



16670 - They almost got away: a SNAPshot survey of extreme galaxy clusters at $z=0.2-0.5$

Cycle: 29, Proposal Category: SNAP

(Availability Mode: SUPPORTED)

INVESTIGATORS

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|--|--|-------------------------------|
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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> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 01 | (1) MACSJ0003.1-0605 | ACS/WFC | 1 | 07-Oct-2021 07:00:29.0 | yes |
| 02 | (1) MACSJ0003.1-0605 | ACS/WFC | 1 | 07-Oct-2021 07:00:29.0 | yes |
| 03 | (1) MACSJ0003.1-0605 | WFC3/IR | 1 | 07-Oct-2021 07:00:30.0 | yes |
| 04 | (2) MACSJ0019.0-2026 | ACS/WFC | 1 | 07-Oct-2021 07:00:31.0 | yes |
| 05 | (2) MACSJ0019.0-2026 | ACS/WFC | 1 | 07-Oct-2021 07:00:31.0 | yes |
| 06 | (2) MACSJ0019.0-2026 | WFC3/IR | 1 | 07-Oct-2021 07:00:32.0 | yes |
| 07 | (4) MACSJ0106.8+0103 | ACS/WFC | 1 | 07-Oct-2021 07:00:32.0 | yes |

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| <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> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 08 | (4) MACSJ0106.8+0103 | ACS/WFC | 1 | 07-Oct-2021 07:00:33.0 | yes |
| 09 | (4) MACSJ0106.8+0103 | WFC3/IR | 1 | 07-Oct-2021 07:00:33.0 | yes |
| 10 | (5) MACSJ0118.1-2658 | ACS/WFC | 1 | 07-Oct-2021 07:00:34.0 | yes |
| 11 | (5) MACSJ0118.1-2658 | WFC3/IR | 1 | 07-Oct-2021 07:00:34.0 | yes |
| 12 | (6) MACSJ0142.0+2130 | ACS/WFC | 1 | 07-Oct-2021 07:00:35.0 | yes |
| 13 | (6) MACSJ0142.0+2130 | ACS/WFC | 1 | 07-Oct-2021 07:00:35.0 | yes |
| 14 | (6) MACSJ0142.0+2130 | WFC3/IR | 1 | 07-Oct-2021 07:00:36.0 | yes |
| 15 | (7) MACSJ0144.7-2213 | ACS/WFC | 1 | 07-Oct-2021 07:00:36.0 | yes |
| 16 | (7) MACSJ0144.7-2213 | ACS/WFC | 1 | 07-Oct-2021 07:00:37.0 | yes |
| 17 | (7) MACSJ0144.7-2213 | WFC3/IR | 1 | 07-Oct-2021 07:00:37.0 | yes |
| 18 | (8) MACSJ0152.7+0100 | ACS/WFC | 1 | 07-Oct-2021 07:00:38.0 | yes |
| 19 | (8) MACSJ0152.7+0100 | ACS/WFC | 1 | 07-Oct-2021 07:00:38.0 | yes |
| 20 | (8) MACSJ0152.7+0100 | WFC3/IR | 1 | 07-Oct-2021 07:00:39.0 | yes |
| 21 | (9) MACSJ0152.9+3732 | ACS/WFC | 1 | 07-Oct-2021 07:00:39.0 | yes |
| 22 | (9) MACSJ0152.9+3732 | ACS/WFC | 1 | 07-Oct-2021 07:00:40.0 | yes |
| 23 | (9) MACSJ0152.9+3732 | WFC3/IR | 1 | 07-Oct-2021 07:00:41.0 | yes |
| 24 | (10) MACSJ0206.4-1453 | ACS/WFC | 1 | 07-Oct-2021 07:00:41.0 | yes |
| 25 | (10) MACSJ0206.4-1453 | ACS/WFC | 1 | 07-Oct-2021 07:00:42.0 | yes |
| 26 | (10) MACSJ0206.4-1453 | WFC3/IR | 1 | 07-Oct-2021 07:00:43.0 | yes |
| 27 | (11) MACSJ0307.0-2840 | ACS/WFC | 1 | 07-Oct-2021 07:00:43.0 | yes |
| 28 | (11) MACSJ0307.0-2840 | WFC3/IR | 1 | 07-Oct-2021 07:00:44.0 | yes |
| 29 | (12) MACSJ0437.1+0043 | ACS/WFC | 1 | 07-Oct-2021 07:00:44.0 | yes |
| 30 | (12) MACSJ0437.1+0043 | ACS/WFC | 1 | 07-Oct-2021 07:00:45.0 | yes |
| 31 | (12) MACSJ0437.1+0043 | WFC3/IR | 1 | 07-Oct-2021 07:00:45.0 | yes |
| 32 | (13) MACSJ0439.0+0716 | ACS/WFC | 1 | 07-Oct-2021 07:00:46.0 | yes |

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|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 33 | (13) MACSJ0439.0+0716 | ACS/WFC | 1 | 07-Oct-2021 07:00:46.0 | yes |
| 34 | (13) MACSJ0439.0+0716 | WFC3/IR | 1 | 07-Oct-2021 07:00:47.0 | yes |
| 35 | (14) MACSJ0439.0+0520 | ACS/WFC | 1 | 07-Oct-2021 07:00:47.0 | yes |
| 36 | (14) MACSJ0439.0+0520 | ACS/WFC | 1 | 07-Oct-2021 07:00:48.0 | yes |
| 37 | (14) MACSJ0439.0+0520 | WFC3/IR | 1 | 07-Oct-2021 07:00:48.0 | yes |
| 38 | (15) MACSJ0454.1-1014 | ACS/WFC | 1 | 07-Oct-2021 07:00:49.0 | yes |
| 39 | (15) MACSJ0454.1-1014 | ACS/WFC | 1 | 07-Oct-2021 07:00:49.0 | yes |
| 40 | (16) MACSJ0510.7-0801 | ACS/WFC | 1 | 07-Oct-2021 07:00:49.0 | yes |
| 41 | (16) MACSJ0510.7-0801 | ACS/WFC | 1 | 07-Oct-2021 07:00:50.0 | yes |
| 42 | (16) MACSJ0510.7-0801 | WFC3/IR | 1 | 07-Oct-2021 07:00:50.0 | yes |
| 43 | (17) MACSJ0528.9-3928 | ACS/WFC | 1 | 07-Oct-2021 07:00:51.0 | yes |
| 44 | (17) MACSJ0528.9-3928 | ACS/WFC | 1 | 07-Oct-2021 07:00:51.0 | yes |
| 45 | (17) MACSJ0528.9-3928 | WFC3/IR | 1 | 07-Oct-2021 07:00:52.0 | yes |
| 46 | (18) MACSJ0532.9-3701 | ACS/WFC | 1 | 07-Oct-2021 07:00:53.0 | yes |
| 47 | (18) MACSJ0532.9-3701 | ACS/WFC | 1 | 07-Oct-2021 07:00:53.0 | yes |
| 48 | (18) MACSJ0532.9-3701 | WFC3/IR | 1 | 07-Oct-2021 07:00:54.0 | yes |
| 49 | (19) MACSJ0741.7+7414 | ACS/WFC | 1 | 07-Oct-2021 07:00:54.0 | yes |
| 50 | (19) MACSJ0741.7+7414 | ACS/WFC | 1 | 07-Oct-2021 07:00:55.0 | yes |
| 51 | (19) MACSJ0741.7+7414 | WFC3/IR | 1 | 07-Oct-2021 07:00:55.0 | yes |
| 52 | (20) MACSJ0900.5+2054 | ACS/WFC | 1 | 07-Oct-2021 07:00:56.0 | yes |
| 53 | (20) MACSJ0900.5+2054 | ACS/WFC | 1 | 07-Oct-2021 07:00:56.0 | yes |
| 54 | (20) MACSJ0900.5+2054 | WFC3/IR | 1 | 07-Oct-2021 07:00:57.0 | yes |
| 55 | (22) MACSJ1023.6+0411 | ACS/WFC | 1 | 07-Oct-2021 07:00:57.0 | yes |
| 56 | (22) MACSJ1023.6+0411 | ACS/WFC | 1 | 07-Oct-2021 07:00:58.0 | yes |
| 57 | (22) MACSJ1023.6+0411 | WFC3/IR | 1 | 07-Oct-2021 07:00:58.0 | yes |

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|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 58 | (23) MACSJ1023.8-2715 | ACS/WFC | 1 | 07-Oct-2021 07:00:59.0 | yes |
| 59 | (23) MACSJ1023.8-2715 | ACS/WFC | 1 | 07-Oct-2021 07:00:59.0 | yes |
| 60 | (23) MACSJ1023.8-2715 | WFC3/IR | 1 | 07-Oct-2021 07:01:00.0 | yes |
| 61 | (24) MACSJ1201.2+2306 | ACS/WFC | 1 | 07-Oct-2021 07:01:00.0 | yes |
| 62 | (24) MACSJ1201.2+2306 | ACS/WFC | 1 | 07-Oct-2021 07:01:01.0 | yes |
| 63 | (24) MACSJ1201.2+2306 | WFC3/IR | 1 | 07-Oct-2021 07:01:01.0 | yes |
| 64 | (26) MACSJ1314.3-2515 | ACS/WFC | 1 | 07-Oct-2021 07:01:02.0 | yes |
| 65 | (26) MACSJ1314.3-2515 | ACS/WFC | 1 | 07-Oct-2021 07:01:02.0 | yes |
| 66 | (26) MACSJ1314.3-2515 | WFC3/IR | 1 | 07-Oct-2021 07:01:03.0 | yes |
| 67 | (27) MACSJ1317.2-3821 | ACS/WFC | 1 | 07-Oct-2021 07:01:03.0 | yes |
| 68 | (27) MACSJ1317.2-3821 | ACS/WFC | 1 | 07-Oct-2021 07:01:04.0 | yes |
| 69 | (27) MACSJ1317.2-3821 | WFC3/IR | 1 | 07-Oct-2021 07:01:04.0 | yes |
| 70 | (28) MACSJ1324.3+0419 | ACS/WFC | 1 | 07-Oct-2021 07:01:05.0 | yes |
| 71 | (28) MACSJ1324.3+0419 | ACS/WFC | 1 | 07-Oct-2021 07:01:05.0 | yes |
| 72 | (28) MACSJ1324.3+0419 | WFC3/IR | 1 | 07-Oct-2021 07:01:06.0 | yes |
| 73 | (29) MACSJ1415.1-3926 | ACS/WFC | 1 | 07-Oct-2021 07:01:06.0 | yes |
| 74 | (29) MACSJ1415.1-3926 | ACS/WFC | 1 | 07-Oct-2021 07:01:07.0 | yes |
| 75 | (29) MACSJ1415.1-3926 | WFC3/IR | 1 | 07-Oct-2021 07:01:08.0 | yes |
| 76 | (31) MACSJ1457.2+2220 | ACS/WFC | 1 | 07-Oct-2021 07:01:08.0 | yes |
| 77 | (31) MACSJ1457.2+2220 | ACS/WFC | 1 | 07-Oct-2021 07:01:08.0 | yes |
| 78 | (31) MACSJ1457.2+2220 | WFC3/IR | 1 | 07-Oct-2021 07:01:09.0 | yes |
| 79 | (32) MACSJ1459.4-1810 | ACS/WFC | 1 | 07-Oct-2021 07:01:10.0 | yes |
| 80 | (32) MACSJ1459.4-1810 | ACS/WFC | 1 | 07-Oct-2021 07:01:10.0 | yes |
| 81 | (32) MACSJ1459.4-1810 | WFC3/IR | 1 | 07-Oct-2021 07:01:11.0 | yes |
| 82 | (33) MACSJ1501.3+4221 | ACS/WFC | 1 | 07-Oct-2021 07:01:11.0 | yes |

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|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 83 | (33) MACSJ1501.3+4221 | ACS/WFC | 1 | 07-Oct-2021 07:01:12.0 | yes |
| 84 | (33) MACSJ1501.3+4221 | WFC3/IR | 1 | 07-Oct-2021 07:01:12.0 | yes |
| 85 | (34) MACSJ1504.1-0248 | ACS/WFC | 1 | 07-Oct-2021 07:01:13.0 | yes |
| 86 | (34) MACSJ1504.1-0248 | ACS/WFC | 1 | 07-Oct-2021 07:01:13.0 | yes |
| 87 | (34) MACSJ1504.1-0248 | WFC3/IR | 1 | 07-Oct-2021 07:01:14.0 | yes |
| 88 | (37) MACSJ1717.1+2931 | ACS/WFC | 1 | 07-Oct-2021 07:01:14.0 | yes |
| 89 | (38) MACSJ2020.3-2225 | ACS/WFC | 1 | 07-Oct-2021 07:01:15.0 | yes |
| 90 | (38) MACSJ2020.3-2225 | ACS/WFC | 1 | 07-Oct-2021 07:01:15.0 | yes |
| 91 | (38) MACSJ2020.3-2225 | WFC3/IR | 1 | 07-Oct-2021 07:01:16.0 | yes |
| 92 | (39) MACSJ2119.4+1521 | ACS/WFC | 1 | 07-Oct-2021 07:01:16.0 | yes |
| 93 | (39) MACSJ2119.4+1521 | ACS/WFC | 1 | 07-Oct-2021 07:01:17.0 | yes |
| 94 | (39) MACSJ2119.4+1521 | WFC3/IR | 1 | 07-Oct-2021 07:01:18.0 | yes |
| 95 | (41) MACSJ2337.6+0016 | ACS/WFC | 1 | 07-Oct-2021 07:01:18.0 | yes |
| 96 | (41) MACSJ2337.6+0016 | ACS/WFC | 1 | 07-Oct-2021 07:01:19.0 | yes |
| 97 | (41) MACSJ2337.6+0016 | WFC3/IR | 1 | 07-Oct-2021 07:01:19.0 | yes |
| 98 | (42) MACSJ2341.1+0018 | ACS/WFC | 1 | 07-Oct-2021 07:01:20.0 | yes |
| 99 | (42) MACSJ2341.1+0018 | ACS/WFC | 1 | 07-Oct-2021 07:01:20.0 | yes |
| 0A | (42) MACSJ2341.1+0018 | WFC3/IR | 1 | 07-Oct-2021 07:01:21.0 | yes |
| 0B | (43) A2667 | ACS/WFC | 1 | 07-Oct-2021 07:01:21.0 | yes |
| 0C | (43) A2667 | ACS/WFC | 1 | 07-Oct-2021 07:01:22.0 | yes |
| 0D | (43) A2667 | WFC3/IR | 1 | 07-Oct-2021 07:01:22.0 | yes |
| 0E | (44) SMACSJ0303.7-7752 | ACS/WFC | 1 | 07-Oct-2021 07:01:23.0 | yes |
| 0F | (44) SMACSJ0303.7-7752 | ACS/WFC | 1 | 07-Oct-2021 07:01:23.0 | yes |
| 0G | (44) SMACSJ0303.7-7752 | WFC3/IR | 1 | 07-Oct-2021 07:01:24.0 | yes |
| 0H | (45) SMACSJ0510.2-4519 | ACS/WFC | 1 | 07-Oct-2021 07:01:24.0 | yes |

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|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 0I | (45) SMACSJ0510.2-4519 | ACS/WFC | 1 | 07-Oct-2021 07:01:25.0 | yes |
| 0J | (45) SMACSJ0510.2-4519 | WFC3/IR | 1 | 07-Oct-2021 07:01:26.0 | yes |
| 0K | (46) SMACSJ0516.5-5431 | ACS/WFC | 1 | 07-Oct-2021 07:01:26.0 | yes |
| 0L | (46) SMACSJ0516.5-5431 | ACS/WFC | 1 | 07-Oct-2021 07:01:27.0 | yes |
| 0M | (46) SMACSJ0516.5-5431 | WFC3/IR | 1 | 07-Oct-2021 07:01:27.0 | yes |
| 0N | (47) SMACSJ0638.7-5358 | ACS/WFC | 1 | 07-Oct-2021 07:01:28.0 | yes |
| 0O | (47) SMACSJ0638.7-5358 | WFC3/IR | 1 | 07-Oct-2021 07:01:28.0 | yes |
| 0P | (48) SMACSJ1914.6-5928 | ACS/WFC | 1 | 07-Oct-2021 07:01:29.0 | yes |
| 0Q | (48) SMACSJ1914.6-5928 | ACS/WFC | 1 | 07-Oct-2021 07:01:29.0 | yes |
| 0R | (48) SMACSJ1914.6-5928 | WFC3/IR | 1 | 07-Oct-2021 07:01:30.0 | yes |
| 0S | (49) SMACSJ1938.1-4747 | ACS/WFC | 1 | 07-Oct-2021 07:01:30.0 | yes |
| 0T | (49) SMACSJ1938.1-4747 | ACS/WFC | 1 | 07-Oct-2021 07:01:31.0 | yes |
| 0U | (49) SMACSJ1938.1-4747 | WFC3/IR | 1 | 07-Oct-2021 07:01:31.0 | yes |
| 0V | (50) SMACSJ1947.1-7623 | ACS/WFC | 1 | 07-Oct-2021 07:01:32.0 | yes |
| 0W | (50) SMACSJ1947.1-7623 | ACS/WFC | 1 | 07-Oct-2021 07:01:33.0 | yes |
| 0X | (50) SMACSJ1947.1-7623 | WFC3/IR | 1 | 07-Oct-2021 07:01:33.0 | yes |
| 0Y | (51) SMACSJ2011.4-5725 | ACS/WFC | 1 | 07-Oct-2021 07:01:34.0 | yes |
| 0Z | (51) SMACSJ2011.4-5725 | ACS/WFC | 1 | 07-Oct-2021 07:01:34.0 | yes |
| 1A | (51) SMACSJ2011.4-5725 | WFC3/IR | 1 | 07-Oct-2021 07:01:35.0 | yes |
| 1B | (52) EMACSJ0008.8+3212 | ACS/WFC | 1 | 07-Oct-2021 07:01:35.0 | yes |
| 1C | (52) EMACSJ0008.8+3212 | ACS/WFC | 1 | 07-Oct-2021 07:01:36.0 | yes |
| 1D | (52) EMACSJ0008.8+3212 | WFC3/IR | 1 | 07-Oct-2021 07:01:36.0 | yes |
| 1E | (53) EMACSJ0052.6+0140 | ACS/WFC | 1 | 07-Oct-2021 07:01:37.0 | yes |
| 1F | (53) EMACSJ0052.6+0140 | ACS/WFC | 1 | 07-Oct-2021 07:01:37.0 | yes |
| 1G | (53) EMACSJ0052.6+0140 | WFC3/IR | 1 | 07-Oct-2021 07:01:38.0 | yes |

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|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 1H | (54) MACSJ0326.8-0043 | ACS/WFC | 1 | 07-Oct-2021 07:01:38.0 | yes |
| 1I | (55) EMACSJ0337.8+0748 | ACS/WFC | 1 | 07-Oct-2021 07:01:39.0 | yes |
| 1J | (55) EMACSJ0337.8+0748 | ACS/WFC | 1 | 07-Oct-2021 07:01:39.0 | yes |
| 1K | (55) EMACSJ0337.8+0748 | WFC3/IR | 1 | 07-Oct-2021 07:01:40.0 | yes |
| 1L | (56) EMACSJ0411.7-0010 | ACS/WFC | 1 | 07-Oct-2021 07:01:40.0 | yes |
| 1M | (56) EMACSJ0411.7-0010 | ACS/WFC | 1 | 07-Oct-2021 07:01:41.0 | yes |
| 1N | (56) EMACSJ0411.7-0010 | WFC3/IR | 1 | 07-Oct-2021 07:01:41.0 | yes |
| 1O | (57) MACSJ0455.2+0657 | ACS/WFC | 1 | 07-Oct-2021 07:01:42.0 | yes |
| 1P | (57) MACSJ0455.2+0657 | ACS/WFC | 1 | 07-Oct-2021 07:01:42.0 | yes |
| 1Q | (57) MACSJ0455.2+0657 | WFC3/IR | 1 | 07-Oct-2021 07:01:43.0 | yes |
| 1R | (58) EMACSJ0813.6+2202 | ACS/WFC | 1 | 07-Oct-2021 07:01:43.0 | yes |
| 1S | (58) EMACSJ0813.6+2202 | ACS/WFC | 1 | 07-Oct-2021 07:01:44.0 | yes |
| 1T | (58) EMACSJ0813.6+2202 | WFC3/IR | 1 | 07-Oct-2021 07:01:44.0 | yes |
| 1U | (59) EMACSJ0856.1+3755 | ACS/WFC | 1 | 07-Oct-2021 07:01:45.0 | yes |
| 1V | (59) EMACSJ0856.1+3755 | ACS/WFC | 1 | 07-Oct-2021 07:01:46.0 | yes |
| 1W | (59) EMACSJ0856.1+3755 | WFC3/IR | 1 | 07-Oct-2021 07:01:46.0 | yes |
| 1X | (60) EMACSJ0903.0+2739 | ACS/WFC | 1 | 07-Oct-2021 07:01:47.0 | yes |
| 1Y | (60) EMACSJ0903.0+2739 | ACS/WFC | 1 | 07-Oct-2021 07:01:47.0 | yes |
| 1Z | (60) EMACSJ0903.0+2739 | WFC3/IR | 1 | 07-Oct-2021 07:01:48.0 | yes |
| 2A | (61) EMACSJ0909.0+3633 | ACS/WFC | 1 | 07-Oct-2021 07:01:48.0 | yes |
| 2B | (61) EMACSJ0909.0+3633 | ACS/WFC | 1 | 07-Oct-2021 07:01:49.0 | yes |
| 2C | (61) EMACSJ0909.0+3633 | WFC3/IR | 1 | 07-Oct-2021 07:01:49.0 | yes |
| 2D | (62) EMACSJ1042.5+1735 | ACS/WFC | 1 | 07-Oct-2021 07:01:50.0 | yes |
| 2E | (62) EMACSJ1042.5+1735 | ACS/WFC | 1 | 07-Oct-2021 07:01:50.0 | yes |
| 2F | (62) EMACSJ1042.5+1735 | WFC3/IR | 1 | 07-Oct-2021 07:01:51.0 | yes |

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|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 2G | (63) MACSJ1105.7-1014 | ACS/WFC | 1 | 07-Oct-2021 07:01:51.0 | yes |
| 2H | (63) MACSJ1105.7-1014 | WFC3/IR | 1 | 07-Oct-2021 07:01:52.0 | yes |
| 2I | (65) EMACSJ1401.3+2501 | ACS/WFC | 1 | 07-Oct-2021 07:01:53.0 | yes |
| 2J | (65) EMACSJ1401.3+2501 | ACS/WFC | 1 | 07-Oct-2021 07:01:53.0 | yes |
| 2K | (65) EMACSJ1401.3+2501 | WFC3/IR | 1 | 07-Oct-2021 07:01:54.0 | yes |
| 2L | (66) EMACSJ1414.6+2702 | ACS/WFC | 1 | 07-Oct-2021 07:01:54.0 | yes |
| 2M | (66) EMACSJ1414.6+2702 | ACS/WFC | 1 | 07-Oct-2021 07:01:55.0 | yes |
| 2N | (66) EMACSJ1414.6+2702 | WFC3/IR | 1 | 07-Oct-2021 07:01:55.0 | yes |
| 2O | (67) EMACSJ1426.4-0126 | ACS/WFC | 1 | 07-Oct-2021 07:01:56.0 | yes |
| 2P | (67) EMACSJ1426.4-0126 | ACS/WFC | 1 | 07-Oct-2021 07:01:56.0 | yes |
| 2Q | (67) EMACSJ1426.4-0126 | WFC3/IR | 1 | 07-Oct-2021 07:01:57.0 | yes |
| 2R | (81) EMACSJ1450.6+0055 | WFC3/IR | 1 | 07-Oct-2021 07:01:57.0 | yes |
| 2S | (81) EMACSJ1450.6+0055 | ACS/WFC | 1 | 07-Oct-2021 07:01:58.0 | yes |
| 2T | (81) EMACSJ1450.6+0055 | ACS/WFC | 1 | 07-Oct-2021 07:01:58.0 | yes |
| 2U | (68) EMACSJ1456.1+3021 | ACS/WFC | 1 | 07-Oct-2021 07:01:59.0 | yes |
| 2V | (68) EMACSJ1456.1+3021 | ACS/WFC | 1 | 07-Oct-2021 07:02:00.0 | yes |
| 2W | (68) EMACSJ1456.1+3021 | WFC3/IR | 1 | 07-Oct-2021 07:02:00.0 | yes |
| 2X | (69) EMACSJ1658.6+1519 | ACS/WFC | 1 | 07-Oct-2021 07:02:01.0 | yes |
| 2Y | (69) EMACSJ1658.6+1519 | ACS/WFC | 1 | 07-Oct-2021 07:02:01.0 | yes |
| 2Z | (69) EMACSJ1658.6+1519 | WFC3/IR | 1 | 07-Oct-2021 07:02:02.0 | yes |
| 3A | (70) EMACSJ1746.4+4725 | ACS/WFC | 1 | 07-Oct-2021 07:02:02.0 | yes |
| 3B | (70) EMACSJ1746.4+4725 | ACS/WFC | 1 | 07-Oct-2021 07:02:03.0 | yes |
| 3C | (70) EMACSJ1746.4+4725 | WFC3/IR | 1 | 07-Oct-2021 07:02:03.0 | yes |
| 3D | (71) EMACSJ1747.1+1710 | ACS/WFC | 1 | 07-Oct-2021 07:02:04.0 | yes |
| 3E | (71) EMACSJ1747.1+1710 | ACS/WFC | 1 | 07-Oct-2021 07:02:04.0 | yes |

Proposal 16670 (STScI Edit Number: 0, Created: Thursday, October 7, 2021 at 6:02:18 AM Eastern Standard Time) - Overview

| <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> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 3F | (71) EMACSJ1747.1+1710 | WFC3/IR | 1 | 07-Oct-2021 07:02:05.0 | yes |
| 3G | (72) EMACSJ1845.2+6417 | ACS/WFC | 1 | 07-Oct-2021 07:02:05.0 | yes |
| 3H | (72) EMACSJ1845.2+6417 | ACS/WFC | 1 | 07-Oct-2021 07:02:06.0 | yes |
| 3I | (72) EMACSJ1845.2+6417 | WFC3/IR | 1 | 07-Oct-2021 07:02:07.0 | yes |
| 3J | (73) EMACSJ1850.9+6848 | ACS/WFC | 1 | 07-Oct-2021 07:02:07.0 | yes |
| 3K | (73) EMACSJ1850.9+6848 | ACS/WFC | 1 | 07-Oct-2021 07:02:08.0 | yes |
| 3L | (73) EMACSJ1850.9+6848 | WFC3/IR | 1 | 07-Oct-2021 07:02:08.0 | yes |
| 3M | (75) EMACSJ2055.3+0106 | ACS/WFC | 1 | 07-Oct-2021 07:02:09.0 | yes |
| 3N | (75) EMACSJ2055.3+0106 | ACS/WFC | 1 | 07-Oct-2021 07:02:09.0 | yes |
| 3O | (75) EMACSJ2055.3+0106 | WFC3/IR | 1 | 07-Oct-2021 07:02:10.0 | yes |
| 3P | (76) EMACSJ2106.8-0510 | ACS/WFC | 1 | 07-Oct-2021 07:02:10.0 | yes |
| 3Q | (76) EMACSJ2106.8-0510 | ACS/WFC | 1 | 07-Oct-2021 07:02:11.0 | yes |
| 3R | (76) EMACSJ2106.8-0510 | WFC3/IR | 1 | 07-Oct-2021 07:02:11.0 | yes |
| 3S | (77) EMACSJ2116.0-0225 | ACS/WFC | 1 | 07-Oct-2021 07:02:12.0 | yes |
| 3T | (77) EMACSJ2116.0-0225 | ACS/WFC | 1 | 07-Oct-2021 07:02:13.0 | yes |
| 3U | (77) EMACSJ2116.0-0225 | WFC3/IR | 1 | 07-Oct-2021 07:02:13.0 | yes |
| 3V | (78) EMACSJ2124.6-0133 | ACS/WFC | 1 | 07-Oct-2021 07:02:14.0 | yes |
| 3W | (78) EMACSJ2124.6-0133 | ACS/WFC | 1 | 07-Oct-2021 07:02:14.0 | yes |
| 3X | (78) EMACSJ2124.6-0133 | WFC3/IR | 1 | 07-Oct-2021 07:02:15.0 | yes |
| 3Y | (79) EMACSJ2311.2-0946 | ACS/WFC | 1 | 07-Oct-2021 07:02:16.0 | yes |
| 3Z | (79) EMACSJ2311.2-0946 | ACS/WFC | 1 | 07-Oct-2021 07:02:16.0 | yes |
| 4A | (79) EMACSJ2311.2-0946 | WFC3/IR | 1 | 07-Oct-2021 07:02:17.0 | yes |
| 4B | (80) EMACSJ2320.9+2912 | ACS/WFC | 1 | 07-Oct-2021 07:02:17.0 | yes |
| 4C | (80) EMACSJ2320.9+2912 | ACS/WFC | 1 | 07-Oct-2021 07:02:18.0 | yes |

206 Total Orbits Used

ABSTRACT

Truly massive galaxy clusters play a pivotal role for a wealth of extragalactic and cosmological research topics, and SNAPshot observations are ideally suited to identify the most promising targets for further, in-depth cluster studies. The power of this approach was demonstrated by ACS/WFC3 SNAPshots of X-ray selected MACS and eMACS clusters (at $z > 0.3$ and $z > 0.5$, respectively) obtained in previous Cycles. Based on these data, the CLASH MCT, Hubble Frontier Fields, and RELICS legacy programs selected 60% of their targets from these surveys.

We propose to build upon the (e)MACS legacy SNAPshot programs by extending the surveyed redshift range to $z = 0.2$ to create a volume-complete sample of highly X-ray luminous clusters at $z = 0.2 - 0.5$. Our project will, for the first time, systematically explore the most massive clusters in the hugely promising $z = 0.2 - 0.3$ range, which already gave us some of the most extreme clusters and cluster lenses known, e.g., the Bullet Cluster, A1703, RXJ1347-11, and PLCK G171.9-40.7. By exploiting this barely tapped, rich resource, the proposed program will (a) identify yet more powerful gravitational telescopes for the next generation of in-depth studies of the distant Universe with HST and JWST, (b) provide tight constraints on the mass distribution within these extreme systems, (c) advance our understanding of the evolution and interactions of dark and luminous matter in cluster cores, and (d) unveil Balmer Break Galaxies at $z \sim 2$ and Lyman-break galaxies at $z > 6$ as F814W dropouts.

Acknowledging broad community interest we waive our data rights for these observations.

OBSERVING DESCRIPTION

We propose ACS and WFC3 SNAPshot observations of X-ray luminous clusters from the MACS and eMACS master catalogs clusters at $z > 0.2$ that were not selected for our previous SNAP programs. Our targets are uniformly distributed over the high-Galactic latitude sky ($|b| > 20$ deg), $\text{dec} > -30$ deg, making ours an ideal SNAPshot sample. Since all of our science goals require or greatly benefit from color information, we aim for three independent visits per cluster target (one each for ACS/F606W and F814W imaging, and a third one for SNAPshots with WFC3/F110W/F140W). Counting each visit as a separate target (as indicated in Section 3.3.3 of the CfP) but discounting visits already performed for some of our targets in previous HST programs, we are left with 206 distinct "targets".

Proposal 16670 - Visit 01 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

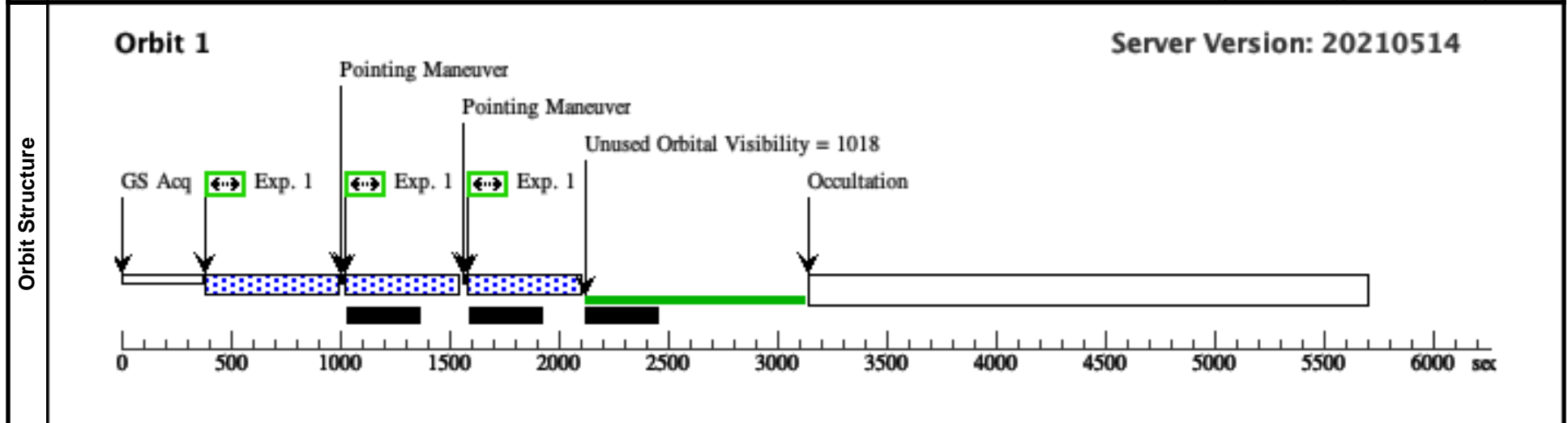
Thu Oct 07 11:02:18 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 01, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | (1) |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|--|------------------|--|--------------------------|--------|-----------------------|
| | (1) | MACSJ0003.1-0605 | RA: 00 03 12.2337 (.8009738d) Dec: -06 05 51.87 (-6.09774d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |
| | <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|----------------------|----------------------|---------------|--------------|---------------|-------------------------------------|---|-------|
| | 1 | 0003-06_60 | (1) MACSJ0003.1-0605 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | Pattern 1, Exps 1-1 in Visit 01 (1) | 400 Secs (1200 Secs) | |
| | | 6 | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 02 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

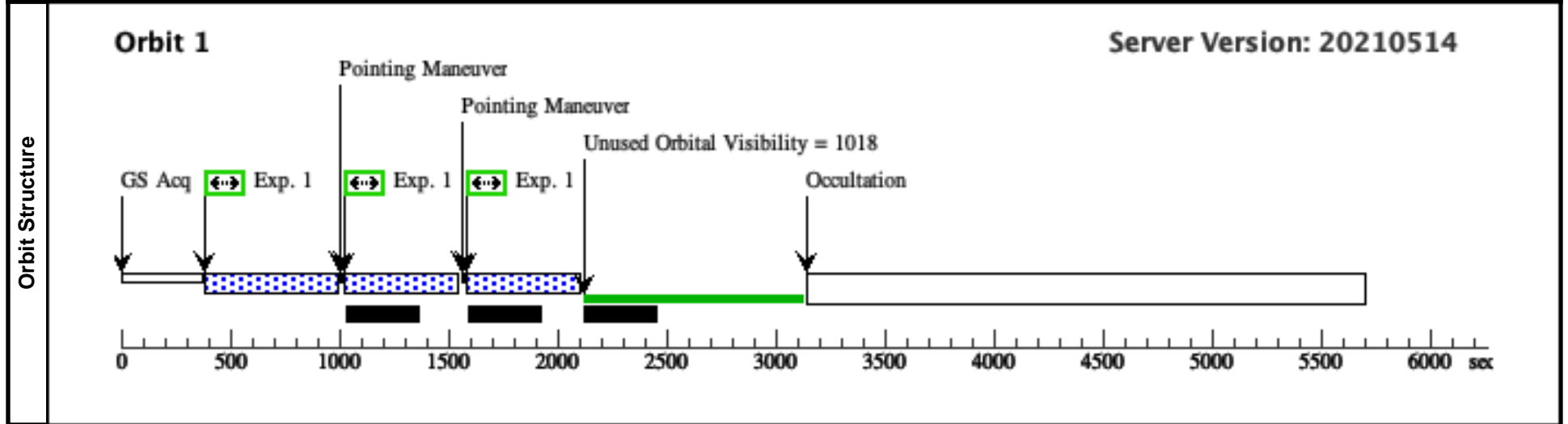
Thu Oct 07 11:02:18 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 02, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | (1) |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|--|------------------|--|--------------------------|--------|-----------------------|
| | (1) | MACSJ0003.1-0605 | RA: 00 03 12.2337 (.8009738d) Dec: -06 05 51.87 (-6.09774d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |
| | <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|----------------------|----------------------|---------------|--------------|---------------|-------------------------------------|---|-------|
| | 1 | 0003-06_81 | (1) MACSJ0003.1-0605 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | Pattern 1, Exps 1-1 in Visit 02 (1) | 400 Secs (1200 Secs) | |
| | 4 | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 03 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:18 GMT 2021

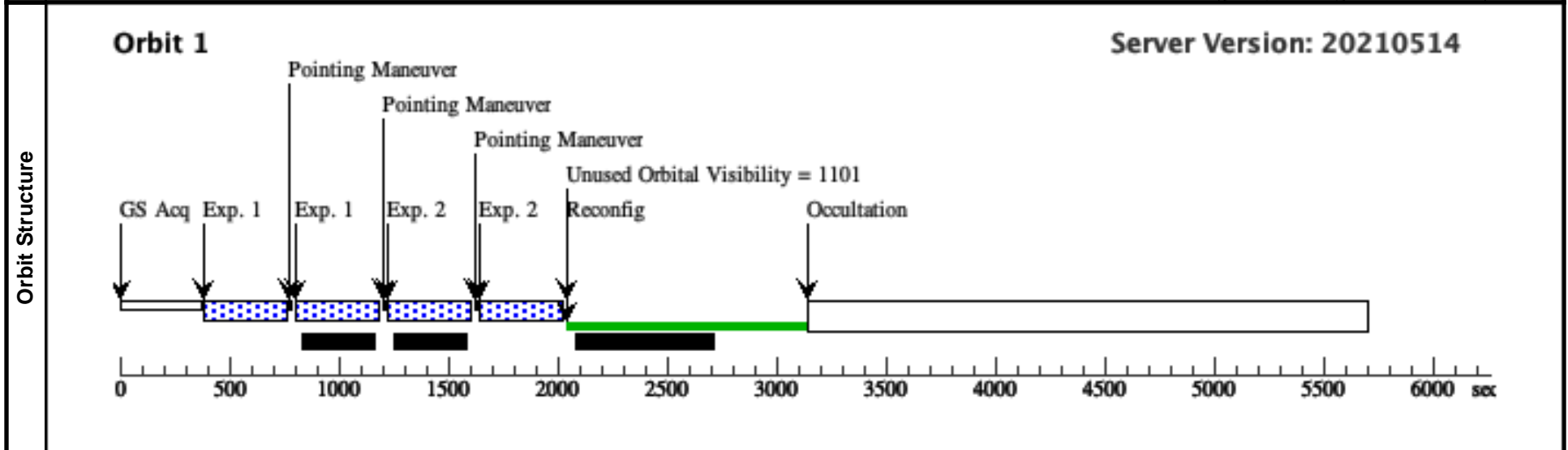
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 03, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|-----|------------------|--|--------------------------|--------|-----------------------|
| | (1) | MACSJ0003.1-0605 | RA: 00 03 12.2337 (.8009738d) Dec: -06 05 51.87 (-6.09774d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-------------|----------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|-------------------------------------|-------------------------------------|---------------------------------|-------|
| | 1 | 0003-06_110 | (1) MACSJ0003.1-0605 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 03 (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | 0003-06_140 | (1) MACSJ0003.1-0605 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 03 (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 04 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:18 GMT 2021

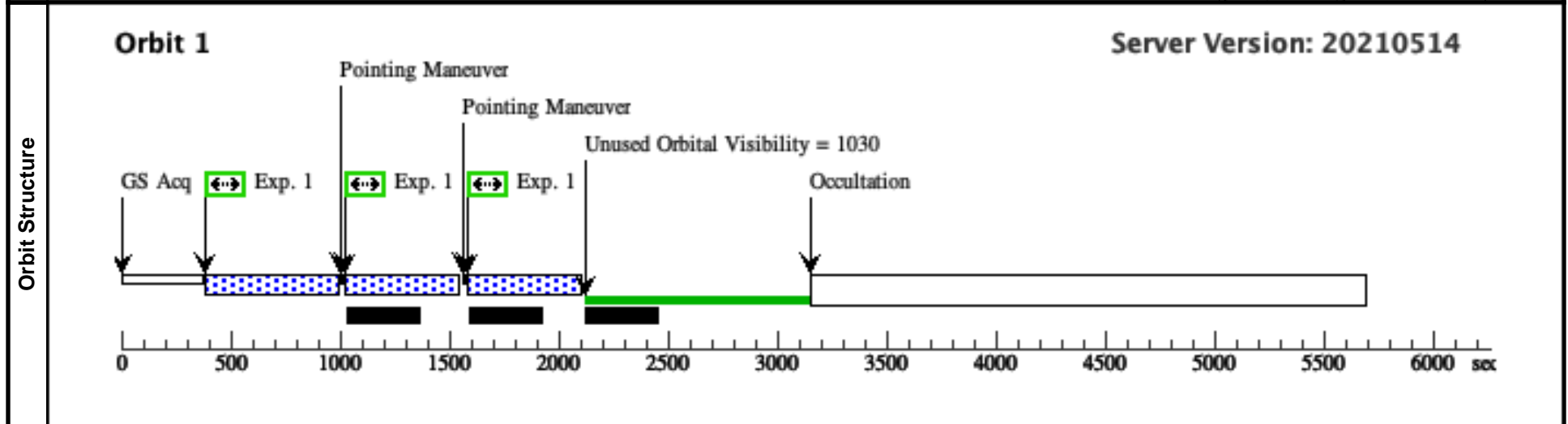
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 04, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|-----|------------------|---|--------------------------|--------|-----------------------|
| | (2) | MACSJ0019.0-2026 | RA: 00 19 7.9400 (4.7830833d) Dec: -20 26 28.80 (-20.44133d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0019-20_60 | (2) MACSJ0019.0-2026 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 04 (1) | 400 Secs (1200 Secs) |
| 6 | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 05 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

