In<br>t in CARINA D (0N) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]   |
|                                                                 | 4                                                                     |                | (117) CARINANEB<br>ULA-D                                                             | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |           | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO |                       | Sequence 1-9 Non-In<br>t in CARINA D (0N) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]   |
|                                                                 | 5                                                                     |                | (117) CARINANEB<br>ULA-D                                                             | WFC3/IR, MULTIACCUM, IR-FIX |  | F110W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  |           | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO |                       | Sequence 1-9 Non-In<br>t in CARINA D (0N) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]   |
|                                                                 | 6                                                                     |                | (117) CARINANEB<br>ULA-D                                                             | WFC3/IR, MULTIACCUM, IR-FIX |  | F139M                    | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 |           | POS TARG 0,117;<br>EXP PCS MODE G<br>YRO |                       | Sequence 1-9 Non-In<br>t in CARINA D (0N) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]   |
|                                                                 | 7                                                                     |                | (117) CARINANEB<br>ULA-D                                                             | WFC3/IR, MULTIACCUM, IR-FIX |  | F139M                    | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 |           | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO |                       | Sequence 1-9 Non-In<br>t in CARINA D (0N) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]   |
|                                                                 | 8                                                                     |                | (117) CARINANEB<br>ULA-D                                                             | WFC3/IR, MULTIACCUM, IR-FIX |  | F110W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 |           | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO |                       | Sequence 1-9 Non-In<br>t in CARINA D (0N) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]   |
|                                                                 | 9                                                                     |                | (117) CARINANEB<br>ULA-D                                                             | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  |           | POS TARG 0,234;<br>EXP PCS MODE G<br>YRO |                       | Sequence 1-9 Non-In<br>t in CARINA D (0N) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]   |



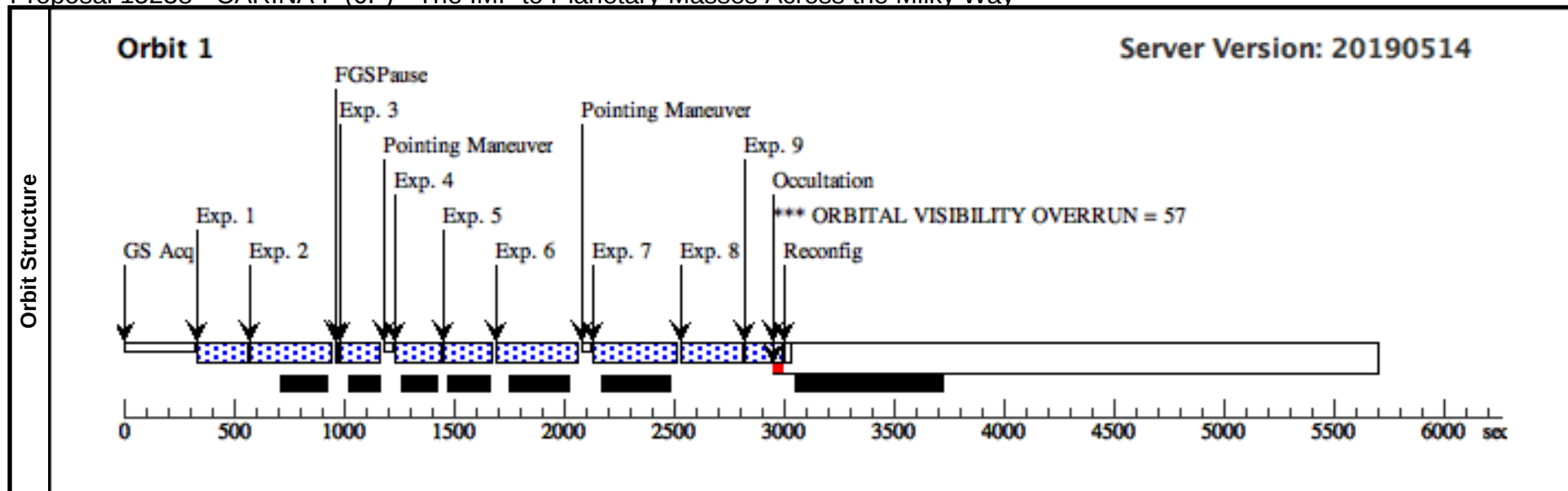
# Proposal 15238 - CARINA E (00) - The IMF to Planetary Masses Across the Milky Way

|                                                                                                                                                                                  |                                                                       |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------|----------------------|-----------------------------|---------------|-------------------------------|--------------------------------------|---------------------------------------|-----------------------------------------|---------------|------------------------------|--|
| Visit                                                                                                                                                                            | Proposal 15238, CARINA E (00), completed                              |       |                      |                             |               |                               |                                      |                                       |                                         |               | Tue Sep 10 16:05:21 GMT 2019 |  |
|                                                                                                                                                                                  | Diagnostic Status: Warning                                            |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
|                                                                                                                                                                                  | Scientific Instruments: WFC3/IR                                       |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
|                                                                                                                                                                                  | Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
| Diagnostics                                                                                                                                                                      | (CARINA E (00)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
|                                                                                                                                                                                  | (CARINA E (00)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
|                                                                                                                                                                                  | (CARINA E (00)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
|                                                                                                                                                                                  | (CARINA E (00)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
|                                                                                                                                                                                  | (CARINA E (00)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
|                                                                                                                                                                                  | (CARINA E (00)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
|                                                                                                                                                                                  | (CARINA E (00)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
| Fixed Targets                                                                                                                                                                    |                                                                       |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
|                                                                                                                                                                                  | #                                                                     | Name  | Target Coordinates   |                             |               | Targ. Coord. Corrections      |                                      | Fluxes                                |                                         | Miscellaneous |                              |  |
| (118) CARINANEBULA-E RA: 10 44 11.4978 (161.0479075d)<br>Dec: -59 39 24.30 (-59.65675d)<br>Equinox: J2000<br><br>Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                       |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
| Exposures                                                                                                                                                                        | #                                                                     | Label | Target               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                  | Special Reqs.                        | Groups                                | Exp. Time (Total)/[Actual Dur.]         |               | Orbit                        |  |
|                                                                                                                                                                                  | 1                                                                     |       | (118) CARINANEBULA-E | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPARS50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in CARINA E (00) | 202.934095 Secs (202.934 Secs)<br>[==>] |               | [1]                          |  |
|                                                                                                                                                                                  | 2                                                                     |       | (118) CARINANEBULA-E | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPARS50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in CARINA E (00) | 352.935448 Secs (352.935 Secs)<br>[==>] |               | [1]                          |  |
|                                                                                                                                                                                  | 3                                                                     |       | (118) CARINANEBULA-E | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPARS25  | POS TARG 0,0;<br>EXP PCS MODE GYRO   | Sequence 1-9 Non-Int in CARINA E (00) | 152.935381 Secs (152.935 Secs)<br>[==>] |               | [1]                          |  |
|                                                                                                                                                                                  | 4                                                                     |       | (118) CARINANEBULA-E | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPARS25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA E (00) | 177.935896 Secs (177.936 Secs)<br>[==>] |               | [1]                          |  |
|                                                                                                                                                                                  | 5                                                                     |       | (118) CARINANEBULA-E | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPARS25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA E (00) | 202.936411 Secs (202.936 Secs)<br>[==>] |               | [1]                          |  |
|                                                                                                                                                                                  | 6                                                                     |       | (118) CARINANEBULA-E | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPARS25 | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA E (00) | 352.939501 Secs (352.94 Secs)<br>[==>]  |               | [1]                          |  |
|                                                                                                                                                                                  | 7                                                                     |       | (118) CARINANEBULA-E | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPARS25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA E (00) | 352.939501 Secs (352.94 Secs)<br>[==>]  |               | [1]                          |  |
|                                                                                                                                                                                  | 8                                                                     |       | (118) CARINANEBULA-E | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPARS25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA E (00) | 252.937441 Secs (252.937 Secs)<br>[==>] |               | [1]                          |  |
|                                                                                                                                                                                  | 9                                                                     |       | (118) CARINANEBULA-E | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPARS25  | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA E (00) | 152.935381 Secs (152.935 Secs)<br>[==>] |               | [1]                          |  |



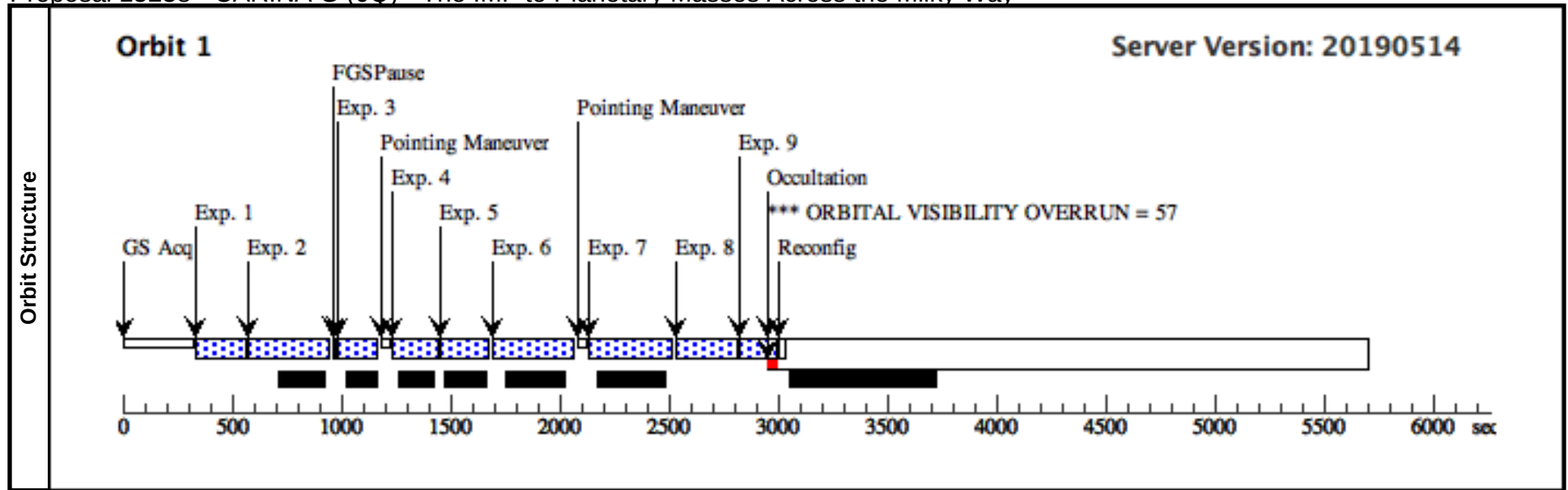
# Proposal 15238 - CARINA F (0P) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                       |                |                                                                                     |                             |       |                          |                                |                                      |                                       |  |                                         |                                 |     |       |
|---------------|-----------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|-----------------------------|-------|--------------------------|--------------------------------|--------------------------------------|---------------------------------------|--|-----------------------------------------|---------------------------------|-----|-------|
| Visit         | Proposal 15238, CARINA F (0P), completed                              |                |                                                                                     |                             |       |                          |                                |                                      |                                       |  | Tue Sep 10 16:05:21 GMT 2019            |                                 |     |       |
|               | Diagnostic Status: Warning                                            |                |                                                                                     |                             |       |                          |                                |                                      |                                       |  |                                         |                                 |     |       |
|               | Scientific Instruments: WFC3/IR                                       |                |                                                                                     |                             |       |                          |                                |                                      |                                       |  |                                         |                                 |     |       |
|               | Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                |                |                                                                                     |                             |       |                          |                                |                                      |                                       |  |                                         |                                 |     |       |
| Diagnostics   | (CARINA F (0P)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |                |                                                                                     |                             |       |                          |                                |                                      |                                       |  |                                         |                                 |     |       |
|               | (CARINA F (0P)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                     |                             |       |                          |                                |                                      |                                       |  |                                         |                                 |     |       |
|               | (CARINA F (0P)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                     |                             |       |                          |                                |                                      |                                       |  |                                         |                                 |     |       |
|               | (CARINA F (0P)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                     |                             |       |                          |                                |                                      |                                       |  |                                         |                                 |     |       |
|               | (CARINA F (0P)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                     |                             |       |                          |                                |                                      |                                       |  |                                         |                                 |     |       |
|               | (CARINA F (0P)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                     |                             |       |                          |                                |                                      |                                       |  |                                         |                                 |     |       |
|               | (CARINA F (0P)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                     |                             |       |                          |                                |                                      |                                       |  |                                         |                                 |     |       |
| Fixed Targets |                                                                       |                |                                                                                     |                             |       |                          |                                |                                      |                                       |  |                                         |                                 |     |       |
|               | #                                                                     | Name           | Target Coordinates                                                                  |                             |       | Targ. Coord. Corrections |                                |                                      | Fluxes                                |  | Miscellaneous                           |                                 |     |       |
|               | (119)                                                                 | CARINANEBULA-F | RA: 10 44 21.1724 (161.0882183d)<br>Dec: -59 42 6.66 (-59.70185d)<br>Equinox: J2000 |                             |       |                          |                                |                                      | V=15+/-10                             |  | Reference Frame: ICRS                   |                                 |     |       |
|               | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]       |                |                                                                                     |                             |       |                          |                                |                                      |                                       |  |                                         |                                 |     |       |
| Exposures     | #                                                                     | Label          | Target                                                                              | Config,Mode,Aperture        |       | Spectral Els.            | Opt. Params.                   |                                      | Special Reqs.                         |  | Groups                                  | Exp. Time (Total)/[Actual Dur.] |     | Orbit |
|               | 1                                                                     |                | (119) CARINANEB ULA-F                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F110W |                          | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in CARINA F (0P) |  | 202.934095 Secs (202.934 Secs)<br>[==>] |                                 | [1] |       |
|               | 2                                                                     |                | (119) CARINANEB ULA-F                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F139M |                          | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in CARINA F (0P) |  | 352.935448 Secs (352.935 Secs)<br>[==>] |                                 | [1] |       |
|               | 3                                                                     |                | (119) CARINANEB ULA-F                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W |                          | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0;<br>EXP PCS MODE GYRO   | Sequence 1-9 Non-Int in CARINA F (0P) |  | 152.935381 Secs (152.935 Secs)<br>[==>] |                                 | [1] |       |
|               | 4                                                                     |                | (119) CARINANEB ULA-F                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W |                          | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA F (0P) |  | 177.935896 Secs (177.936 Secs)<br>[==>] |                                 | [1] |       |
|               | 5                                                                     |                | (119) CARINANEB ULA-F                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F110W |                          | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA F (0P) |  | 202.936411 Secs (202.936 Secs)<br>[==>] |                                 | [1] |       |
|               | 6                                                                     |                | (119) CARINANEB ULA-F                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F139M |                          | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA F (0P) |  | 352.939501 Secs (352.94 Secs)<br>[==>]  |                                 | [1] |       |
|               | 7                                                                     |                | (119) CARINANEB ULA-F                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F139M |                          | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA F (0P) |  | 352.939501 Secs (352.94 Secs)<br>[==>]  |                                 | [1] |       |
|               | 8                                                                     |                | (119) CARINANEB ULA-F                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F110W |                          | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA F (0P) |  | 252.937441 Secs (252.937 Secs)<br>[==>] |                                 | [1] |       |
|               | 9                                                                     |                | (119) CARINANEB ULA-F                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W |                          | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA F (0P) |  | 152.935381 Secs (152.935 Secs)<br>[==>] |                                 | [1] |       |