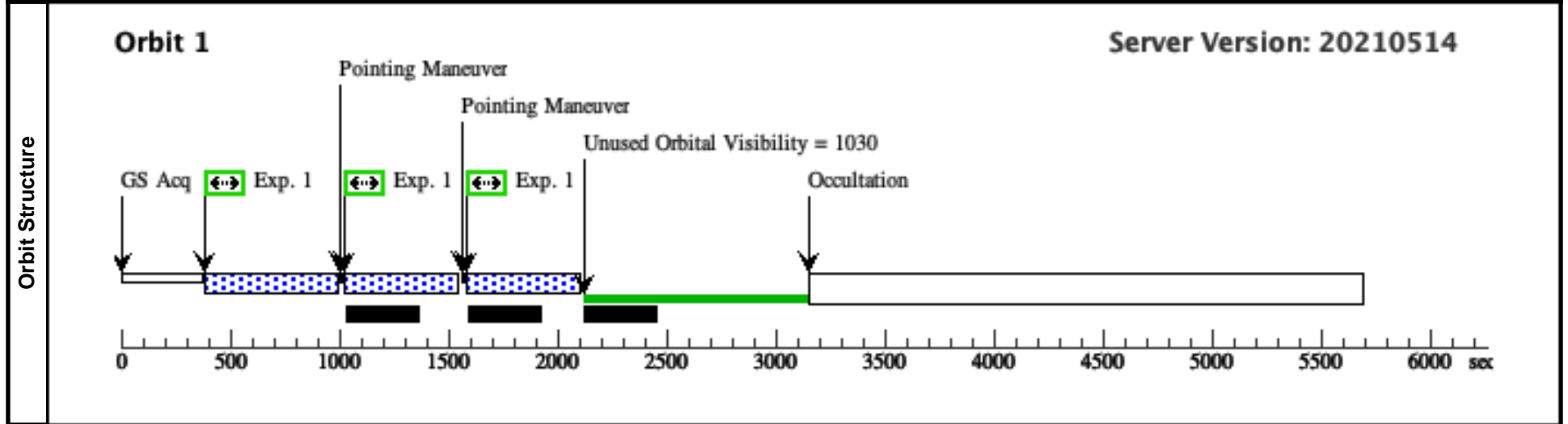
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 05, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|-----|------------------|---|--------------------------|--------|-----------------------|
| | (2) | MACSJ0019.0-2026 | RA: 00 19 7.9400 (4.7830833d) Dec: -20 26 28.80 (-20.44133d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-------------|----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0019-20_814 | (2) MACSJ0019.0-2026 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 05 (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 06 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

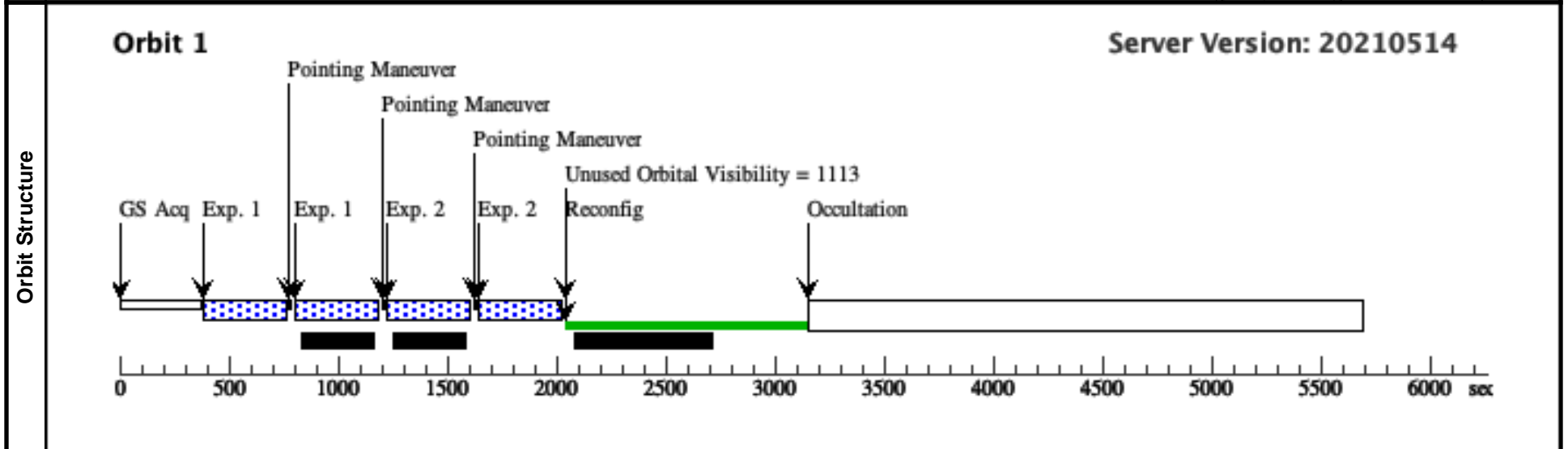
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 06, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|-----|------------------|---|--------------------------|--------|-----------------------|
| | (2) | MACSJ0019.0-2026 | RA: 00 19 7.9400 (4.7830833d) Dec: -20 26 28.80 (-20.44133d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-------------|----------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|---------------|-------------------------------------|--|--|
| | 1 | 0019-20_110 | (2) MACSJ0019.0-2026 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 1-1 in Visit 06 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] |
| 2 | 0019-20_140 | (2) MACSJ0019.0-2026 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 2-2 in Visit 06 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 07 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

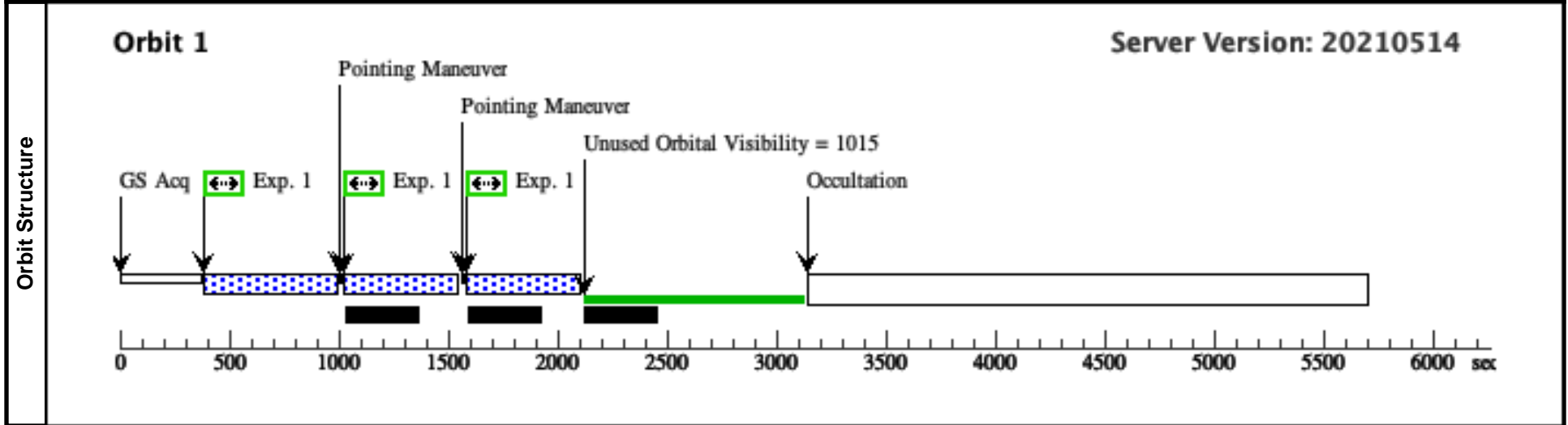
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 07, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|-----|------------------|---|--------------------------|--------|-----------------------|
| | (4) | MACSJ0106.8+0103 | RA: 01 06 49.9700 (16.7082083d) Dec: +01 03 47.00 (1.06306d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
Category=CLUSTER OF GALAXIES
Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|----------|----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | Z348_606 | (4) MACSJ0106.8+0103 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 07 (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 08 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

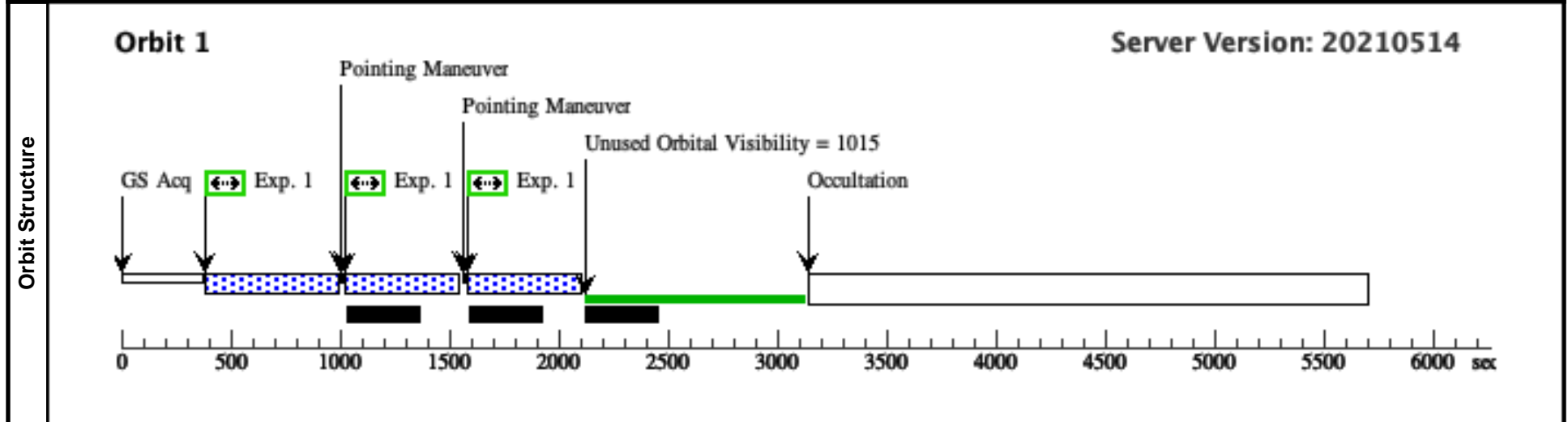
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 08, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|-----|------------------|---|--------------------------|--------|-----------------------|
| | (4) | MACSJ0106.8+0103 | RA: 01 06 49.9700 (16.7082083d) Dec: +01 03 47.00 (1.06306d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|----------|----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | Z348_814 | (4) MACSJ0106.8+0103 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 08 (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 09 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

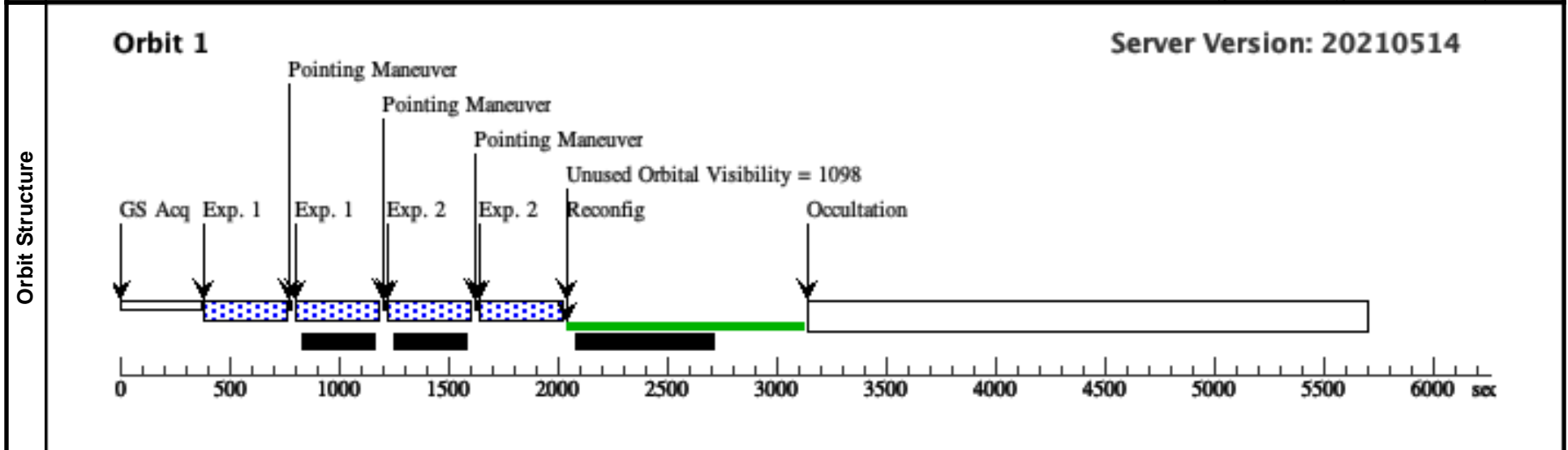
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 09, implementation | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: WFC3/IR | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|-----|------------------|---|--------------------------|--------|-----------------------|
| | (4) | MACSJ0106.8+0103 | RA: 01 06 49.9700 (16.7082083d) Dec: +01 03 47.00 (1.06306d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|----------|----------------------|-------------------------|-------------------------|-----------------------------------|-----------------------------------|-------------------------------------|-------------------------------------|---------------------------------|-------|
| | 1 | Z348_110 | (4) MACSJ0106.8+0103 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 09 (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | Z348_140 | (4) MACSJ0106.8+0103 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 09 (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 10 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 10, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

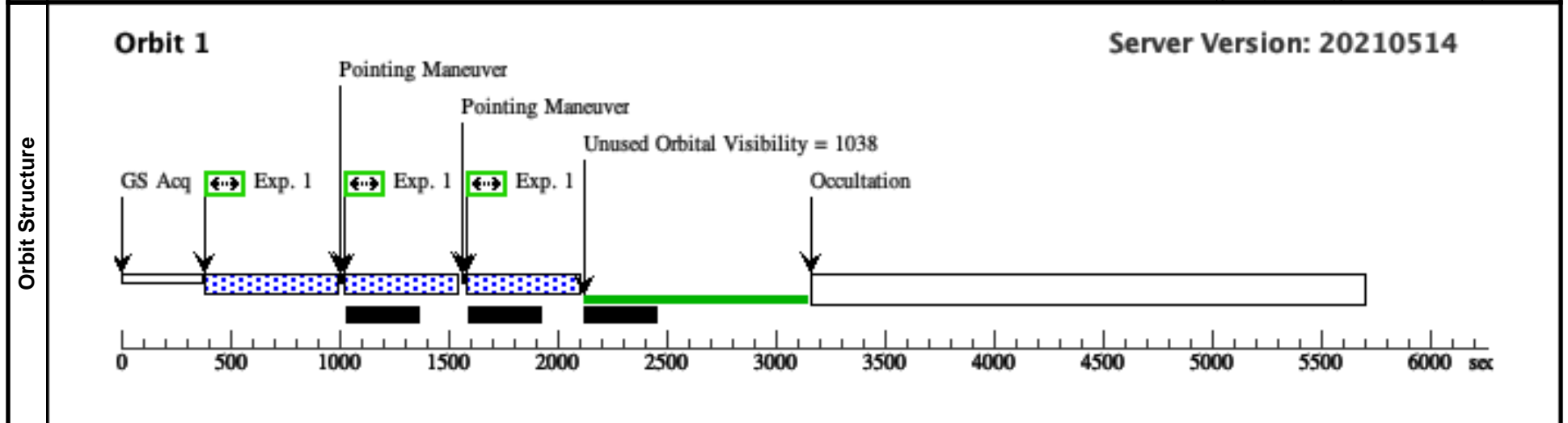
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|-----|------------------|---|--------------------------|--------|-----------------------|
| | (5) | MACSJ0118.1-2658 | RA: 01 18 11.1500 (19.5464583d) Dec: -26 58 11.70 (-26.96992d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|--------------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | 0118-26_81 4 | (5) MACSJ0118.1-2 658 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 10 (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]

[1]



Proposal 16670 - Visit 11 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

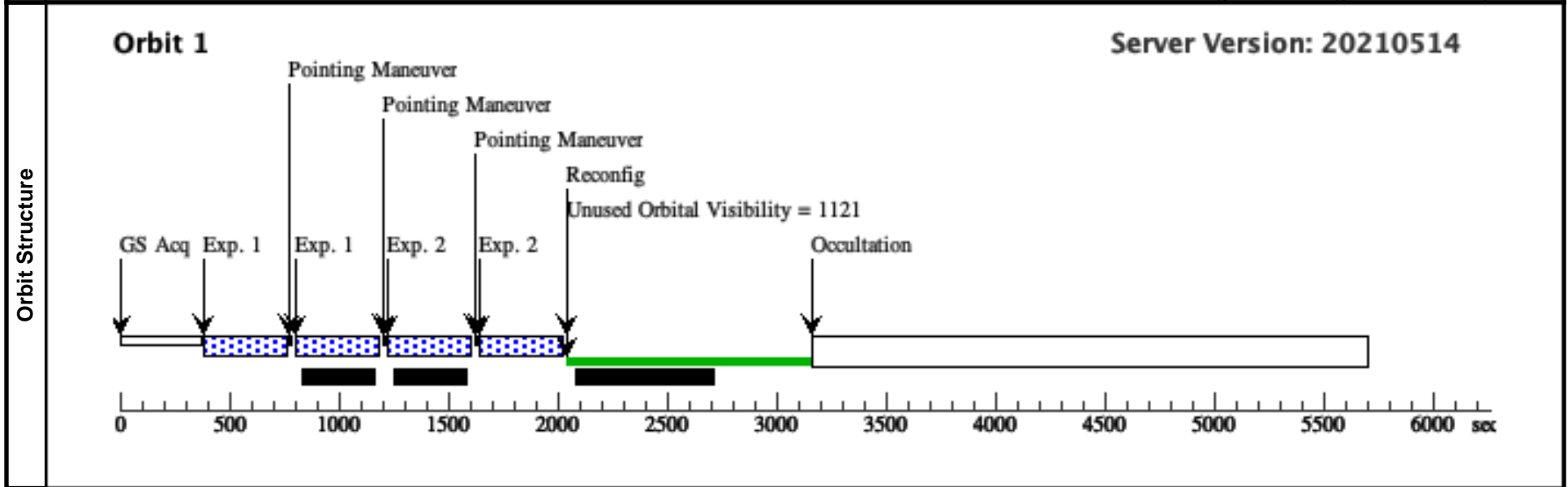
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 11, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|-----|------------------|---|--------------------------|--------|-----------------------|
| | (5) | MACSJ0118.1-2658 | RA: 01 18 11.1500 (19.5464583d) Dec: -26 58 11.70 (-26.96992d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-------------|----------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|-------------------------------------|-------------------------------------|---------------------------------|-------|
| | 1 | 0118-26_110 | (5) MACSJ0118.1-2658 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 11 (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | 0118-26_140 | (5) MACSJ0118.1-2658 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 11 (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 12 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

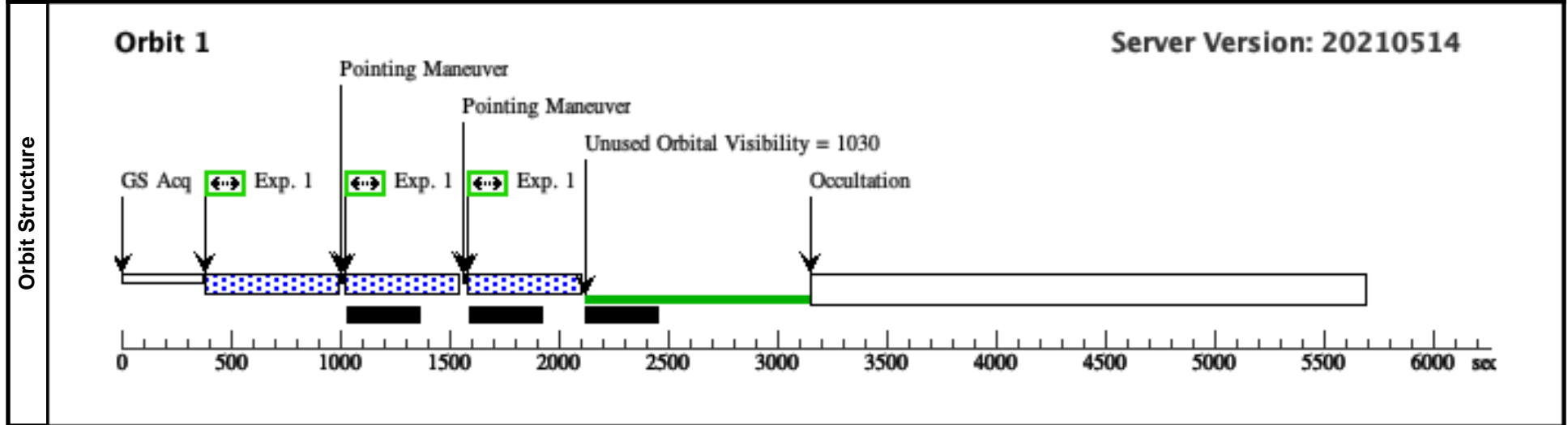
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 12, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|-----|------------------|---|--------------------------|--------|-----------------------|
| | (6) | MACSJ0142.0+2130 | RA: 01 42 3.4300 (25.5142917d) Dec: +21 31 17.40 (21.52150d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0142+21_60 | (6) MACSJ0142.0+2130 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 12 (1) | 400 Secs (1200 Secs) |
| 6 | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 13 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

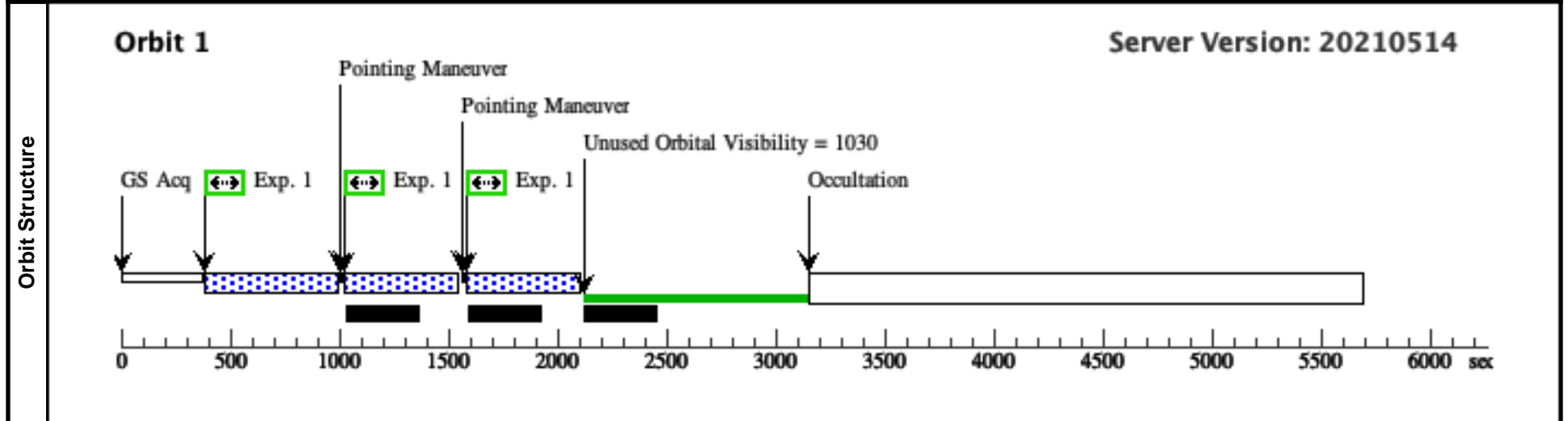
Thu Oct 07 11:02:19 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 13, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|--|-----|------------------|---|--------------------------|--------|-----------------------|
| | (6) | MACSJ0142.0+2130 | RA: 01 42 3.4300 (25.5142917d) Dec: +21 31 17.40 (21.52150d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |
| <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0142+21_81 | (6) MACSJ0142.0+2130 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 13 (1) | 400 Secs (1200 Secs) |
| 4 | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 14 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

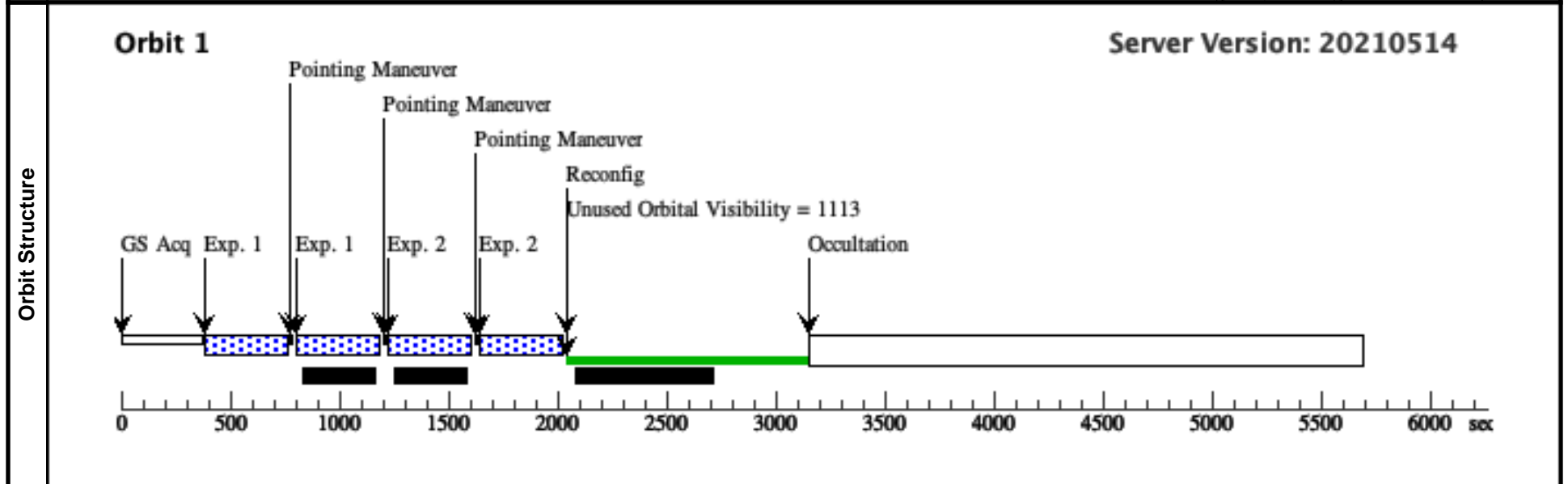
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 14, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|-----|------------------|---|--------------------------|--------|-----------------------|
| | (6) | MACSJ0142.0+2130 | RA: 01 42 3.4300 (25.5142917d) Dec: +21 31 17.40 (21.52150d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-------------|----------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|---------------|-------------------------------------|--|--|
| | 1 | 0142+21_110 | (6) MACSJ0142.0+2130 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 1-1 in Visit 14 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] |
| 2 | 0142+21_140 | (6) MACSJ0142.0+2130 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 2-2 in Visit 14 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 15 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 15, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

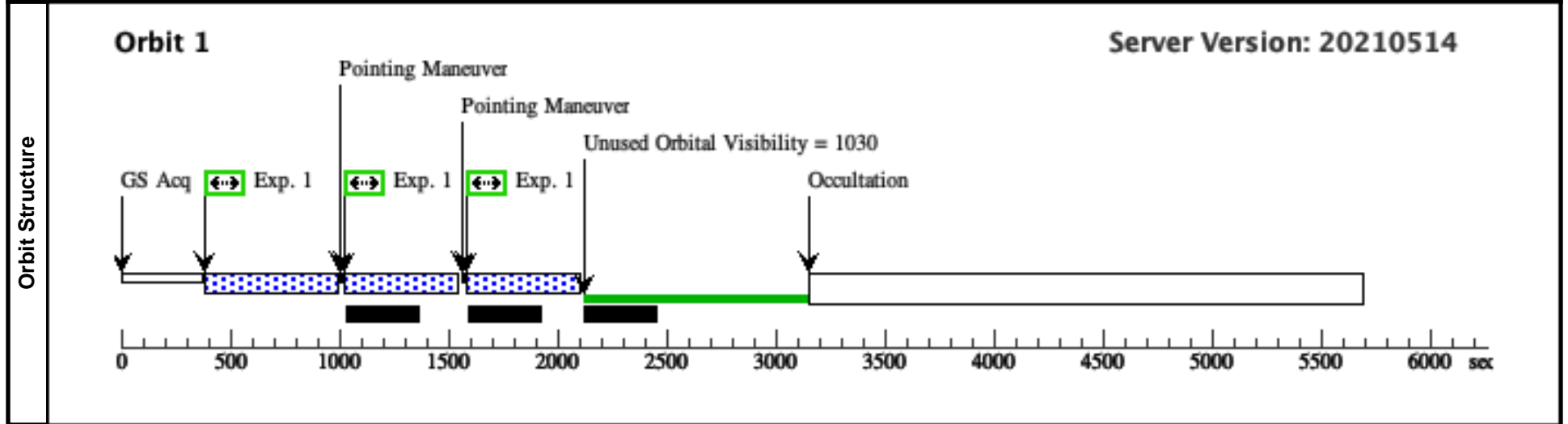
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|-----|------------------|---|--------------------------|--------|-----------------------|
| | (7) | MACSJ0144.7-2213 | RA: 01 44 40.4100 (26.1683750d) Dec: -22 13 45.50 (-22.22931d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|--------------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | 0144-22_60 6 | (7) MACSJ0144.7-2 213 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 15 (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]



Proposal 16670 - Visit 16 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

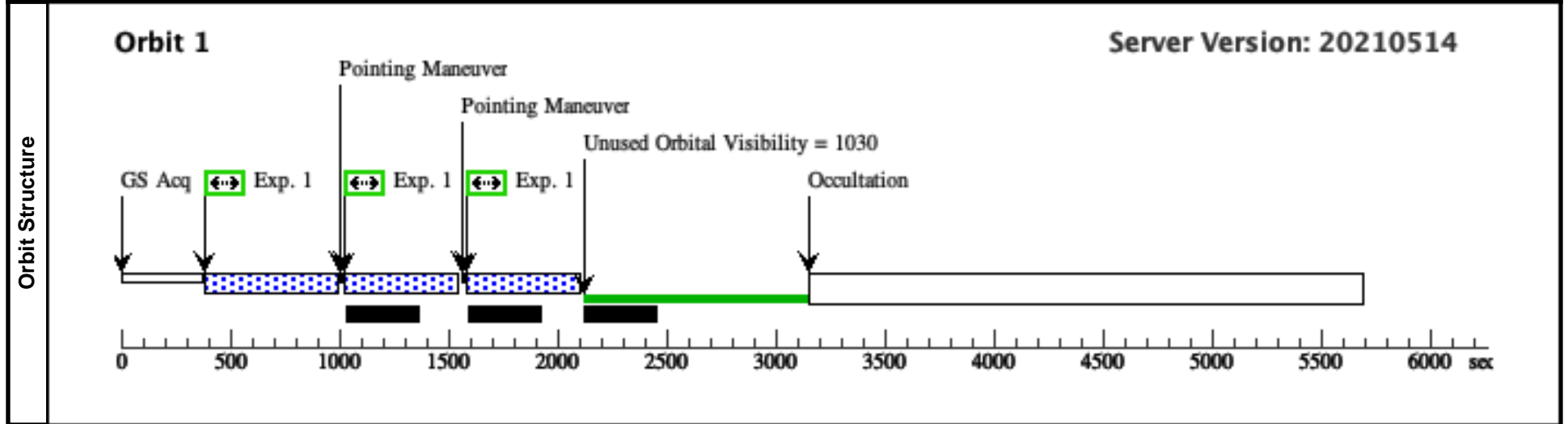
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 16, scheduled | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|-----|------------------|---|--------------------------|--------|-----------------------|
| | (7) | MACSJ0144.7-2213 | RA: 01 44 40.4100 (26.1683750d) Dec: -22 13 45.50 (-22.22931d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0144-22_60 | (7) MACSJ0144.7-2 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 16 (1) | 400 Secs (1200 Secs) |
| | 6 | 213 | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 17 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

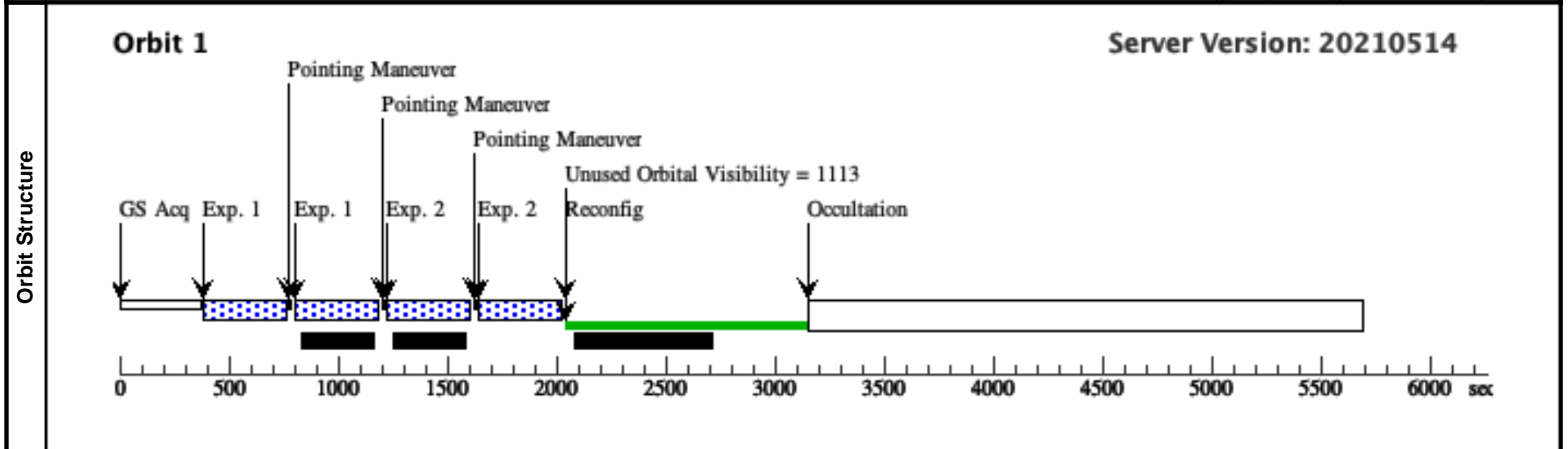
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 17, implementation | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: WFC3/IR | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|-----|------------------|---|--------------------------|--------|-----------------------|
| | (7) | MACSJ0144.7-2213 | RA: 01 44 40.4100 (26.1683750d) Dec: -22 13 45.50 (-22.22931d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-------------|----------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|-------------------------------------|-------------------------------------|---------------------------------|-------|
| | 1 | 0144-22_110 | (7) MACSJ0144.7-2213 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 17 (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | 0144-22_140 | (7) MACSJ0144.7-2213 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 17 (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 18 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 18, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

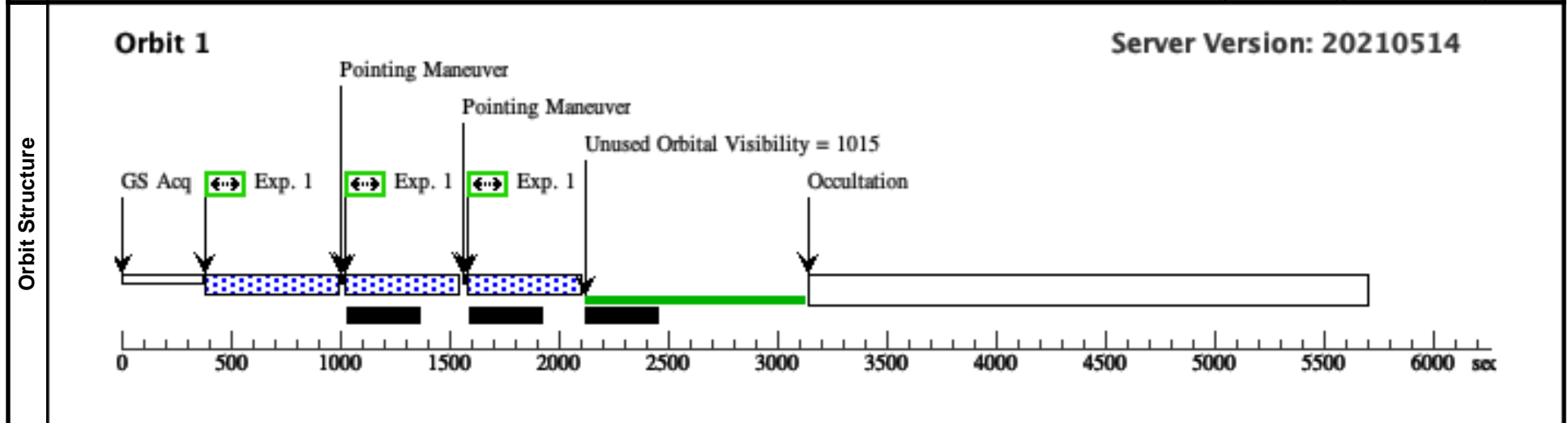
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|-----|------------------|---|--------------------------|--------|-----------------------|
| | (8) | MACSJ0152.7+0100 | RA: 01 52 41.9500 (28.1747917d) Dec: +01 00 24.60 (1.00683d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|----------|----------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | A267_606 | (8) MACSJ0152.7+0100 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 18 (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]



Proposal 16670 - Visit 19 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 19, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

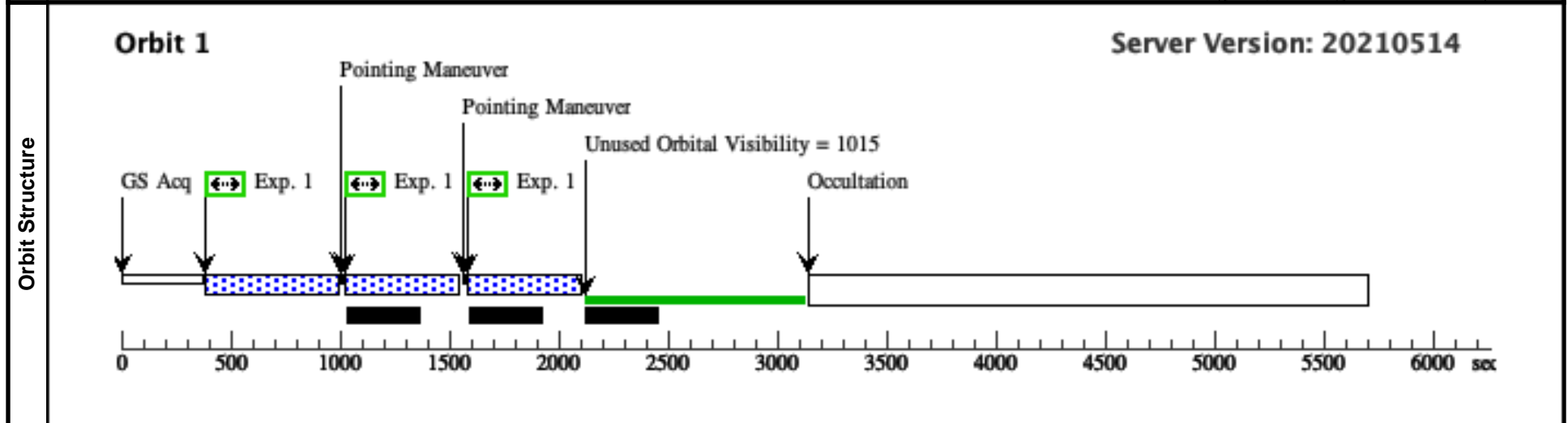
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|-----|------------------|---|--------------------------|--------|-----------------------|
| | (8) | MACSJ0152.7+0100 | RA: 01 52 41.9500 (28.1747917d) Dec: +01 00 24.60 (1.00683d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|----------|----------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | A267_814 | (8) MACSJ0152.7+0100 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 19 (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]

[1]



Proposal 16670 - Visit 20 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

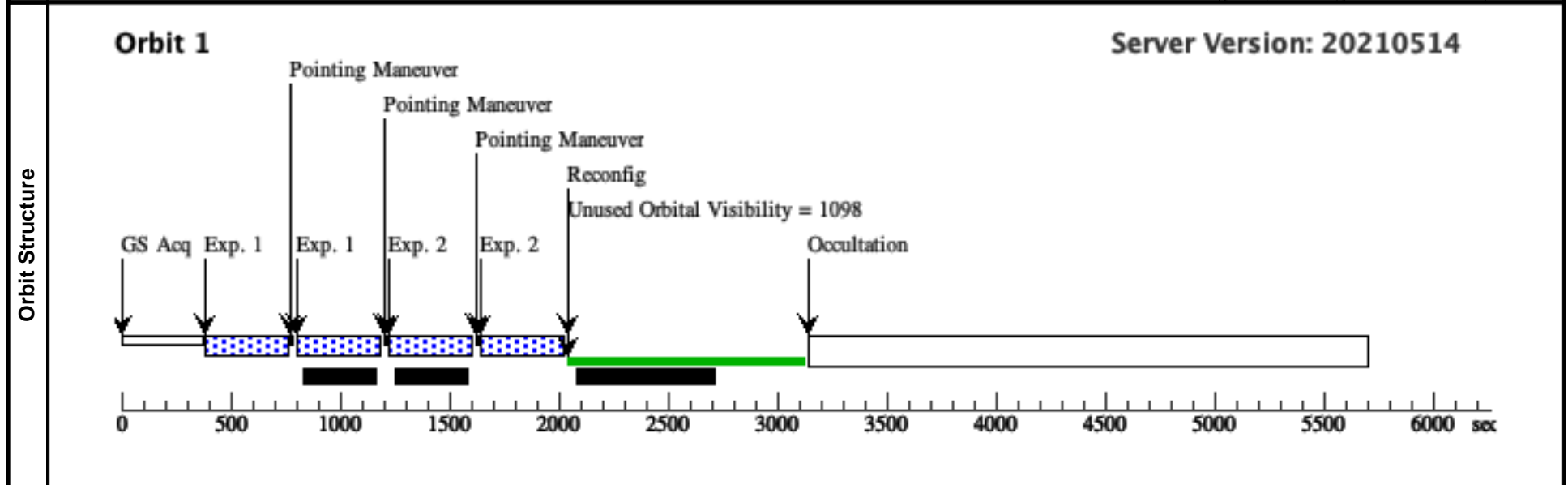
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 20, implementation | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: WFC3/IR | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|-----|------------------|---|--------------------------|--------|-----------------------|
| | (8) | MACSJ0152.7+0100 | RA: 01 52 41.9500 (28.1747917d) Dec: +01 00 24.60 (1.00683d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|----------|----------------------|-------------------------|-------------------------|-----------------------------------|-----------------------------------|---------------|-------------------------------------|--|--|
| | 1 | A267_110 | (8) MACSJ0152.7+0100 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 1-1 in Visit 20 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] |
| 2 | A267_140 | (8) MACSJ0152.7+0100 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 2-2 in Visit 20 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 21 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

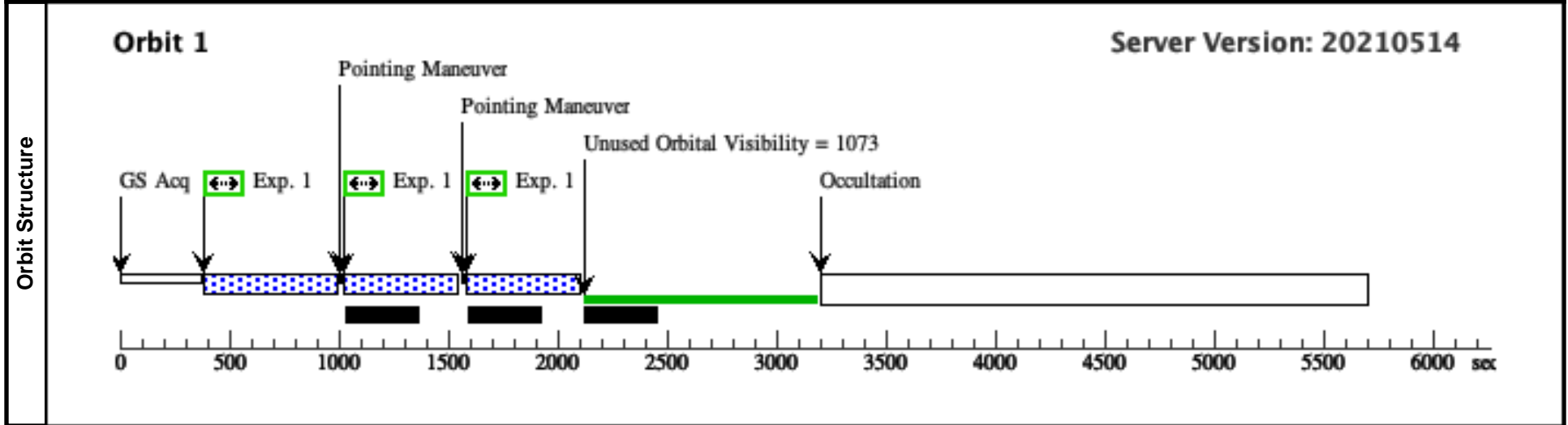
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 21, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|-----|------------------|--|--------------------------|--------|-----------------------|
| | (9) | MACSJ0152.9+3732 | RA: 01 52 53.0500 (28.2210417d) Dec: +37 31 50.20 (37.53061d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0152+37_60 | (9) MACSJ0152.9+3 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 21 (1) | 400 Secs (1200 Secs) |
| 6 | | 732 | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 22 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

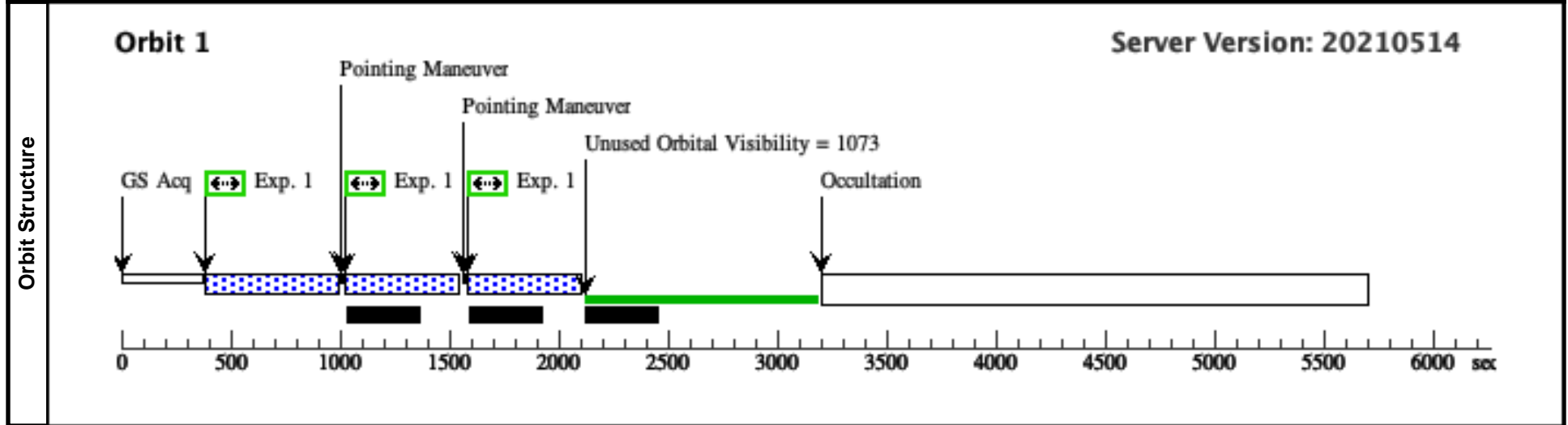
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 22, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|-----|------------------|--|--------------------------|--------|-----------------------|
| | (9) | MACSJ0152.9+3732 | RA: 01 52 53.0500 (28.2210417d) Dec: +37 31 50.20 (37.53061d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0152+37_81 | (9) MACSJ0152.9+3 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 22 (1) | 400 Secs (1200 Secs) |
| 4 | | 732 | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 23 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

| | | | | | | | | | | |
|------------------------|--|------------------|--|--|--------------------------|-----------------------------------|---------------|-------------------------------------|------------------------------------|-------|
| Visit | Proposal 16670, Visit 23, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | | | | | | | | |
| | Patterns | # (2) | Primary Pattern Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | Secondary Pattern | Exposures (1), (2) | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | |
| | (9) | MACSJ0152.9+3732 | RA: 01 52 53.0500 (28.2210417d) Dec: +37 31 50.20 (37.53061d) Equinox: J2000 | | V=19 | Reference Frame: ICRS | | | | |
| | Comments: Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | 0152+37_11 0 | (9) MACSJ0152.9+3732 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 23 (2) | 352.939501 Secs (705.879 Secs) | |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] | [1] |
| | 2 | 0152+37_14 0 | (9) MACSJ0152.9+3732 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 23 (2) | 352.939501 Secs (705.879 Secs) | |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] | [1] |
| Orbit Structure | <div style="display: flex; justify-content: space-between;"> Orbit 1 Server Version: 20210514 </div> <p>Timeline labels: GS Acq, Exp. 1, Exp. 1, Exp. 2, Exp. 2, Reconfig, Occultation, Unused Orbital Visibility = 1156, Pointing Maneuver.</p> <p>X-axis: 0, 500, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500, 6000 sec</p> | | | | | | | | | |

Proposal 16670 - Visit 24 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 24, implementation | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

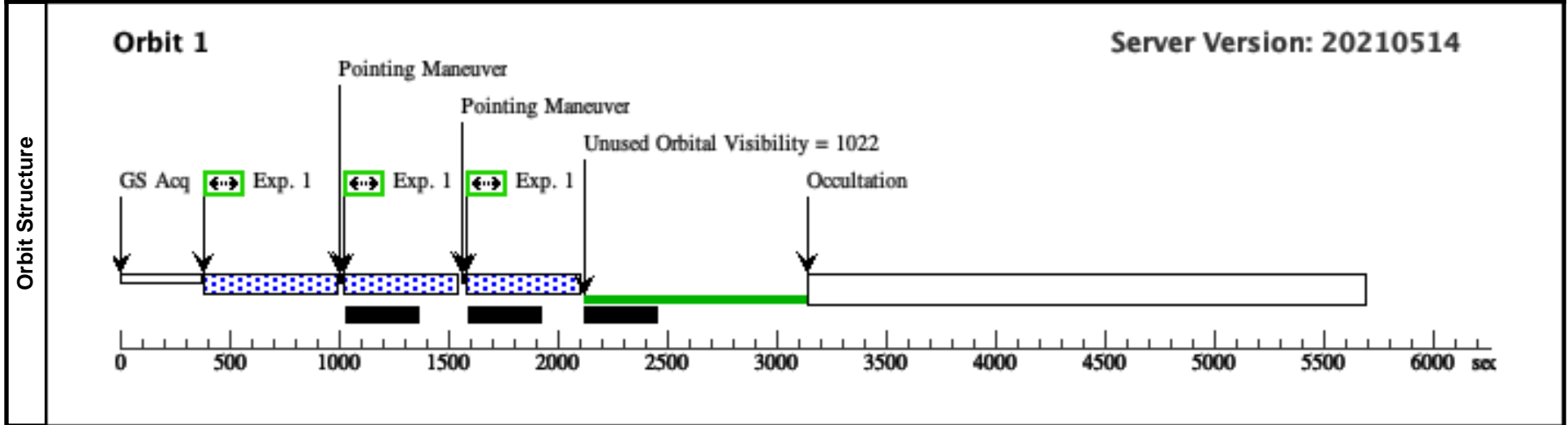
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (10) | MACSJ0206.4-1453 | RA: 02 06 34.6800 (31.6445000d) Dec: -14 53 40.00 (-14.89444d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|-----------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | 0206-24_60 6 | (10) MACSJ0206.4-1453 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 24 (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]



Proposal 16670 - Visit 25 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 25, implementation | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

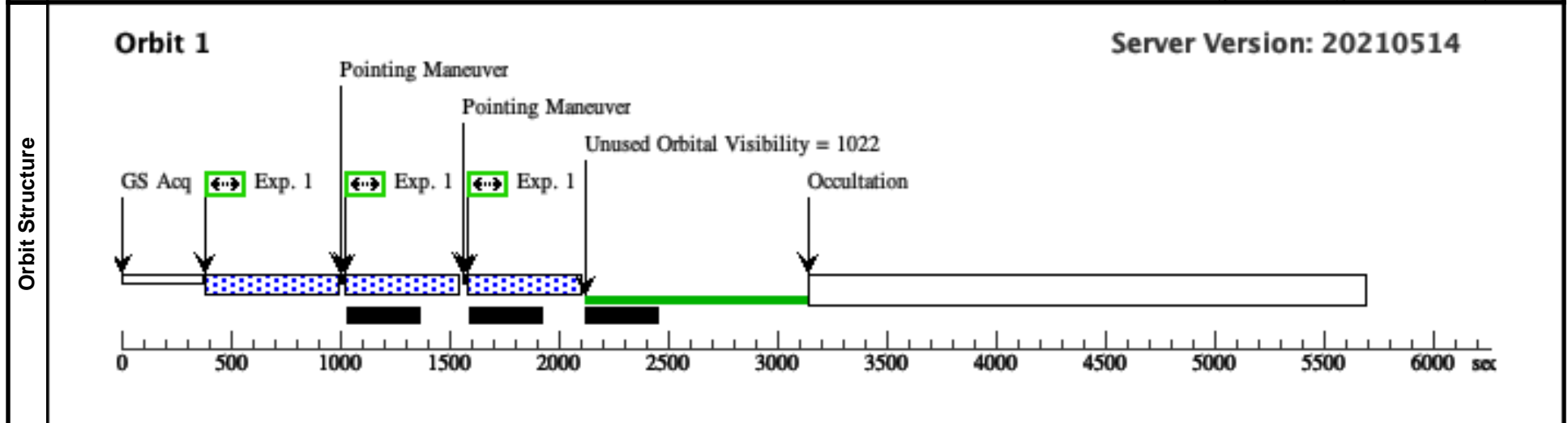
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (10) | MACSJ0206.4-1453 | RA: 02 06 34.6800 (31.6445000d) Dec: -14 53 40.00 (-14.89444d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-------------|-----------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | 0206-24_814 | (10) MACSJ0206.4-1453 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 25 (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]

[1]



Proposal 16670 - Visit 26 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

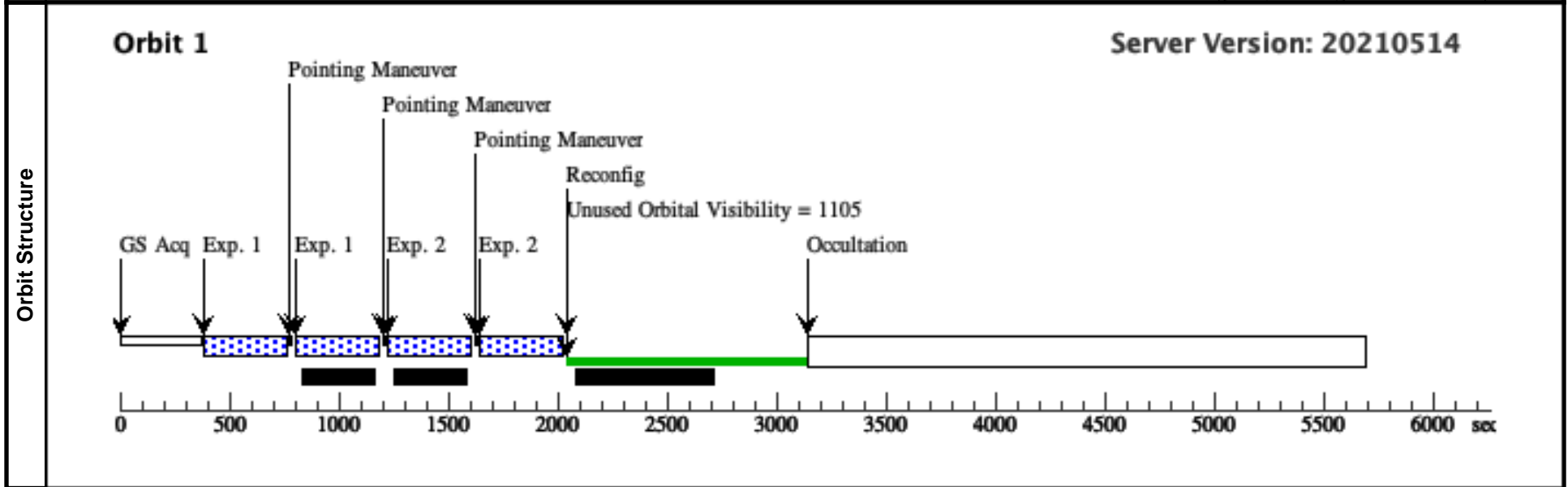
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 26, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (10) | MACSJ0206.4-1453 | RA: 02 06 34.6800 (31.6445000d) Dec: -14 53 40.00 (-14.89444d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-------------|-----------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|---------------|-------------------------------------|--|--|
| | 1 | 0206-14_110 | (10) MACSJ0206.4-1453 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 1-1 in Visit 26 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] |
| 2 | 0206-14_140 | (10) MACSJ0206.4-1453 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 2-2 in Visit 26 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 27 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

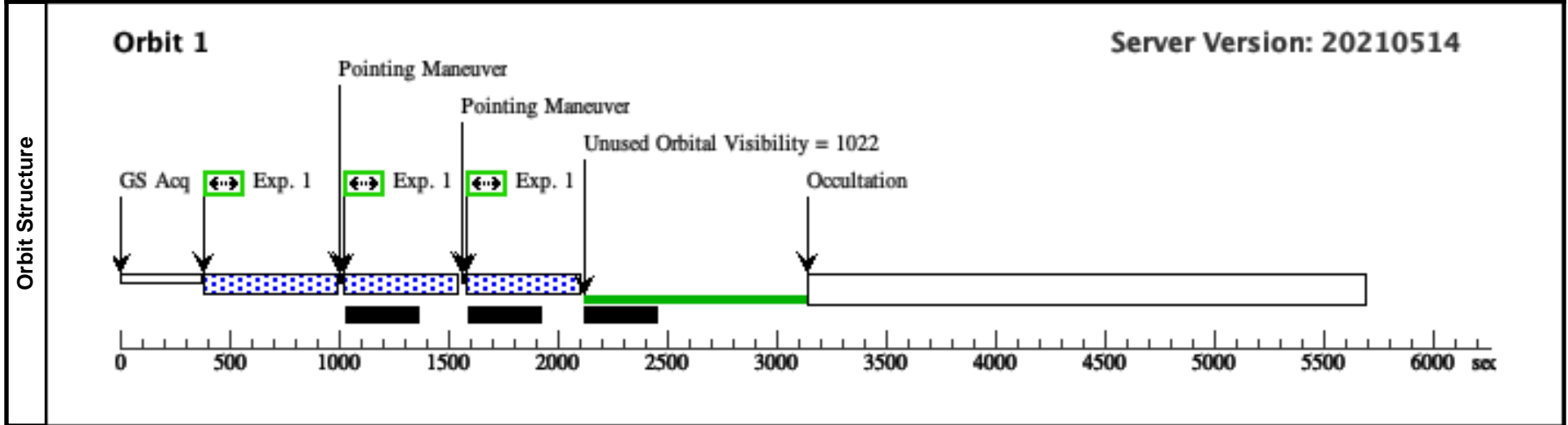
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 27, implementation | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (11) | MACSJ0307.0-2840 | RA: 02 06 34.6800 (31.6445000d) Dec: -14 53 40.00 (-14.89444d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-------------|-----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0307-28_814 | (11) MACSJ0307.0-2840 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 27 (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 28 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

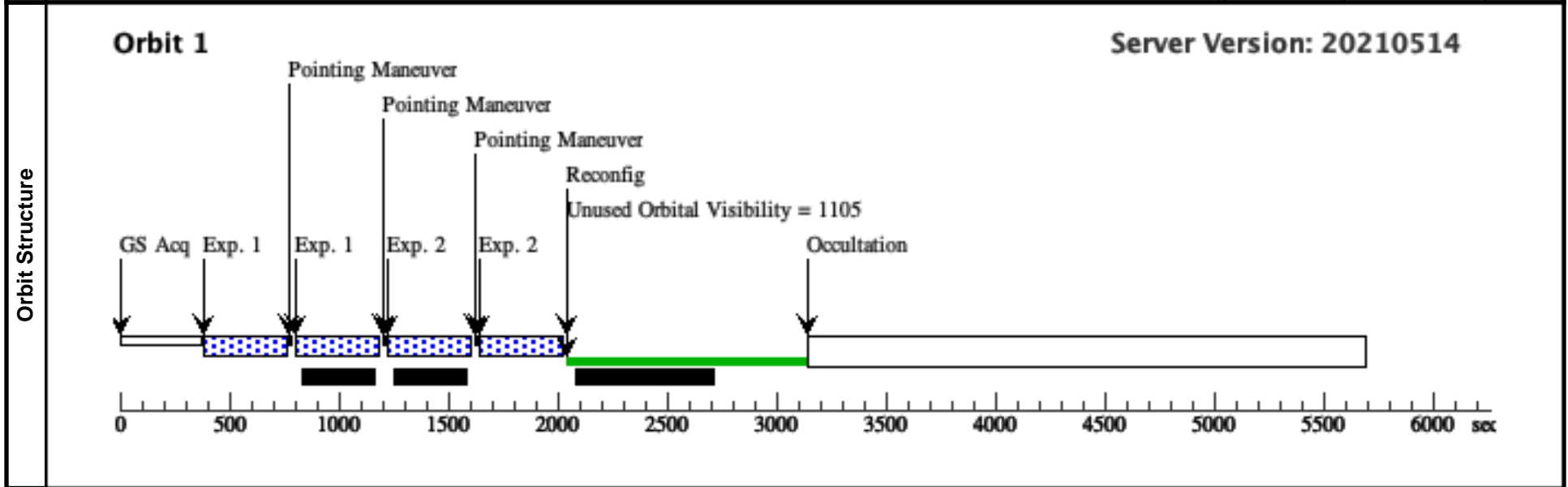
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 28, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (11) | MACSJ0307.0-2840 | RA: 02 06 34.6800 (31.6445000d) Dec: -14 53 40.00 (-14.89444d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|--------------|-----------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|---------------|-------------------------------------|--|--|
| | 1 | 0307-28_11_0 | (11) MACSJ0307.0-2840 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 1-1 in Visit 28 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] |
| 2 | 0307-28_14_0 | (11) MACSJ0307.0-2840 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 2-2 in Visit 28 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 29 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

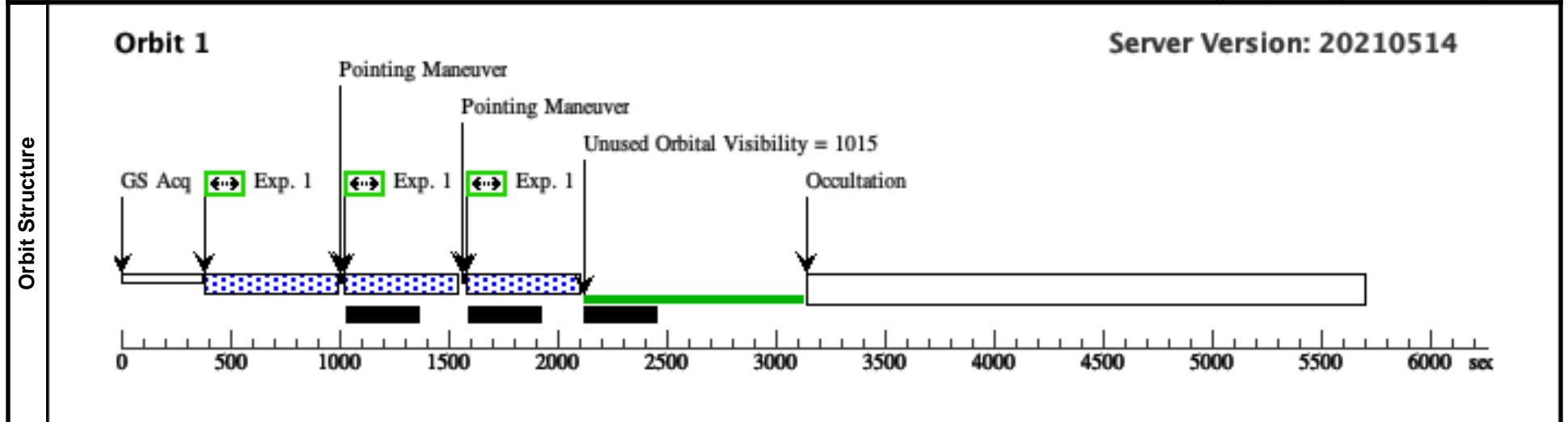
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 29, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (12) | MACSJ0437.1+0043 | RA: 04 37 9.5500 (69.2897917d) Dec: +00 43 52.80 (.73133d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|---------------------------|----------------------|---------------|--------------|---------------|--------|---|---|
| | 1 | 0437+00_60 6 | (12) MACSJ0437.1+ 0043 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 i n Visit 29 (1) | 400 Secs (1200 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] |



Proposal 16670 - Visit 30 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

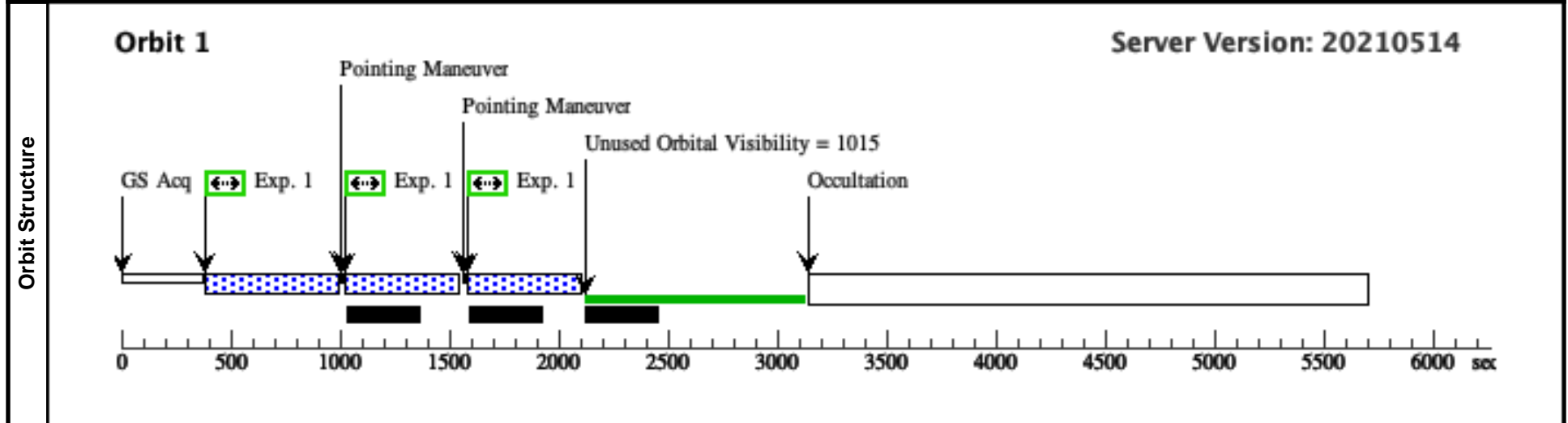
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 30, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (12) | MACSJ0437.1+0043 | RA: 04 37 9.5500 (69.2897917d) Dec: +00 43 52.80 (.73133d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|---------------------------|----------------------|---------------|--------------|---------------|--------|---|---|
| | 1 | 0437+00_81 4 | (12) MACSJ0437.1+ 0043 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 i n Visit 30 (1) | 400 Secs (1200 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] |



Proposal 16670 - Visit 31 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

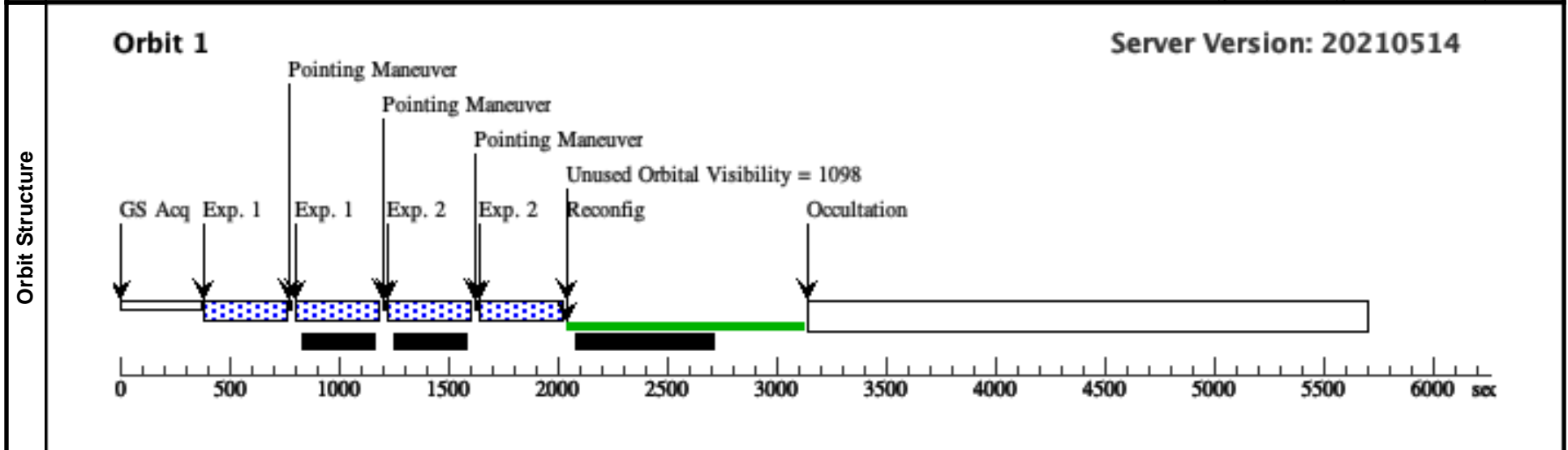
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 31, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (12) | MACSJ0437.1+0043 | RA: 04 37 9.5500 (69.2897917d) Dec: +00 43 52.80 (.73133d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-----------------|-----------------------|-------------------------|-------------------------|-----------------------------------|-----------------------------------|-------------------------------------|-------------------------------------|---------------------------------|-------|
| | 1 | 0437+00_11 0 | (12) MACSJ0437.1+0043 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 31 (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | 0437+00_14 0 | (12) MACSJ0437.1+0043 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 31 (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 32 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

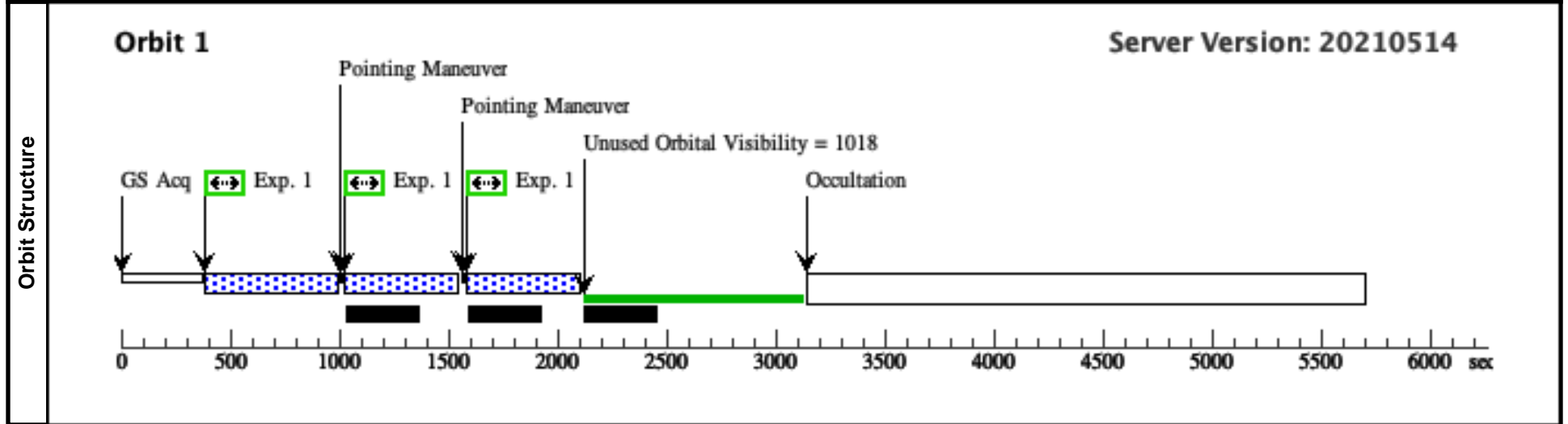
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 32, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none) | | |
|--------------|--|--|--|

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|---|-------------------|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | | (1) |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (13) | MACSJ0439.0+0716 | RA: 04 39 0.5000 (69.7520833d) Dec: +07 16 4.70 (7.26797d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|-----------------------|----------------------|---------------|--------------|---------------|-------------------------------------|---|-------|
| | 1 | 0439+07_60 6 | (13) MACSJ0439.0+0716 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | Pattern 1, Exps 1-1 in Visit 32 (1) | 400 Secs (1200 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 33 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:19 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 33, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

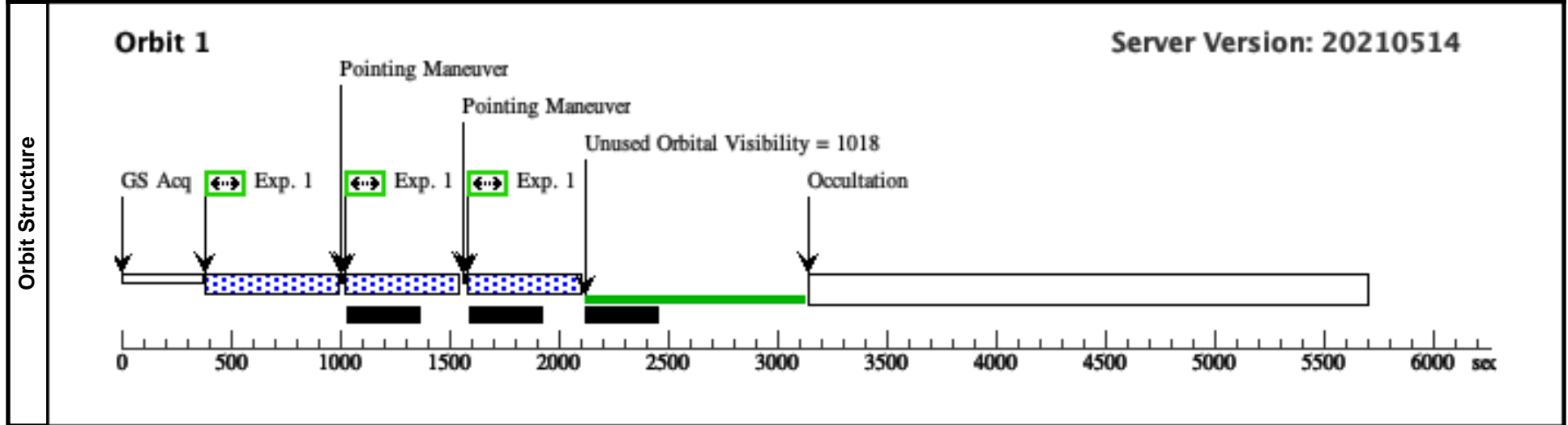
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (13) | MACSJ0439.0+0716 | RA: 04 39 0.5000 (69.7520833d) Dec: +07 16 4.70 (7.26797d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|-----------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | 0439+07_81 4 | (13) MACSJ0439.0+0716 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 33 (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]



Proposal 16670 - Visit 34 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

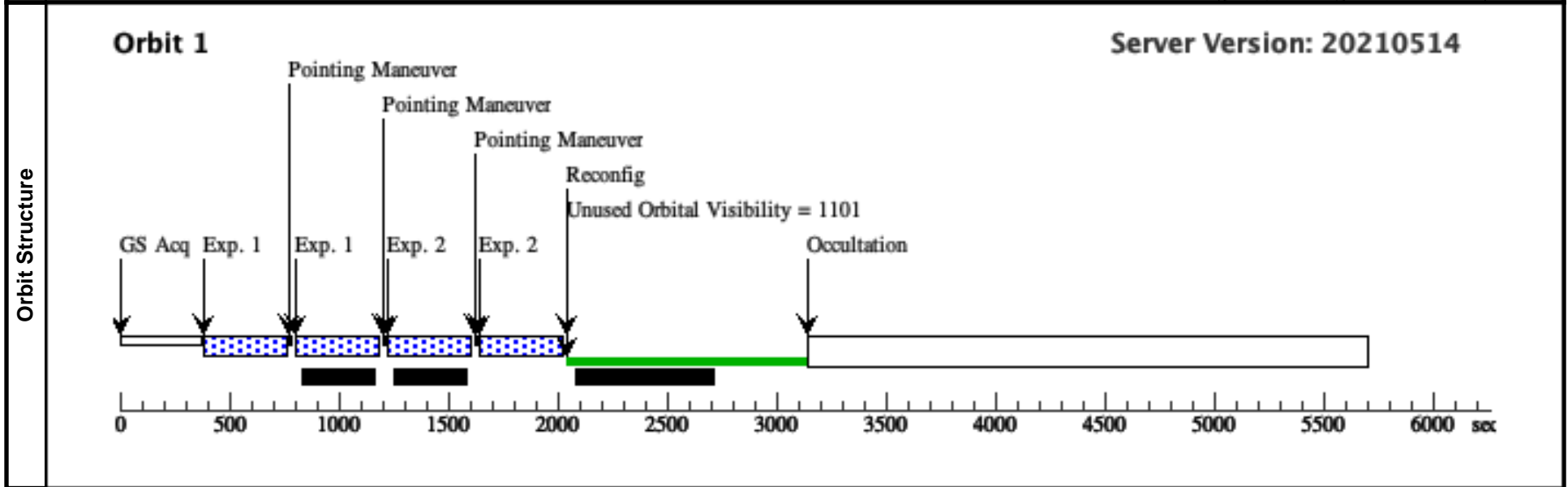
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 34, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (13) | MACSJ0439.0+0716 | RA: 04 39 0.5000 (69.7520833d) Dec: +07 16 4.70 (7.26797d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|--------------|-----------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|-------------------------------------|-------------------------------------|---------------------------------|-------|
| | 1 | 0439+07_11_0 | (13) MACSJ0439.0+0716 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 34 (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | 0439+07_14_0 | (13) MACSJ0439.0+0716 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 34 (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 35 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

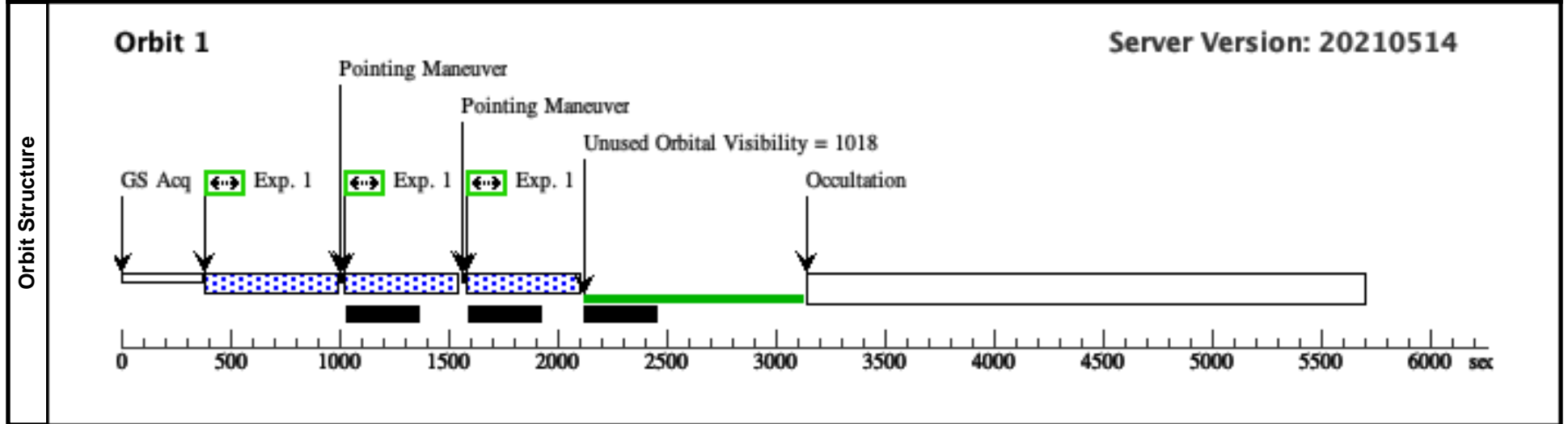
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 35, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (14) | MACSJ0439.0+0520 | RA: 04 39 2.2500 (69.7593750d) Dec: +05 20 43.50 (5.34542d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|-----------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|---|
| | 1 | 0439+05_60 6 | (14) MACSJ0439.0+0520 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 35 (1) | 400 Secs (1200 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] |



Proposal 16670 - Visit 36 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

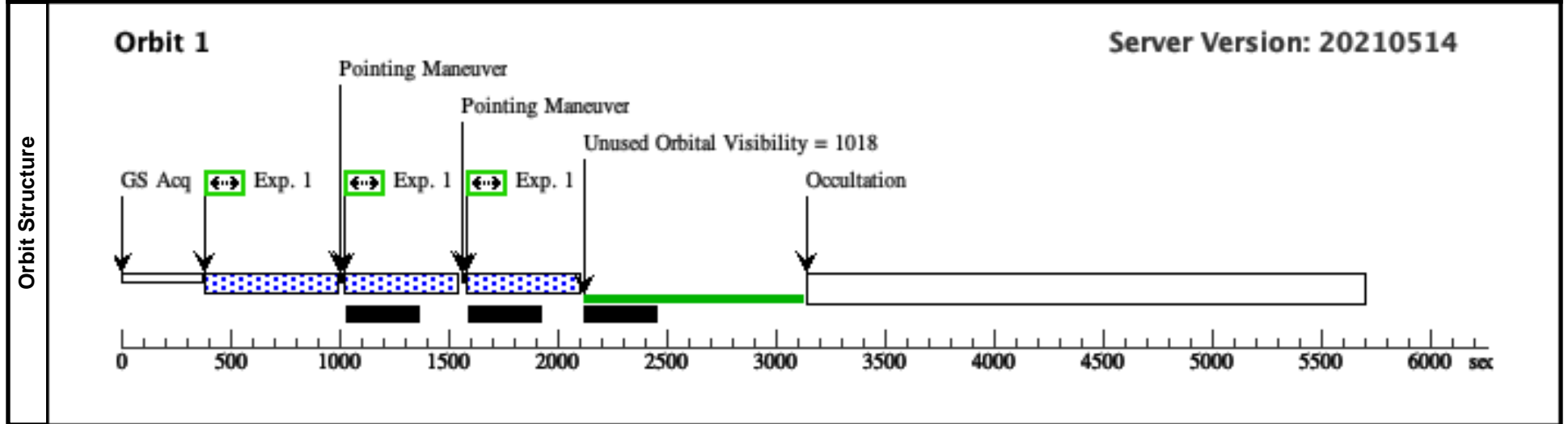
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 36, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (14) | MACSJ0439.0+0520 | RA: 04 39 2.2500 (69.7593750d) Dec: +05 20 43.50 (5.34542d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|---------------------------|----------------------|---------------|--------------|---------------|--------|---|---|
| | 1 | 0439+05_81 4 | (14) MACSJ0439.0+ 0520 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 i n Visit 36 (1) | 400 Secs (1200 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] |



Proposal 16670 - Visit 37 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|----------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|---------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (14) | MACSJ0439.0+0520 | RA: 04 39 2.2500 (69.7593750d) Dec: +05 20 43.50 (5.34542d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
Category=CLUSTER OF GALAXIES
Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|-----------------|-----------------------|-------------------------|-------------------------|-----------------------------------|-----------------------------------|-------------------------------------|-------------------------------------|---------------------------------|-------|
| | 1 | 0439+05_11 0 | (14) MACSJ0439.0+0520 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 37 (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | 0439+05_14 0 | (14) MACSJ0439.0+0520 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 37 (2) | 352.939501 Secs (705.879 Secs) | [1] | |

Orbit 1

The diagram shows a timeline from 0 to 6000 seconds. Key events include: GS Acq at ~100s, Exp. 1 at ~400s, Exp. 1 at ~800s, Exp. 2 at ~1200s, Exp. 2 at ~1600s, Reconfig at ~2000s, and Occultation starting at ~3100s. Pointing maneuvers are indicated between exposures. A green bar highlights the period from ~2000s to ~3100s, labeled 'Unused Orbital Visibility = 1101'. Black bars below the timeline indicate pointing maneuver durations.