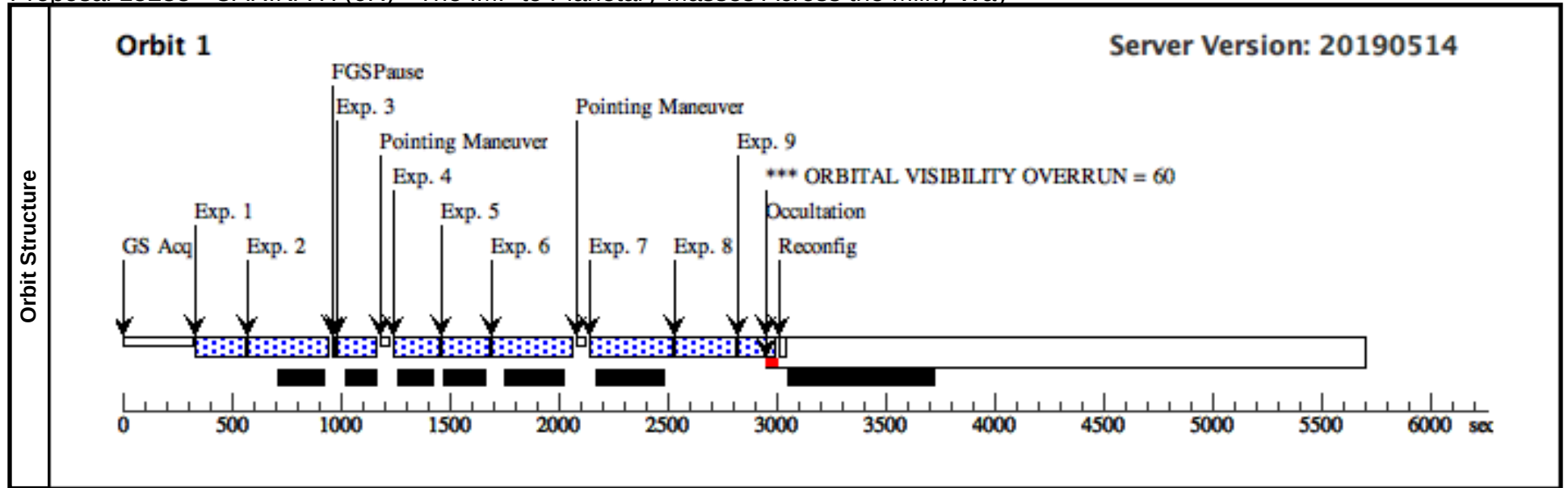
# Proposal 15238 - CARINA G (0Q) - The IMF to Planetary Masses Across the Milky Way

|                                                                                                                                                                                                   |                                                                       |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------|----------------------|-----------------------------|---------------|-------------------------------|--------------------------------------|---------------------------------------|-----------------------------------------|---------------|------------------------------|--|
| Visit                                                                                                                                                                                             | Proposal 15238, CARINA G (0Q), completed                              |       |                      |                             |               |                               |                                      |                                       |                                         |               | Tue Sep 10 16:05:21 GMT 2019 |  |
|                                                                                                                                                                                                   | Diagnostic Status: Warning                                            |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
|                                                                                                                                                                                                   | Scientific Instruments: WFC3/IR                                       |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
|                                                                                                                                                                                                   | Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
| Diagnostics                                                                                                                                                                                       | (CARINA G (0Q)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
|                                                                                                                                                                                                   | (CARINA G (0Q)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
|                                                                                                                                                                                                   | (CARINA G (0Q)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
|                                                                                                                                                                                                   | (CARINA G (0Q)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
|                                                                                                                                                                                                   | (CARINA G (0Q)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
|                                                                                                                                                                                                   | (CARINA G (0Q)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
|                                                                                                                                                                                                   | (CARINA G (0Q)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
| Fixed Targets                                                                                                                                                                                     |                                                                       |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
|                                                                                                                                                                                                   | #                                                                     | Name  | Target Coordinates   |                             |               | Targ. Coord. Corrections      |                                      | Fluxes                                |                                         | Miscellaneous |                              |  |
| <div>(120)CARINANEBULA-GRA: 10 44 37.0460 (161.1543583d)<br/>Dec: -59 42 57.69 (-59.71603d)<br/>Equinox: J2000</div> <div>Comments:<br/>Category=EXT-CLUSTER<br/>Description=[OPEN CLUSTER]</div> |                                                                       |       |                      |                             |               |                               |                                      |                                       |                                         |               |                              |  |
| Exposures                                                                                                                                                                                         | #                                                                     | Label | Target               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                  | Special Reqs.                        | Groups                                | Exp. Time (Total)/[Actual Dur.]         |               | Orbit                        |  |
|                                                                                                                                                                                                   | 1                                                                     |       | (120) CARINANEBULA-G | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPARS50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in CARINA G (0Q) | 202.934095 Secs (202.934 Secs)<br>[==>] |               | [1]                          |  |
|                                                                                                                                                                                                   | 2                                                                     |       | (120) CARINANEBULA-G | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPARS50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in CARINA G (0Q) | 352.935448 Secs (352.935 Secs)<br>[==>] |               | [1]                          |  |
|                                                                                                                                                                                                   | 3                                                                     |       | (120) CARINANEBULA-G | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPARS25  | POS TARG 0,0;<br>EXP PCS MODE GYRO   | Sequence 1-9 Non-Int in CARINA G (0Q) | 152.935381 Secs (152.935 Secs)<br>[==>] |               | [1]                          |  |
|                                                                                                                                                                                                   | 4                                                                     |       | (120) CARINANEBULA-G | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPARS25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA G (0Q) | 177.935896 Secs (177.936 Secs)<br>[==>] |               | [1]                          |  |
|                                                                                                                                                                                                   | 5                                                                     |       | (120) CARINANEBULA-G | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPARS25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA G (0Q) | 202.936411 Secs (202.936 Secs)<br>[==>] |               | [1]                          |  |
|                                                                                                                                                                                                   | 6                                                                     |       | (120) CARINANEBULA-G | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPARS25 | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA G (0Q) | 352.939501 Secs (352.94 Secs)<br>[==>]  |               | [1]                          |  |
|                                                                                                                                                                                                   | 7                                                                     |       | (120) CARINANEBULA-G | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPARS25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA G (0Q) | 352.939501 Secs (352.94 Secs)<br>[==>]  |               | [1]                          |  |
|                                                                                                                                                                                                   | 8                                                                     |       | (120) CARINANEBULA-G | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPARS25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA G (0Q) | 252.937441 Secs (252.937 Secs)<br>[==>] |               | [1]                          |  |
|                                                                                                                                                                                                   | 9                                                                     |       | (120) CARINANEBULA-G | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPARS25  | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA G (0Q) | 152.935381 Secs (152.935 Secs)<br>[==>] |               | [1]                          |  |



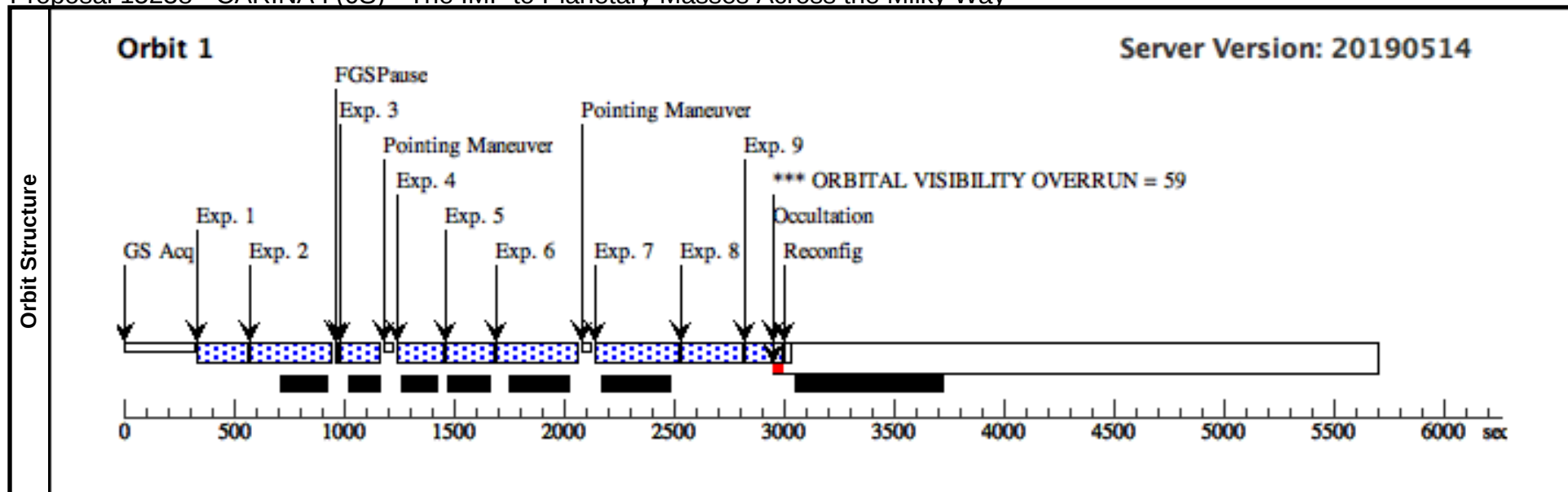
# Proposal 15238 - CARINA H (0R) - The IMF to Planetary Masses Across the Milky Way

|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit                                                           | Proposal 15238, CARINA H (0R), completed                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:21 GMT 2019 |  |  |  |
|                                                                 | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics                                                     | (CARINA H (0R)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | (CARINA H (0R)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | (CARINA H (0R)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | (CARINA H (0R)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | (CARINA H (0R)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | (CARINA H (0R)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | (CARINA H (0R)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets                                                   | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                                                                                                                                                                                                               |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | (121)                      CARINANEBULA-H                      RA: 10 44 44.6345 (161.1859771d)                                                                V=15+/-10                      Reference Frame: ICRS                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | Dec: -59 19 59.22 (-59.33312d)                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | Equinox: J2000                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Exposures                                                       | #                      Label                      Target                      Config,Mode,Aperture                      Spectral Els.                      Opt. Params.                      Special Reqs.                      Groups                      Exp. Time (Total)/[Actual Dur.]                      Orbit                                                                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | 1                                           (121) CARINANEBULA-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=5;<br>SAMP-SEQ=SPAR S50                      POS TARG 0,0;<br>EXP PCS MODE FINE                      Sequence 1-9 Non-Int in CARINA H (0R)                      202.934095 Secs (202.934 Secs)<br>[==>]                      [1]       |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | 2                                           (121) CARINANEBULA-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=8;<br>SAMP-SEQ=SPAR S50                      POS TARG 0,0;<br>EXP PCS MODE FINE                      Sequence 1-9 Non-Int in CARINA H (0R)                      352.935448 Secs (352.935 Secs)<br>[==>]                      [1]       |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | 3                                           (121) CARINANEBULA-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;<br>SAMP-SEQ=SPAR S25                      POS TARG 0,0;<br>EXP PCS MODE GYRO                      Sequence 1-9 Non-Int in CARINA H (0R)                      152.935381 Secs (152.935 Secs)<br>[==>]                      [1]       |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | 4                                           (121) CARINANEBULA-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=8;<br>SAMP-SEQ=SPAR S25                      POS TARG 130,0;<br>EXP PCS MODE GYRO                      Sequence 1-9 Non-Int in CARINA H (0R)                      177.935896 Secs (177.936 Secs)<br>[==>]                      [1]     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | 5                                           (121) CARINANEBULA-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=9;<br>SAMP-SEQ=SPAR S25                      POS TARG 130,0;<br>EXP PCS MODE GYRO                      Sequence 1-9 Non-Int in CARINA H (0R)                      202.936411 Secs (202.936 Secs)<br>[==>]                      [1]     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | 6                                           (121) CARINANEBULA-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=15;<br>SAMP-SEQ=SPAR S25                      POS TARG 130,0;<br>EXP PCS MODE GYRO                      Sequence 1-9 Non-Int in CARINA H (0R)                      352.939501 Secs (352.94 Secs)<br>[==>]                      [1]     |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | 7                                           (121) CARINANEBULA-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=15;<br>SAMP-SEQ=SPAR S25                      POS TARG 100,-117;<br>EXP PCS MODE GYRO                      Sequence 1-9 Non-Int in CARINA H (0R)                      352.939501 Secs (352.94 Secs)<br>[==>]                      [1]  |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | 8                                           (121) CARINANEBULA-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=11;<br>SAMP-SEQ=SPAR S25                      POS TARG 100,-117;<br>EXP PCS MODE GYRO                      Sequence 1-9 Non-Int in CARINA H (0R)                      252.937441 Secs (252.937 Secs)<br>[==>]                      [1] |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                 | 9                                           (121) CARINANEBULA-H                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;<br>SAMP-SEQ=SPAR S25                      POS TARG 100,-117;<br>EXP PCS MODE GYRO                      Sequence 1-9 Non-Int in CARINA H (0R)                      152.935381 Secs (152.935 Secs)<br>[==>]                      [1]  |  |  |  |  |  |  |  |  |  |                              |  |  |  |



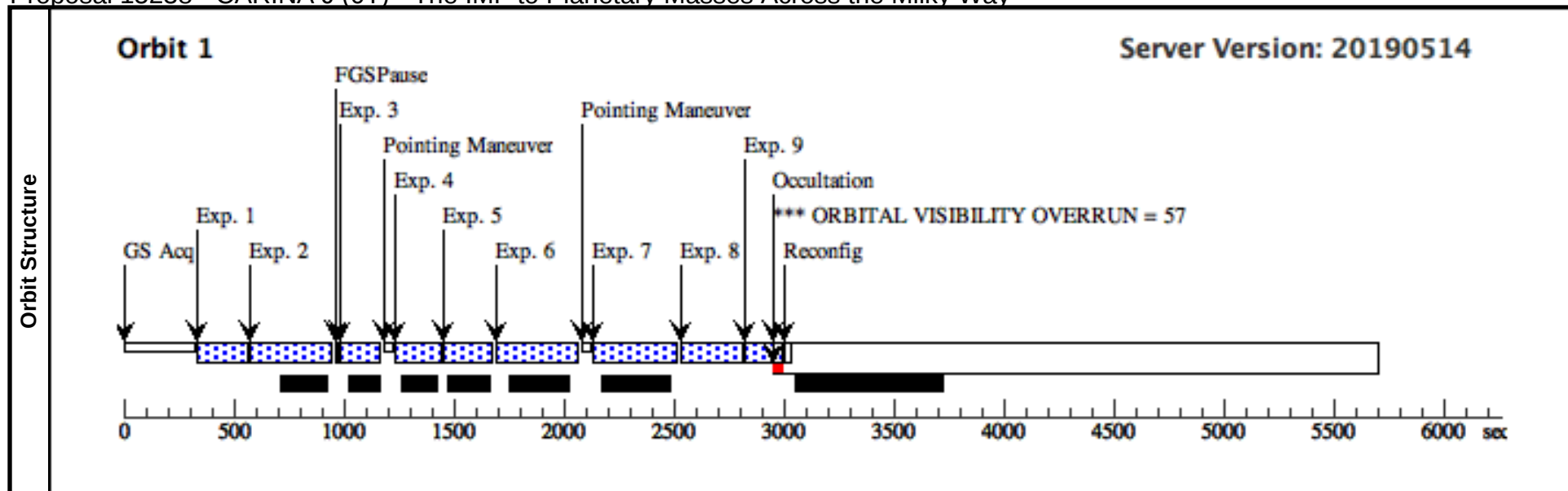
# Proposal 15238 - CARINA I (0S) - The IMF to Planetary Masses Across the Milky Way

|                                                                                                                                                                                                                             |                                                                       |       |                       |                             |               |                                |                                        |                                       |                                 |               |                              |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------|-----------------------|-----------------------------|---------------|--------------------------------|----------------------------------------|---------------------------------------|---------------------------------|---------------|------------------------------|--|--|--|--|
| Visit                                                                                                                                                                                                                       | Proposal 15238, CARINA I (0S), completed                              |       |                       |                             |               |                                |                                        |                                       |                                 |               | Tue Sep 10 16:05:21 GMT 2019 |  |  |  |  |
|                                                                                                                                                                                                                             | Diagnostic Status: Warning                                            |       |                       |                             |               |                                |                                        |                                       |                                 |               |                              |  |  |  |  |
|                                                                                                                                                                                                                             | Scientific Instruments: WFC3/IR                                       |       |                       |                             |               |                                |                                        |                                       |                                 |               |                              |  |  |  |  |
|                                                                                                                                                                                                                             | Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                |       |                       |                             |               |                                |                                        |                                       |                                 |               |                              |  |  |  |  |
| Diagnostics                                                                                                                                                                                                                 | (CARINA I (0S)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                       |                             |               |                                |                                        |                                       |                                 |               |                              |  |  |  |  |
|                                                                                                                                                                                                                             | (CARINA I (0S)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                       |                             |               |                                |                                        |                                       |                                 |               |                              |  |  |  |  |
|                                                                                                                                                                                                                             | (CARINA I (0S)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                       |                             |               |                                |                                        |                                       |                                 |               |                              |  |  |  |  |
|                                                                                                                                                                                                                             | (CARINA I (0S)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                       |                             |               |                                |                                        |                                       |                                 |               |                              |  |  |  |  |
|                                                                                                                                                                                                                             | (CARINA I (0S)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                       |                             |               |                                |                                        |                                       |                                 |               |                              |  |  |  |  |
|                                                                                                                                                                                                                             | (CARINA I (0S)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                       |                             |               |                                |                                        |                                       |                                 |               |                              |  |  |  |  |
|                                                                                                                                                                                                                             | (CARINA I (0S)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                       |                             |               |                                |                                        |                                       |                                 |               |                              |  |  |  |  |
| Fixed Targets                                                                                                                                                                                                               |                                                                       |       |                       |                             |               |                                |                                        |                                       |                                 |               |                              |  |  |  |  |
|                                                                                                                                                                                                                             | #                                                                     | Name  |                       | Target Coordinates          |               | Targ. Coord. Corrections       |                                        | Fluxes                                |                                 | Miscellaneous |                              |  |  |  |  |
| <div>(122)CARINANEBULA-I</div> <div>RA: 10 44 23.7991 (161.0991629d)</div> <div>Dec: -59 46 32.61 (-59.77573d)</div> <div>Equinox: J2000</div> <div>Comments:<br/>Category=EXT-CLUSTER<br/>Description=[OPEN CLUSTER]</div> |                                                                       |       |                       |                             |               |                                |                                        |                                       |                                 |               |                              |  |  |  |  |
| Exposures                                                                                                                                                                                                                   | #                                                                     | Label | Target                | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                          | Groups                                | Exp. Time (Total)/[Actual Dur.] |               | Orbit                        |  |  |  |  |
|                                                                                                                                                                                                                             | 1                                                                     |       | (122) CARINANEB ULA-I | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE     | Sequence 1-9 Non-Int in CARINA I (0S) | 202.934095 Secs (202.934 Secs)  | [==>]         | [1]                          |  |  |  |  |
|                                                                                                                                                                                                                             | 2                                                                     |       | (122) CARINANEB ULA-I | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE     | Sequence 1-9 Non-Int in CARINA I (0S) | 352.935448 Secs (352.935 Secs)  | [==>]         | [1]                          |  |  |  |  |
|                                                                                                                                                                                                                             | 3                                                                     |       | (122) CARINANEB ULA-I | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0;<br>EXP PCS MODE GYRO     | Sequence 1-9 Non-Int in CARINA I (0S) | 152.935381 Secs (152.935 Secs)  | [==>]         | [1]                          |  |  |  |  |
|                                                                                                                                                                                                                             | 4                                                                     |       | (122) CARINANEB ULA-I | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 130,0;<br>EXP PCS MODE GYRO   | Sequence 1-9 Non-Int in CARINA I (0S) | 177.935896 Secs (177.936 Secs)  | [==>]         | [1]                          |  |  |  |  |
|                                                                                                                                                                                                                             | 5                                                                     |       | (122) CARINANEB ULA-I | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 130,0;<br>EXP PCS MODE GYRO   | Sequence 1-9 Non-Int in CARINA I (0S) | 202.936411 Secs (202.936 Secs)  | [==>]         | [1]                          |  |  |  |  |
|                                                                                                                                                                                                                             | 6                                                                     |       | (122) CARINANEB ULA-I | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 130,0;<br>EXP PCS MODE GYRO   | Sequence 1-9 Non-Int in CARINA I (0S) | 352.939501 Secs (352.94 Secs)   | [==>]         | [1]                          |  |  |  |  |
|                                                                                                                                                                                                                             | 7                                                                     |       | (122) CARINANEB ULA-I | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 130,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA I (0S) | 352.939501 Secs (352.94 Secs)   | [==>]         | [1]                          |  |  |  |  |
|                                                                                                                                                                                                                             | 8                                                                     |       | (122) CARINANEB ULA-I | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 130,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA I (0S) | 252.937441 Secs (252.937 Secs)  | [==>]         | [1]                          |  |  |  |  |
|                                                                                                                                                                                                                             | 9                                                                     |       | (122) CARINANEB ULA-I | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 130,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA I (0S) | 152.935381 Secs (152.935 Secs)  | [==>]         | [1]                          |  |  |  |  |