Server Version: 20210514

Proposal 16670 - Visit 38 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

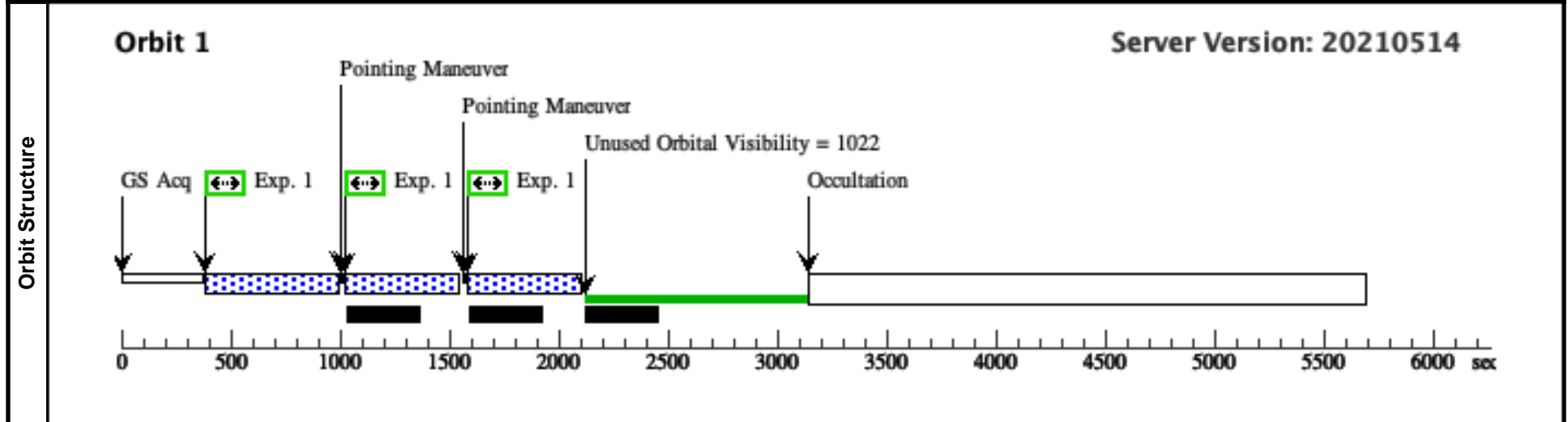
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 38, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (15) | MACSJ0454.1-1014 | RA: 04 54 6.8900 (73.5287083d) Dec: -10 13 24.90 (-10.22358d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
Category=CLUSTER OF GALAXIES
Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|----------|-----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | A521_606 | (15) MACSJ0454.1-1014 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 38 (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 39 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 39, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

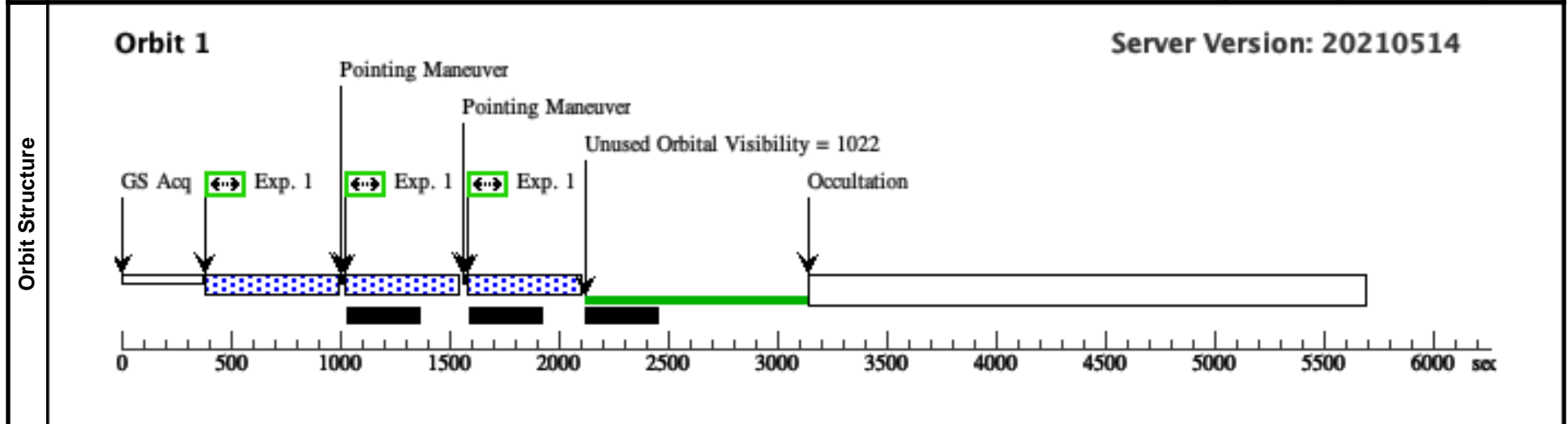
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (15) | MACSJ0454.1-1014 | RA: 04 54 6.8900 (73.5287083d) Dec: -10 13 24.90 (-10.22358d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|----------|-----------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | A521_814 | (15) MACSJ0454.1-1014 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 39 (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]

[1]



Proposal 16670 - Visit 40 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 40, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

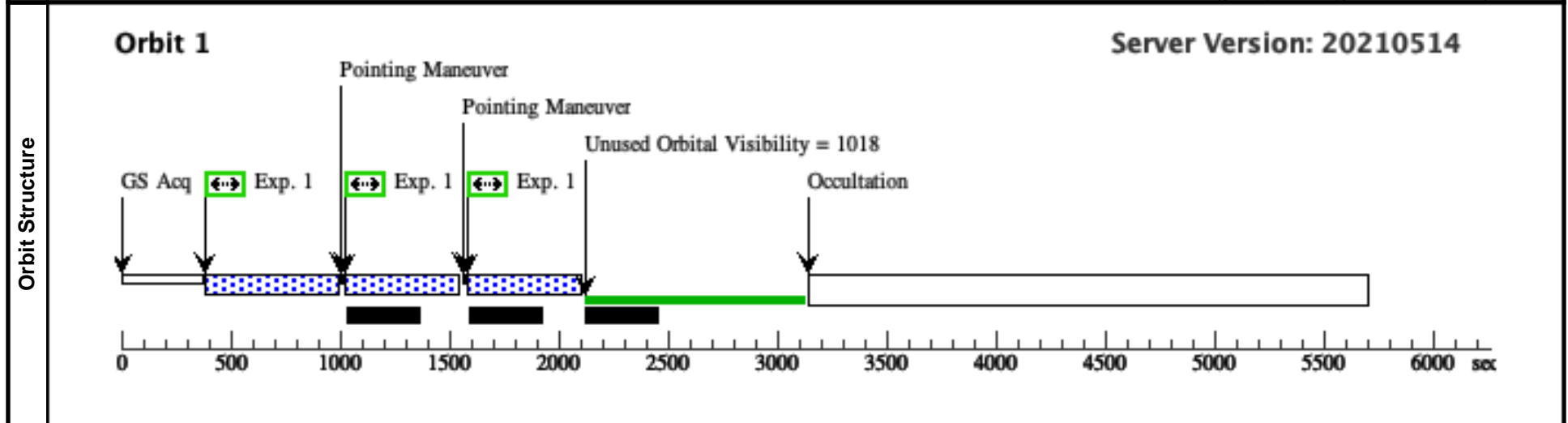
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (16) | MACSJ0510.7-0801 | RA: 05 10 47.9200 (77.6996667d) Dec: -08 01 44.40 (-8.02900d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|-----------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | 0510-08_60 6 | (16) MACSJ0510.7-0801 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 40 (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]



Proposal 16670 - Visit 41 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 41, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

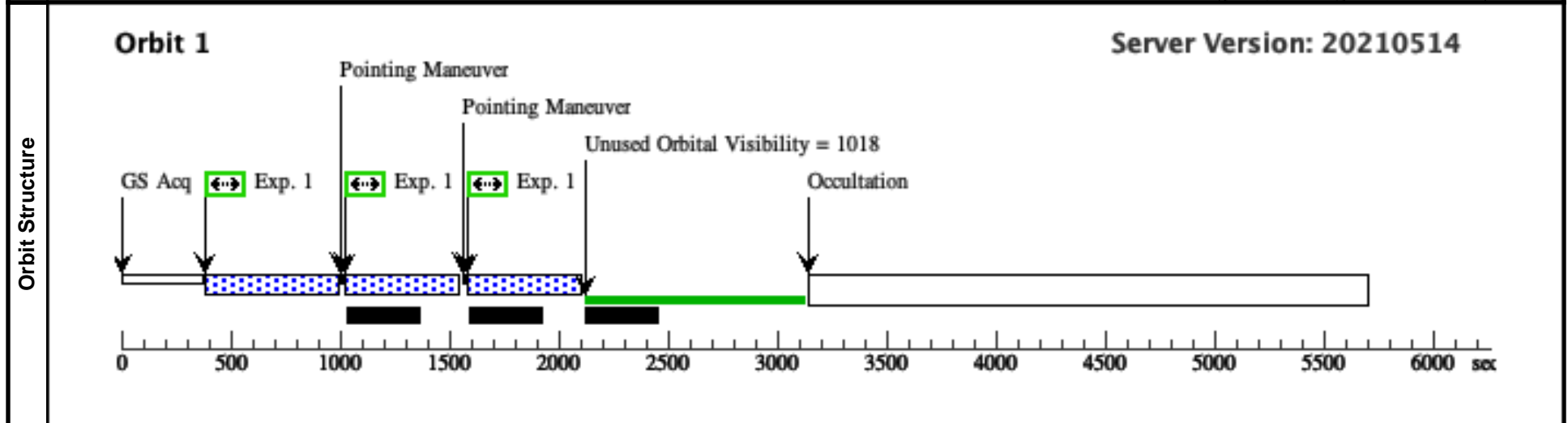
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (16) | MACSJ0510.7-0801 | RA: 05 10 47.9200 (77.6996667d) Dec: -08 01 44.40 (-8.02900d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-------------|-----------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | 0510-08_814 | (16) MACSJ0510.7-0801 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 41 (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]



Proposal 16670 - Visit 42 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

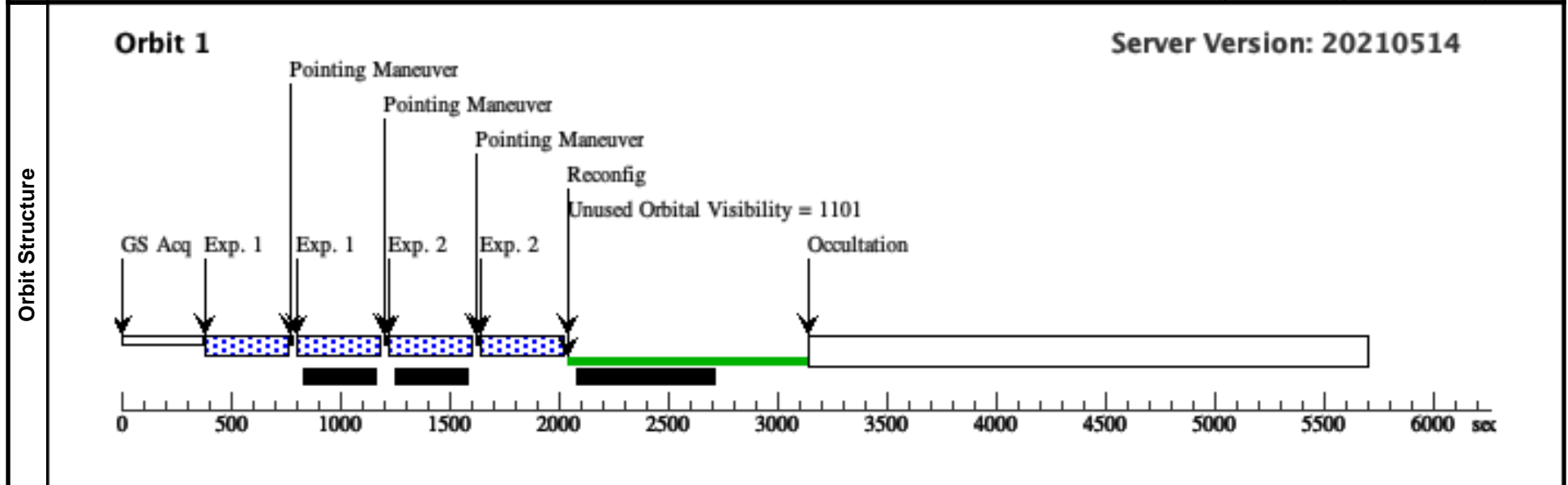
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 42, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (16) | MACSJ0510.7-0801 | RA: 05 10 47.9200 (77.6996667d) Dec: -08 01 44.40 (-8.02900d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
Category=CLUSTER OF GALAXIES
Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-------------|-----------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|---------------|-------------------------------------|--|--|
| | 1 | 0510-08_110 | (16) MACSJ0510.7-0801 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 1-1 in Visit 42 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] |
| 2 | 0510-08_140 | (16) MACSJ0510.7-0801 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 2-2 in Visit 42 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 43 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

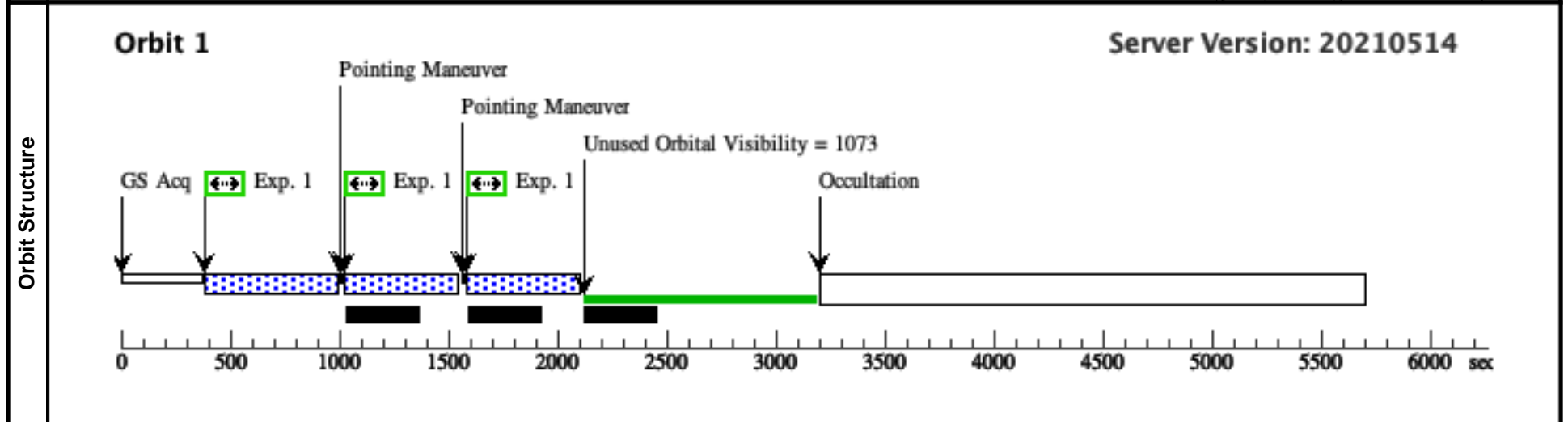
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 43, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (17) | MACSJ0528.9-3928 | RA: 05 28 53.0200 (82.2209167d) Dec: -39 28 17.80 (-39.47161d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|-----------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|---|
| | 1 | 0528-39_60 6 | (17) MACSJ0528.9-3928 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 43 (1) | 400 Secs (1200 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] |



Proposal 16670 - Visit 44 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

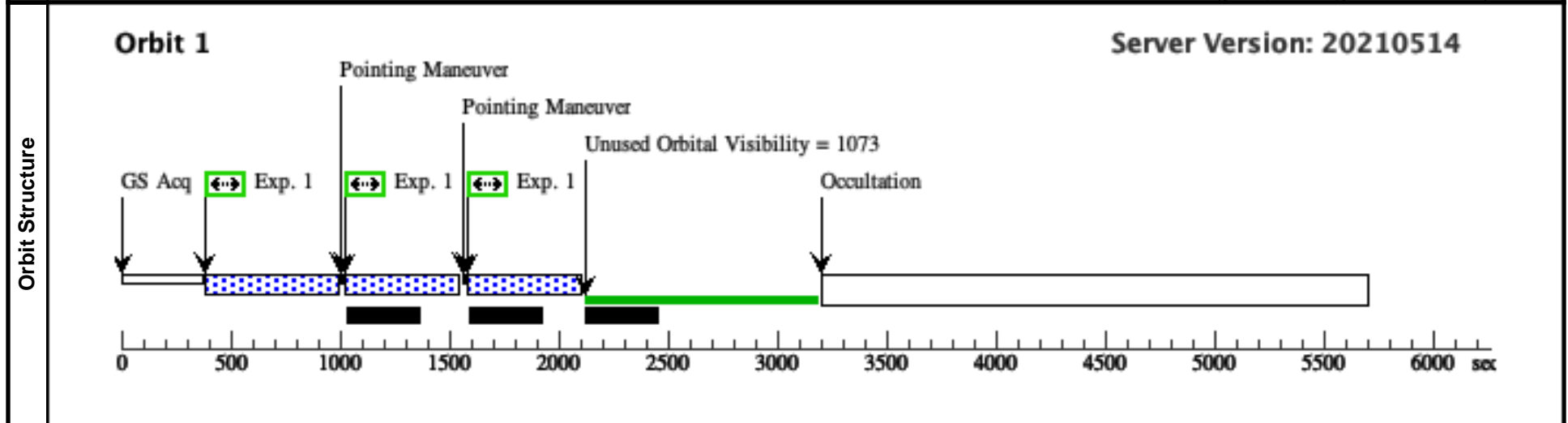
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 44, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (17) | MACSJ0528.9-3928 | RA: 05 28 53.0200 (82.2209167d) Dec: -39 28 17.80 (-39.47161d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-------------|-----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0528-39_814 | (17) MACSJ0528.9-3928 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 44 (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 45 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

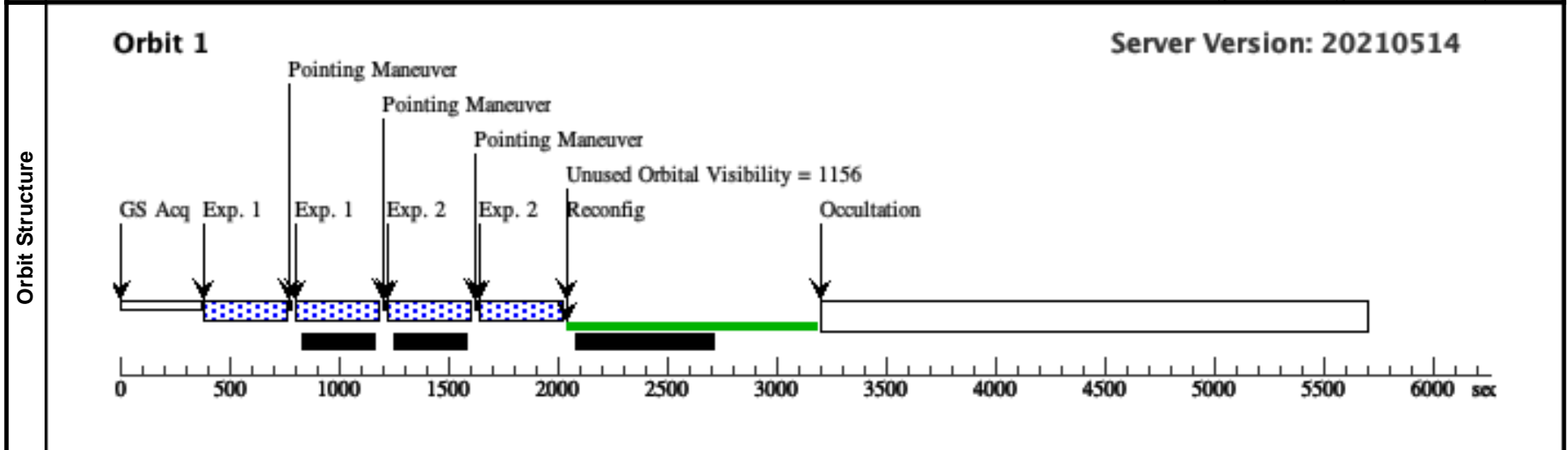
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 45, implementation | | |
| | Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (17) | MACSJ0528.9-3928 | RA: 05 28 53.0200 (82.2209167d) Dec: -39 28 17.80 (-39.47161d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-------------|-----------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|---------------|-------------------------------------|--|--|
| | 1 | 0528-39_110 | (17) MACSJ0528.9-3928 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 1-1 in Visit 45 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] |
| 2 | 0528-39_140 | (17) MACSJ0528.9-3928 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 2-2 in Visit 45 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 46 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

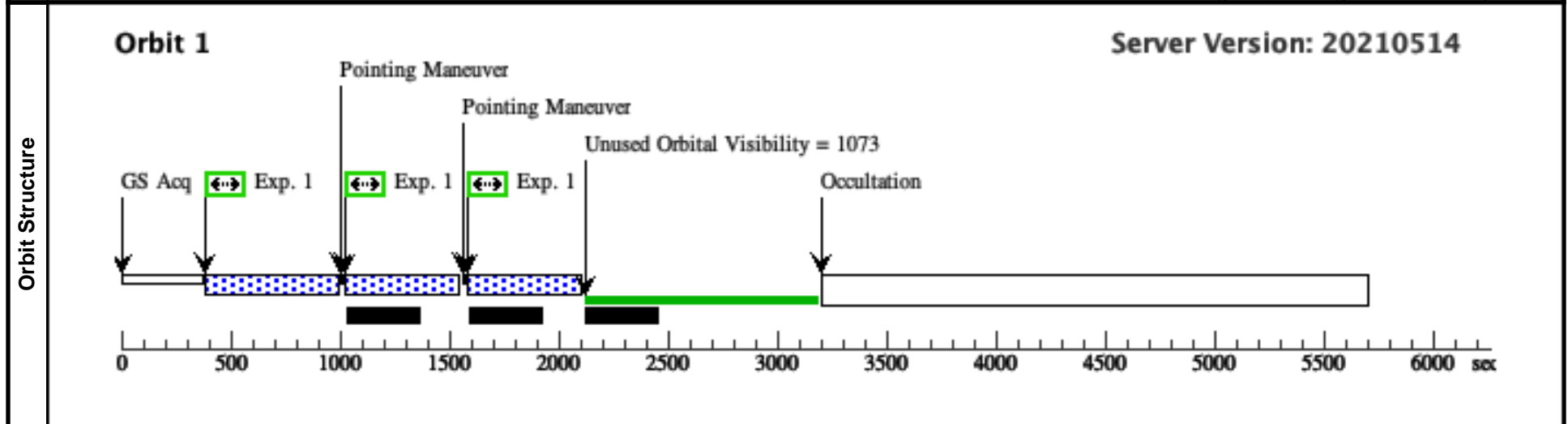
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 46, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (18) | MACSJ0532.9-3701 | RA: 05 32 55.6800 (83.2320000d) Dec: -37 01 36.20 (-37.02672d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|-----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0532-37_60 6 | (18) MACSJ0532.9-3701 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 46 (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 47 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

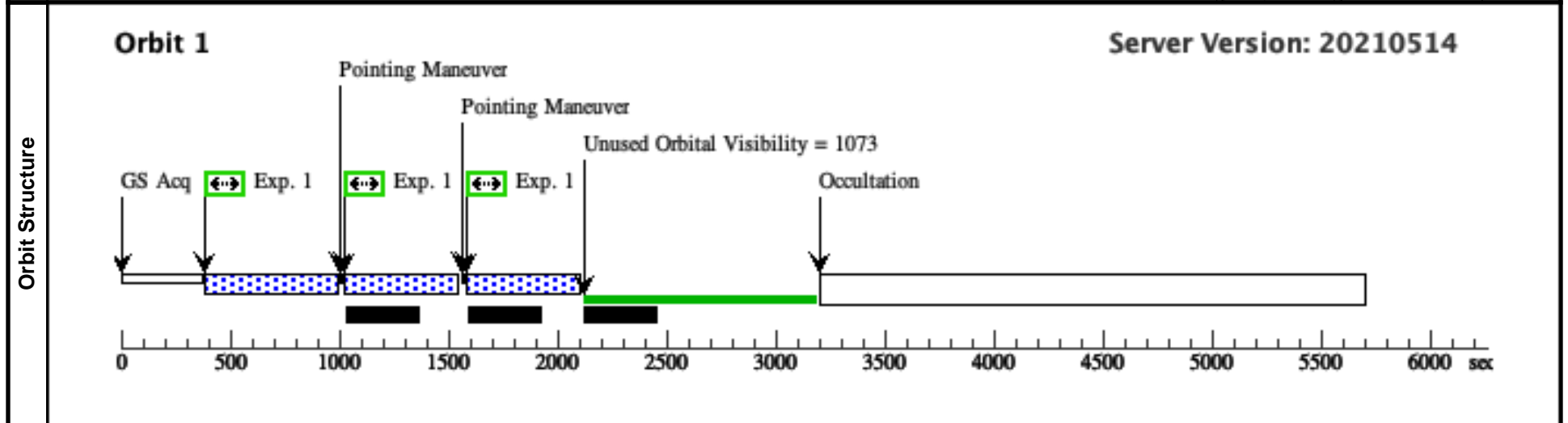
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 47, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (18) | MACSJ0532.9-3701 | RA: 05 32 55.6800 (83.2320000d) Dec: -37 01 36.20 (-37.02672d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
Category=CLUSTER OF GALAXIES
Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-------------|-----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0532-37_814 | (18) MACSJ0532.9-3701 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 47 (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 48 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

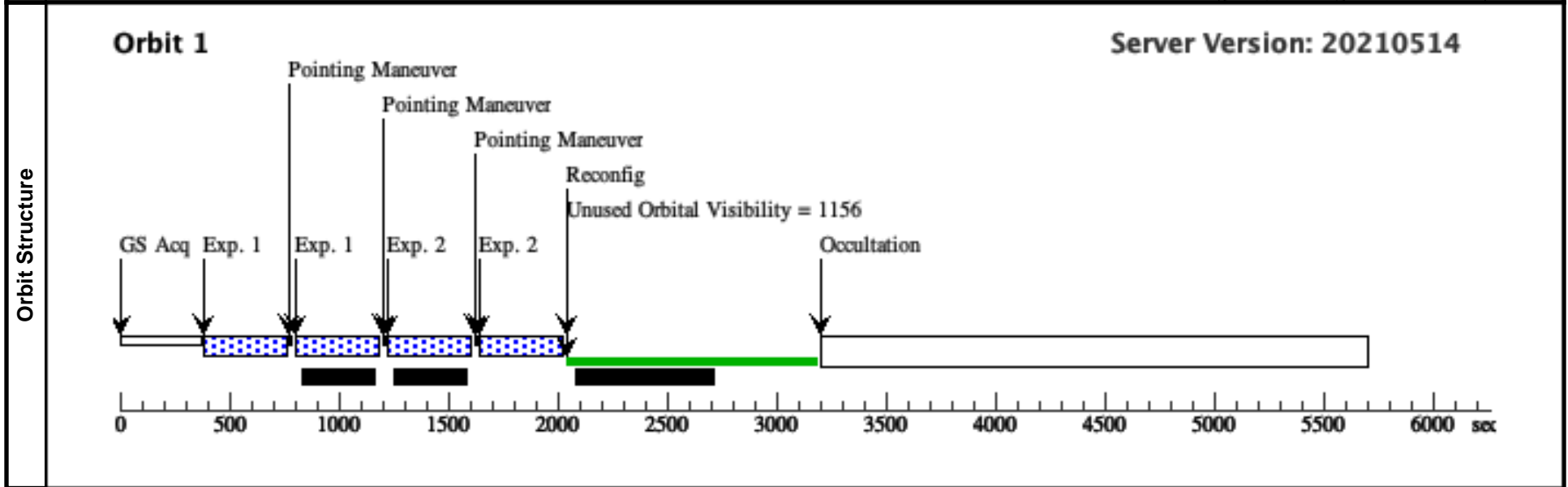
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 48, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (18) | MACSJ0532.9-3701 | RA: 05 32 55.6800 (83.2320000d) Dec: -37 01 36.20 (-37.02672d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-------------|-----------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|-------------------------------------|-------------------------------------|---------------------------------|-------|
| | 1 | 0532-37_110 | (18) MACSJ0532.9-3701 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 48 (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | 0532-37_140 | (18) MACSJ0532.9-3701 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 48 (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 49 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 49, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

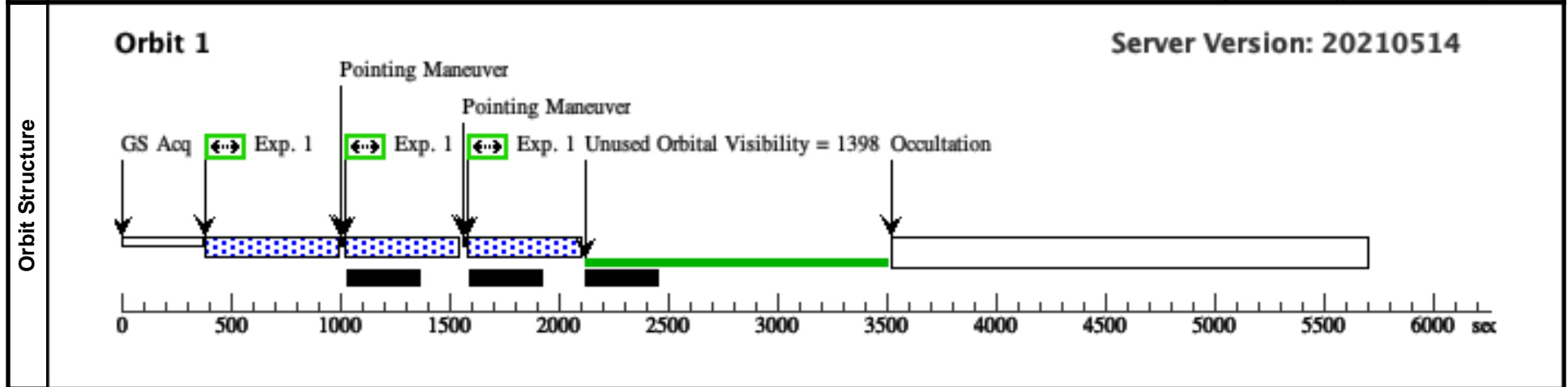
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (19) | MACSJ0741.7+7414 | RA: 07 41 44.5700 (115.4357083d) Dec: +74 14 39.70 (74.24436d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|-----------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | 0741+74_60 6 | (19) MACSJ0741.7+7414 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 49 (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]



Proposal 16670 - Visit 50 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 50, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

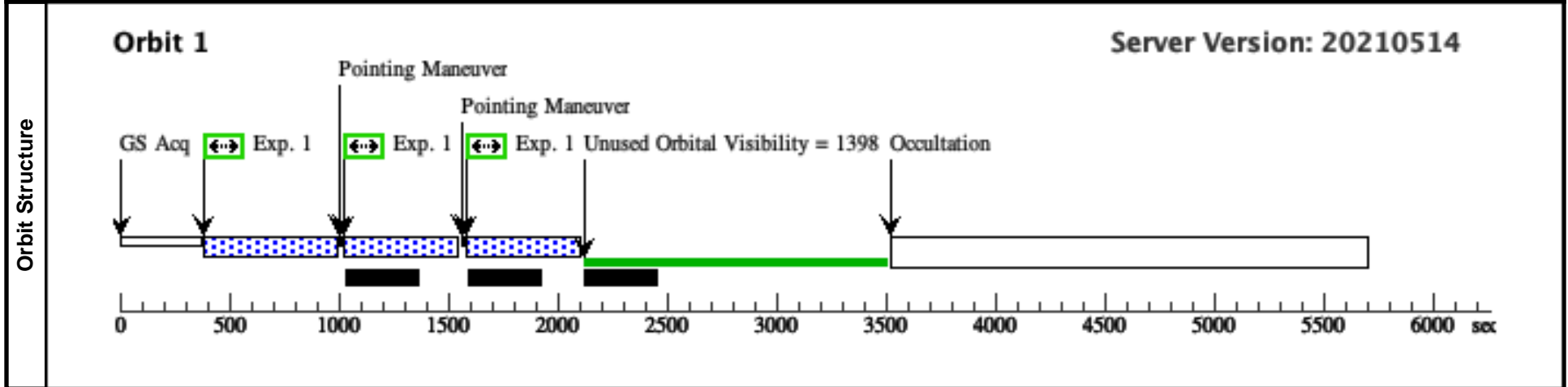
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (19) | MACSJ0741.7+7414 | RA: 07 41 44.5700 (115.4357083d) Dec: +74 14 39.70 (74.24436d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-------------|-----------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | 0741+74_814 | (19) MACSJ0741.7+7414 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 50 (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]



Proposal 16670 - Visit 51 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

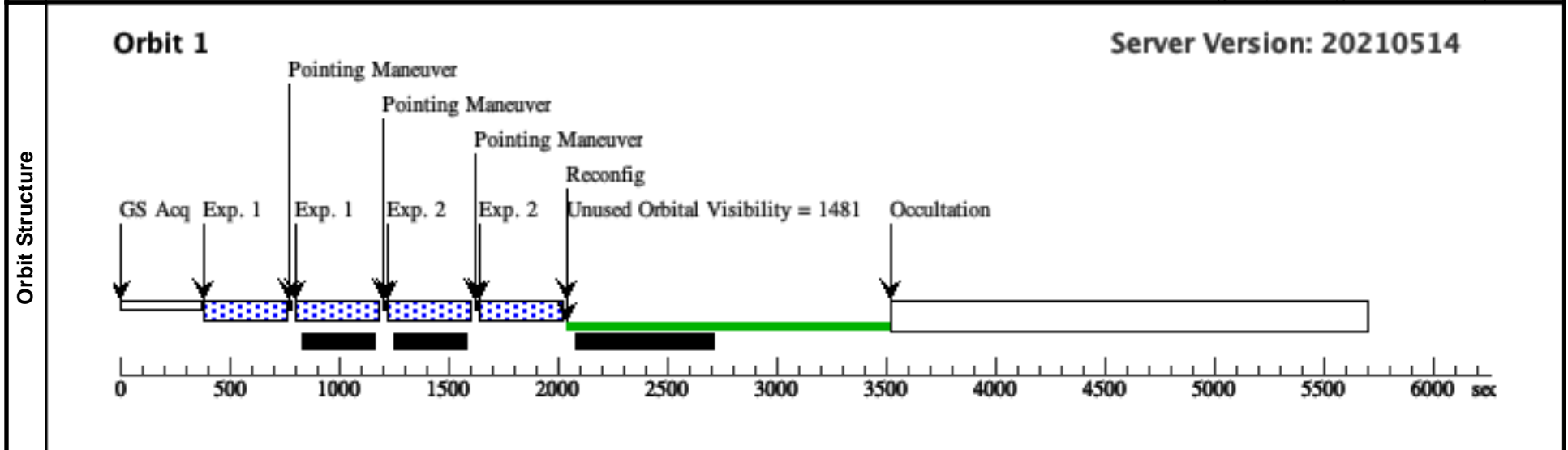
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 51, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (19) | MACSJ0741.7+7414 | RA: 07 41 44.5700 (115.4357083d) Dec: +74 14 39.70 (74.24436d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-------------|-----------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|---------------|-------------------------------------|--|--|
| | 1 | 0741+74_110 | (19) MACSJ0741.7+7414 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 1-1 in Visit 51 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] |
| 2 | 0741+74_140 | (19) MACSJ0741.7+7414 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 2-2 in Visit 51 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 52 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

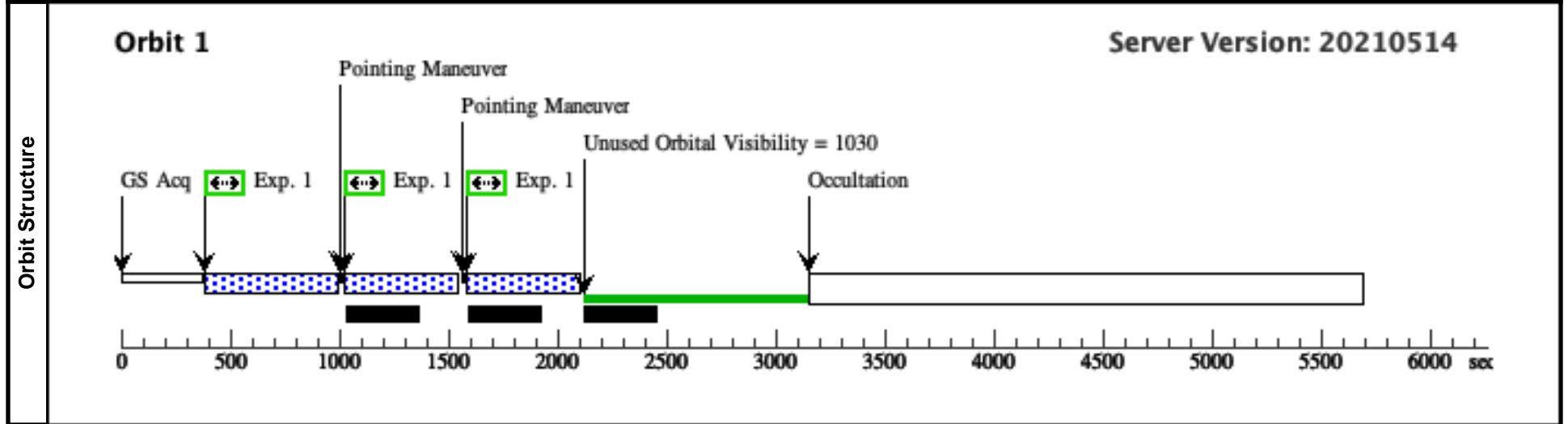
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 52, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (20) | MACSJ0900.5+2054 | RA: 09 00 36.8300 (135.1534583d) Dec: +20 53 40.80 (20.89467d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------|-----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | Z2089_606 | (20) MACSJ0900.5+2054 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 52 (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 53 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

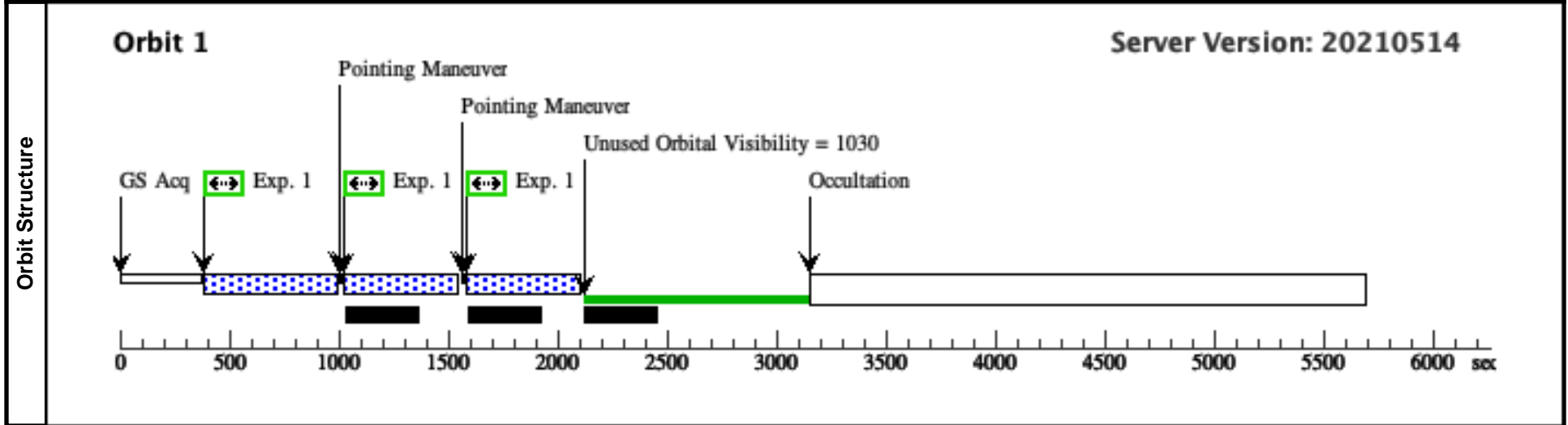
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 53, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (20) | MACSJ0900.5+2054 | RA: 09 00 36.8300 (135.1534583d) Dec: +20 53 40.80 (20.89467d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------|-----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | Z2089_814 | (20) MACSJ0900.5+2054 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 53 (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 54 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

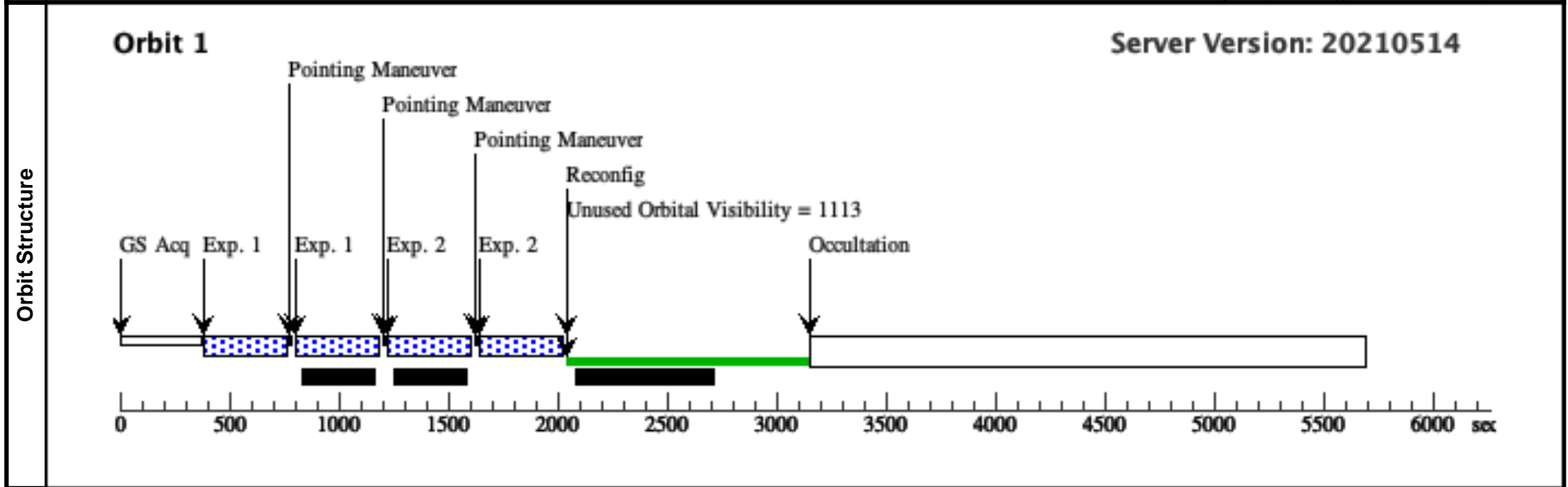
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 54, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
|--------------|--|--|--|

| | | | | |
|-----------------|----------|--|--------------------------|------------------|
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | | (1), (2) |

| | | | | | | |
|----------------------|----------|------------------|---|---------------------------------|---------------|-----------------------|
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
| | (20) | MACSJ0900.5+2054 | RA: 09 00 36.8300 (135.1534583d) Dec: +20 53 40.80 (20.89467d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
Category=CLUSTER OF GALAXIES
Description=[RICH CLUSTER]

| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|----------|--------------|-----------------------|-----------------------------|----------------------|--------------------------------|----------------------|-------------------------------------|--|--------------|
| 1 | Z2089_110 | (20) MACSJ0900.5+2054 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 54 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |
| 2 | Z2089_140 | (20) MACSJ0900.5+2054 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 54 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 55 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

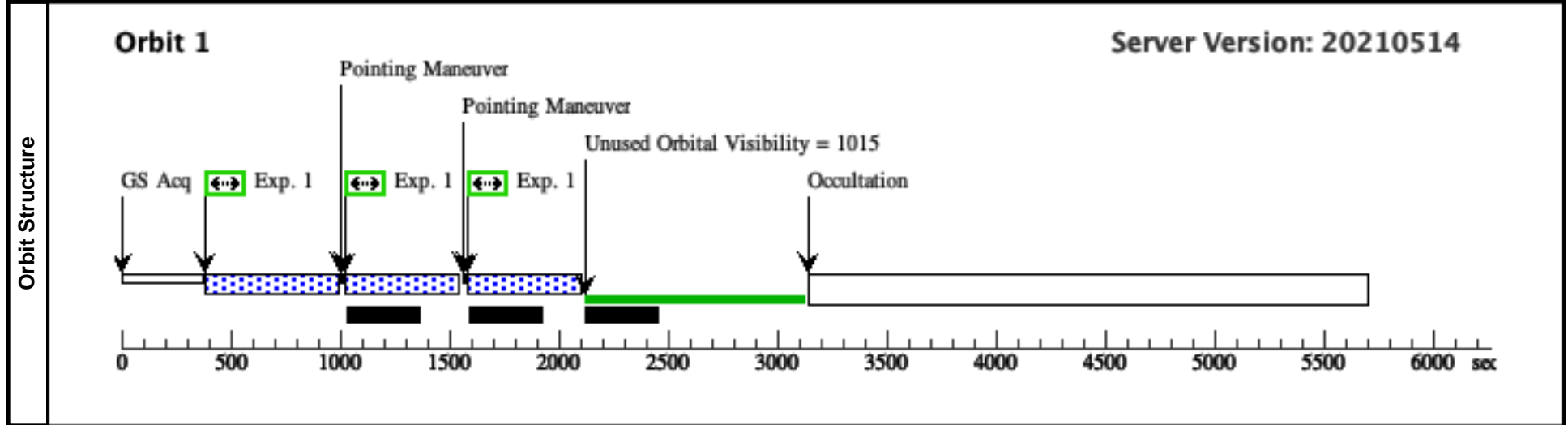
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 55, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (22) | MACSJ1023.6+0411 | RA: 10 23 39.6400 (155.9151667d) Dec: +04 11 10.70 (4.18631d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------|-----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | Z3146_606 | (22) MACSJ1023.6+0411 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 55 (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 56 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 56, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

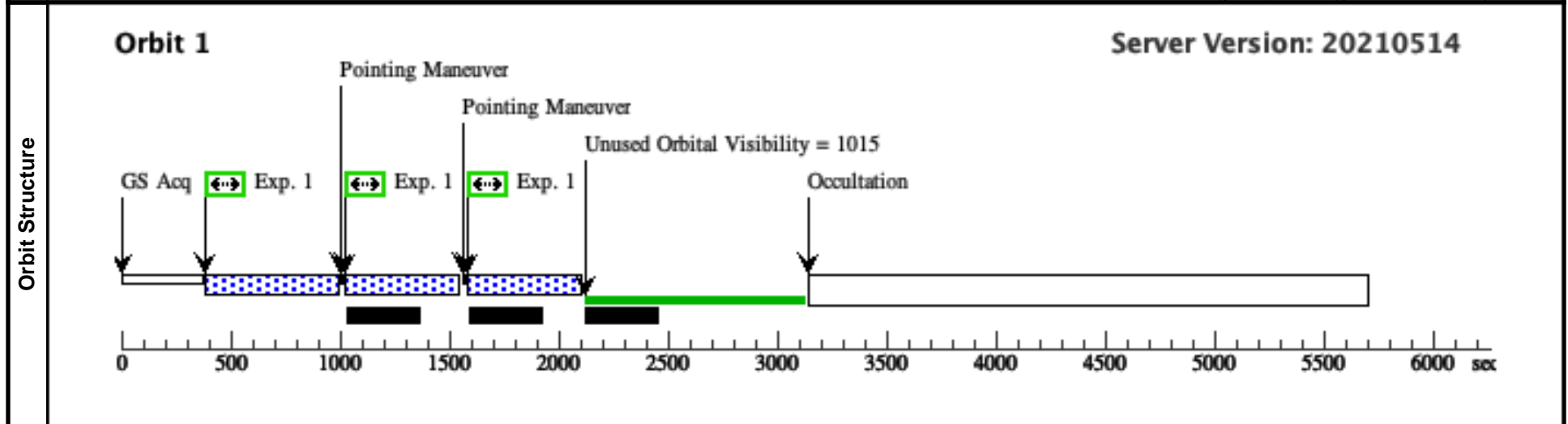
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (22) | MACSJ1023.6+0411 | RA: 10 23 39.6400 (155.9151667d) Dec: +04 11 10.70 (4.18631d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------|-----------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | Z3146_814 | (22) MACSJ1023.6+0411 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 56 (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]



Proposal 16670 - Visit 57 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

| | | | | | | | | | | |
|------------------------|---|------------------|--|--|--------------------------|--------------------------------|---------------|-------------------------------------|--------------------------------------|-------|
| Visit | Proposal 16670, Visit 57, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | | | | | | | | |
| | Patterns | # (2) | Primary Pattern Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | Secondary Pattern | Exposures (1), (2) | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | |
| | (22) | MACSJ1023.6+0411 | RA: 10 23 39.6400 (155.9151667d) Dec: +04 11 10.70 (4.18631d) Equinox: J2000 | | V=19 | Reference Frame: ICRS | | | | |
| | Comments: Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | Z3146_110 | (22) MACSJ1023.6+0411 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 57 (2) | 352.939501 Secs (705.879 Secs) | |
| | | | | | | | | | [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 2 | Z3146_140 | (22) MACSJ1023.6+0411 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 57 (2) | 352.939501 Secs (705.879 Secs) | |
| | | | | | | | | | [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| Orbit Structure | <div style="display: flex; justify-content: space-between;"> Orbit 1 Server Version: 20210514 </div> <p>The diagram illustrates the orbit structure over a 6000-second period. Key events include:</p> <ul style="list-style-type: none"> GS Acq: Ground Station Acquisition at approximately 0 seconds. Exp. 1: Two exposure periods, each approximately 100 seconds long, occurring between 400 and 1000 seconds. Exp. 2: Two exposure periods, each approximately 100 seconds long, occurring between 1200 and 1800 seconds. Pointing Maneuver: Three pointing maneuvers are indicated by vertical arrows at approximately 700, 1100, and 1500 seconds. Reconfig: A reconfiguration period is shown as a green bar between approximately 2000 and 3000 seconds. Unused Orbital Visibility = 1098: A period of 1098 seconds of unused orbital visibility is indicated between the reconfiguration and the occultation. Occultation: The occultation period begins at approximately 3100 seconds and continues until the end of the orbit at 6000 seconds. | | | | | | | | | |

Proposal 16670 - Visit 58 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

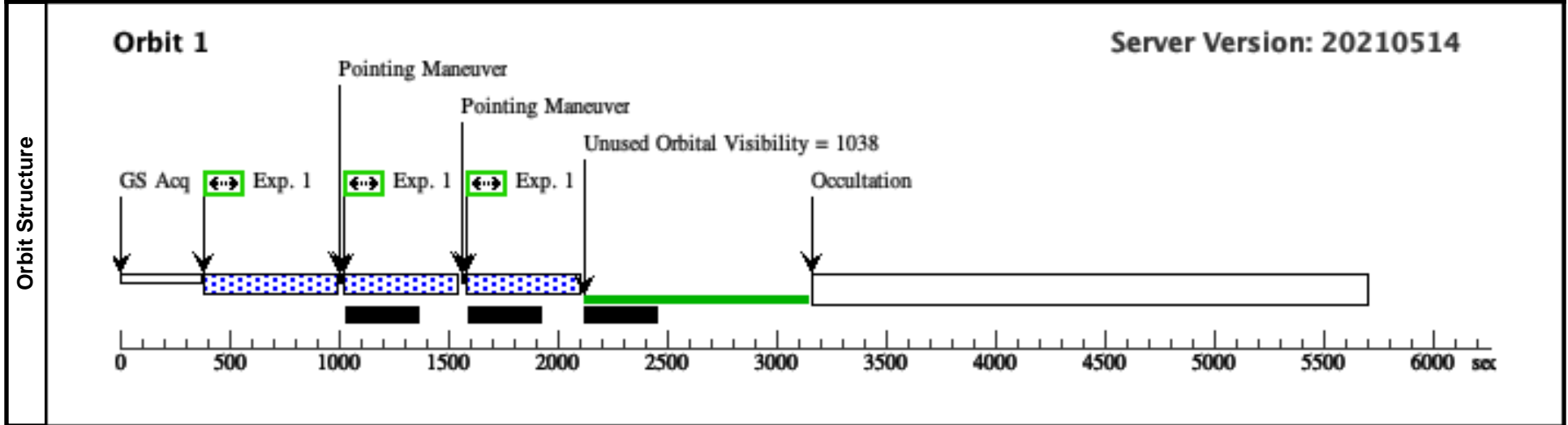
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 58, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (23) | MACSJ1023.8-2715 | RA: 10 23 50.1500 (155.9589583d) Dec: -27 15 23.70 (-27.25658d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1023-27_60 | (23) MACSJ1023.8-2715 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 58 (1) | 400 Secs (1200 Secs) |
| 6 | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 59 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

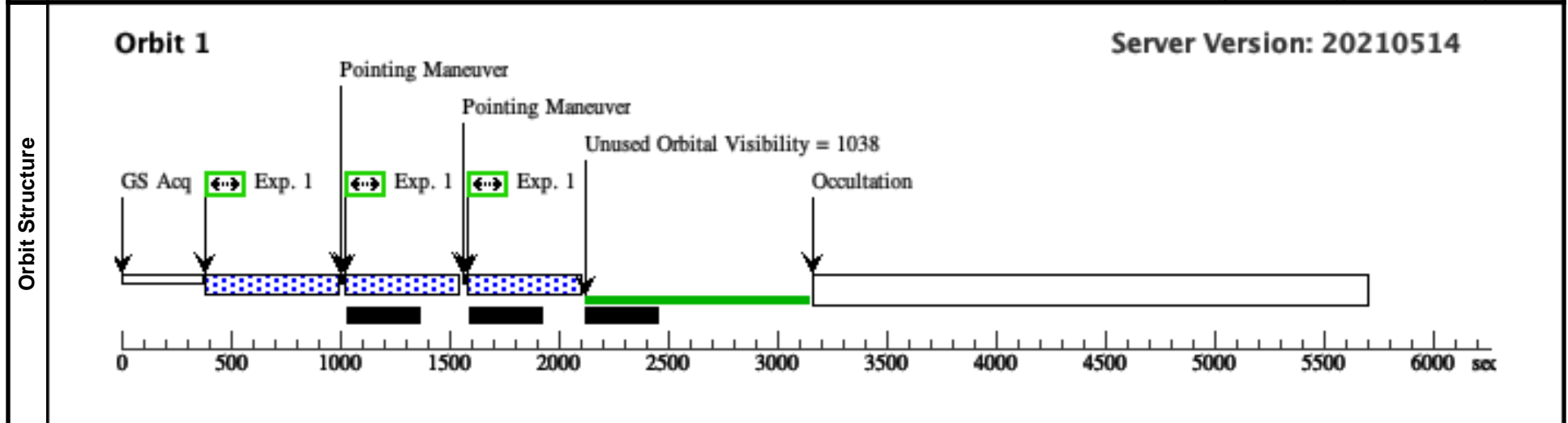
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 59, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (23) | MACSJ1023.8-2715 | RA: 10 23 50.1500 (155.9589583d) Dec: -27 15 23.70 (-27.25658d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|-----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1023-27_81 4 | (23) MACSJ1023.8-2715 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 59 (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 60 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

| | | | | | | | | | | |
|------------------------|---|------------------|--|--|--------------------------|--------------------------------|---------------|-------------------------------------|------------------------------------|-------|
| Visit | Proposal 16670, Visit 60, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | | | | | | | | |
| | Patterns | # (2) | Primary Pattern Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | Secondary Pattern | Exposures (1), (2) | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | |
| | (23) | MACSJ1023.8-2715 | RA: 10 23 50.1500 (155.9589583d) Dec: -27 15 23.70 (-27.25658d) Equinox: J2000 | | V=19 | Reference Frame: ICRS | | | | |
| | Comments: Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | 1023-27_11_0 | (23) MACSJ1023.8-2715 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 60 (2) | 352.939501 Secs (705.879 Secs) | |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] | [1] |
| | 2 | 1023-27_14_0 | (23) MACSJ1023.8-2715 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 60 (2) | 352.939501 Secs (705.879 Secs) | |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] | [1] |
| Orbit Structure | <div style="display: flex; justify-content: space-between;"> Orbit 1 Server Version: 20210514 </div> <p>The diagram illustrates the orbit structure over a 6000-second period. Key events include:</p> <ul style="list-style-type: none"> GS Acq: Ground Station Acquisition at approximately 0 seconds. Exp. 1: Two exposure periods, each approximately 100 seconds long, occurring between 400 and 1000 seconds. Exp. 2: Two exposure periods, each approximately 100 seconds long, occurring between 1200 and 1800 seconds. Pointing Maneuver: Three maneuver periods, each approximately 100 seconds long, occurring between 800 and 1600 seconds. Reconfig: A reconfiguration period of approximately 100 seconds occurring at 2000 seconds. Unused Orbital Visibility = 1121: A period of approximately 1121 seconds of unused orbital visibility, highlighted in green, occurring between 2000 and 3121 seconds. Occultation: A period of approximately 2500 seconds of occultation, occurring between 3121 and 5621 seconds. | | | | | | | | | |

Proposal 16670 - Visit 61 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

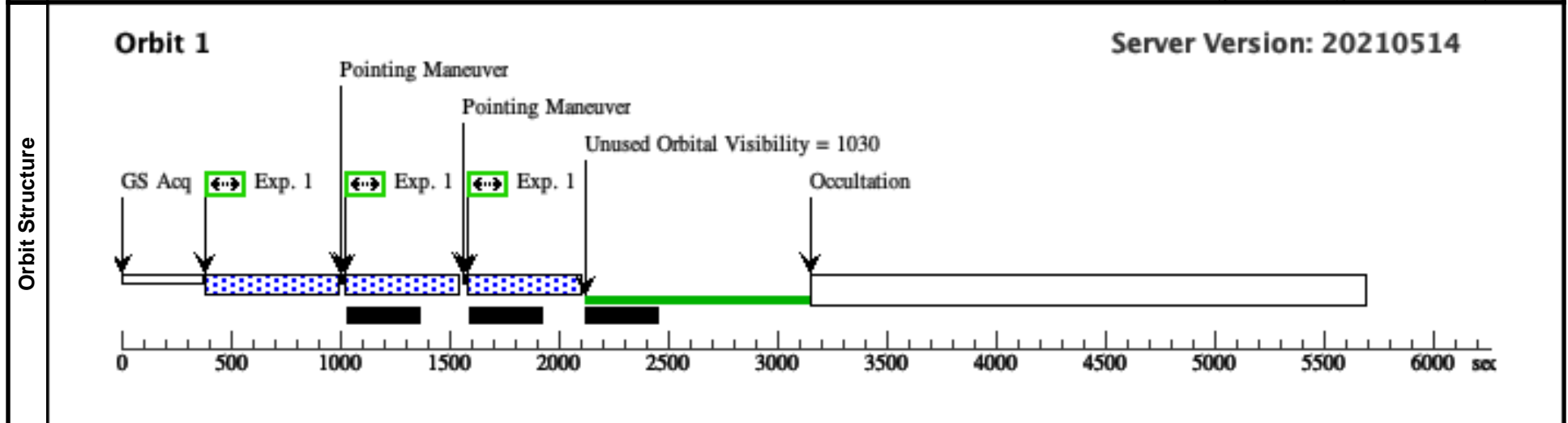
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 61, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (24) | MACSJ1201.2+2306 | RA: 12 01 16.7400 (180.3197500d) Dec: +23 06 32.80 (23.10911d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
Category=CLUSTER OF GALAXIES
Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|---------------------------|----------------------|---------------|--------------|---------------|--------|---|---|
| | 1 | 1201+23_60 6 | (24) MACSJ1201.2+ 2306 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 i n Visit 61 (1) | 400 Secs (1200 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] |



Proposal 16670 - Visit 62 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

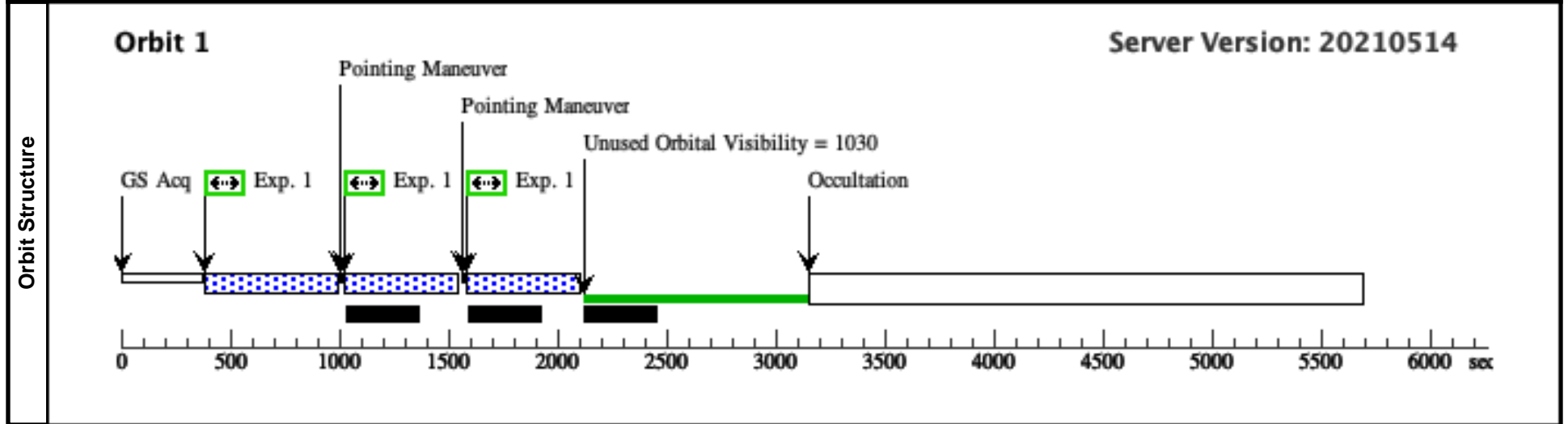
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 62, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (24) | MACSJ1201.2+2306 | RA: 12 01 16.7400 (180.3197500d) Dec: +23 06 32.80 (23.10911d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|---------------------------|----------------------|---------------|--------------|---------------|--------|---|---|
| | 1 | 1201+23_81 4 | (24) MACSJ1201.2+ 2306 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 i n Visit 62 (1) | 400 Secs (1200 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] |



Proposal 16670 - Visit 63 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

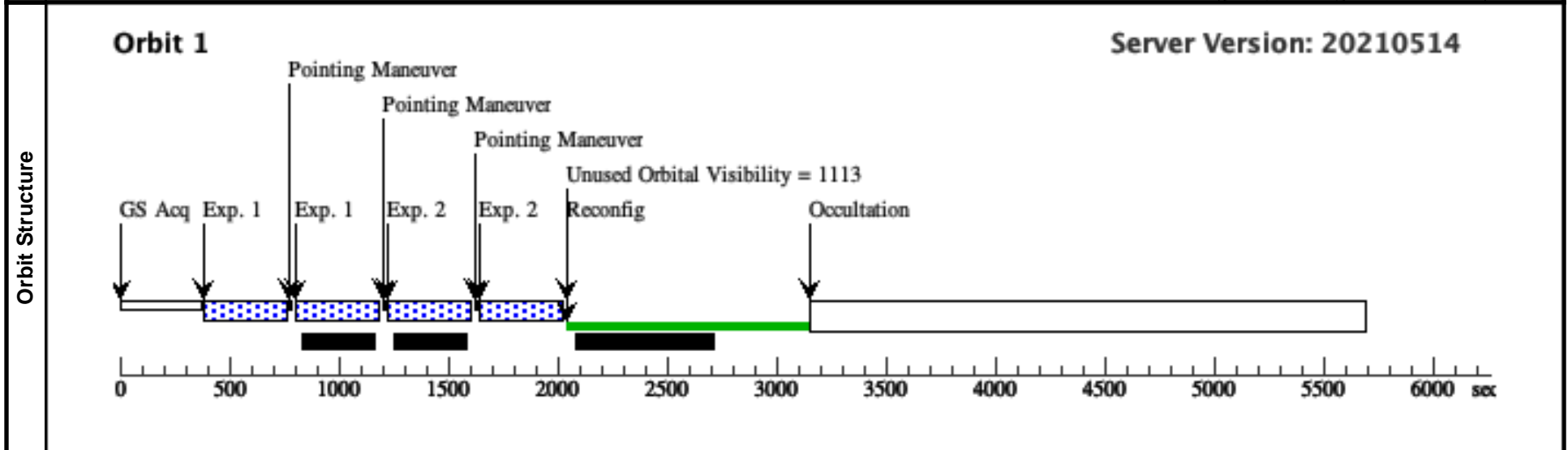
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 63, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (24) | MACSJ1201.2+2306 | RA: 12 01 16.7400 (180.3197500d) Dec: +23 06 32.80 (23.10911d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-----------------|---------------------------|---------------------------|-------------------------|-----------------------------------|-----------------------------------|---|---|---------------------------------|-------|
| | 1 | 1201+23_11 0 | (24) MACSJ1201.2+ 2306 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 i n Visit 63 (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | 1201+23_14 0 | (24) MACSJ1201.2+ 2306 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 i n Visit 63 (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 64 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

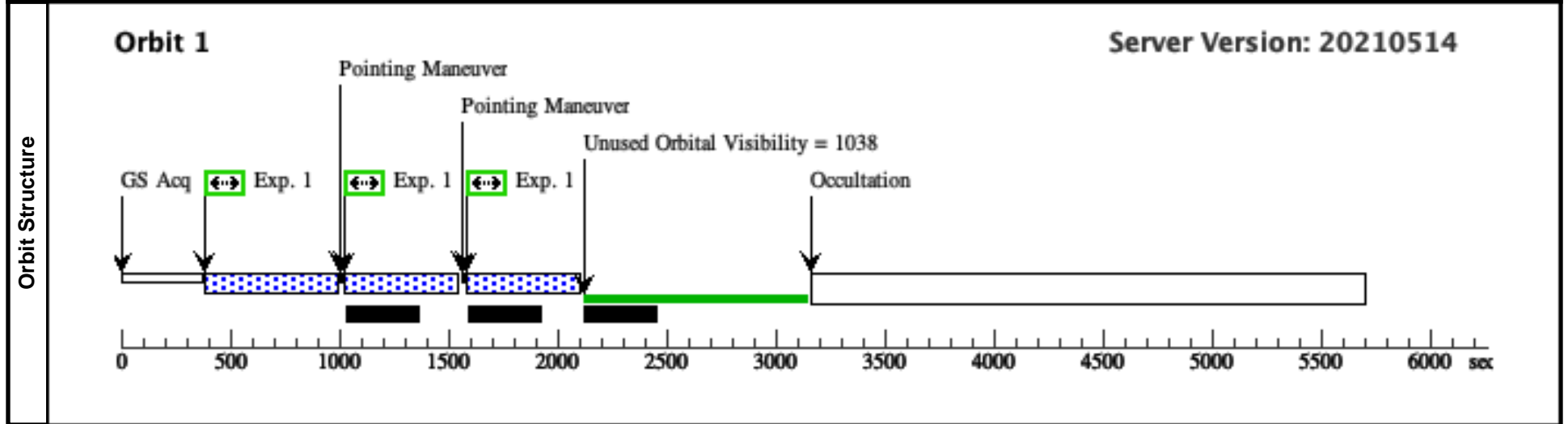
Thu Oct 07 11:02:20 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 64, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|---|-------------------|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | | (1) |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|--|------------------|--|--------------------------|--------|-----------------------|
| | (26) | MACSJ1314.3-2515 | RA: 13 14 27.0600 (198.6127500d) Dec: -25 15 36.10 (-25.26003d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |
| | <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-----------------------|----------------------|---------------|--------------|---------------|-------------------------------------|---|-------|
| | 1 | 1314-25_60 | (26) MACSJ1314.3-2515 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | Pattern 1, Exps 1-1 in Visit 64 (1) | 400 Secs (1200 Secs) | |
| | 6 | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 65 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

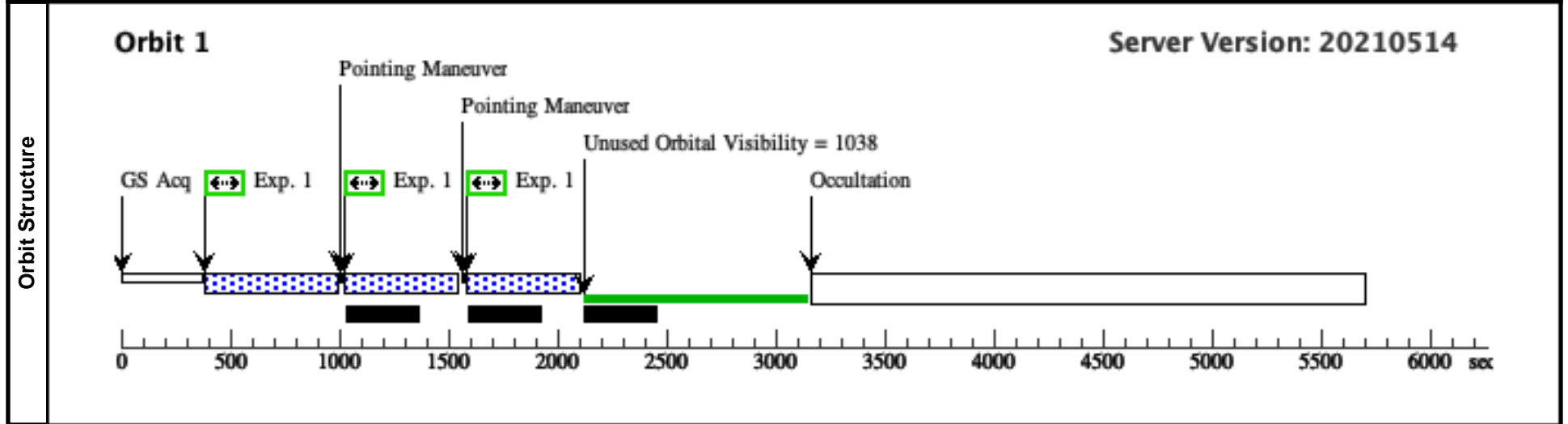
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 65, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (26) | MACSJ1314.3-2515 | RA: 13 14 27.0600 (198.6127500d) Dec: -25 15 36.10 (-25.26003d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-------------|-----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1314-25_814 | (26) MACSJ1314.3-2515 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 65 (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 66 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

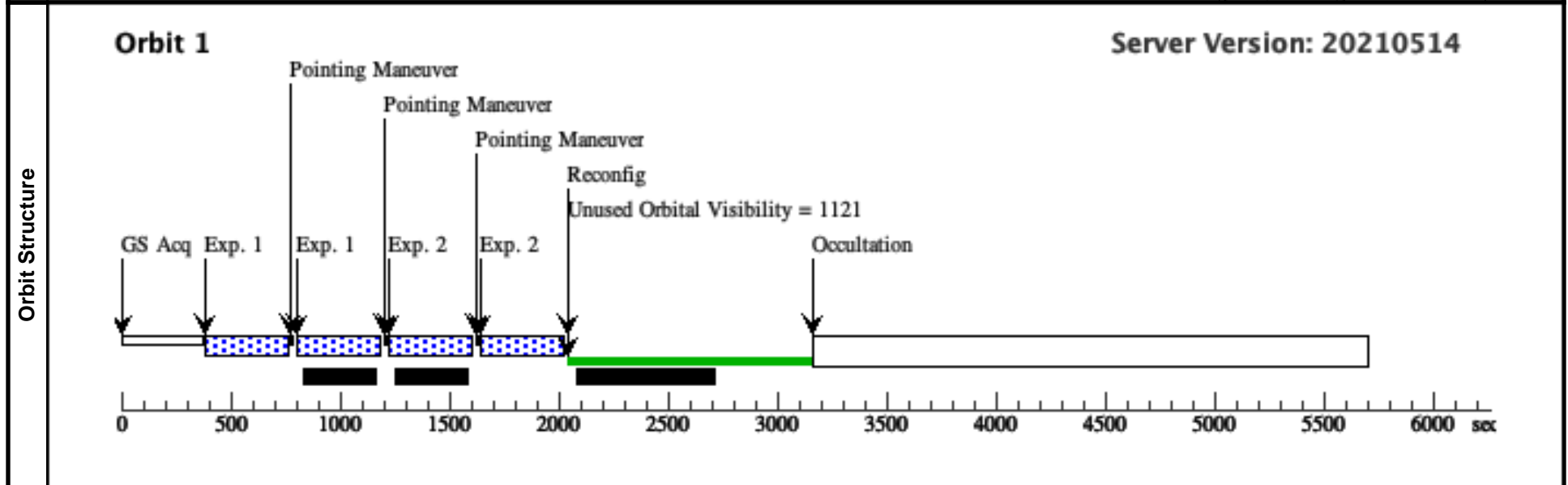
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 66, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
|--------------|--|--|--|

| | | | | |
|-----------------|----------|--|--------------------------|------------------|
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | | (1), (2) |

| | | | | | | |
|----------------------|----------|------------------|--|---------------------------------|---------------|-----------------------|
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
| | (26) | MACSJ1314.3-2515 | RA: 13 14 27.0600 (198.6127500d) Dec: -25 15 36.10 (-25.26003d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|--------------|-----------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|---------------|-------------------------------------|--|--|
| | 1 | 1314-25_11_0 | (26) MACSJ1314.3-2515 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 1-1 in Visit 66 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] |
| 2 | 1314-25_14_0 | (26) MACSJ1314.3-2515 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 2-2 in Visit 66 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 67 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

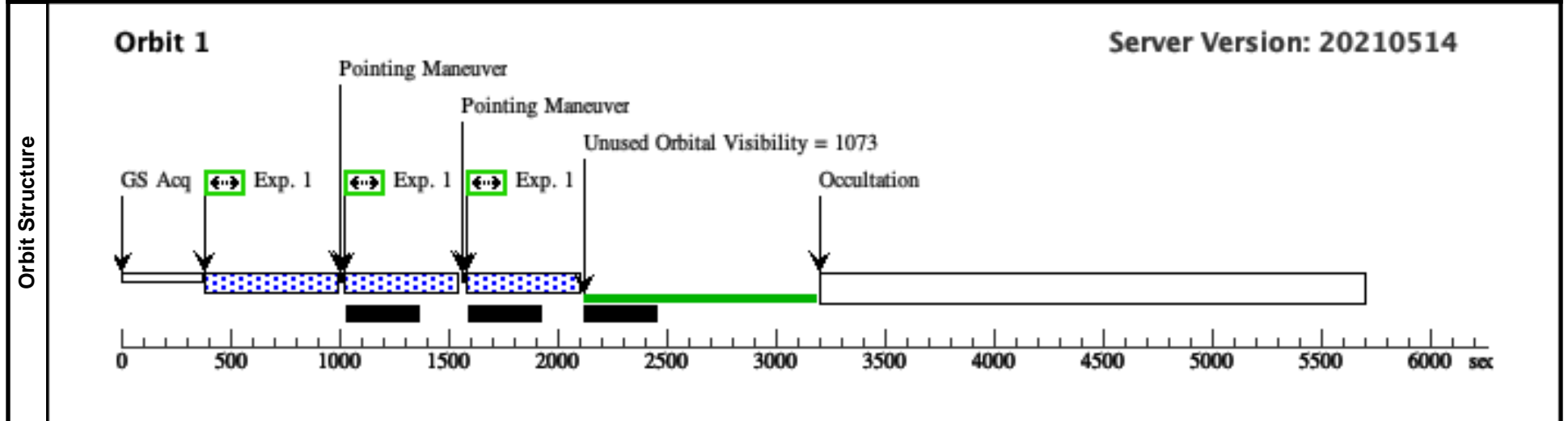
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 67, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (27) | MACSJ1317.2-3821 | RA: 13 17 12.2000 (199.3008333d) Dec: -38 21 54.60 (-38.36517d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|-----------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|---|
| | 1 | 1317-38_60 6 | (27) MACSJ1317.2-3821 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 67 (1) | 400 Secs (1200 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] |



Proposal 16670 - Visit 68 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

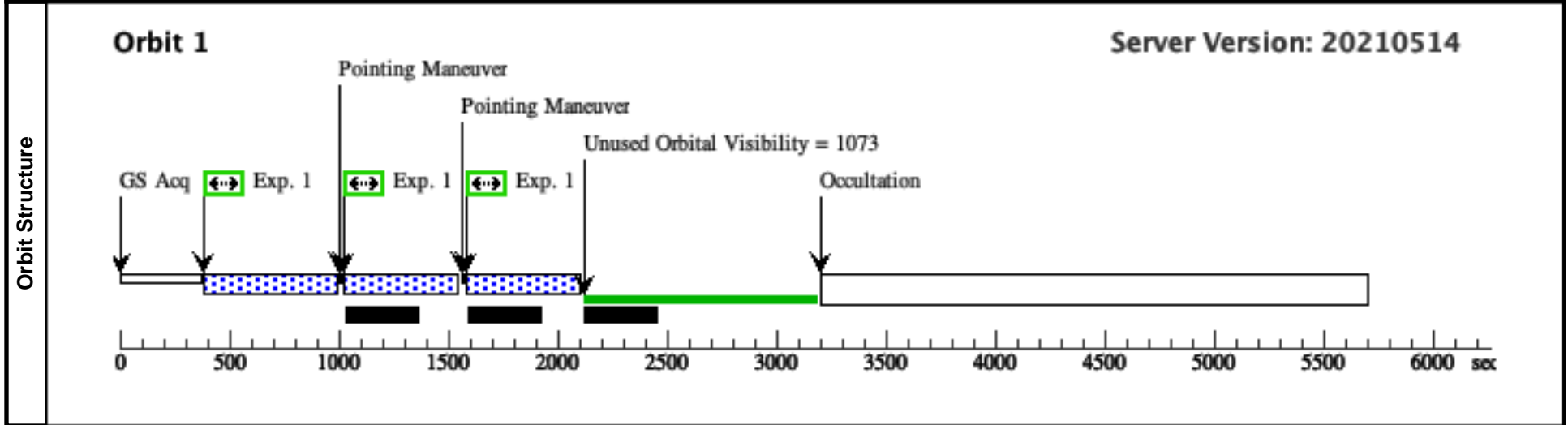
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 68, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (27) | MACSJ1317.2-3821 | RA: 13 17 12.2000 (199.3008333d) Dec: -38 21 54.60 (-38.36517d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|-----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1317-38_81 4 | (27) MACSJ1317.2-3821 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 68 (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 69 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

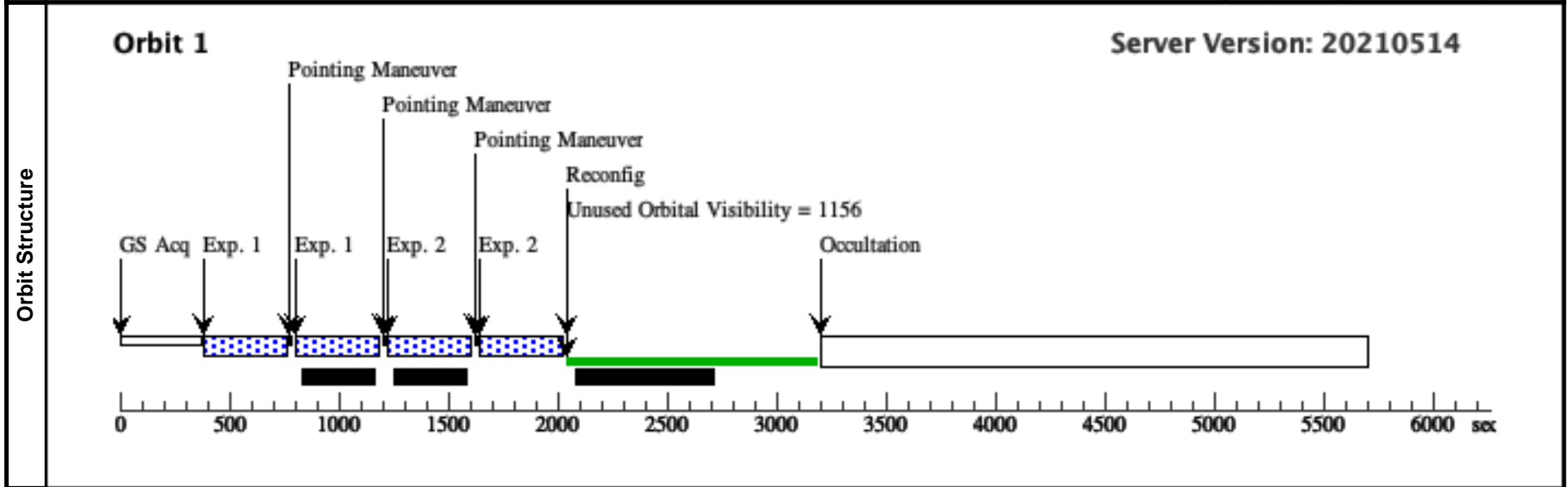
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 69, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
|--------------|--|--|--|

| | | | | |
|-----------------|----------|--|--------------------------|------------------|
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | | (1), (2) |

| | | | | | | |
|----------------------|----------|------------------|--|---------------------------------|---------------|-----------------------|
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
| | (27) | MACSJ1317.2-3821 | RA: 13 17 12.2000 (199.3008333d) Dec: -38 21 54.60 (-38.36517d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
Category=CLUSTER OF GALAXIES
Description=[RICH CLUSTER]

| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|--------------|-----------------------|-------------------------|---------------|--------------------------------|---------------|-------------------------------------|--|-------|
| 1 | 1317-38_11_0 | (27) MACSJ1317.2-3821 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 69 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |
| 2 | 1317-38_14_0 | (27) MACSJ1317.2-3821 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 69 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 70 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

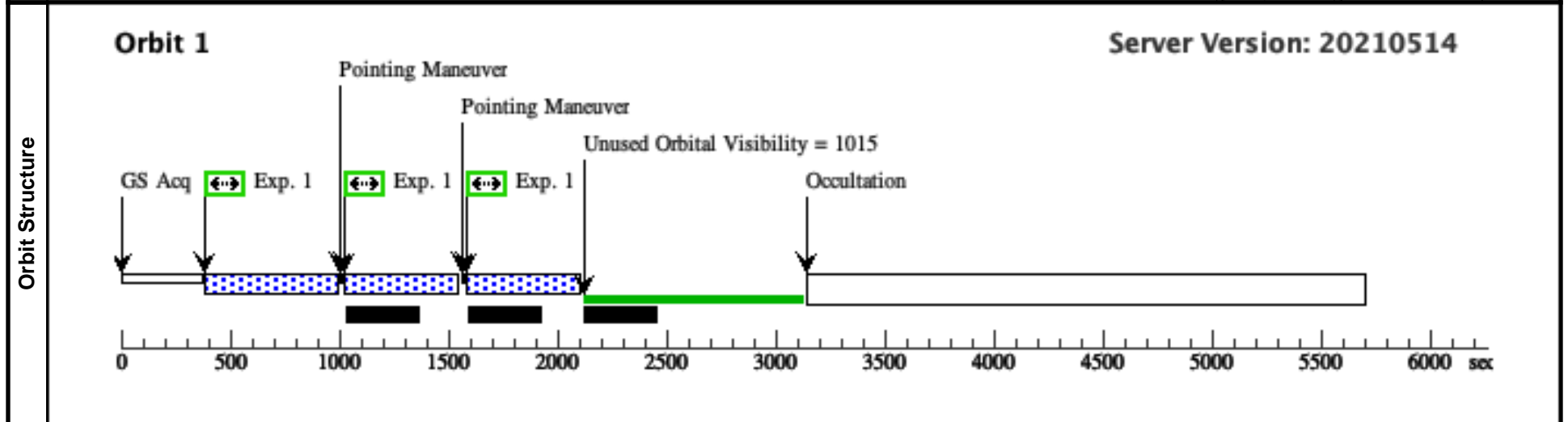
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 70, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (28) | MACSJ1324.3+0419 | RA: 13 24 19.6700 (201.0819583d) Dec: +04 19 7.30 (4.31869d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
Category=CLUSTER OF GALAXIES
Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|---------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1324+04_60 6 | (28) MACSJ1324.3+ 0419 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 i n Visit 70 (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 71 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