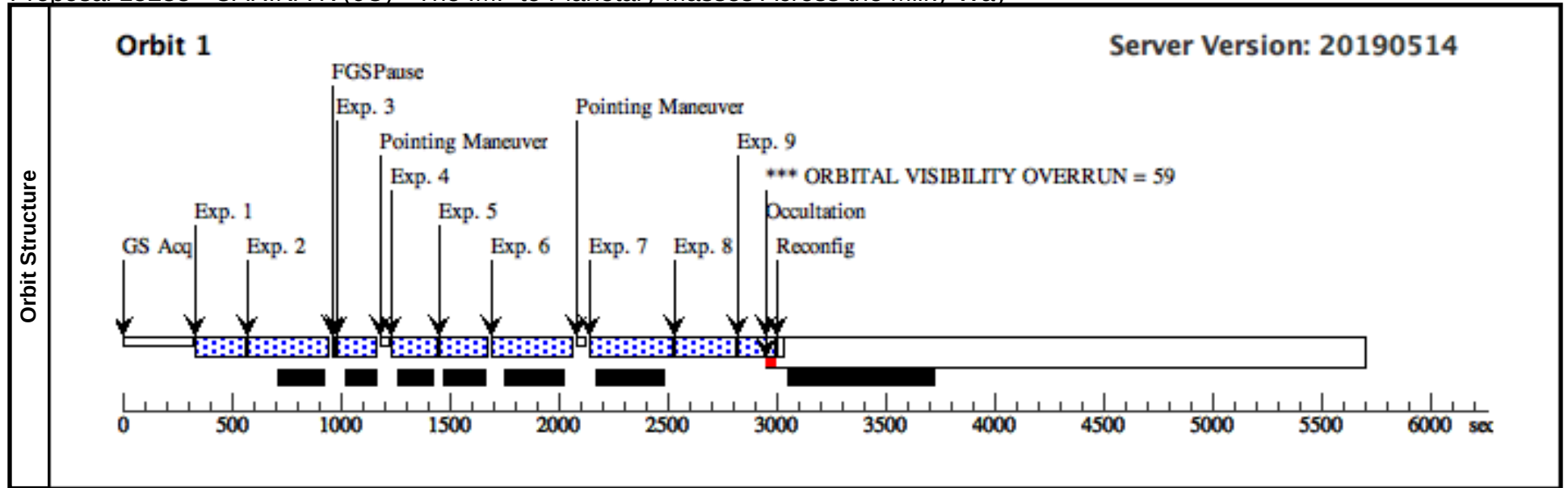
# Proposal 15238 - CARINA J (0T) - The IMF to Planetary Masses Across the Milky Way

|                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit                                                                                                                                                                                                                                                                                                    | Proposal 15238, CARINA J (0T), completed                                                                                                                                                                                                                                                                               |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:21 GMT 2019 |  |  |  |
|                                                                                                                                                                                                                                                                                                          | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                          | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                          | Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics                                                                                                                                                                                                                                                                                              | (CARINA J (0T)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                          | (CARINA J (0T)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                          | (CARINA J (0T)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                          | (CARINA J (0T)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                          | (CARINA J (0T)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                          | (CARINA J (0T)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                          | (CARINA J (0T)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets                                                                                                                                                                                                                                                                                            | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                                                                                                                       |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                          | (123)                      CARINANEBULA-J                      RA: 10 44 52.3071 (161.2179462d)                                           V=15+/-10                      Reference Frame: ICRS                                                                                                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                          | Dec: -59 43 55.14 (-59.73198d)                                                                                                                                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                          | Equinox: J2000                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Exposures                                                                                                                                                                                                                                                                                                | #                      Label                      Target                      Config,Mode,Aperture                      Spectral Els.                      Opt. Params.                      Special Reqs.                      Groups                      Exp. Time (Total)/[Actual Dur.]                      Orbit |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                          | 1                                           (123) CARINANEB                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=5;                      POS TARG 0,0;                      Sequence 1-9 Non-In                      202.934095 Secs (202.934 Secs)                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                          | ULA-J                                                                                                          SAMP-SEQ=SPAR                      EXP PCS MODE FI                      t in CARINA J (0T)                      [==>]                      [1]                                                          |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                          | S50                      NE                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                          | 2                                           (123) CARINANEB                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=8;                      POS TARG 0,0;                      Sequence 1-9 Non-In                      352.935448 Secs (352.935 Secs)                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                          | ULA-J                                                                                                          SAMP-SEQ=SPAR                      EXP PCS MODE FI                      t in CARINA J (0T)                      [==>]                      [1]                                                          |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                          | S50                      NE                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                          | 3                                           (123) CARINANEB                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;                      POS TARG 0,0;                      Sequence 1-9 Non-In                      152.935381 Secs (152.935 Secs)                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                          | ULA-J                                                                                                          SAMP-SEQ=SPAR                      EXP PCS MODE G                      t in CARINA J (0T)                      [==>]                      [1]                                                           |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|                                                                                                                                                                                                                                                                                                          | S25                      YRO                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 4                                           (123) CARINANEB                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=8;                      POS TARG 0,117;                      Sequence 1-9 Non-In                      177.935896 Secs (177.936 Secs)  |                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| ULA-J                                                                                                          SAMP-SEQ=SPAR                      EXP PCS MODE G                      t in CARINA J (0T)                      [==>]                      [1]                                             |                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| S25                      YRO                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 5                                           (123) CARINANEB                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=9;                      POS TARG 0,117;                      Sequence 1-9 Non-In                      202.936411 Secs (202.936 Secs)  |                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| ULA-J                                                                                                          SAMP-SEQ=SPAR                      EXP PCS MODE G                      t in CARINA J (0T)                      [==>]                      [1]                                             |                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| S25                      YRO                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 6                                           (123) CARINANEB                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=15;                      POS TARG 0,117;                      Sequence 1-9 Non-In                      352.939501 Secs (352.94 Secs)  |                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| ULA-J                                                                                                          SAMP-SEQ=SPAR                      EXP PCS MODE G                      t in CARINA J (0T)                      [==>]                      [1]                                             |                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| S25                      YRO                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 7                                           (123) CARINANEB                      WFC3/IR, MULTIACCUM, IR-FIX                      F139M                      NSAMP=15;                      POS TARG 0,234;                      Sequence 1-9 Non-In                      352.939501 Secs (352.94 Secs)  |                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| ULA-J                                                                                                          SAMP-SEQ=SPAR                      EXP PCS MODE G                      t in CARINA J (0T)                      [==>]                      [1]                                             |                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| S25                      YRO                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 8                                           (123) CARINANEB                      WFC3/IR, MULTIACCUM, IR-FIX                      F110W                      NSAMP=11;                      POS TARG 0,234;                      Sequence 1-9 Non-In                      252.937441 Secs (252.937 Secs) |                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| ULA-J                                                                                                          SAMP-SEQ=SPAR                      EXP PCS MODE G                      t in CARINA J (0T)                      [==>]                      [1]                                             |                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| S25                      YRO                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| 9                                           (123) CARINANEB                      WFC3/IR, MULTIACCUM, IR-FIX                      F160W                      NSAMP=7;                      POS TARG 0,234;                      Sequence 1-9 Non-In                      152.935381 Secs (152.935 Secs)  |                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| ULA-J                                                                                                          SAMP-SEQ=SPAR                      EXP PCS MODE G                      t in CARINA J (0T)                      [==>]                      [1]                                             |                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| S25                      YRO                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |



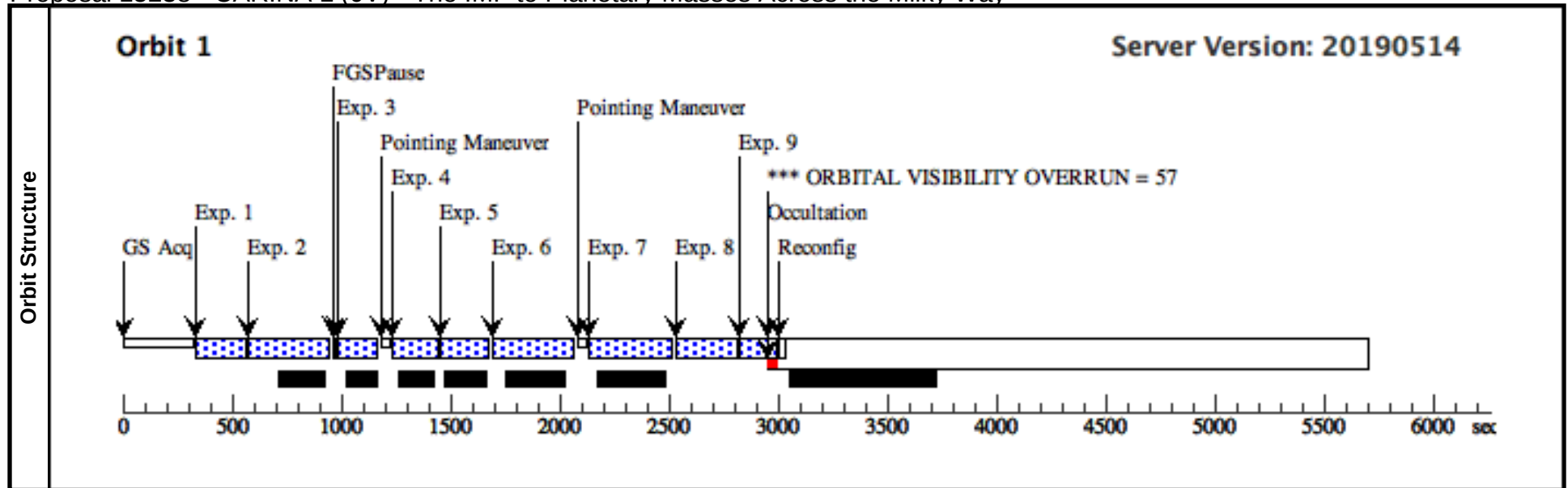
# Proposal 15238 - CARINA K (0U) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                                                                                                                                                                            |       |                      |                             |               |                                |                                        |                                       |                                         |  |                              |  |  |  |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------|-----------------------------|---------------|--------------------------------|----------------------------------------|---------------------------------------|-----------------------------------------|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, CARINA K (0U), completed                                                                                                                                                                                   |       |                      |                             |               |                                |                                        |                                       |                                         |  | Tue Sep 10 16:05:21 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                                                                                                                                                                                 |       |                      |                             |               |                                |                                        |                                       |                                         |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                                                                                                                                                                            |       |                      |                             |               |                                |                                        |                                       |                                         |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                                                                                                                                                                     |       |                      |                             |               |                                |                                        |                                       |                                         |  |                              |  |  |  |
| Diagnostics   | (CARINA K (0U)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                        |       |                      |                             |               |                                |                                        |                                       |                                         |  |                              |  |  |  |
|               | (CARINA K (0U)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                      |       |                      |                             |               |                                |                                        |                                       |                                         |  |                              |  |  |  |
|               | (CARINA K (0U)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                      |       |                      |                             |               |                                |                                        |                                       |                                         |  |                              |  |  |  |
|               | (CARINA K (0U)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                      |       |                      |                             |               |                                |                                        |                                       |                                         |  |                              |  |  |  |
|               | (CARINA K (0U)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                      |       |                      |                             |               |                                |                                        |                                       |                                         |  |                              |  |  |  |
|               | (CARINA K (0U)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                      |       |                      |                             |               |                                |                                        |                                       |                                         |  |                              |  |  |  |
|               | (CARINA K (0U)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                      |       |                      |                             |               |                                |                                        |                                       |                                         |  |                              |  |  |  |
| Fixed Targets | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                           |       |                      |                             |               |                                |                                        |                                       |                                         |  |                              |  |  |  |
|               | (124)                      CARINANEBULA-K                      RA: 10 44 40.0043 (161.1666846d)<br>Dec: -59 47 29.12 (-59.79142d)<br>Equinox: J2000<br><br>Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |       |                      |                             |               |                                |                                        |                                       |                                         |  |                              |  |  |  |
| Exposures     | #                                                                                                                                                                                                                          | Label | Target               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                          | Groups                                | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |  |  |
|               | 1                                                                                                                                                                                                                          |       | (124) CARINANEBULA-K | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE     | Sequence 1-9 Non-Int in CARINA K (0U) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 2                                                                                                                                                                                                                          |       | (124) CARINANEBULA-K | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE     | Sequence 1-9 Non-Int in CARINA K (0U) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 3                                                                                                                                                                                                                          |       | (124) CARINANEBULA-K | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0;<br>EXP PCS MODE GYRO     | Sequence 1-9 Non-Int in CARINA K (0U) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 4                                                                                                                                                                                                                          |       | (124) CARINANEBULA-K | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO   | Sequence 1-9 Non-Int in CARINA K (0U) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 5                                                                                                                                                                                                                          |       | (124) CARINANEBULA-K | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO   | Sequence 1-9 Non-Int in CARINA K (0U) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 6                                                                                                                                                                                                                          |       | (124) CARINANEBULA-K | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE GYRO   | Sequence 1-9 Non-Int in CARINA K (0U) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 7                                                                                                                                                                                                                          |       | (124) CARINANEBULA-K | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 130,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA K (0U) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 8                                                                                                                                                                                                                          |       | (124) CARINANEBULA-K | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 130,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA K (0U) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 9                                                                                                                                                                                                                          |       | (124) CARINANEBULA-K | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 130,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA K (0U) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |