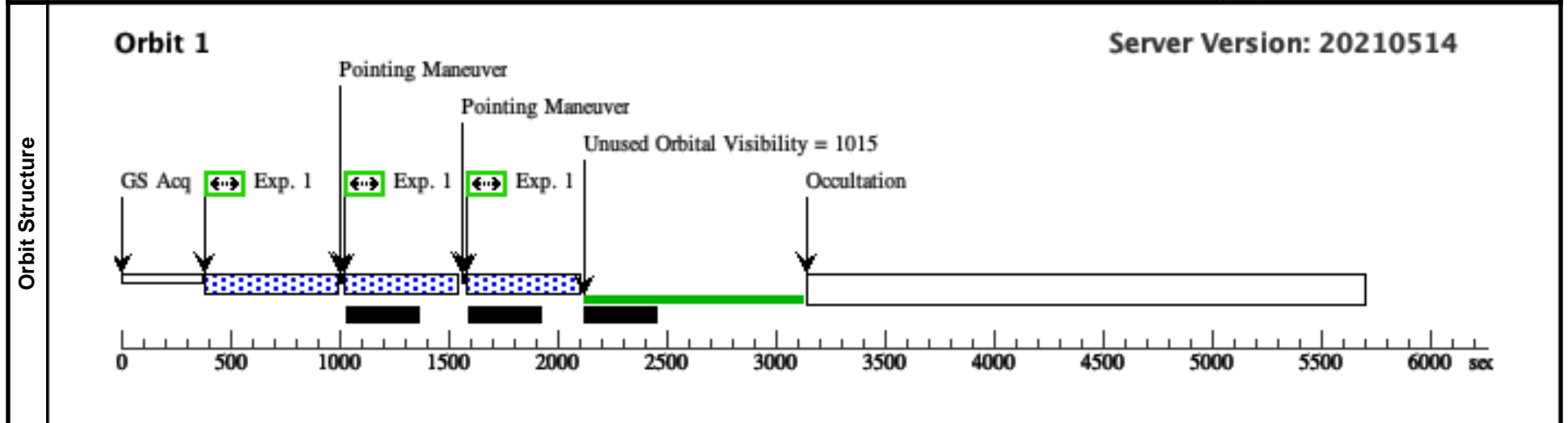
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 71, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (28) | MACSJ1324.3+0419 | RA: 13 24 19.6700 (201.0819583d) Dec: +04 19 7.30 (4.31869d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|---------------------------|----------------------|---------------|--------------|---------------|--------|---|---|
| | 1 | 1324+04_81 4 | (28) MACSJ1324.3+ 0419 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 i n Visit 71 (1) | 400 Secs (1200 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] |



Proposal 16670 - Visit 72 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

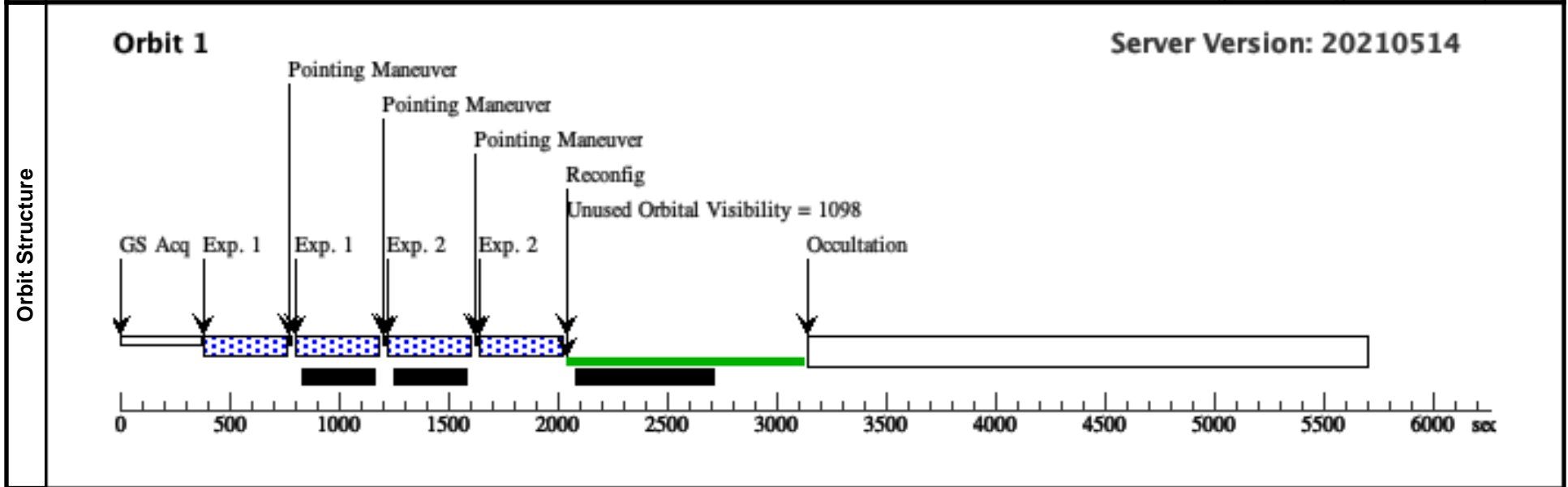
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 72, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (28) | MACSJ1324.3+0419 | RA: 13 24 19.6700 (201.0819583d) Dec: +04 19 7.30 (4.31869d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-----------------|-----------------------|-------------------------|-------------------------|-----------------------------------|-----------------------------------|-------------------------------------|-------------------------------------|---------------------------------|-------|
| | 1 | 1324+04_11 0 | (28) MACSJ1324.3+0419 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 72 (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | 1324+04_14 0 | (28) MACSJ1324.3+0419 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 72 (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 73 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

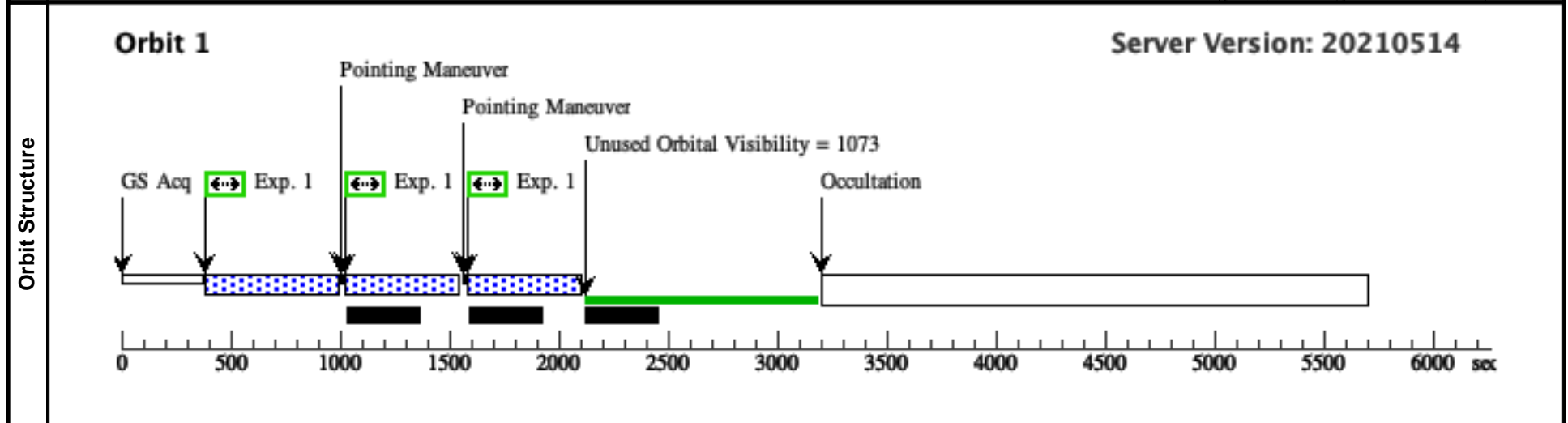
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 73, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (29) | MACSJ1415.1-3926 | RA: 14 15 7.7600 (213.7823333d) Dec: -39 26 54.60 (-39.44850d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|-----------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|---|
| | 1 | 1415-39_60 6 | (29) MACSJ1415.1-3926 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 73 (1) | 400 Secs (1200 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] |



Proposal 16670 - Visit 74 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:20 GMT 2021

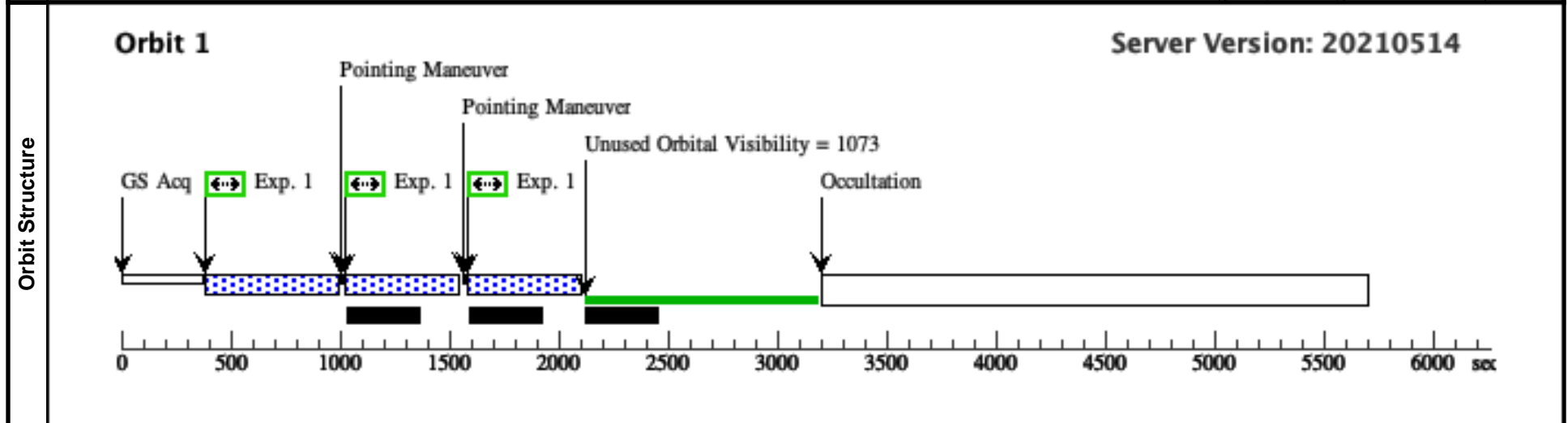
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 74, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (29) | MACSJ1415.1-3926 | RA: 14 15 7.7600 (213.7823333d) Dec: -39 26 54.60 (-39.44850d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
Category=CLUSTER OF GALAXIES
Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|-----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1415-39_81 4 | (29) MACSJ1415.1-3926 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 74 (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 75 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

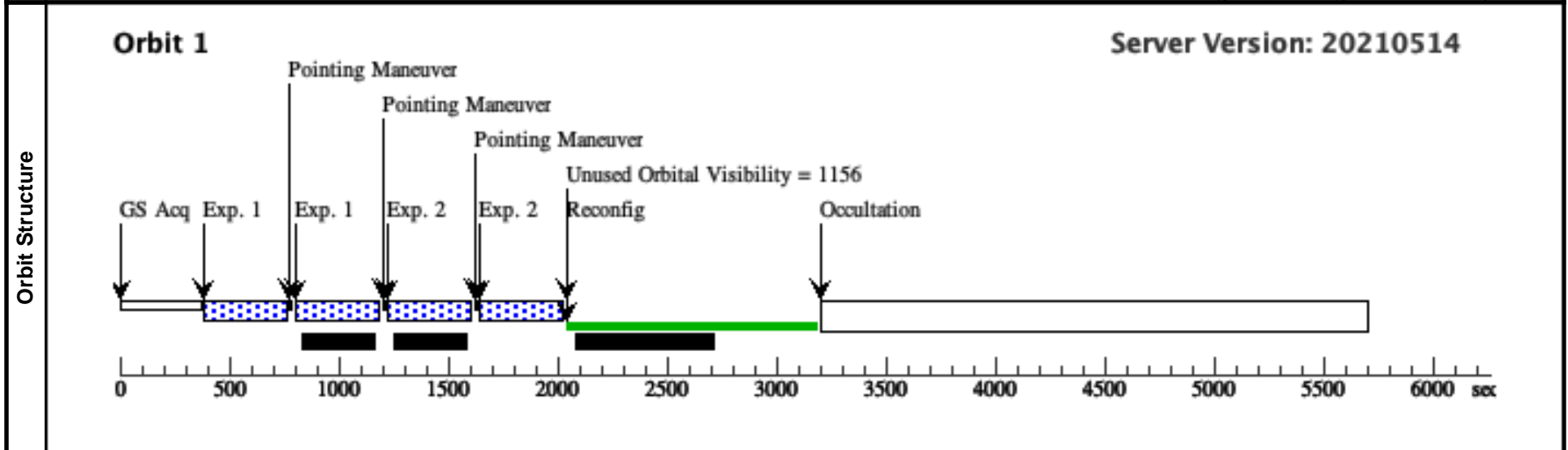
Thu Oct 07 11:02:21 GMT 2021

| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 75, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|---|-----------------|--|-----------|
| | | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|--|------|--------------------|---|--------|---------------|
| | | (29) | MACSJ1415.1-3926 | RA: 14 15 7.7600 (213.7823333d) Dec: -39 26 54.60 (-39.44850d) Equinox: J2000 | | V=19 |
| | <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-------------|-----------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|-------------------------------------|--|--|
| | | 1 | 1415-39_110 | (29) MACSJ1415.1-3926 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 75 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] |
| | 2 | 1415-39_140 | (29) MACSJ1415.1-3926 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 75 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 76 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

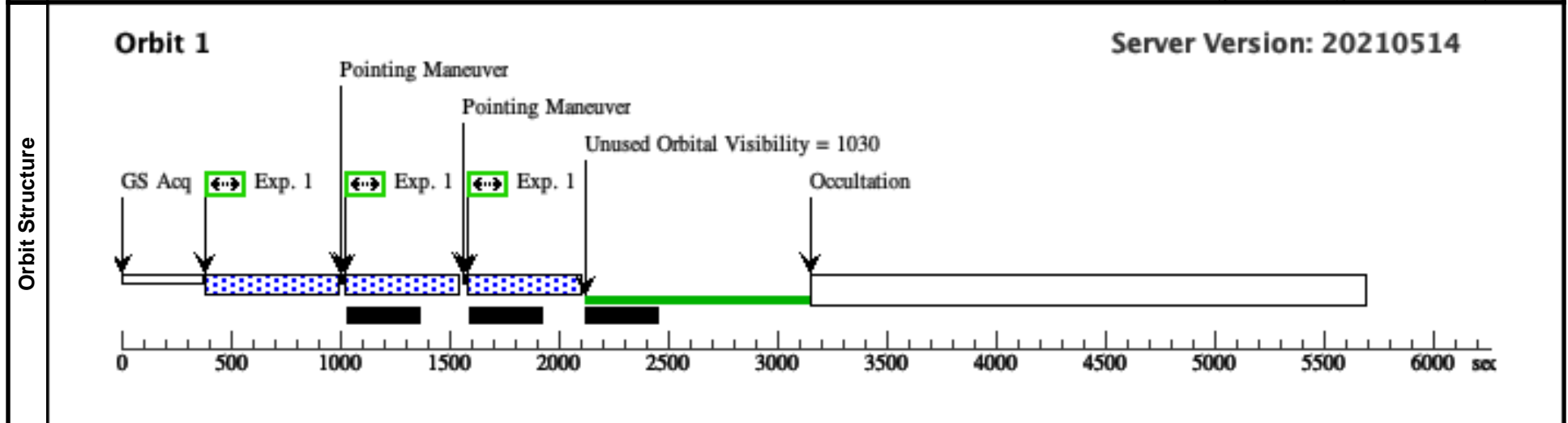
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 76, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (31) | MACSJ1457.2+2220 | RA: 14 57 15.1000 (224.3129167d) Dec: +22 20 34.10 (22.34281d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------|-----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | Z7160_606 | (31) MACSJ1457.2+2220 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 76 (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 77 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

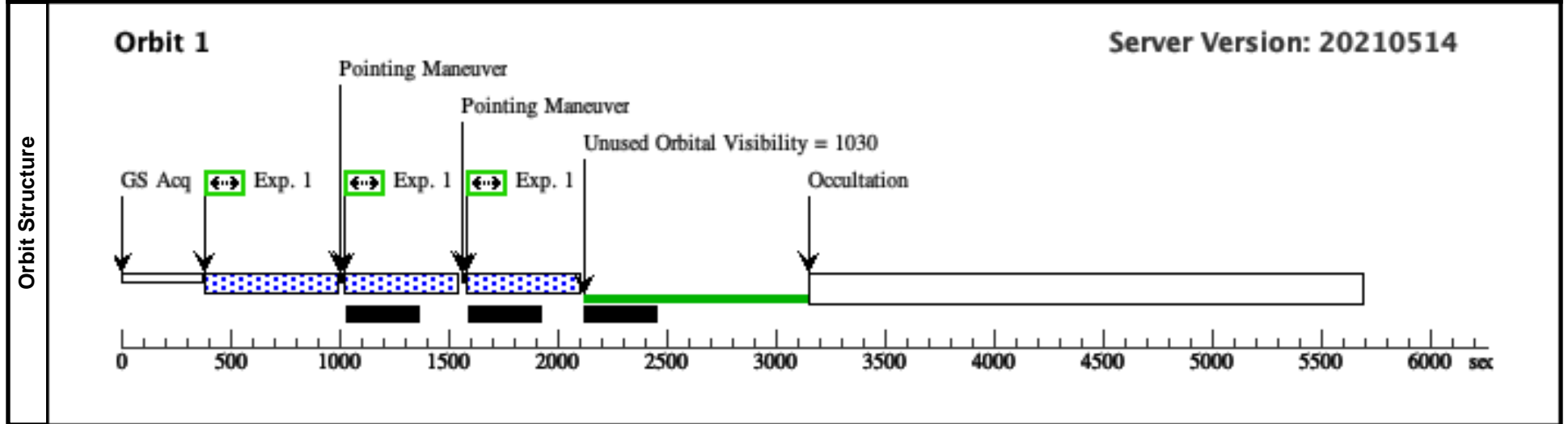
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 77, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (31) | MACSJ1457.2+2220 | RA: 14 57 15.1000 (224.3129167d) Dec: +22 20 34.10 (22.34281d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------|-----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | Z7160_814 | (31) MACSJ1457.2+2220 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 77 (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 78 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

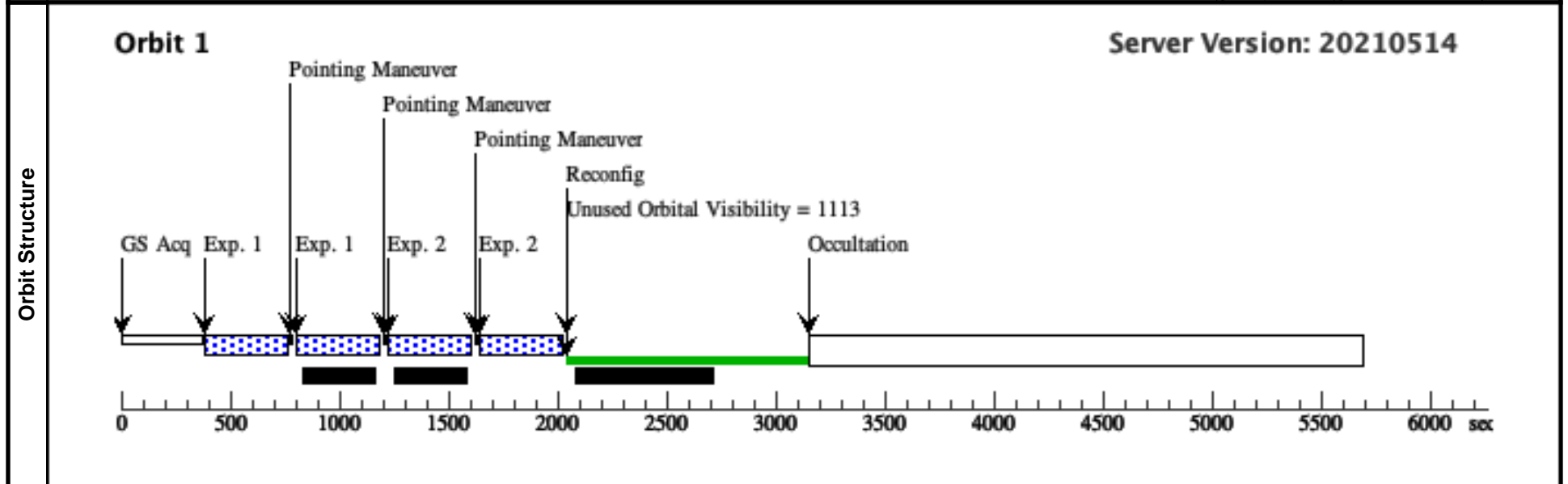
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 78, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (31) | MACSJ1457.2+2220 | RA: 14 57 15.1000 (224.3129167d) Dec: +22 20 34.10 (22.34281d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-----------|-----------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|-------------------------------------|-------------------------------------|---------------------------------|-------|
| | 1 | Z7160_110 | (31) MACSJ1457.2+2220 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 78 (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | Z7160_140 | (31) MACSJ1457.2+2220 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 78 (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 79 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

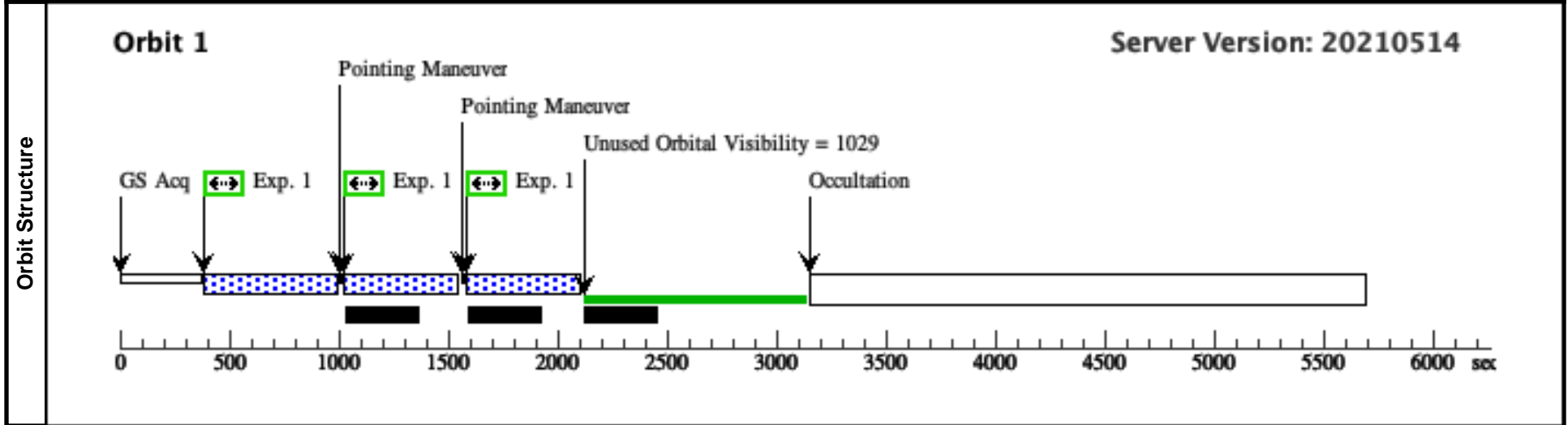
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 79, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (32) | MACSJ1459.4-1810 | RA: 14 59 28.6900 (224.8695417d) Dec: -18 10 45.40 (-18.17928d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1459-18_60 | (32) MACSJ1459.4-1810 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 79 (1) | 400 Secs (1200 Secs) |
| 6 | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 80 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 80, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

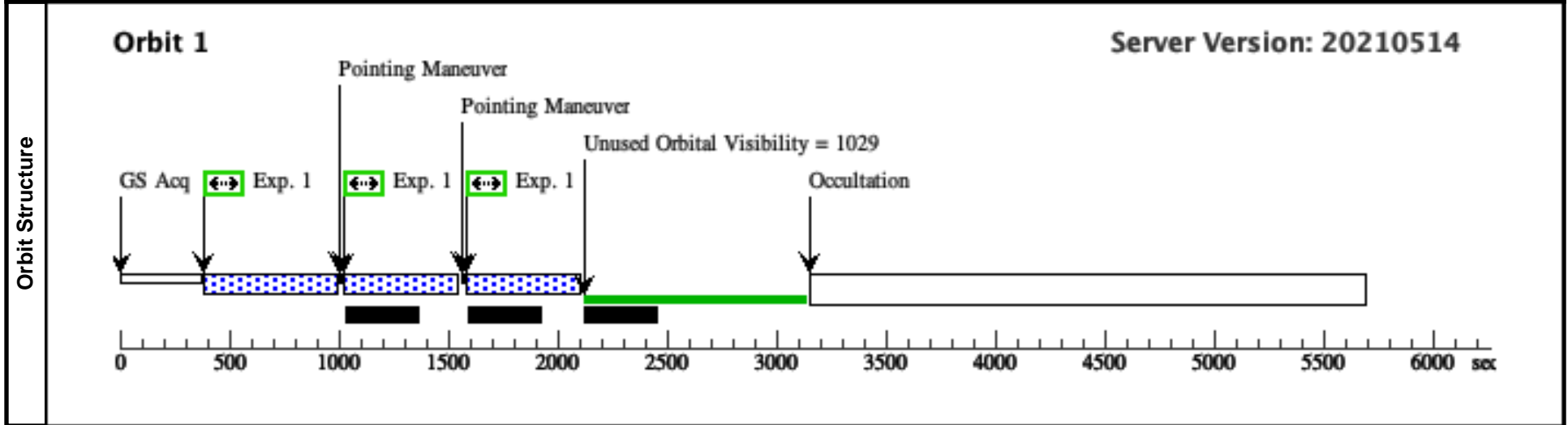
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (32) | MACSJ1459.4-1810 | RA: 14 59 28.6900 (224.8695417d) Dec: -18 10 45.40 (-18.17928d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|-----------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | 1459-18_81 4 | (32) MACSJ1459.4-1810 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 80 (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]



Proposal 16670 - Visit 81 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

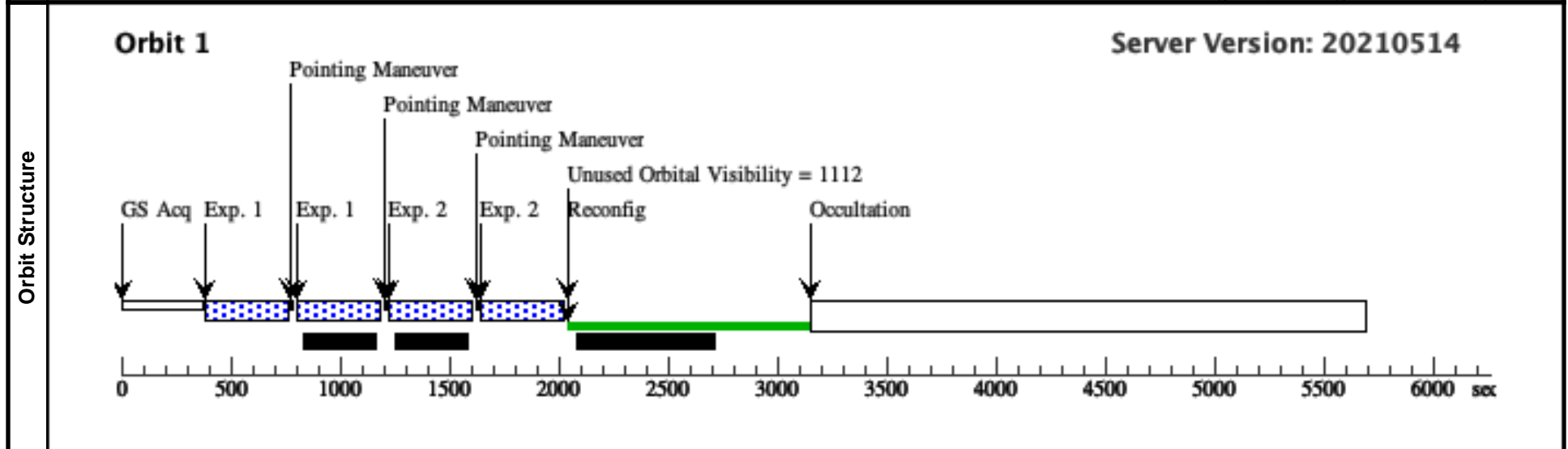
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 81, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (32) | MACSJ1459.4-1810 | RA: 14 59 28.6900 (224.8695417d) Dec: -18 10 45.40 (-18.17928d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-------------|-----------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|---------------|-------------------------------------|--|--|
| | 1 | 1459-18_110 | (32) MACSJ1459.4-1810 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 1-1 in Visit 81 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] |
| 2 | 1459-18_140 | (32) MACSJ1459.4-1810 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 2-2 in Visit 81 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 82 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

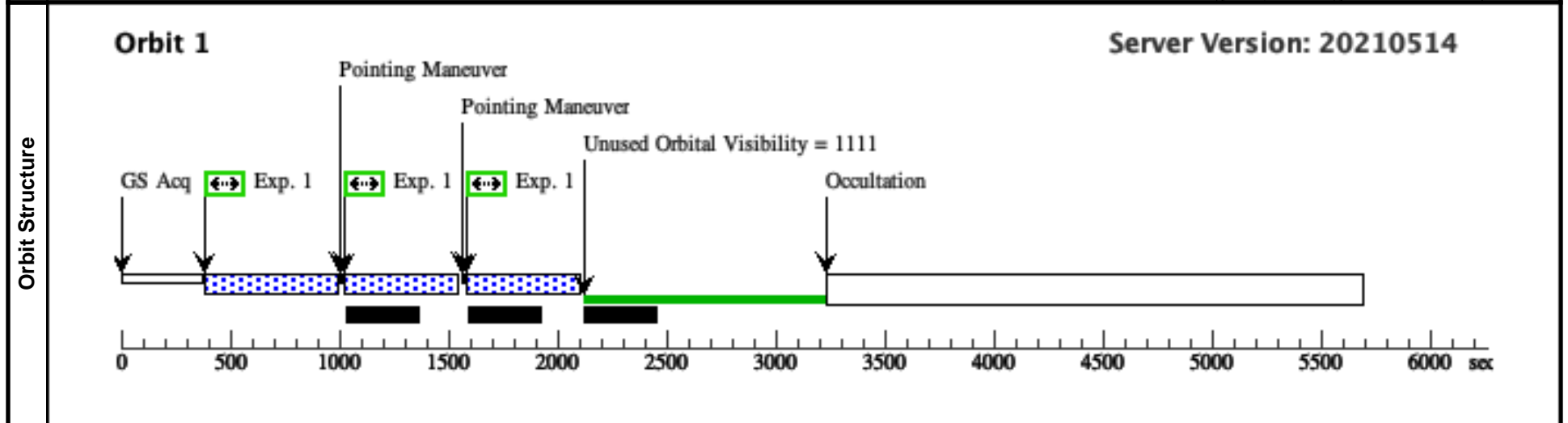
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 82, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (33) | MACSJ1501.3+4221 | RA: 15 01 23.0300 (225.3459583d) Dec: +42 20 40.10 (42.34447d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|---------------------------|----------------------|---------------|--------------|---------------|--------|---|---|
| | 1 | 1501+42_60 6 | (33) MACSJ1501.3+ 4221 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 i n Visit 82 (1) | 400 Secs (1200 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] |



Proposal 16670 - Visit 83 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

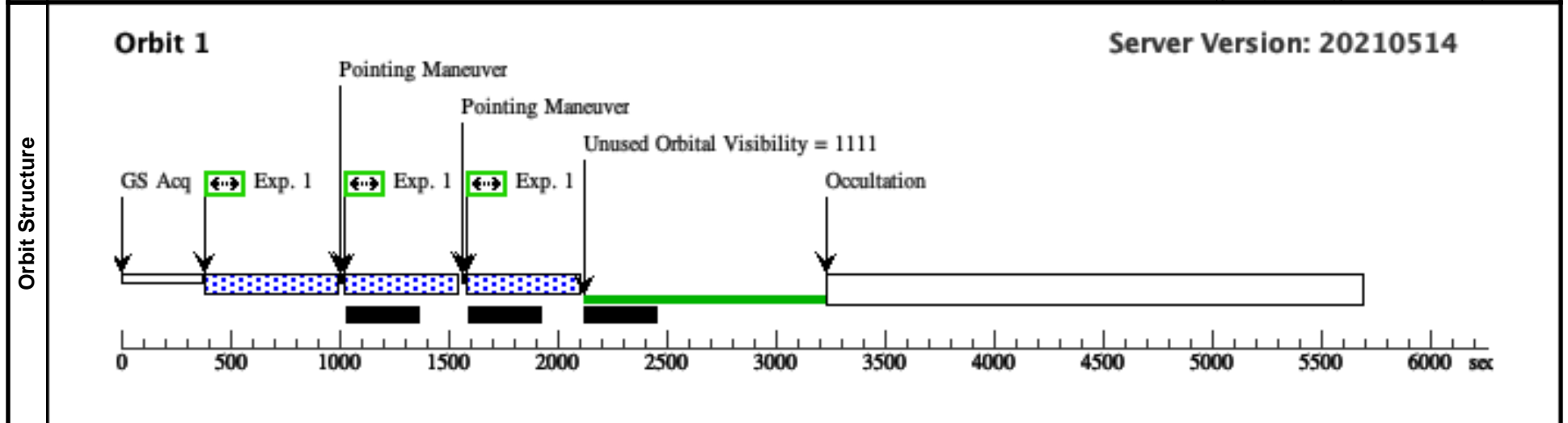
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 83, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (33) | MACSJ1501.3+4221 | RA: 15 01 23.0300 (225.3459583d) Dec: +42 20 40.10 (42.34447d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|---------------------------|----------------------|---------------|--------------|---------------|--------|---|---|
| | 1 | 1501+42_81 4 | (33) MACSJ1501.3+ 4221 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 i n Visit 83 (1) | 400 Secs (1200 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] |



Proposal 16670 - Visit 84 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

| Visit | Proposal 16670, Visit 84, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | | | | | | | | |
|-----------------|--|--|--|--------------------------|---------------|-----------------------------------|---------------|---|--|-------|
| | Patterns | # | Primary Pattern | Secondary Pattern | Exposures | | | | | |
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | | (1), (2) | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | |
| | (33) | MACSJ1501.3+4221 | RA: 15 01 23.0300 (225.3459583d) Dec: +42 20 40.10 (42.34447d) Equinox: J2000 | | V=19 | Reference Frame: ICRS | | | | |
| | <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | 1501+42_11 0 | (33) MACSJ1501.3+ 4221 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 i n Visit 84 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |
| | 2 | 1501+42_14 0 | (33) MACSJ1501.3+ 4221 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 i n Visit 84 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |
| Orbit Structure | <div style="display: flex; justify-content: space-between;"> Orbit 1 Server Version: 20210514 </div> <p>The diagram shows a timeline from 0 to 6000 seconds. Key events include: GS Acq at ~100s, Exp. 1 at ~400s, Exp. 1 at ~800s, Exp. 2 at ~1200s, Exp. 2 at ~1600s, Reconfig at ~2000s, and Occultation starting at ~3200s. Pointing maneuvers are indicated between exposures. A green bar highlights the period from ~2000s to ~3200s, labeled 'Unused Orbital Visibility = 1194'. Black bars below the timeline indicate occultation periods.</p> | | | | | | | | | |

Proposal 16670 - Visit 85 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

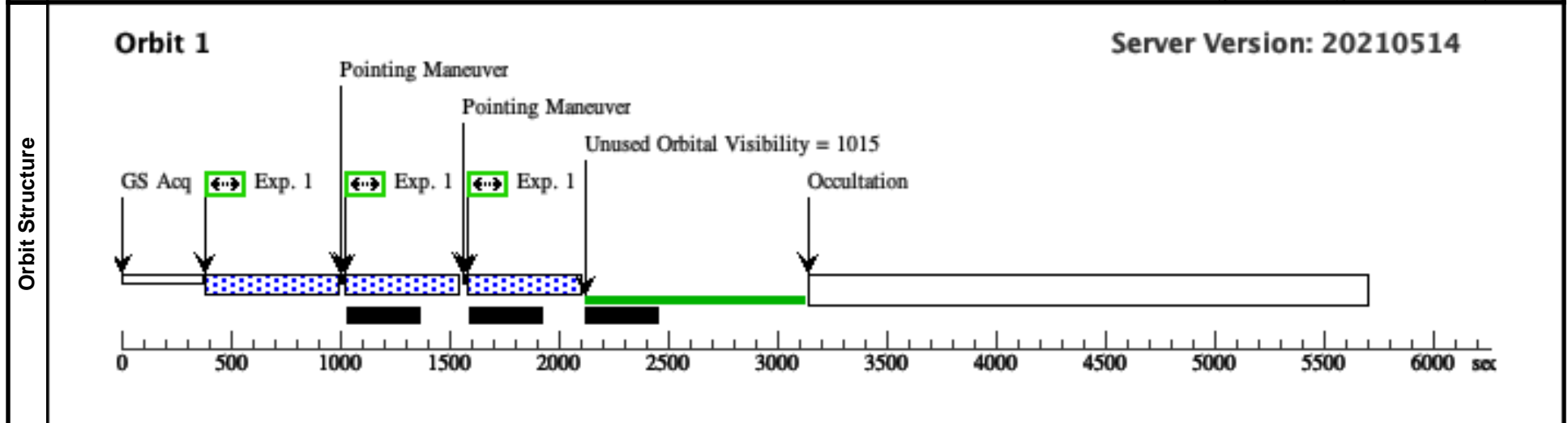
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 85, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (34) | MACSJ1504.1-0248 | RA: 15 04 7.4500 (226.0310417d) Dec: -02 48 17.10 (-2.80475d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1504-02_60 | (34) MACSJ1504.1-0248 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 85 (1) | 400 Secs (1200 Secs) |
| | 6 | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 86 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

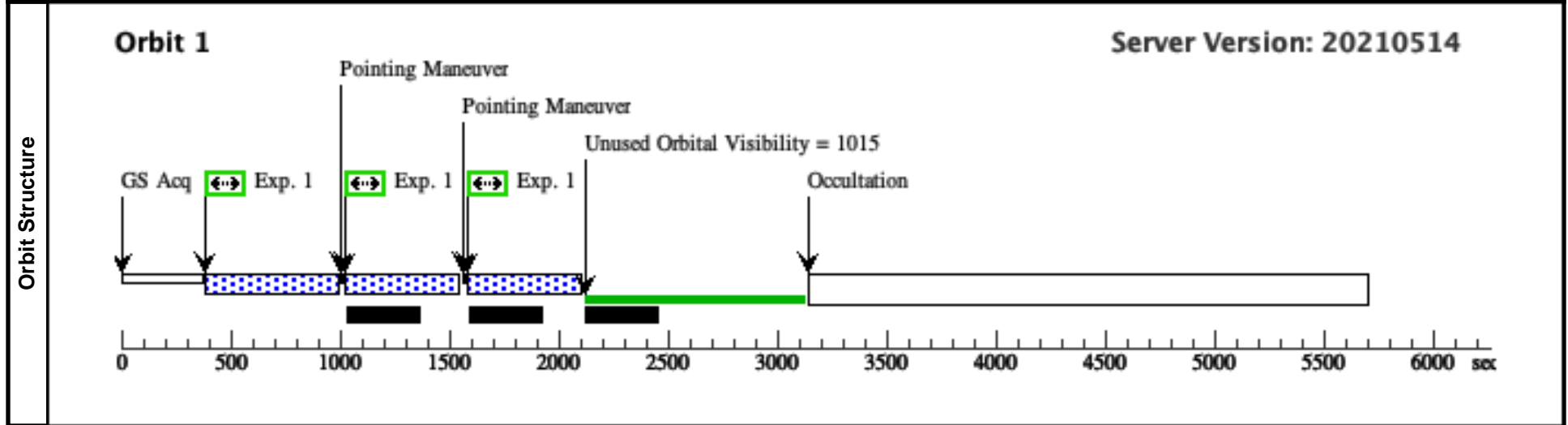
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 86, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (34) | MACSJ1504.1-0248 | RA: 15 04 7.4500 (226.0310417d) Dec: -02 48 17.10 (-2.80475d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-------------|-----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1504-02_814 | (34) MACSJ1504.1-0248 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 86 (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 87 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

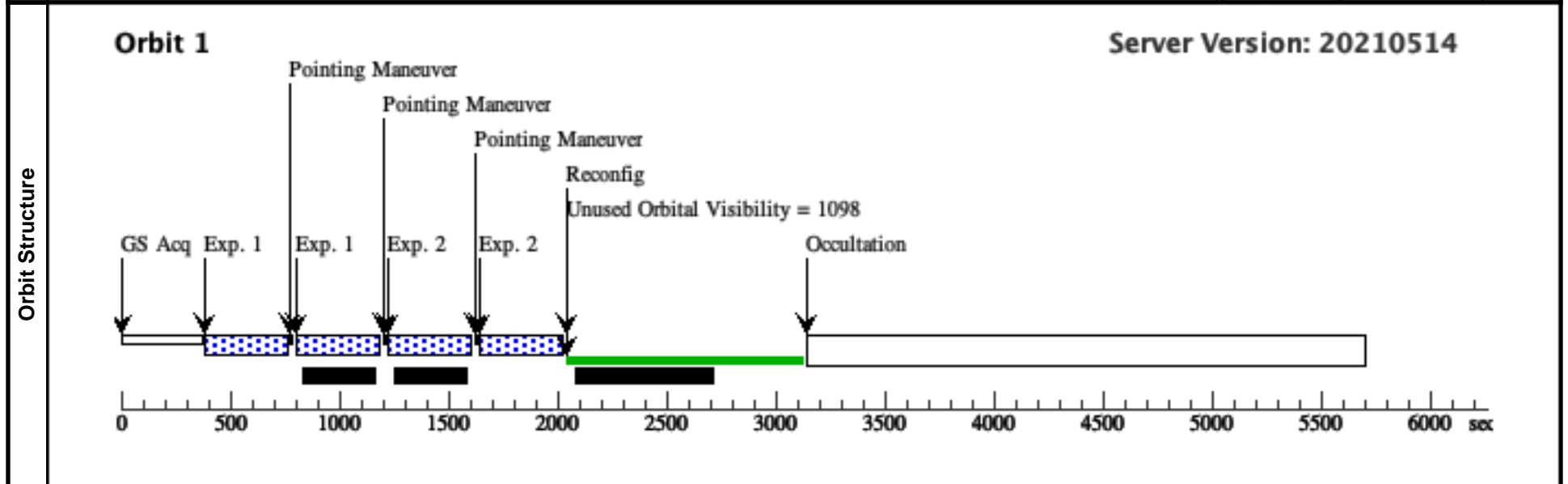
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 87, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (34) | MACSJ1504.1-0248 | RA: 15 04 7.4500 (226.0310417d) Dec: -02 48 17.10 (-2.80475d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-------------|-----------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|-------------------------------------|-------------------------------------|---------------------------------|-------|
| | 1 | 1504-02_110 | (34) MACSJ1504.1-0248 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 87 (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | 1504-02_140 | (34) MACSJ1504.1-0248 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 87 (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 88 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