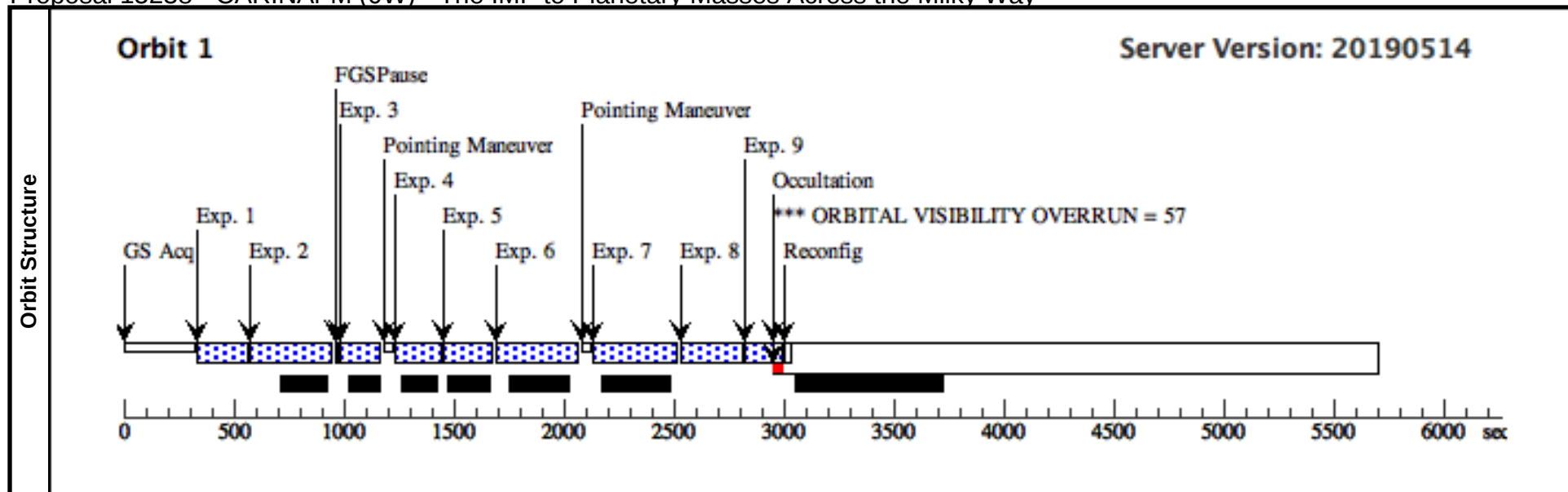
# Proposal 15238 - CARINA L (0V) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                       |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|---------------|-----------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, CARINA L (0V), completed                              |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:21 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                            |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                       |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics   | (CARINA L (0V)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINA L (0V)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINA L (0V)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINA L (0V)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINA L (0V)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINA L (0V)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINA L (0V)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets | #            Name                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |



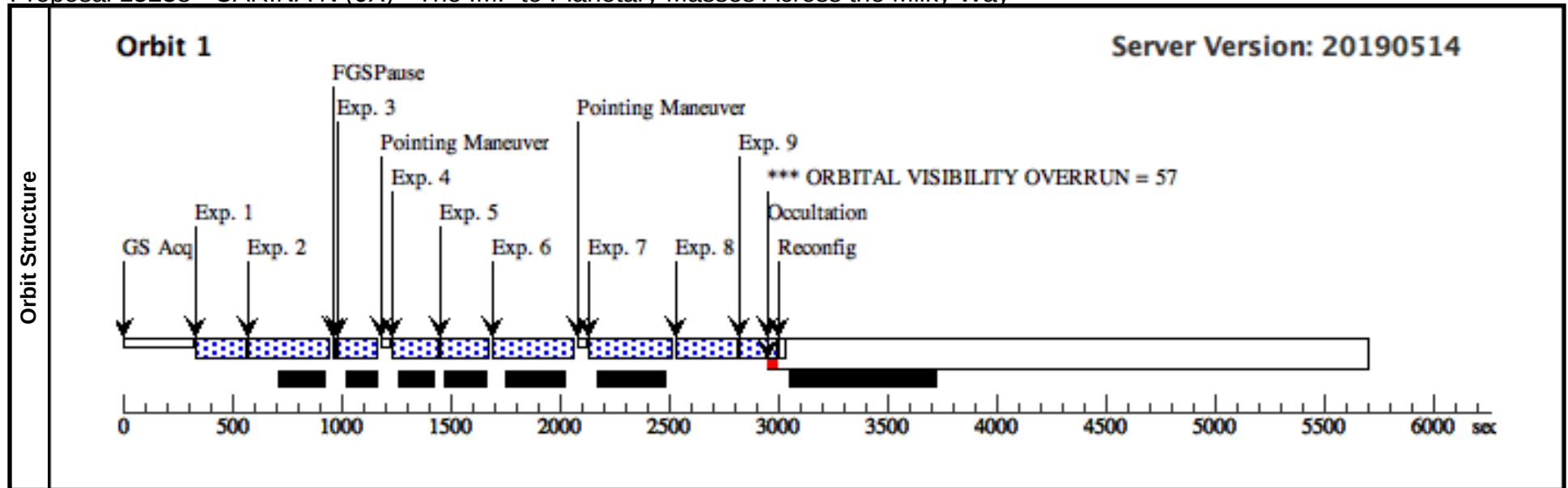
# Proposal 15238 - CARINAr M (0W) - The IMF to Planetary Masses Across the Milky Way

|                                                                                                                                                                                |                                                                        |       |                      |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------|----------------------|-----------------------------|---------------|--------------------------------|---------------------------------------|----------------------------------------|-----------------------------------------|--|------------------------------|--|--|--|
| Visit                                                                                                                                                                          | Proposal 15238, CARINAr M (0W), completed                              |       |                      |                             |               |                                |                                       |                                        |                                         |  | Tue Sep 10 16:05:21 GMT 2019 |  |  |  |
|                                                                                                                                                                                | Diagnostic Status: Warning                                             |       |                      |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
|                                                                                                                                                                                | Scientific Instruments: WFC3/IR                                        |       |                      |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
|                                                                                                                                                                                | Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                 |       |                      |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
| Diagnostics                                                                                                                                                                    | (CARINAr M (0W)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                      |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
|                                                                                                                                                                                | (CARINAr M (0W)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
|                                                                                                                                                                                | (CARINAr M (0W)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
|                                                                                                                                                                                | (CARINAr M (0W)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
|                                                                                                                                                                                | (CARINAr M (0W)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
|                                                                                                                                                                                | (CARINAr M (0W)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
|                                                                                                                                                                                | (CARINAr M (0W)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
| Fixed Targets                                                                                                                                                                  |                                                                        |       |                      |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
|                                                                                                                                                                                | #                                                                      | Name  | Target Coordinates   |                             |               | Targ. Coord. Corrections       |                                       |                                        | Fluxes                                  |  | Miscellaneous                |  |  |  |
| (126) CARINANEBULA-M RA: 10 45 9.1483 (161.2881179d)<br>Dec: -59 34 4.67 (-59.56796d)<br>Equinox: J2000<br><br>Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                        |       |                      |                             |               |                                |                                       |                                        |                                         |  |                              |  |  |  |
| Exposures                                                                                                                                                                      | #                                                                      | Label | Target               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                         | Groups                                 | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |  |  |
|                                                                                                                                                                                | 1                                                                      |       | (126) CARINANEBULA-M | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE    | Sequence 1-9 Non-Int in CARINAr M (0W) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |  |  |
|                                                                                                                                                                                | 2                                                                      |       | (126) CARINANEBULA-M | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE    | Sequence 1-9 Non-Int in CARINAr M (0W) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|                                                                                                                                                                                | 3                                                                      |       | (126) CARINANEBULA-M | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0;<br>EXP PCS MODE GYRO    | Sequence 1-9 Non-Int in CARINAr M (0W) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|                                                                                                                                                                                | 4                                                                      |       | (126) CARINANEBULA-M | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,-117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINAr M (0W) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|                                                                                                                                                                                | 5                                                                      |       | (126) CARINANEBULA-M | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,-117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINAr M (0W) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|                                                                                                                                                                                | 6                                                                      |       | (126) CARINANEBULA-M | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,-117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINAr M (0W) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|                                                                                                                                                                                | 7                                                                      |       | (126) CARINANEBULA-M | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,-234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINAr M (0W) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|                                                                                                                                                                                | 8                                                                      |       | (126) CARINANEBULA-M | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,-234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINAr M (0W) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |  |  |
|                                                                                                                                                                                | 9                                                                      |       | (126) CARINANEBULA-M | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,-234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINAr M (0W) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |



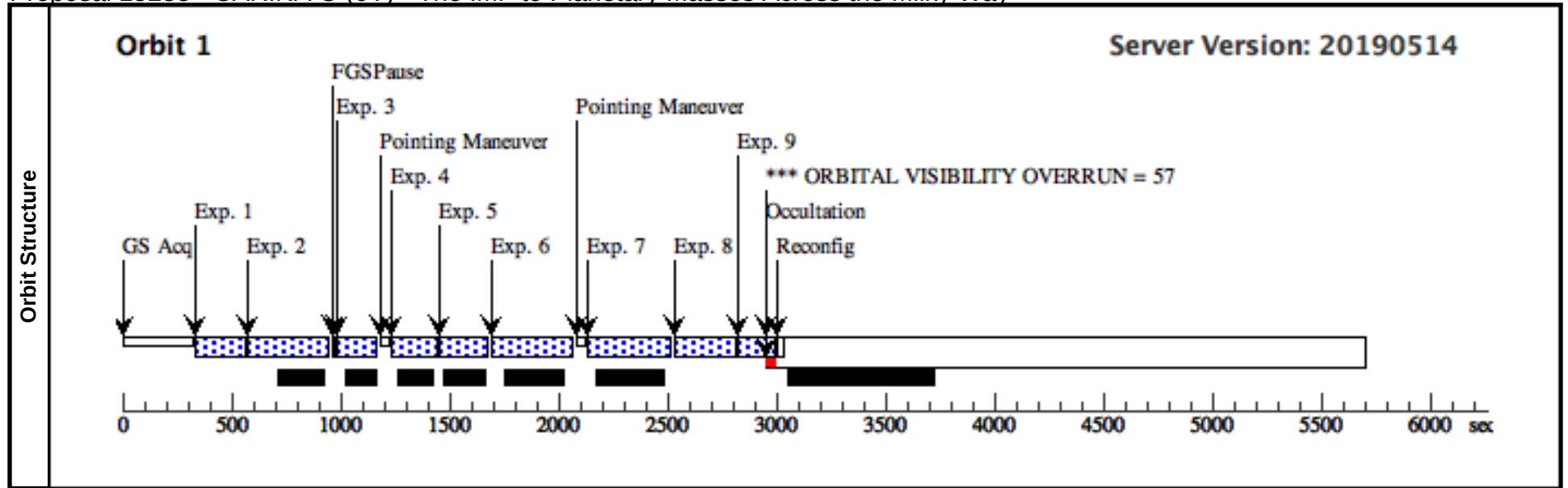
# Proposal 15238 - CARINA N (0X) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                       |  |  |  |  |  |  |  |  |                              |  |  |
|---------------|-----------------------------------------------------------------------|--|--|--|--|--|--|--|--|------------------------------|--|--|
| Visit         | Proposal 15238, CARINA N (0X), completed                              |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:21 GMT 2019 |  |  |
|               | Diagnostic Status: Warning                                            |  |  |  |  |  |  |  |  |                              |  |  |
|               | Scientific Instruments: WFC3/IR                                       |  |  |  |  |  |  |  |  |                              |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                |  |  |  |  |  |  |  |  |                              |  |  |
| Diagnostics   | (CARINA N (0X)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |                              |  |  |
|               | (CARINA N (0X)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (CARINA N (0X)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (CARINA N (0X)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (CARINA N (0X)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (CARINA N (0X)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
|               | (CARINA N (0X)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |                              |  |  |
| Fixed Targets | #            Name                                                     |  |  |  |  |  |  |  |  |                              |  |  |



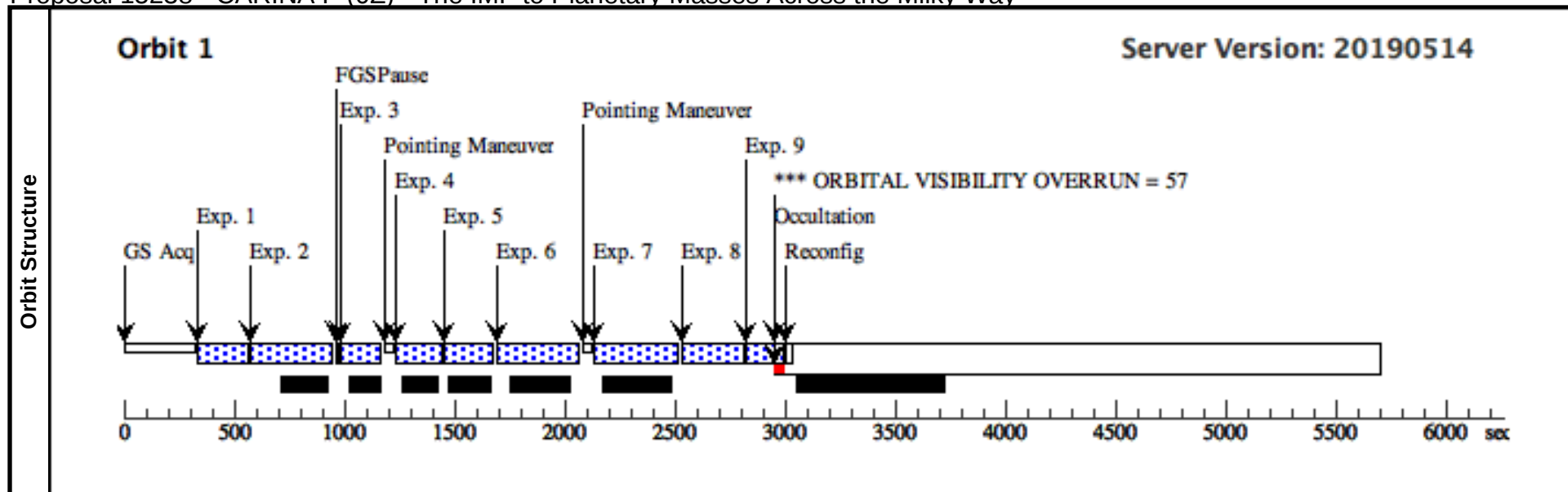
# Proposal 15238 - CARINA O (0Y) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                                                                                                                                                                            |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------|-----------------------------|---------------|--------------------------------|--------------------------------------|---------------------------------------|-----------------------------------------|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, CARINA O (0Y), completed                                                                                                                                                                                   |       |                      |                             |               |                                |                                      |                                       |                                         |  | Tue Sep 10 16:05:21 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                                                                                                                                                                                 |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                                                                                                                                                                            |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                                                                                                                                                                     |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
| Diagnostics   | (CARINA O (0Y)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                        |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
|               | (CARINA O (0Y)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                      |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
|               | (CARINA O (0Y)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                      |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
|               | (CARINA O (0Y)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                      |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
|               | (CARINA O (0Y)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                      |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
|               | (CARINA O (0Y)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                      |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
|               | (CARINA O (0Y)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE                                                                                                                                                      |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
| Fixed Targets | #                      Name                      Target Coordinates                      Targ. Coord. Corrections                      Fluxes                      Miscellaneous                                           |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
|               | (128)                      CARINANEBULA-O                      RA: 10 44 26.9424 (161.1122600d)<br>Dec: -59 27 26.81 (-59.45745d)<br>Equinox: J2000<br><br>Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |       |                      |                             |               |                                |                                      |                                       |                                         |  |                              |  |  |  |
| Exposures     | #                                                                                                                                                                                                                          | Label | Target               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                        | Groups                                | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |  |  |
|               | 1                                                                                                                                                                                                                          |       | (128) CARINANEBULA-O | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in CARINA O (0Y) | 202.934095 Secs (202.934 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 2                                                                                                                                                                                                                          |       | (128) CARINANEBULA-O | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE   | Sequence 1-9 Non-Int in CARINA O (0Y) | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 3                                                                                                                                                                                                                          |       | (128) CARINANEBULA-O | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0;<br>EXP PCS MODE GYRO   | Sequence 1-9 Non-Int in CARINA O (0Y) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 4                                                                                                                                                                                                                          |       | (128) CARINANEBULA-O | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA O (0Y) | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 5                                                                                                                                                                                                                          |       | (128) CARINANEBULA-O | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA O (0Y) | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 6                                                                                                                                                                                                                          |       | (128) CARINANEBULA-O | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA O (0Y) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 7                                                                                                                                                                                                                          |       | (128) CARINANEBULA-O | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA O (0Y) | 352.939501 Secs (352.94 Secs)<br>[==>]  |  | [1]                          |  |  |  |
|               | 8                                                                                                                                                                                                                          |       | (128) CARINANEBULA-O | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA O (0Y) | 252.937441 Secs (252.937 Secs)<br>[==>] |  | [1]                          |  |  |  |
|               | 9                                                                                                                                                                                                                          |       | (128) CARINANEBULA-O | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA O (0Y) | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |  |  |



# Proposal 15238 - CARINA P (0Z) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                       |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|---------------|-----------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, CARINA P (0Z), completed                              |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:21 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                            |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                       |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics   | (CARINA P (0Z)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINA P (0Z)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINA P (0Z)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINA P (0Z)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINA P (0Z)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINA P (0Z)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINA P (0Z)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets | #            Name                                                     |  |  |  |  |  |  |  |  |  |                              |  |  |  |

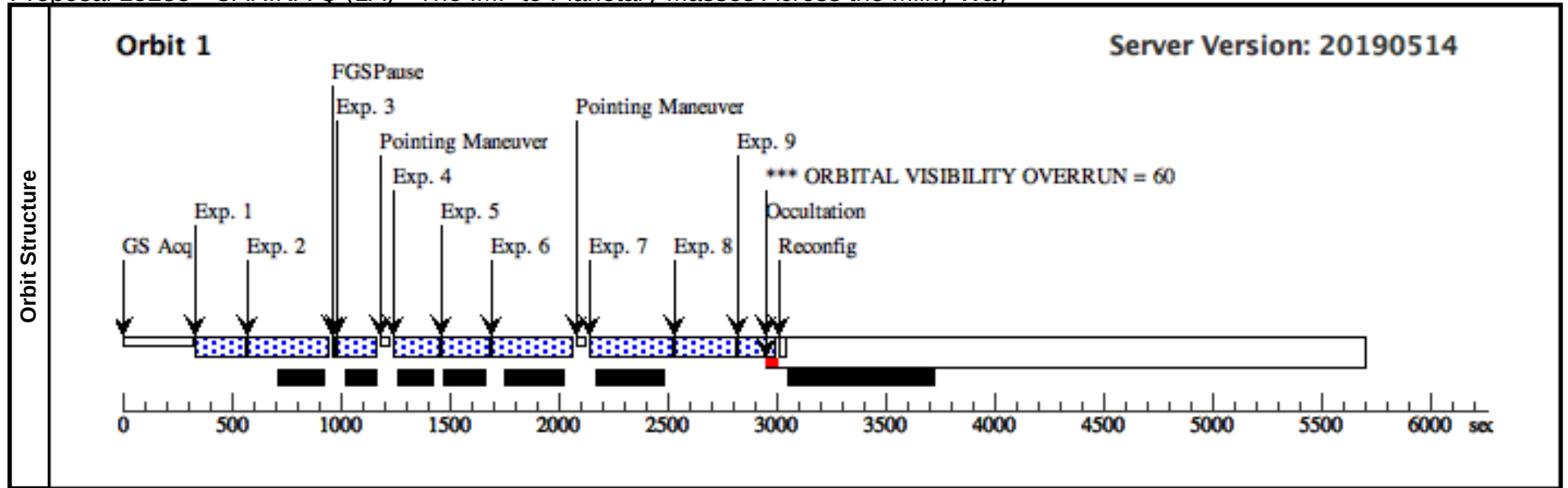


# Proposal 15238 - CARINA Q (1A) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                                                                                     |                          |           |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|--------------------------|-----------|
| Visit         | <b>Proposal 15238, CARINA Q (1A), completed</b> <span style="float: right;">Tue Sep 10 16:05:21 GMT 2019</span>                                                                                                                                                                                                                                                                                                                                                                                                           |                |                                                                                     |                          |           |
|               | <b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                                                                                                                                                                                                                                                                                                                                                                                            |                |                                                                                     |                          |           |
| Diagnostics   | (CARINA Q (1A)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(CARINA Q (1A)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE<br>(CARINA Q (1A)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE<br>(CARINA Q (1A)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE<br>(CARINA Q (1A)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE<br>(CARINA Q (1A)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE<br>(CARINA Q (1A)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                     |                          |           |
|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                                                                                     |                          |           |
| Fixed Targets | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Name           | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes    |
|               | (130)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CARINANEBULA-Q | RA: 10 45 0.0978 (161.2504075d)<br>Dec: -59 20 49.65 (-59.34713d)<br>Equinox: J2000 |                          | V=15+/-10 |
| Fixed Targets | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                                                                                     |                          |           |
|               | Reference Frame: ICRS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |                                                                                     |                          |           |

# Proposal 15238 - CARINA Q (1A) - The IMF to Planetary Masses Across the Milky Way

| Exposures | # | Label | Target                | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                            | Groups                                | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|---|-------|-----------------------|-----------------------------|---------------|--------------------------------|------------------------------------------|---------------------------------------|-----------------------------------------|-------|
|           | 1 |       | (130) CARINANEB ULA-Q | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FI NE      | Sequence 1-9 Non-Int in CARINA Q (1A) | 202.934095 Secs (202.934 Secs)<br>[==>] | [1]   |
|           | 2 |       | (130) CARINANEB ULA-Q | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FI NE      | Sequence 1-9 Non-Int in CARINA Q (1A) | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|           | 3 |       | (130) CARINANEB ULA-Q | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0;<br>EXP PCS MODE G YRO      | Sequence 1-9 Non-Int in CARINA Q (1A) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |
|           | 4 |       | (130) CARINANEB ULA-Q | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG -30,-117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in CARINA Q (1A) | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|           | 5 |       | (130) CARINANEB ULA-Q | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG -30,-117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in CARINA Q (1A) | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|           | 6 |       | (130) CARINANEB ULA-Q | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG -30,-117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in CARINA Q (1A) | 352.939501 Secs (352.94 Secs)<br>[==>]  | [1]   |
|           | 7 |       | (130) CARINANEB ULA-Q | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 100,-117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in CARINA Q (1A) | 352.939501 Secs (352.94 Secs)<br>[==>]  | [1]   |
|           | 8 |       | (130) CARINANEB ULA-Q | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 100,-117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in CARINA Q (1A) | 252.937441 Secs (252.937 Secs)<br>[==>] | [1]   |
|           | 9 |       | (130) CARINANEB ULA-Q | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 100,-117;<br>EXP PCS MODE G YRO | Sequence 1-9 Non-Int in CARINA Q (1A) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |