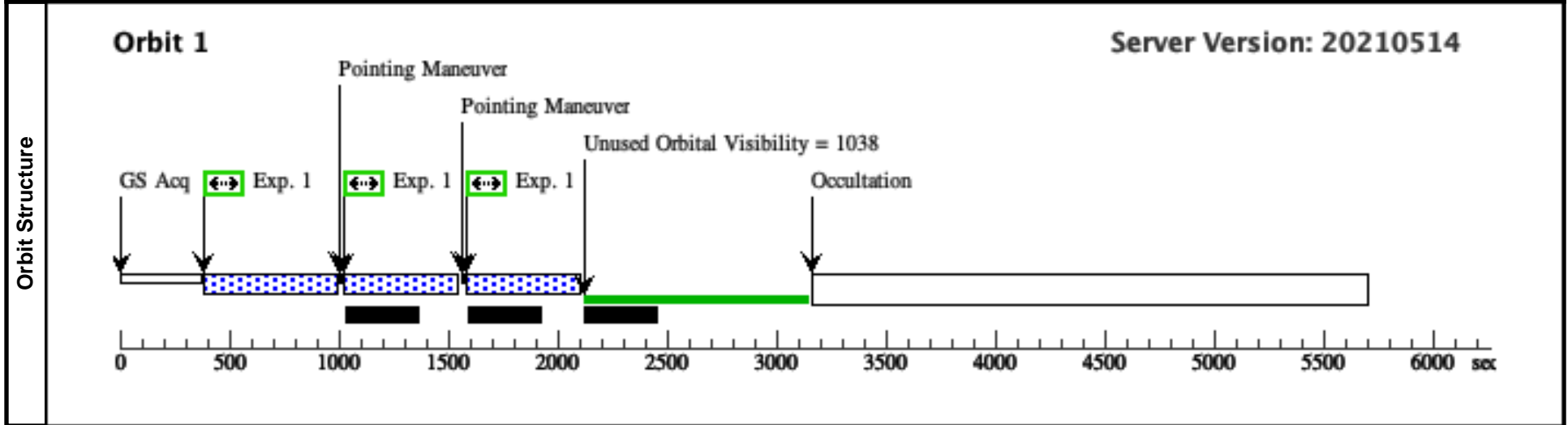
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 88, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (37) | MACSJ1717.1+2931 | RA: 17 17 6.8600 (259.2785833d) Dec: +29 31 21.00 (29.52250d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|---------------------------|----------------------|---------------|--------------|---------------|--------|---|---|
| | 1 | 1717+29_60 6 | (37) MACSJ1717.1+ 2931 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 i n Visit 88 (1) | 400 Secs (1200 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] |



Proposal 16670 - Visit 89 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

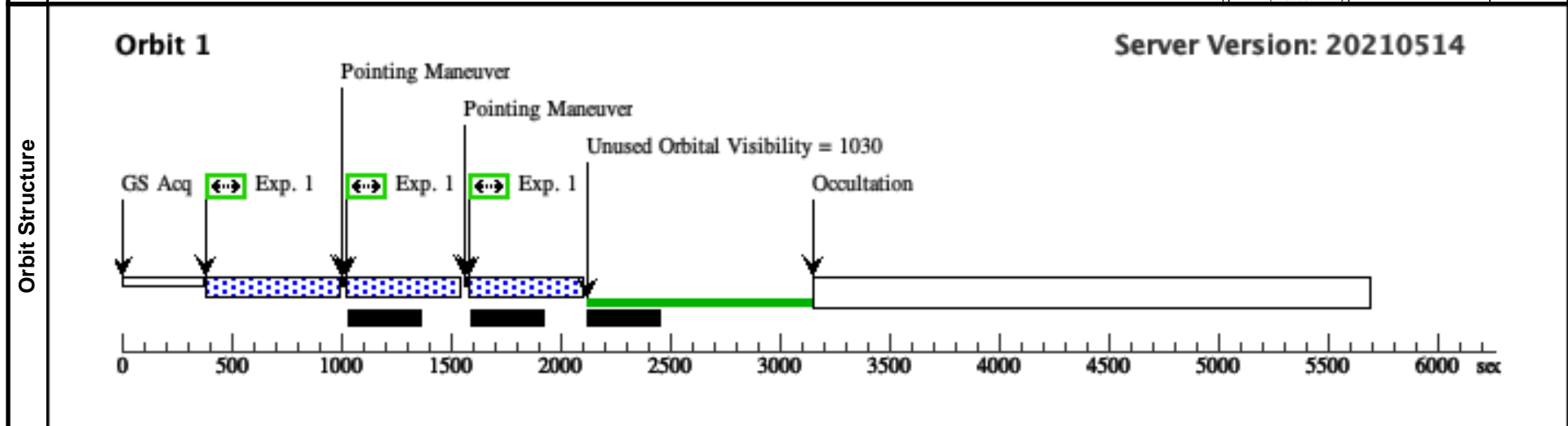
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 89, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|---------------|
| | (38) | MACSJ2020.3-2225 | RA: 20 20 22.5100 (305.0937917d) Dec: -22 25 39.00 (-22.42750d) Equinox: J2000 | | | V=19 |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|---------------------------|----------------------|---------------|--------------|---------------|--------|---|---|
| | 1 | 2020-22_60 6 | (38) MACSJ2020.3- 2225 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 i n Visit 89 (1) | 400 Secs (1200 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] |



Proposal 16670 - Visit 90 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

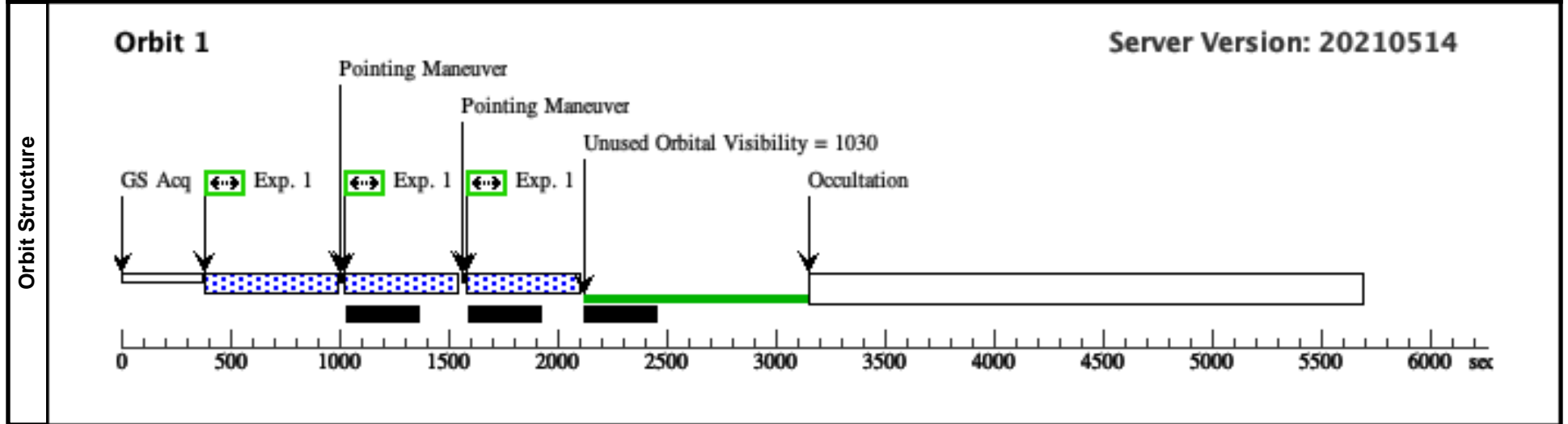
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 90, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (38) | MACSJ2020.3-2225 | RA: 20 20 22.5100 (305.0937917d) Dec: -22 25 39.00 (-22.42750d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-------------|-----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 2020-22_814 | (38) MACSJ2020.3-2225 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 90 (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 91 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

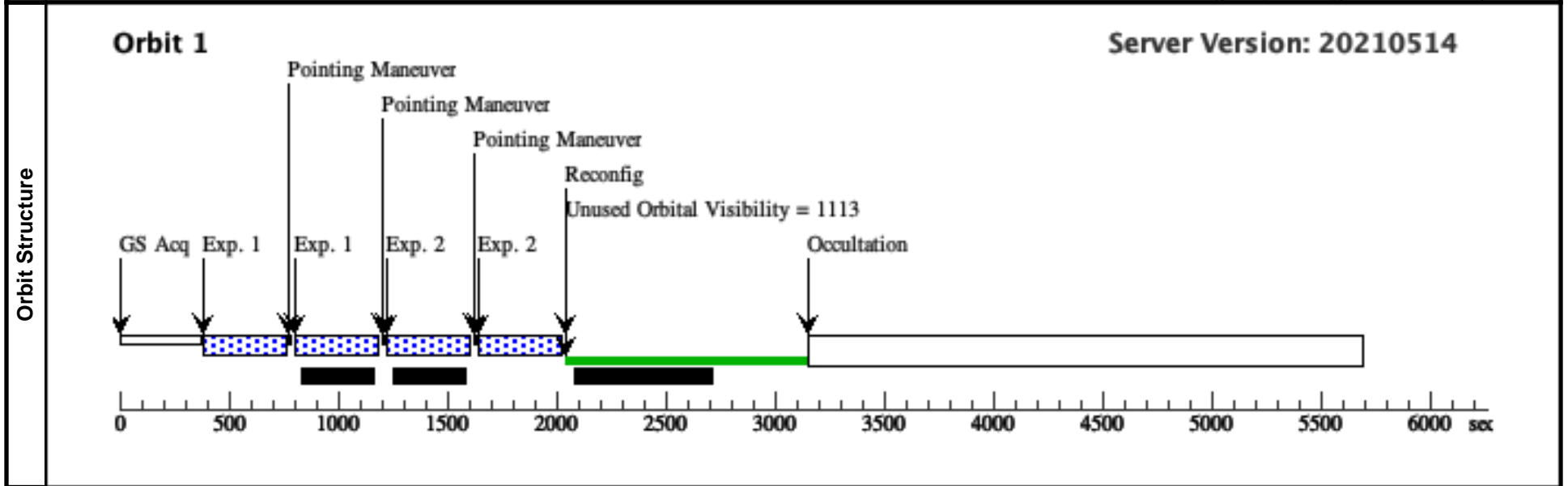
Thu Oct 07 11:02:21 GMT 2021

| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 91, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|---|-----------------|--|-----------|
| | | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|--|------|--------------------|--|--------|---------------|
| | | (38) | MACSJ2020.3-2225 | RA: 20 20 22.5100 (305.0937917d) Dec: -22 25 39.00 (-22.42750d) Equinox: J2000 | | V=19 |
| | <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|--------------|-----------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|-------------------------------------|--|--|
| | | 1 | 2020-22_11_0 | (38) MACSJ2020.3-2225 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 91 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] |
| | 2 | 2020-22_14_0 | (38) MACSJ2020.3-2225 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 91 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 92 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

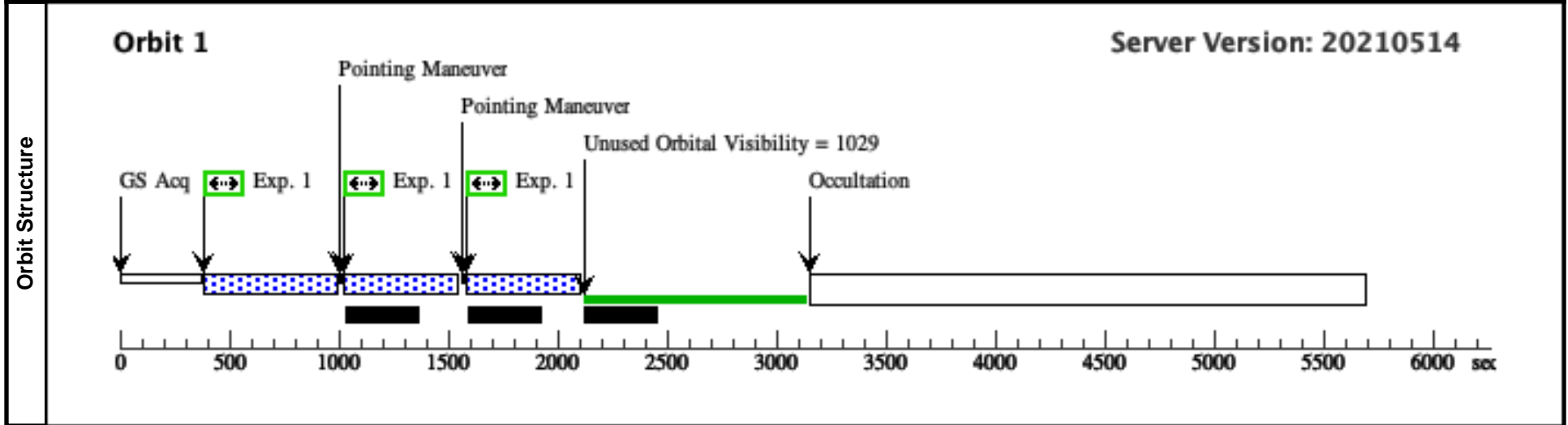
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 92, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (39) | MACSJ2119.4+1521 | RA: 21 19 26.1600 (319.8590000d) Dec: +15 21 6.00 (15.35167d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|---------------------------|----------------------|---------------|--------------|---------------|--------|---|---|
| | 1 | 2119+15_60 6 | (39) MACSJ2119.4+ 1521 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 i n Visit 92 (1) | 400 Secs (1200 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] |



Proposal 16670 - Visit 93 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

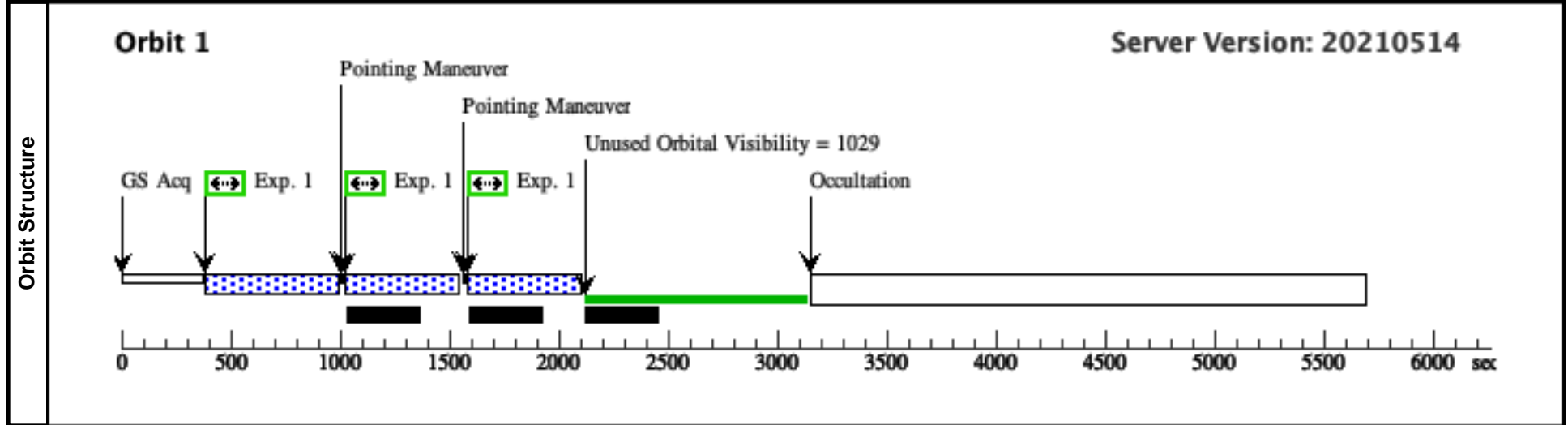
Thu Oct 07 11:02:21 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 93, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | (1) |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|--|------------------|--|--------------------------|--------|-----------------------|
| | (39) | MACSJ2119.4+1521 | RA: 21 19 26.1600 (319.8590000d) Dec: +15 21 6.00 (15.35167d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |
| | <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-------------------|----------------------|---------------|--------------|---------------|-----------------------|---|-------|
| | 1 | 2119+15_81 | (39) MACSJ2119.4+ | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | Pattern 1, Exps 1-1 i | 400 Secs (1200 Secs) | |
| | 4 | | 1521 | | | | | n Visit 93 (1) | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 94 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

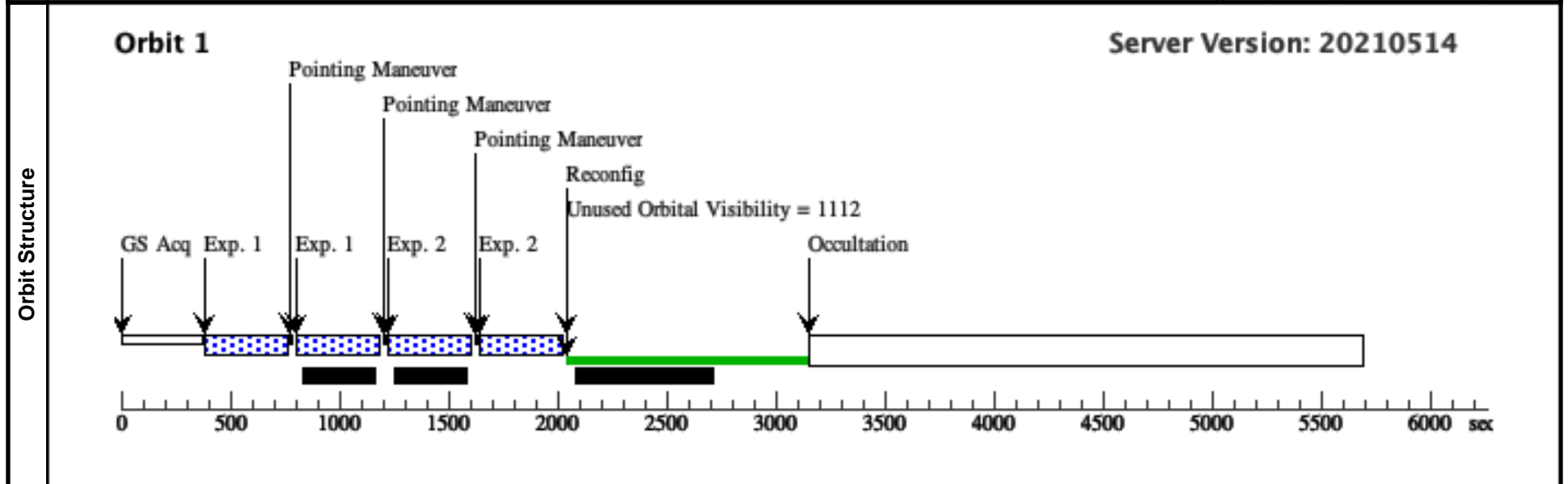
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 94, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (39) | MACSJ2119.4+1521 | RA: 21 19 26.1600 (319.8590000d) Dec: +15 21 6.00 (15.35167d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-----------------|-----------------------|-------------------------|-------------------------|-----------------------------------|-----------------------------------|-------------------------------------|-------------------------------------|---------------------------------|-------|
| | 1 | 2119+15_11 0 | (39) MACSJ2119.4+1521 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 94 (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | 2119+15_14 0 | (39) MACSJ2119.4+1521 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 94 (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 95 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 95, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

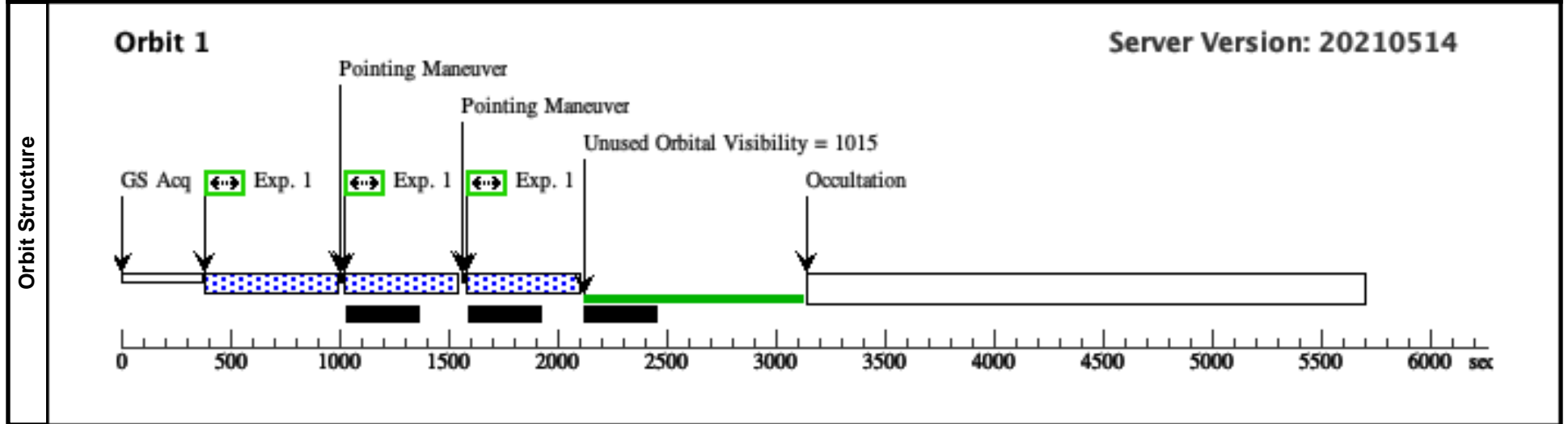
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (41) | MACSJ2337.6+0016 | RA: 23 37 39.7300 (354.4155417d) Dec: +00 16 17.10 (.27142d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------|-----------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | A2631_606 | (41) MACSJ2337.6+0016 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 95 (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]



Proposal 16670 - Visit 96 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 96, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

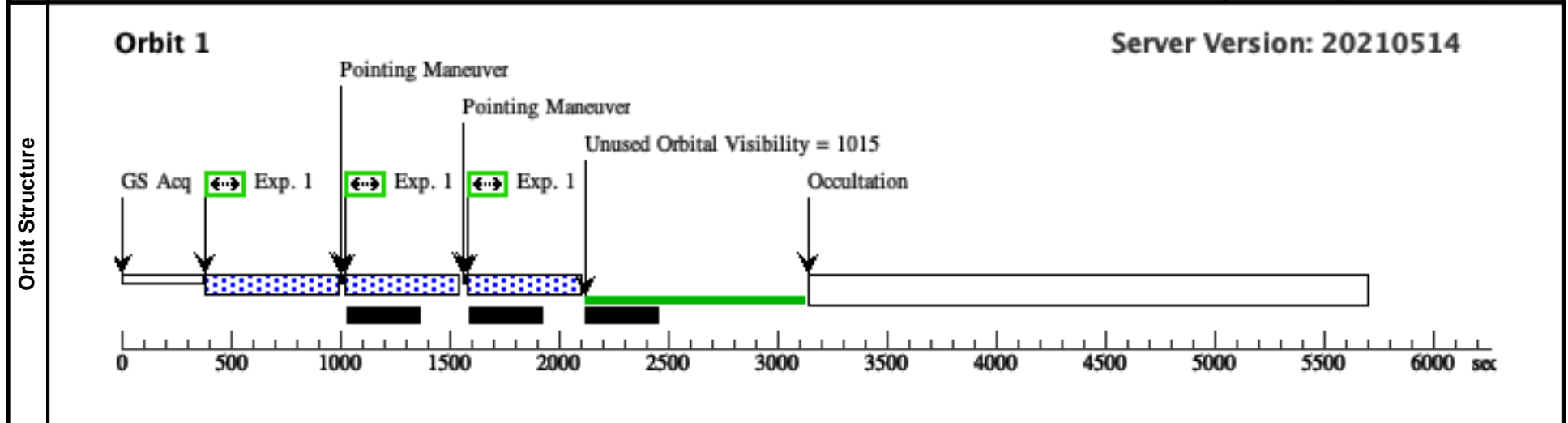
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (41) | MACSJ2337.6+0016 | RA: 23 37 39.7300 (354.4155417d) Dec: +00 16 17.10 (.27142d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------|-----------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | A2631_814 | (41) MACSJ2337.6+0016 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 96 (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]



Proposal 16670 - Visit 97 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

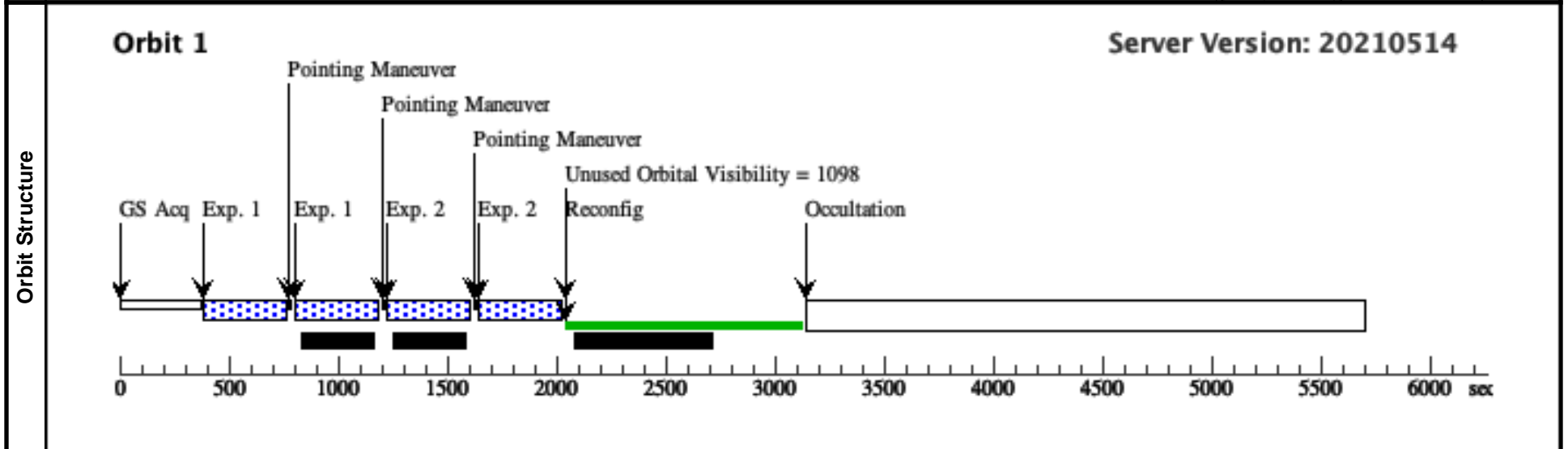
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 97, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (41) | MACSJ2337.6+0016 | RA: 23 37 39.7300 (354.4155417d) Dec: +00 16 17.10 (.27142d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-----------|-----------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|---------------|-------------------------------------|--|--|
| | 1 | A2631_110 | (41) MACSJ2337.6+0016 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 1-1 in Visit 97 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] |
| 2 | A2631_140 | (41) MACSJ2337.6+0016 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 2-2 in Visit 97 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 98 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

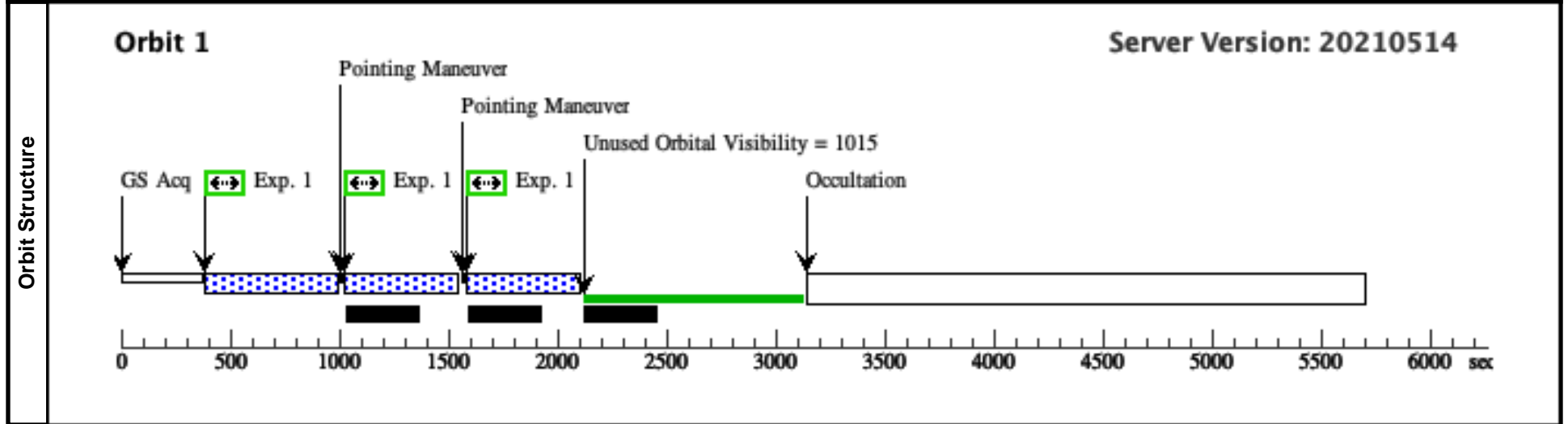
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 98, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (42) | MACSJ2341.1+0018 | RA: 23 41 6.8700 (355.2786250d) Dec: +00 18 32.90 (.30914d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 2341+00_60 | (42) MACSJ2341.1+0018 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 98 (1) | 400 Secs (1200 Secs) |
| 6 | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 99 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

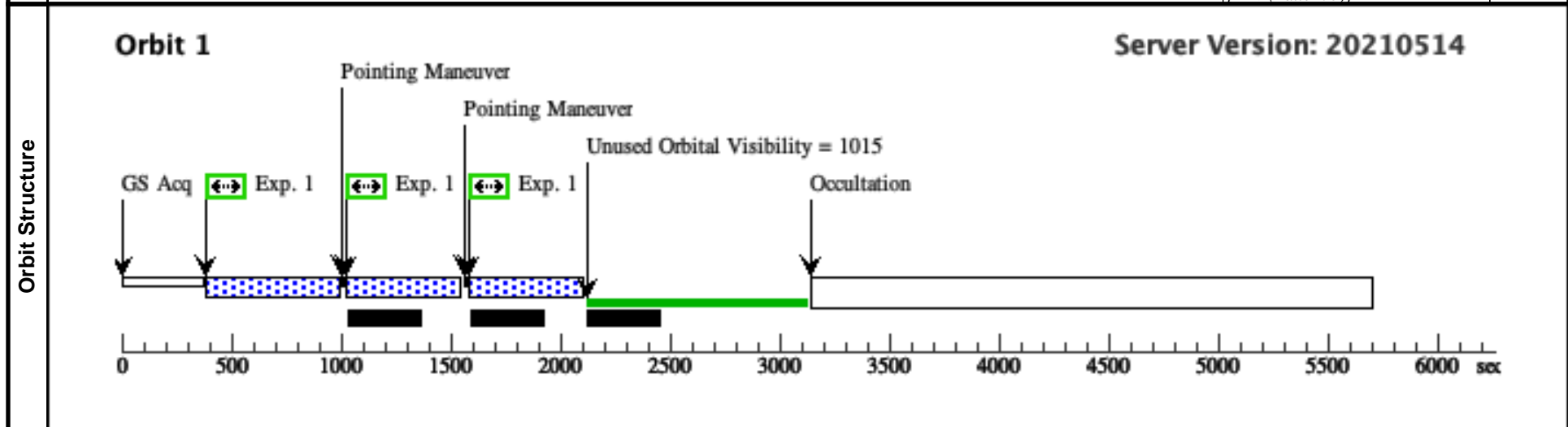
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 99, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none) | | |
|--------------|--|--|--|

| | | | | |
|-----------------|----------|---|--------------------------|------------------|
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | | (1) |

| | | | | | | |
|----------------------|----------|------------------|--|---------------------------------|---------------|-----------------------|
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
| | (42) | MACSJ2341.1+0018 | RA: 23 41 6.8700 (355.2786250d) Dec: +00 18 32.90 (.30914d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| | | | | | | | | | | |
|------------------|----------|-----------------|---------------------------|-----------------------------|----------------------|---------------------|----------------------|---|---|--------------|
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | 2341+00_81 4 | (42) MACSJ2341.1+ 0018 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | Pattern 1, Exps 1-1 i n Visit 99 (1) | 400 Secs (1200 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 0A - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

| | | | | | | | | | | |
|--|---|--|--|---------------------------------|-----------------------------------|-----------------------------------|---|--|--|--------------|
| Visit | Proposal 16670, Visit 0A, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | | | | | | | | |
| | | | | | | | | | | |
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures | | | | | | |
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | | (1), (2) | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | |
| | (42) | MACSJ2341.1+0018 | RA: 23 41 6.8700 (355.2786250d) Dec: +00 18 32.90 (.30914d) Equinox: J2000 | | V=19 | Reference Frame: ICRS | | | | |
| <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | 2341+00_11 0 | (42) MACSJ2341.1+ 0018 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 i n Visit 0A (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |
| 2 | 2341+00_14 0 | (42) MACSJ2341.1+ 0018 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 i n Visit 0A (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] | |
| Orbit Structure | <div style="display: flex; justify-content: space-between;"> Orbit 1 Server Version: 20210514 </div> <p>The diagram shows a timeline from 0 to 6000 seconds. Key events include: GS Acq at ~100s, Exp. 1 at ~400s, Exp. 1 at ~800s, Exp. 2 at ~1200s, Exp. 2 at ~1600s, Reconfig at ~2000s, and Occultation starting at ~3100s. Pointing maneuvers occur between exposures. A green bar indicates 'Unused Orbital Visibility = 1098' from ~2000s to ~3100s. A blue checkered bar represents the active observation period from ~400s to ~2000s.</p> | | | | | | | | | |
| | | | | | | | | | | |

Proposal 16670 - Visit 0B - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

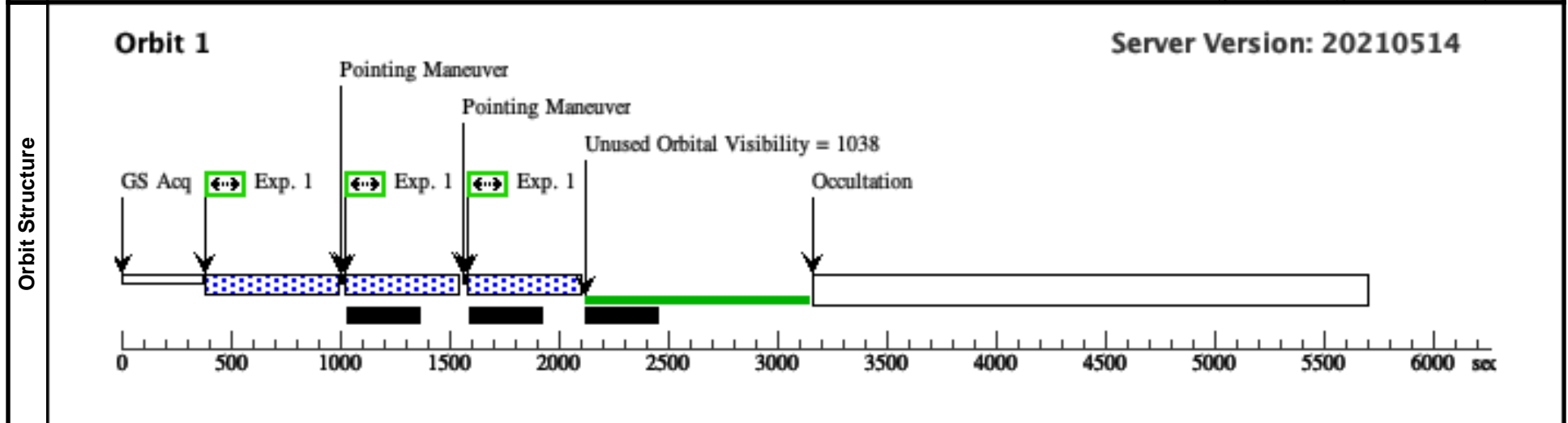
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 0B, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------|---|--------------------------|--------|-----------------------|
| | (43) | A2667 | RA: 23 51 39.4100 (357.9142083d) Dec: -26 05 3.10 (-26.08419d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------|------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | A2667_606 | (43) A2667 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 0B (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 0C - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

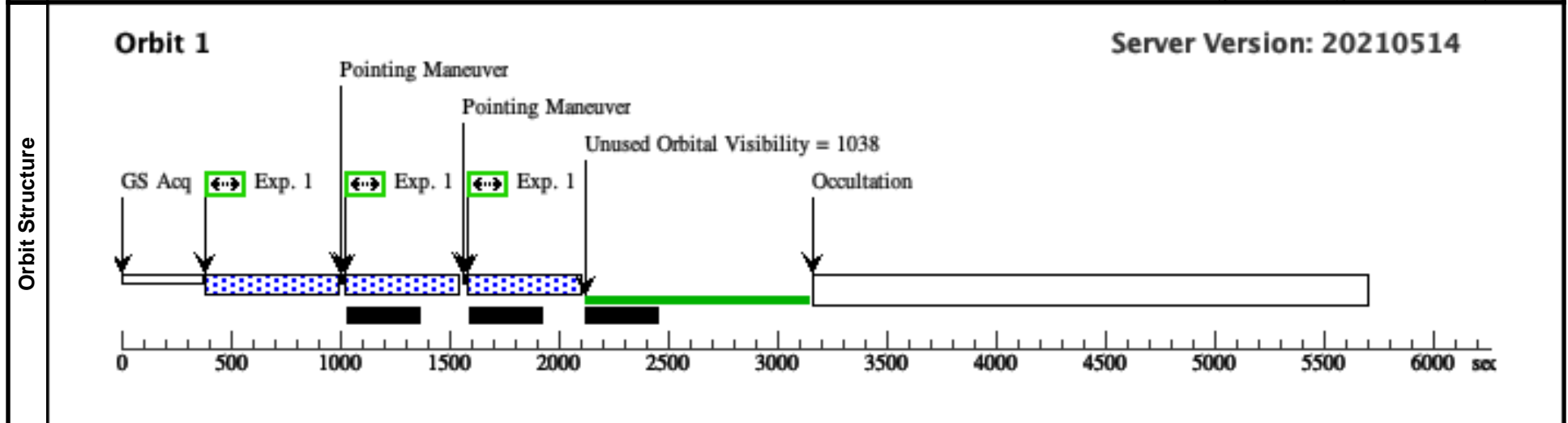
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 0C, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------|---|--------------------------|--------|-----------------------|
| | (43) | A2667 | RA: 23 51 39.4100 (357.9142083d) Dec: -26 05 3.10 (-26.08419d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------|------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | A2667_814 | (43) A2667 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 0C (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 0D - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

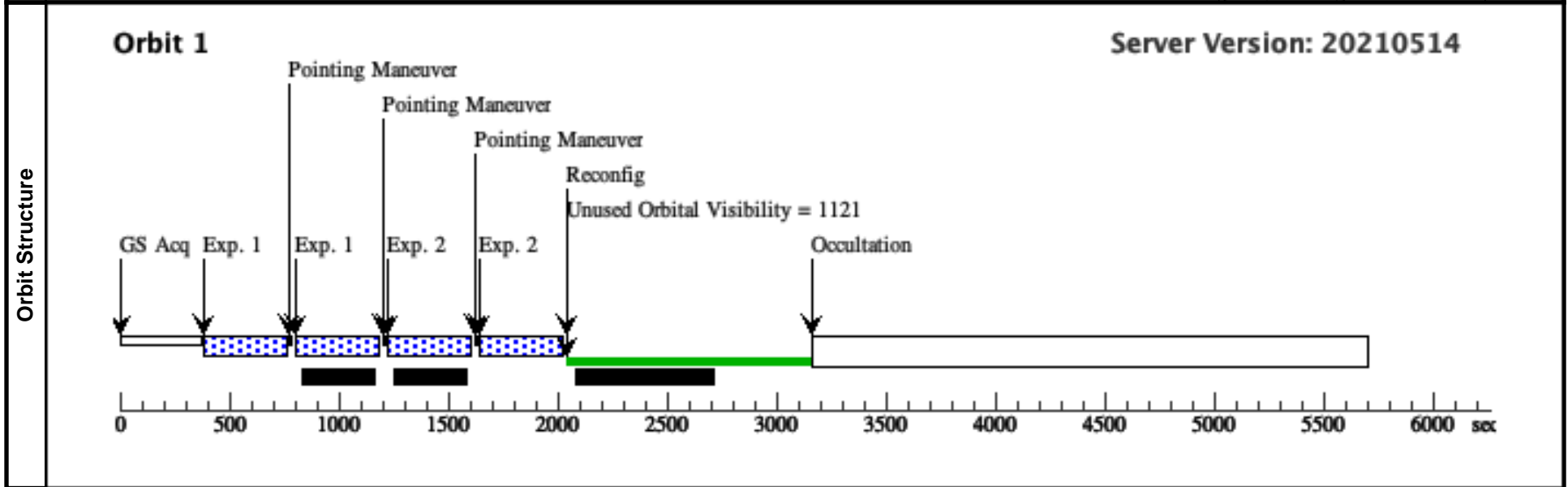
Thu Oct 07 11:02:21 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 0D, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|---|-----------------|--|-----------|
| | | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|--|------|--------------------|---|--------|---------------|
| | | (43) | A2667 | RA: 23 51 39.4100 (357.9142083d) Dec: -26 05 3.10 (-26.08419d) Equinox: J2000 | | V=19 |
| | <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------|------------|-------------------------|-------------------------|--------------------|--------------------|-------------------------------------|--------------------------------------|--------------------------------|
| | | 1 | A2667_110 | (43) A2667 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; | | Pattern 2, Exps 1-1 in Visit 0D (2) | 352.939501 Secs (705.879 Secs) |
| | | | | | | NSAMP=15 | | | [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 2 | A2667_140 | (43) A2667 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; | | Pattern 2, Exps 2-2 in Visit 0D (2) | 352.939501 Secs (705.879 Secs) | |
| | | | | | | NSAMP=15 | | | [==>(Pattern 1)] [==>(Pattern 2)] | [1] |