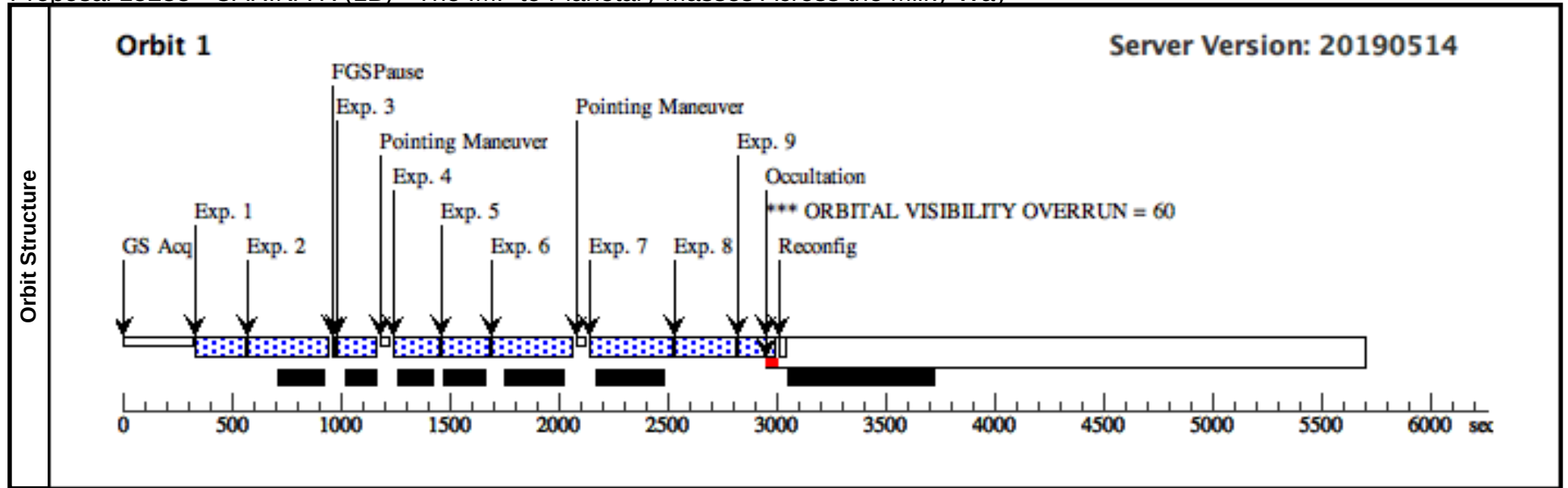


# Proposal 15238 - CARINA R (1B) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                                                                                     |                          |           |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|--------------------------|-----------|
| Visit         | <b>Proposal 15238, CARINA R (1B), completed</b> <span style="float: right;">Tue Sep 10 16:05:21 GMT 2019</span>                                                                                                                                                                                                                                                                                                                                                                                                           |                |                                                                                     |                          |           |
|               | <b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                                                                                                                                                                                                                                                                                                                                                                                            |                |                                                                                     |                          |           |
| Diagnostics   | (CARINA R (1B)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(CARINA R (1B)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE<br>(CARINA R (1B)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE<br>(CARINA R (1B)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE<br>(CARINA R (1B)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE<br>(CARINA R (1B)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE<br>(CARINA R (1B)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |                |                                                                                     |                          |           |
|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                                                                                     |                          |           |
| Fixed Targets | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Name           | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes    |
|               | (131)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CARINANEBULA-R | RA: 10 45 2.2630 (161.2594292d)<br>Dec: -59 46 37.85 (-59.77718d)<br>Equinox: J2000 |                          | V=15+/-10 |
| Fixed Targets | Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER]                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                                                                                     |                          |           |
|               | Reference Frame: ICRS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |                                                                                     |                          |           |

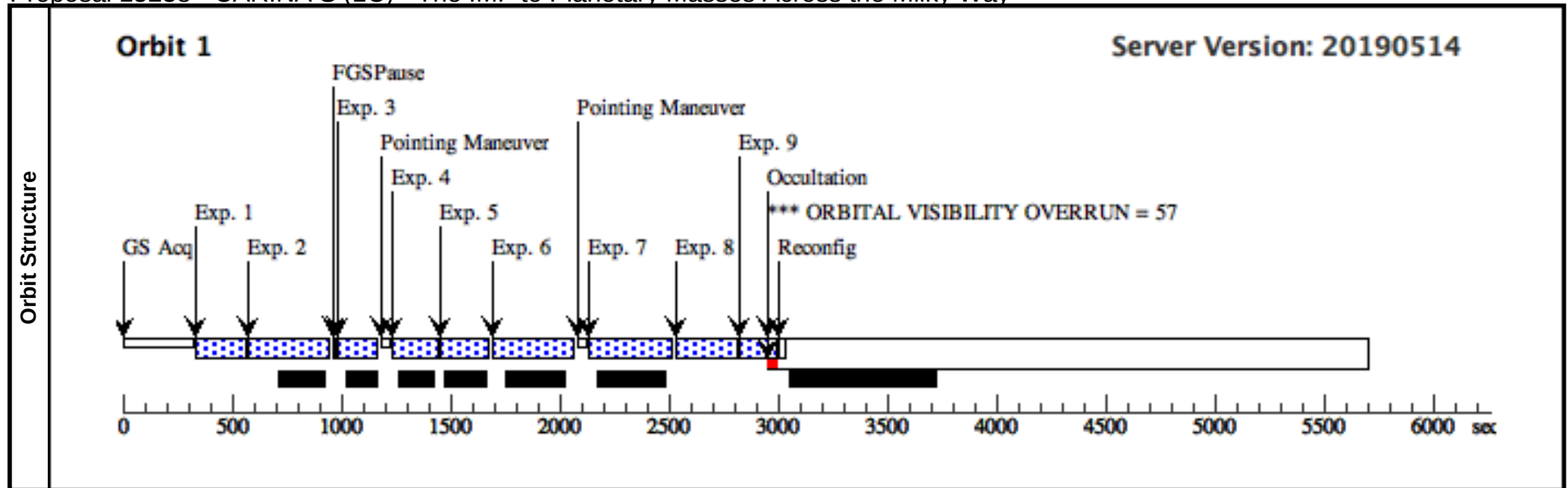
# Proposal 15238 - CARINA R (1B) - The IMF to Planetary Masses Across the Milky Way

| Exposures | # | Label | Target                  | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                                   | Groups                                   | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|---|-------|-------------------------|-----------------------------|---------------|-----------------------------------|-------------------------------------------------|------------------------------------------|-----------------------------------------|-------|
|           | 1 |       | (131) CARINANE<br>ULA-R | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE          | Sequence 1-9 Non-Int<br>in CARINA R (1B) | 202.934095 Secs (202.934 Secs)<br>[==>] | [1]   |
|           | 2 |       | (131) CARINANE<br>ULA-R | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0;<br>EXP PCS MODE FI<br>NE          | Sequence 1-9 Non-Int<br>in CARINA R (1B) | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|           | 3 |       | (131) CARINANE<br>ULA-R | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0;<br>EXP PCS MODE G<br>YRO          | Sequence 1-9 Non-Int<br>in CARINA R (1B) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |
|           | 4 |       | (131) CARINANE<br>ULA-R | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -129,11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-Int<br>in CARINA R (1B) | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|           | 5 |       | (131) CARINANE<br>ULA-R | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -129,11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-Int<br>in CARINA R (1B) | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|           | 6 |       | (131) CARINANE<br>ULA-R | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -129,11<br>7;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-Int<br>in CARINA R (1B) | 352.939501 Secs (352.94 Secs)<br>[==>]  | [1]   |
|           | 7 |       | (131) CARINANE<br>ULA-R | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -129,23<br>4;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-Int<br>in CARINA R (1B) | 352.939501 Secs (352.94 Secs)<br>[==>]  | [1]   |
|           | 8 |       | (131) CARINANE<br>ULA-R | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -129,23<br>4;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-Int<br>in CARINA R (1B) | 252.937441 Secs (252.937 Secs)<br>[==>] | [1]   |
|           | 9 |       | (131) CARINANE<br>ULA-R | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -129,23<br>4;<br>EXP PCS MODE G<br>YRO | Sequence 1-9 Non-Int<br>in CARINA R (1B) | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |



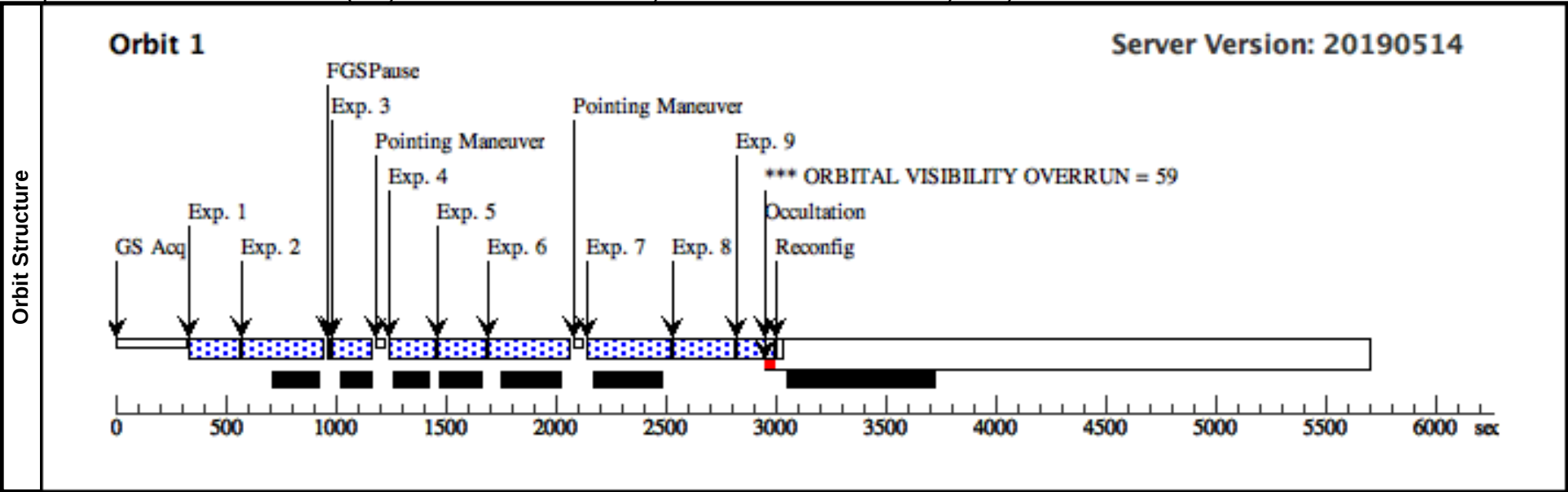
# Proposal 15238 - CARINA S (1C) - The IMF to Planetary Masses Across the Milky Way

|                                                                 |                                                                       |       |                      |                             |       |                          |                                |                                       |                                       |                                         |                                 |     |       |  |
|-----------------------------------------------------------------|-----------------------------------------------------------------------|-------|----------------------|-----------------------------|-------|--------------------------|--------------------------------|---------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------|-----|-------|--|
| Visit                                                           | Proposal 15238, CARINA S (1C), completed                              |       |                      |                             |       |                          |                                |                                       |                                       |                                         | Tue Sep 10 16:05:21 GMT 2019    |     |       |  |
|                                                                 | Diagnostic Status: Warning                                            |       |                      |                             |       |                          |                                |                                       |                                       |                                         |                                 |     |       |  |
|                                                                 | Scientific Instruments: WFC3/IR                                       |       |                      |                             |       |                          |                                |                                       |                                       |                                         |                                 |     |       |  |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                |       |                      |                             |       |                          |                                |                                       |                                       |                                         |                                 |     |       |  |
| Diagnostics                                                     | (CARINA S (1C)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                      |                             |       |                          |                                |                                       |                                       |                                         |                                 |     |       |  |
|                                                                 | (CARINA S (1C)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |       |                          |                                |                                       |                                       |                                         |                                 |     |       |  |
|                                                                 | (CARINA S (1C)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |       |                          |                                |                                       |                                       |                                         |                                 |     |       |  |
|                                                                 | (CARINA S (1C)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |       |                          |                                |                                       |                                       |                                         |                                 |     |       |  |
|                                                                 | (CARINA S (1C)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |       |                          |                                |                                       |                                       |                                         |                                 |     |       |  |
|                                                                 | (CARINA S (1C)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |       |                          |                                |                                       |                                       |                                         |                                 |     |       |  |
|                                                                 | (CARINA S (1C)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                      |                             |       |                          |                                |                                       |                                       |                                         |                                 |     |       |  |
| Fixed Targets                                                   |                                                                       |       |                      |                             |       |                          |                                |                                       |                                       |                                         |                                 |     |       |  |
|                                                                 | #                                                                     | Name  | Target Coordinates   |                             |       | Targ. Coord. Corrections |                                |                                       | Fluxes                                |                                         | Miscellaneous                   |     |       |  |
| (132) CARINANEBULA-S                                            |                                                                       |       |                      |                             |       |                          |                                |                                       |                                       |                                         |                                 |     |       |  |
| RA: 10 43 57.2291 (160.9884546d)                                |                                                                       |       |                      |                             |       |                          |                                |                                       |                                       |                                         |                                 |     |       |  |
| Dec: -59 27 51.65 (-59.46435d)                                  |                                                                       |       |                      |                             |       |                          |                                |                                       |                                       |                                         |                                 |     |       |  |
| Equinox: J2000                                                  |                                                                       |       |                      |                             |       |                          |                                |                                       |                                       |                                         |                                 |     |       |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                       |       |                      |                             |       |                          |                                |                                       |                                       |                                         |                                 |     |       |  |
| Exposures                                                       | #                                                                     | Label | Target               | Config,Mode,Aperture        |       | Spectral Els.            | Opt. Params.                   |                                       | Special Reqs.                         | Groups                                  | Exp. Time (Total)/[Actual Dur.] |     | Orbit |  |
|                                                                 | 1                                                                     |       | (132) CARINANEBULA-S | WFC3/IR, MULTIACCUM, IR-FIX | F110W |                          | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE    | Sequence 1-9 Non-Int in CARINA S (1C) | 202.934095 Secs (202.934 Secs)<br>[==>] |                                 | [1] |       |  |
|                                                                 | 2                                                                     |       | (132) CARINANEBULA-S | WFC3/IR, MULTIACCUM, IR-FIX | F139M |                          | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE    | Sequence 1-9 Non-Int in CARINA S (1C) | 352.935448 Secs (352.935 Secs)<br>[==>] |                                 | [1] |       |  |
|                                                                 | 3                                                                     |       | (132) CARINANEBULA-S | WFC3/IR, MULTIACCUM, IR-FIX | F160W |                          | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0;<br>EXP PCS MODE GYRO    | Sequence 1-9 Non-Int in CARINA S (1C) | 152.935381 Secs (152.935 Secs)<br>[==>] |                                 | [1] |       |  |
|                                                                 | 4                                                                     |       | (132) CARINANEBULA-S | WFC3/IR, MULTIACCUM, IR-FIX | F160W |                          | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,-117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA S (1C) | 177.935896 Secs (177.936 Secs)<br>[==>] |                                 | [1] |       |  |
|                                                                 | 5                                                                     |       | (132) CARINANEBULA-S | WFC3/IR, MULTIACCUM, IR-FIX | F110W |                          | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,-117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA S (1C) | 202.936411 Secs (202.936 Secs)<br>[==>] |                                 | [1] |       |  |
|                                                                 | 6                                                                     |       | (132) CARINANEBULA-S | WFC3/IR, MULTIACCUM, IR-FIX | F139M |                          | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,-117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA S (1C) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                                 | [1] |       |  |
|                                                                 | 7                                                                     |       | (132) CARINANEBULA-S | WFC3/IR, MULTIACCUM, IR-FIX | F139M |                          | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,-234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA S (1C) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                                 | [1] |       |  |
|                                                                 | 8                                                                     |       | (132) CARINANEBULA-S | WFC3/IR, MULTIACCUM, IR-FIX | F110W |                          | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,-234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA S (1C) | 252.937441 Secs (252.937 Secs)<br>[==>] |                                 | [1] |       |  |
|                                                                 | 9                                                                     |       | (132) CARINANEBULA-S | WFC3/IR, MULTIACCUM, IR-FIX | F160W |                          | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,-234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINA S (1C) | 152.935381 Secs (152.935 Secs)<br>[==>] |                                 | [1] |       |  |



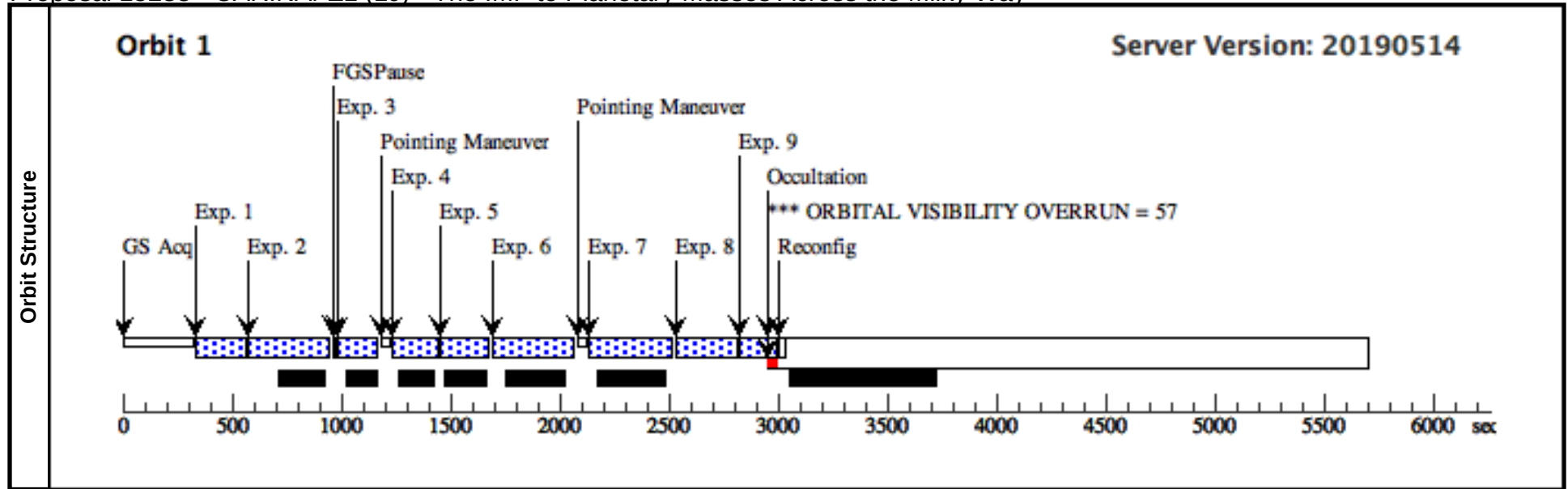
# Proposal 15238 - CARINAr T (1D) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|---------------|------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, CARINAr T (1D), completed                              |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:21 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                             |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                        |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                 |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics   | (CARINAr T (1D)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINAr T (1D)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINAr T (1D)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINAr T (1D)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINAr T (1D)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINAr T (1D)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINAr T (1D)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets | #            Name                                                      |  |  |  |  |  |  |  |  |  |                              |  |  |  |



# Proposal 15238 - CARINAr Z1 (1J) - The IMF to Planetary Masses Across the Milky Way

|                                                                 |                                                                         |       |                        |                             |               |                                |                                       |                                         |                                         |                              |       |  |  |
|-----------------------------------------------------------------|-------------------------------------------------------------------------|-------|------------------------|-----------------------------|---------------|--------------------------------|---------------------------------------|-----------------------------------------|-----------------------------------------|------------------------------|-------|--|--|
| Visit                                                           | Proposal 15238, CARINAr Z1 (1J), completed                              |       |                        |                             |               |                                |                                       |                                         |                                         | Tue Sep 10 16:05:21 GMT 2019 |       |  |  |
|                                                                 | Diagnostic Status: Warning                                              |       |                        |                             |               |                                |                                       |                                         |                                         |                              |       |  |  |
|                                                                 | Scientific Instruments: WFC3/IR                                         |       |                        |                             |               |                                |                                       |                                         |                                         |                              |       |  |  |
|                                                                 | Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                  |       |                        |                             |               |                                |                                       |                                         |                                         |                              |       |  |  |
| Diagnostics                                                     | (CARINAr Z1 (1J)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |       |                        |                             |               |                                |                                       |                                         |                                         |                              |       |  |  |
|                                                                 | (CARINAr Z1 (1J)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                        |                             |               |                                |                                       |                                         |                                         |                              |       |  |  |
|                                                                 | (CARINAr Z1 (1J)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                        |                             |               |                                |                                       |                                         |                                         |                              |       |  |  |
|                                                                 | (CARINAr Z1 (1J)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                        |                             |               |                                |                                       |                                         |                                         |                              |       |  |  |
|                                                                 | (CARINAr Z1 (1J)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                        |                             |               |                                |                                       |                                         |                                         |                              |       |  |  |
|                                                                 | (CARINAr Z1 (1J)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                        |                             |               |                                |                                       |                                         |                                         |                              |       |  |  |
|                                                                 | (CARINAr Z1 (1J)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |       |                        |                             |               |                                |                                       |                                         |                                         |                              |       |  |  |
| Fixed Targets                                                   |                                                                         |       |                        |                             |               |                                |                                       |                                         |                                         |                              |       |  |  |
|                                                                 | #                                                                       | Name  | Target Coordinates     |                             |               | Targ. Coord. Corrections       |                                       | Fluxes                                  |                                         | Miscellaneous                |       |  |  |
| (139) CARINANEBULA-Z1                                           |                                                                         |       |                        |                             |               |                                |                                       |                                         |                                         |                              |       |  |  |
| RA: 10 45 40.4247 (161.4184363d)                                |                                                                         |       |                        |                             |               |                                |                                       |                                         |                                         |                              |       |  |  |
| Dec: -59 46 44.62 (-59.77906d)                                  |                                                                         |       |                        |                             |               |                                |                                       |                                         |                                         |                              |       |  |  |
| Equinox: J2000                                                  |                                                                         |       |                        |                             |               |                                |                                       |                                         |                                         |                              |       |  |  |
| Comments:<br>Category=EXT-CLUSTER<br>Description=[OPEN CLUSTER] |                                                                         |       |                        |                             |               |                                |                                       |                                         |                                         |                              |       |  |  |
| Exposures                                                       | #                                                                       | Label | Target                 | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                         | Groups                                  | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |  |  |
|                                                                 | 1                                                                       |       | (139) CARINANEB ULA-Z1 | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=5;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE    | Sequence 1-9 Non-Int in CARINAr Z1 (1J) | 202.934095 Secs (202.934 Secs)<br>[==>] |                              | [1]   |  |  |
|                                                                 | 2                                                                       |       | (139) CARINANEB ULA-Z1 | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0,0;<br>EXP PCS MODE FINE    | Sequence 1-9 Non-Int in CARINAr Z1 (1J) | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |  |  |
|                                                                 | 3                                                                       |       | (139) CARINANEB ULA-Z1 | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0;<br>EXP PCS MODE GYRO    | Sequence 1-9 Non-Int in CARINAr Z1 (1J) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |  |
|                                                                 | 4                                                                       |       | (139) CARINANEB ULA-Z1 | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,-117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINAr Z1 (1J) | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |  |  |
|                                                                 | 5                                                                       |       | (139) CARINANEB ULA-Z1 | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,-117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINAr Z1 (1J) | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |  |  |
|                                                                 | 6                                                                       |       | (139) CARINANEB ULA-Z1 | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,-117;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINAr Z1 (1J) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |  |
|                                                                 | 7                                                                       |       | (139) CARINANEB ULA-Z1 | WFC3/IR, MULTIACCUM, IR-FIX | F139M         | NSAMP=15;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,-234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINAr Z1 (1J) | 352.939501 Secs (352.94 Secs)<br>[==>]  |                              | [1]   |  |  |
|                                                                 | 8                                                                       |       | (139) CARINANEB ULA-Z1 | WFC3/IR, MULTIACCUM, IR-FIX | F110W         | NSAMP=11;<br>SAMP-SEQ=SPAR S25 | POS TARG 0,-234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINAr Z1 (1J) | 252.937441 Secs (252.937 Secs)<br>[==>] |                              | [1]   |  |  |
|                                                                 | 9                                                                       |       | (139) CARINANEB ULA-Z1 | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,-234;<br>EXP PCS MODE GYRO | Sequence 1-9 Non-Int in CARINAr Z1 (1J) | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |  |  |



# Proposal 15238 - CARINAr Z2 (1K) - The IMF to Planetary Masses Across the Milky Way

|               |                                                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|---------------|-------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------|--|--|--|
| Visit         | Proposal 15238, CARINAr Z2 (1K), completed                              |  |  |  |  |  |  |  |  |  | Tue Sep 10 16:05:21 GMT 2019 |  |  |  |
|               | Diagnostic Status: Warning                                              |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Scientific Instruments: WFC3/IR                                         |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | Special Requirements: SCHED 100%; ORIENT 340D TO 340 D                  |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Diagnostics   | (CARINAr Z2 (1K)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINAr Z2 (1K)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINAr Z2 (1K)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINAr Z2 (1K)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINAr Z2 (1K)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINAr Z2 (1K)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
|               | (CARINAr Z2 (1K)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE |  |  |  |  |  |  |  |  |  |                              |  |  |  |
| Fixed Targets | #            Name                                                       |  |  |  |  |  |  |  |  |  |                              |  |  |  |