Proposal 16670 - Visit 0E - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

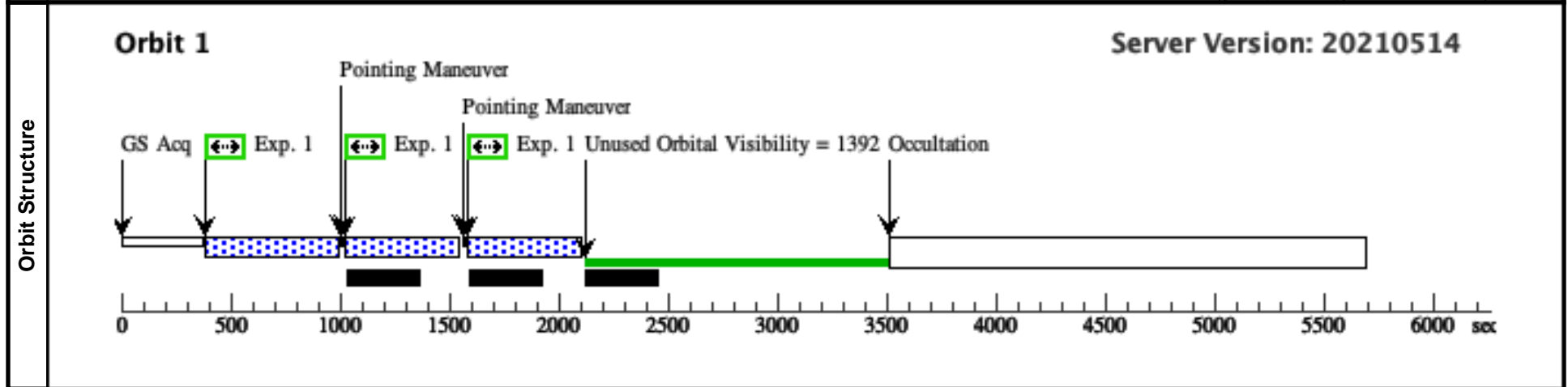
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 0E, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none) | | |
|--------------|--|--|--|

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (44) | SMACSJ0303.7-7752 | RA: 03 03 46.1100 (45.9421250d) Dec: -77 52 43.10 (-77.87864d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|------------------------|----------------------|---------------|--------------|---------------|---|---------------------------------|-------|
| | 1 | 0303-77_60 | (44) SMACSJ0303.7-7752 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | Pattern 1, Exps 1-1 in Visit 0E (1) | 400 Secs (1200 Secs) | |
| 6 | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] | |



Proposal 16670 - Visit 0F - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

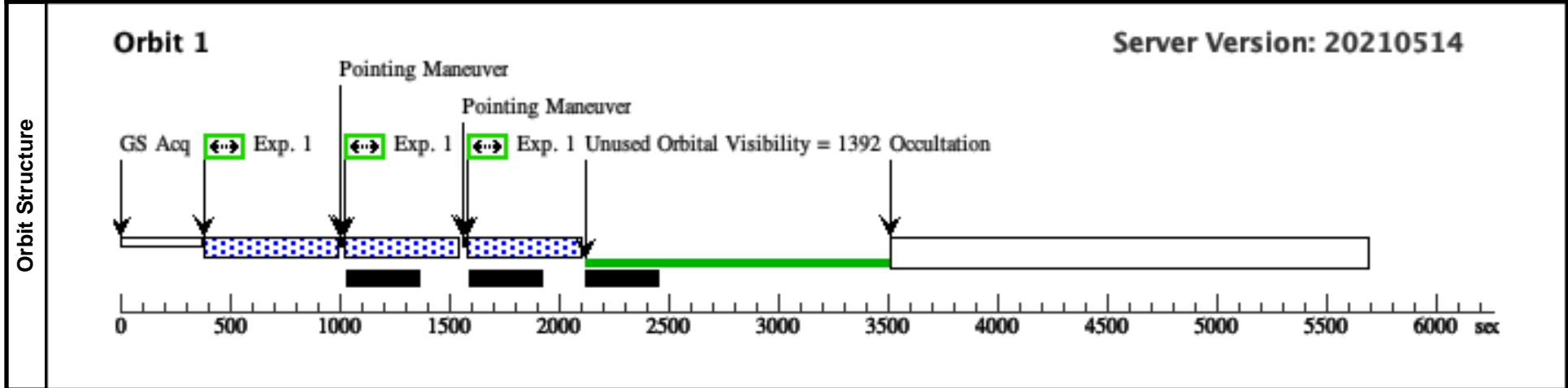
Thu Oct 07 11:02:21 GMT 2021

| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 0F, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|--|------|-------------------|---|--------------------------|--------|-----------------------|
| | (44) | SMACSJ0303.7-7752 | RA: 03 03 46.1100 (45.9421250d) Dec: -77 52 43.10 (-77.87864d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |
| <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0303-77_81 | (44) SMACSJ0303.7 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 0F (1) | 400 Secs (1200 Secs) |
| 4 | | -7752 | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 0G - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

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| | | | | | | | | | | |
|---|--|--|--|--------------------------|--------------------|-------------------------------------|---------------|-------------------------------------|--|-------|
| Visit | Proposal 16670, Visit 0G, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | | | | | | | | |
| | Patterns | # (2) Primary Pattern Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | Secondary Pattern | Exposures (1), (2) | | | | | |
| Fixed Targets | # (44) | Name SMACSJ0303.7-7752 | Target Coordinates RA: 03 03 46.1100 (45.9421250d) Dec: -77 52 43.10 (-77.87864d) Equinox: J2000 | Targ. Coord. Corrections | Fluxes V=19 | Miscellaneous Reference Frame: ICRS | | | | |
| Comments: Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | 0303-77_110 | (44) SMACSJ0303.7-7752 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 0G (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |
| | 2 | 0303-77_140 | (44) SMACSJ0303.7-7752 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 0G (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |
| Orbit Structure | <div style="display: flex; justify-content: space-between;"> Orbit 1 Server Version: 20210514 </div> <p>The diagram shows a timeline from 0 to 6000 seconds. Key events include: GS Acq at ~100s, Exp. 1 at ~400s, Exp. 1 at ~800s, Exp. 2 at ~1200s, Exp. 2 at ~1600s, Reconfig at ~2000s, and Occultation starting at ~3500s. Pointing maneuvers occur between exposures. A green bar indicates 'Unused Orbital Visibility = 1475' from ~2000s to ~3500s. Black bars below the timeline represent occultation periods.</p> | | | | | | | | | |

Proposal 16670 - Visit 0H - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

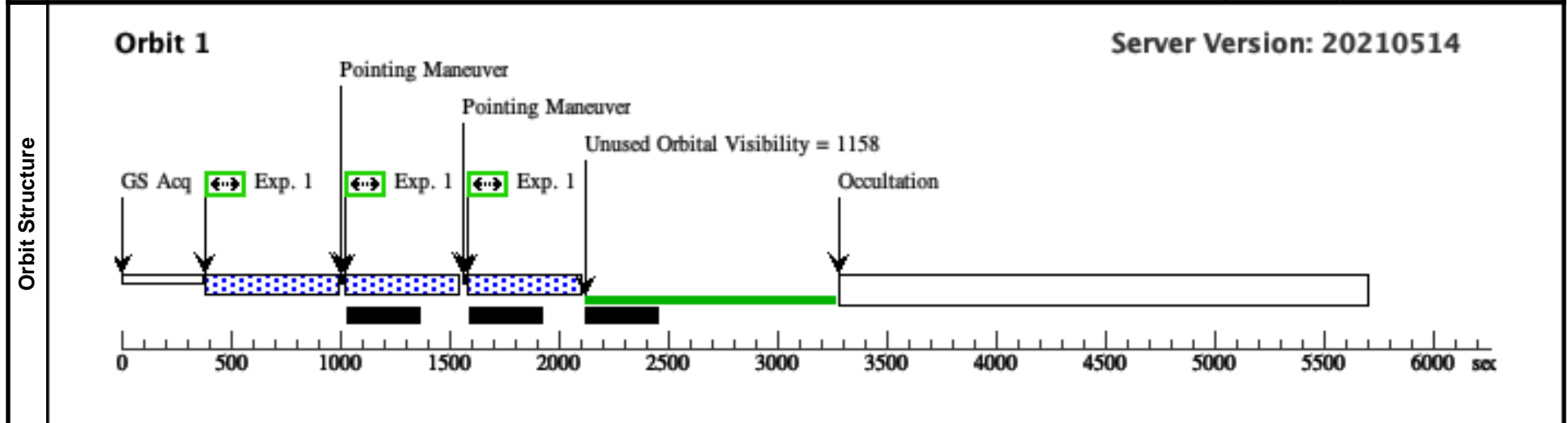
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 0H, scheduled | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (45) | SMACSJ0510.2-4519 | RA: 05 10 17.5200 (77.5730000d) Dec: -45 19 18.20 (-45.32172d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
Category=CLUSTER OF GALAXIES
Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------|------------------------|----------------------|---------------|--------------|---------------|---|---------------------------------|-------|
| | 1 | A3322_606 | (45) SMACSJ0510.2-4519 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | Pattern 1, Exps 1-1 in Visit 0H (1) | 400 Secs (1200 Secs) | |
| | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] | |



Proposal 16670 - Visit 0I - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

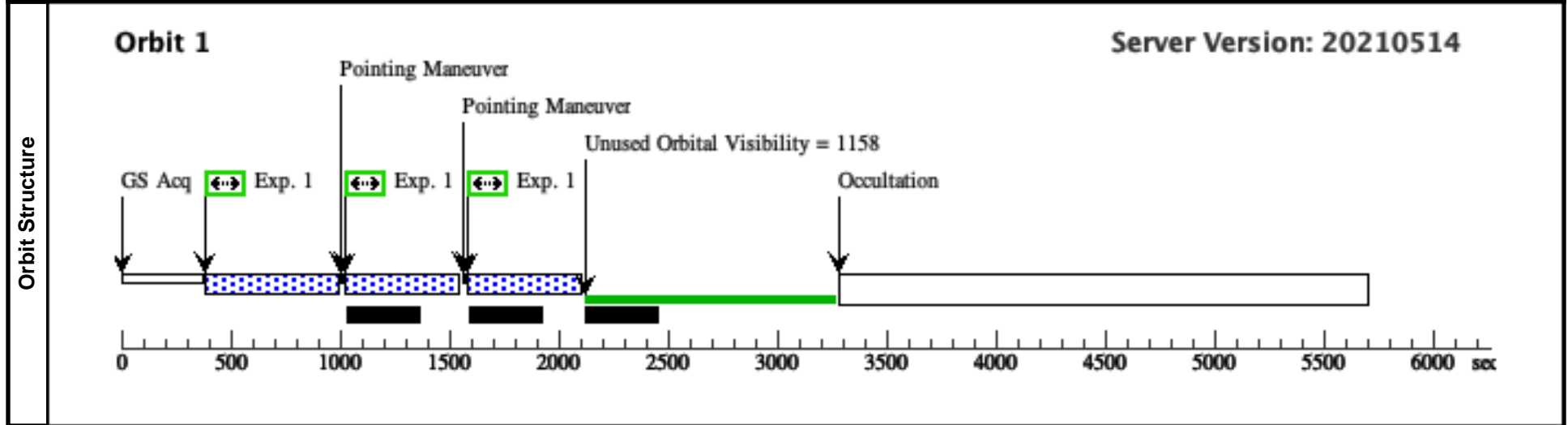
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 0I, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (45) | SMACSJ0510.2-4519 | RA: 05 10 17.5200 (77.5730000d) Dec: -45 19 18.20 (-45.32172d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------|------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | A3322_814 | (45) SMACSJ0510.2-4519 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 0I (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 0J - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

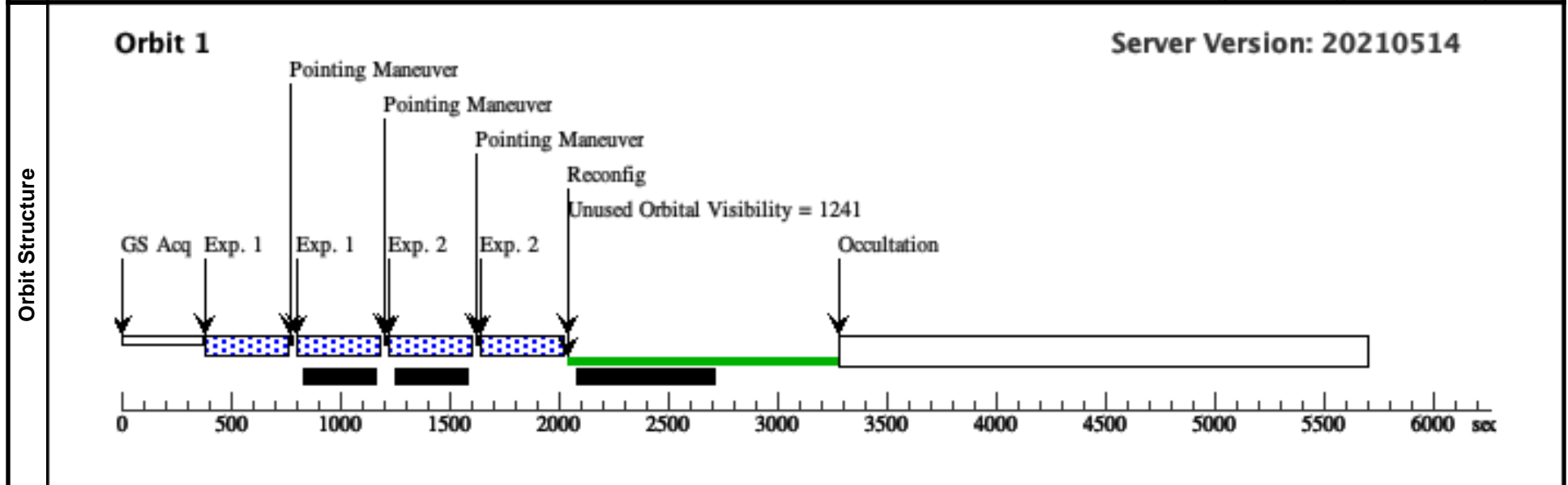
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 0J, implementation | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: WFC3/IR | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (45) | SMACSJ0510.2-4519 | RA: 05 10 17.5200 (77.5730000d) Dec: -45 19 18.20 (-45.32172d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
Category=CLUSTER OF GALAXIES
Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-----------|------------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|-------------------------------------|-------------------------------------|---------------------------------|-------|
| | 1 | A3322_110 | (45) SMACSJ0510.2-4519 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 0J (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | A3322_140 | (45) SMACSJ0510.2-4519 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 0J (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 0K - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

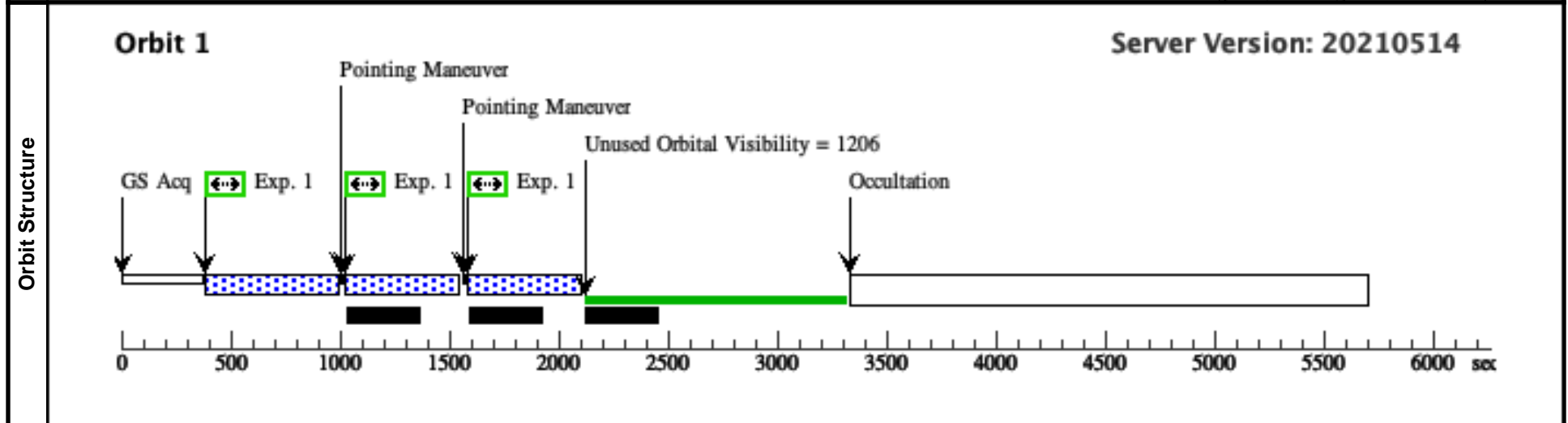
Thu Oct 07 11:02:21 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 0K, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|--|------|-------------------|--|--------------------------|--------|-----------------------|
| | (46) | SMACSJ0516.5-5431 | RA: 05 16 37.3900 (79.1557917d) Dec: -54 30 1.90 (-54.50053d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |
| <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0516-54_60 | (46) SMACSJ0516.5-5431 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 0K (1) | 400 Secs (1200 Secs) |
| 6 | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 0L - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

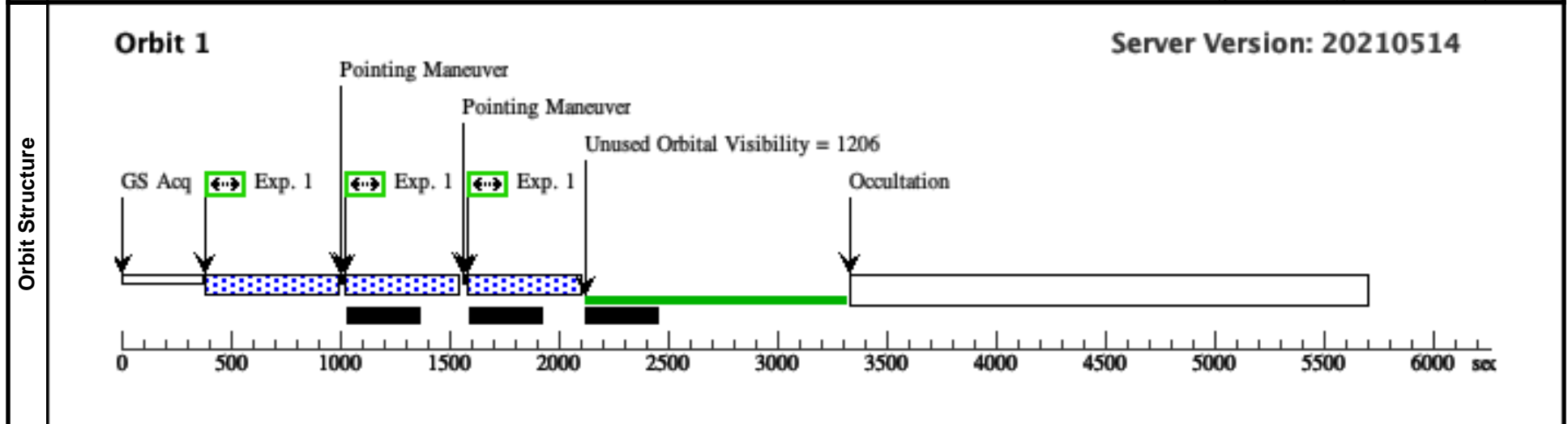
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 0L, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (46) | SMACSJ0516.5-5431 | RA: 05 16 37.3900 (79.1557917d) Dec: -54 30 1.90 (-54.50053d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0516-54_81 4 | (46) SMACSJ0516.5-5431 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 0L (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 0M - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

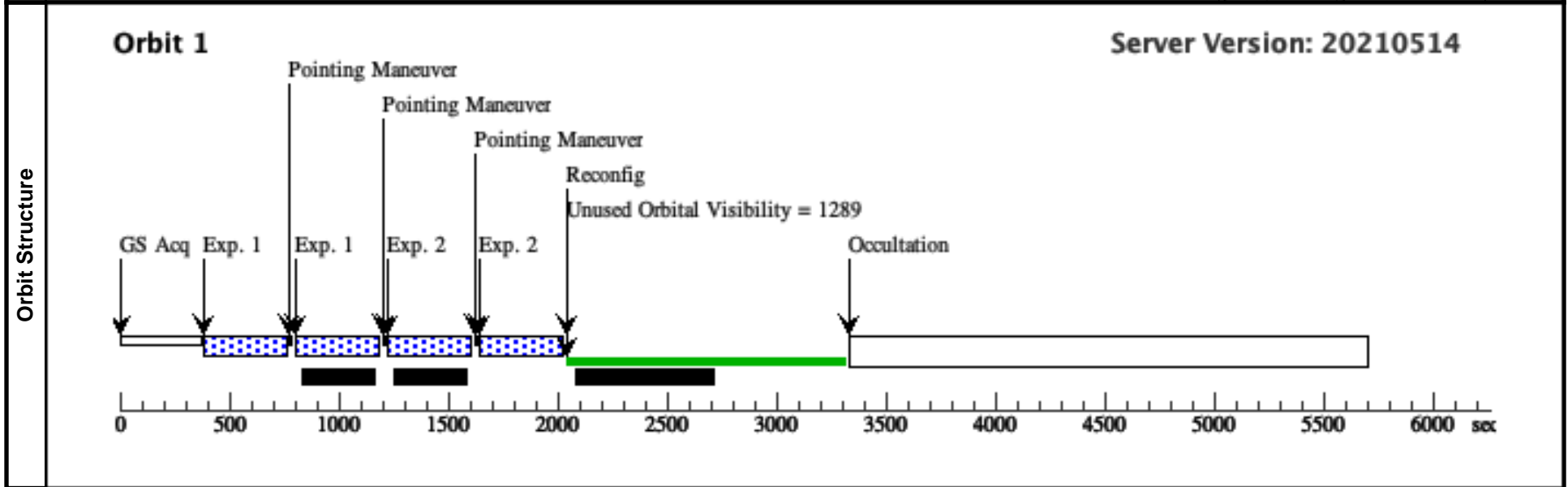
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 0M, implementation | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: WFC3/IR | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (46) | SMACSJ0516.5-5431 | RA: 05 16 37.3900 (79.1557917d) Dec: -54 30 1.90 (-54.50053d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-------------|------------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|---------------|-------------------------------------|--|--|
| | 1 | 0516-54_110 | (46) SMACSJ0516.5-5431 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 1-1 in Visit 0M (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] |
| 2 | 0516-54_140 | (46) SMACSJ0516.5-5431 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 2-2 in Visit 0M (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 0N - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

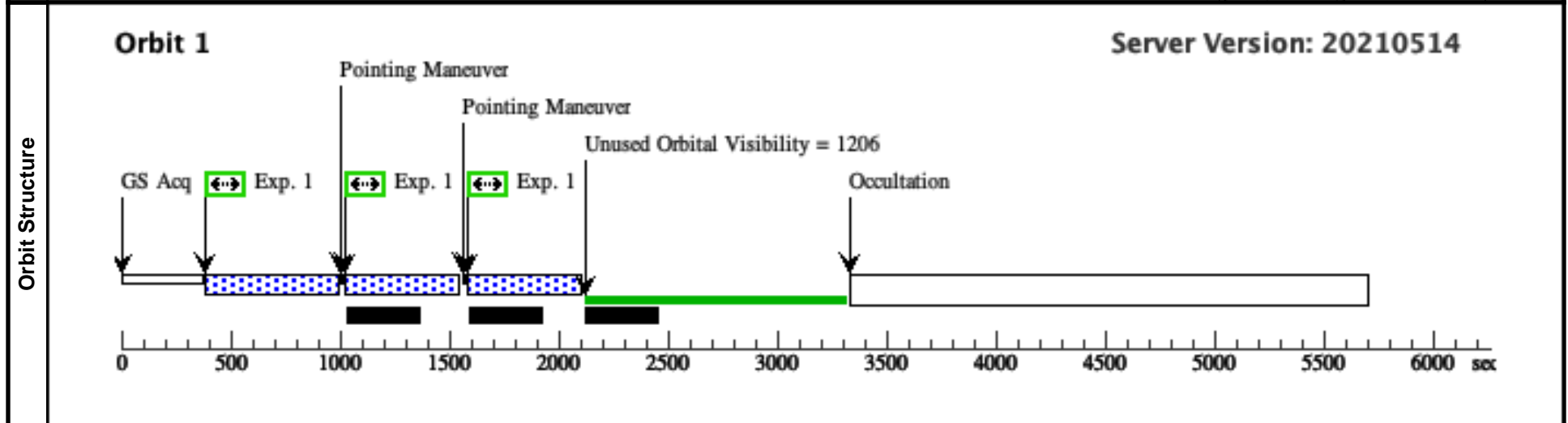
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 0N, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (47) | SMACSJ0638.7-5358 | RA: 06 38 46.9800 (99.6957500d) Dec: -53 58 23.50 (-53.97319d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0638-53_81 4 | (47) SMACSJ0638.7-5358 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 0N (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 00 - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

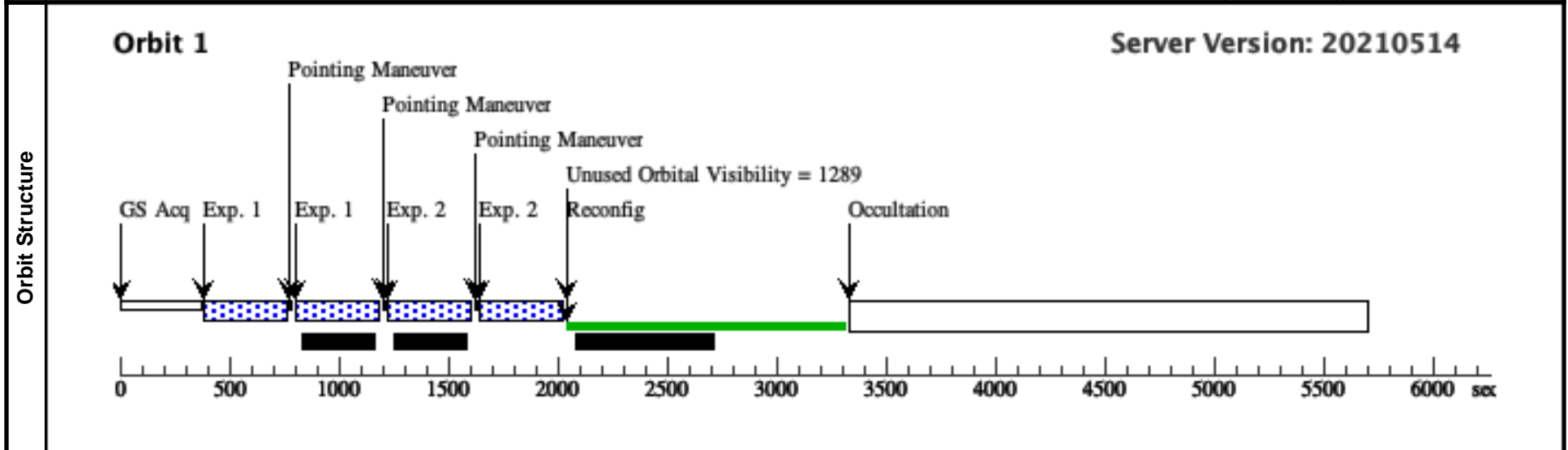
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 00, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (47) | SMACSJ0638.7-5358 | RA: 06 38 46.9800 (99.6957500d) Dec: -53 58 23.50 (-53.97319d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-------------|------------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|---------------|-------------------------------------|--|--|
| | 1 | 0638-53_110 | (47) SMACSJ0638.7-5358 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 1-1 in Visit 00 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] |
| 2 | 0638-53_140 | (47) SMACSJ0638.7-5358 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 2-2 in Visit 00 (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 0P - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

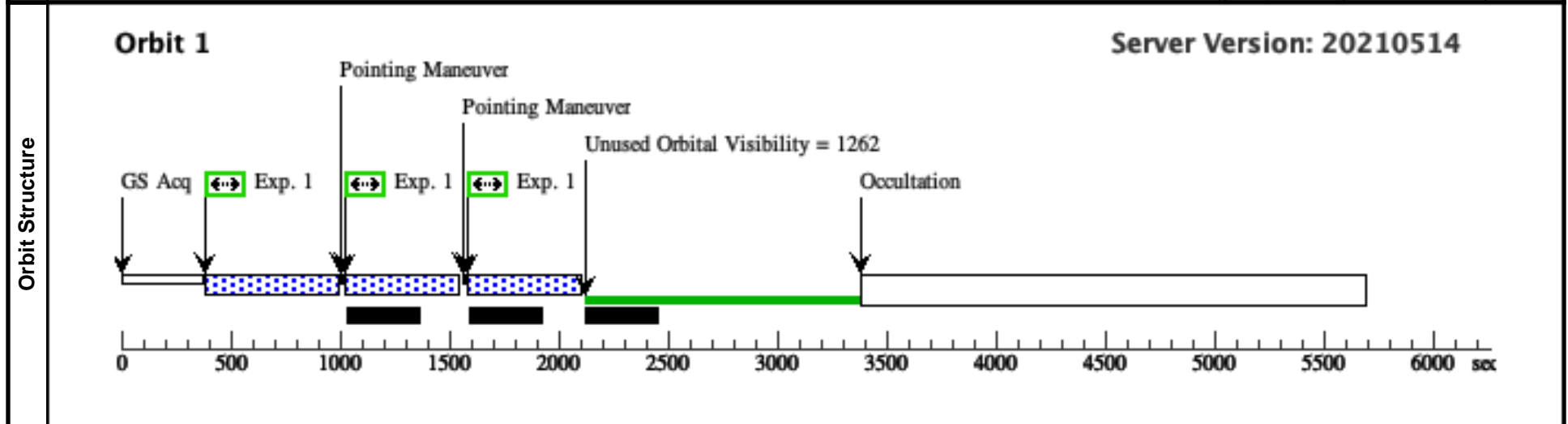
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 0P, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (48) | SMACSJ1914.6-5928 | RA: 19 14 37.3400 (288.6555833d) Dec: -59 28 20.20 (-59.47228d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1914-59_60 | (48) SMACSJ1914.6-5928 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 0P (1) | 400 Secs (1200 Secs) |
| 6 | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 0Q - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

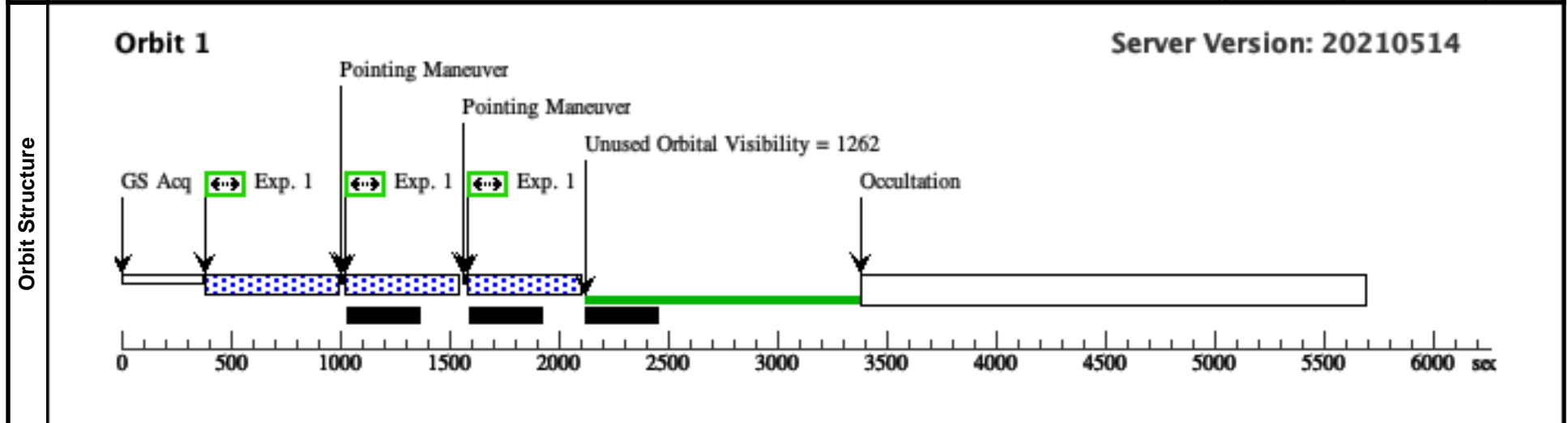
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 0Q, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (48) | SMACSJ1914.6-5928 | RA: 19 14 37.3400 (288.655833d) Dec: -59 28 20.20 (-59.47228d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-------|------------|-------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1914-59_81 | (48) SMACSJ1914.6 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 0Q (1) | 400 Secs (1200 Secs) |
| 4 | -5928 | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 0R - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

| | | | | | | | | | | |
|--|--|--|---|--------------------------|-----------------------|--|---------------|-------------------------------------|--|-------|
| Visit | Proposal 16670, Visit 0R, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | | | | | | | | |
| | Patterns | # (2) Primary Pattern Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Secondary Pattern Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | | Exposures (1), (2) | | | | | |
| Fixed Targets | # (48) | Name SMACSJ1914.6-5928 | Target Coordinates RA: 19 14 37.3400 (288.6555833d) Dec: -59 28 20.20 (-59.47228d) Equinox: J2000 | Targ. Coord. Corrections | Fluxes V=19 | Miscellaneous Reference Frame: ICRS | | | | |
| <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | 1914-59_110 | (48) SMACSJ1914.6-5928 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 0R (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |
| | 2 | 1914-59_140 | (48) SMACSJ1914.6-5928 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 0R (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |
| Orbit Structure | <div style="display: flex; justify-content: space-between;"> Orbit 1 Server Version: 20210514 </div> <p>The diagram shows a timeline from 0 to 6000 seconds. Key events include: GS Acq at ~100s, Exp. 1 at ~400s, Exp. 1 at ~800s, Exp. 2 at ~1200s, Exp. 2 at ~1600s, Reconfig at ~2000s, and Occultation starting at ~3400s. Pointing maneuvers occur between exposures. A green bar indicates 'Unused Orbital Visibility = 1345' from ~2000s to ~3345s. Black bars below the timeline represent occultation periods.</p> | | | | | | | | | |

Proposal 16670 - Visit 0S - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

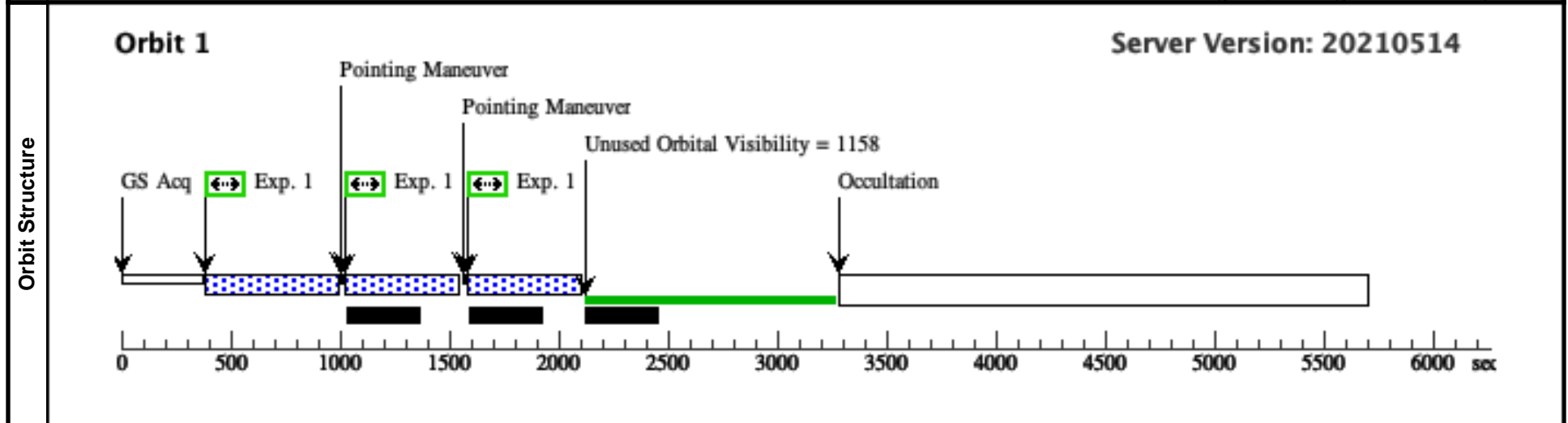
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 0S, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (49) | SMACSJ1938.1-4747 | RA: 19 38 11.1900 (294.5466250d) Dec: -47 47 30.80 (-47.79189d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1938-47_60 | (49) SMACSJ1938.1-4747 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 0S (1) | 400 Secs (1200 Secs) |
| 6 | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 0T - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

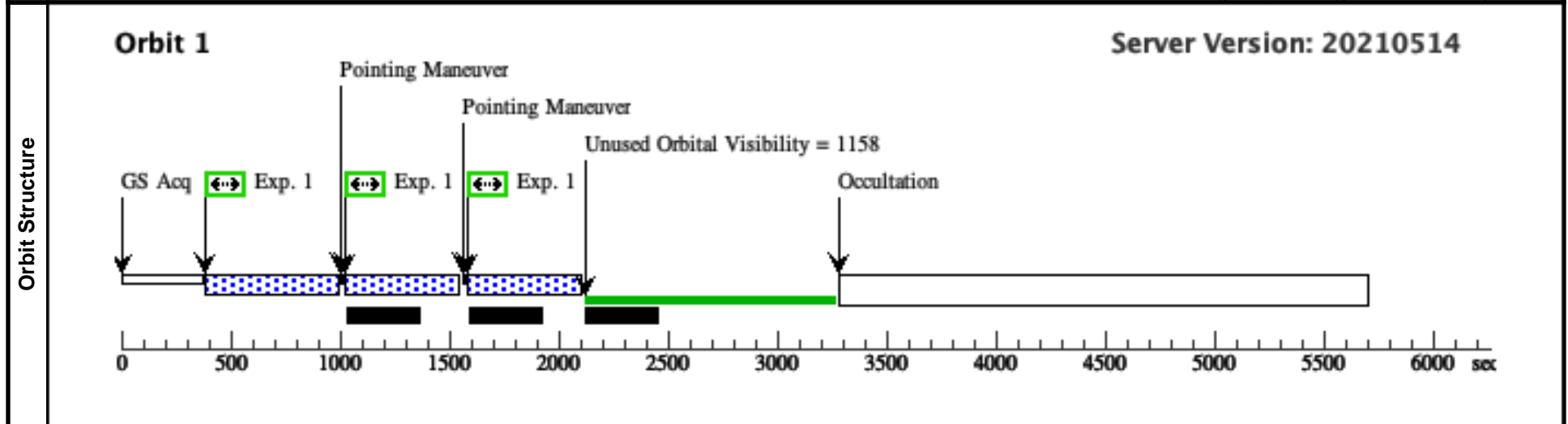
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 0T, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (49) | SMACSJ1938.1-4747 | RA: 19 38 11.1900 (294.5466250d) Dec: -47 47 30.80 (-47.79189d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-------|------------|-------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1938-47_81 | (49) SMACSJ1938.1 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 0T (1) | 400 Secs (1200 Secs) |
| 4 | -4747 | -4747 | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 0U - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

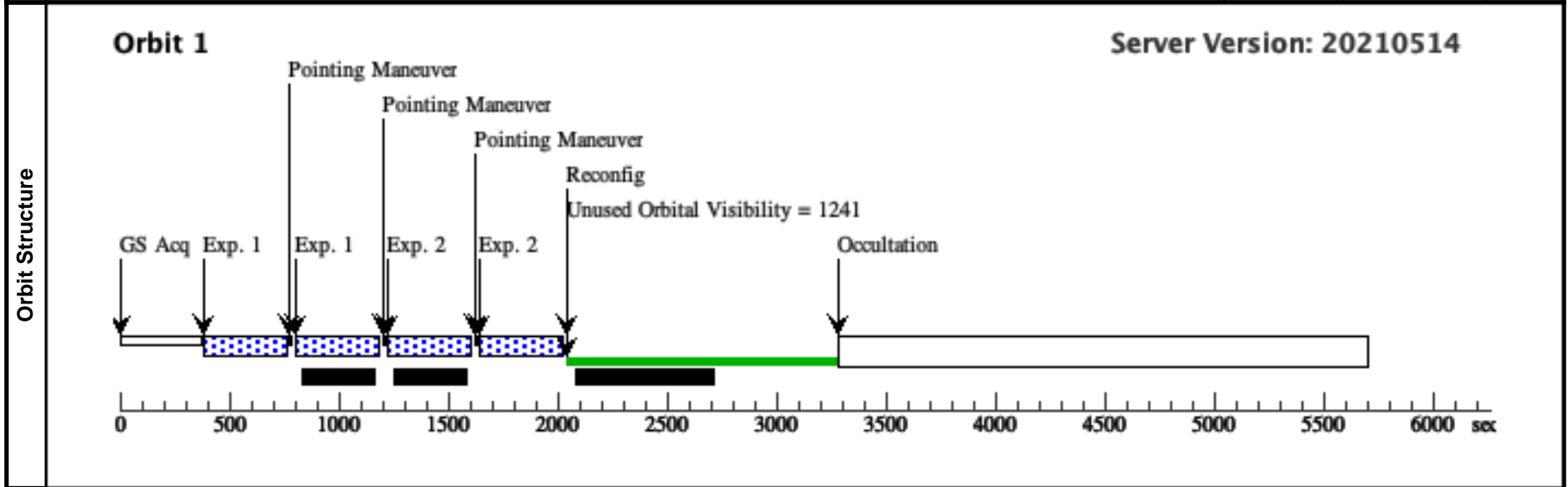
Thu Oct 07 11:02:21 GMT 2021

| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 0U, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|---|-----------------|--|-----------|
| | | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|--|------|--------------------|--|--------|---------------|
| | | (49) | SMACSJ1938.1-4747 | RA: 19 38 11.1900 (294.5466250d) Dec: -47 47 30.80 (-47.79189d) Equinox: J2000 | | V=19 |
| | <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|--------------|------------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|-------------------------------------|--|--|
| | | 1 | 1938-47_11_0 | (49) SMACSJ1938.1-4747 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 0U (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] |
| | 2 | 1938-47_14_0 | (49) SMACSJ1938.1-4747 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 0U (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 0V - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

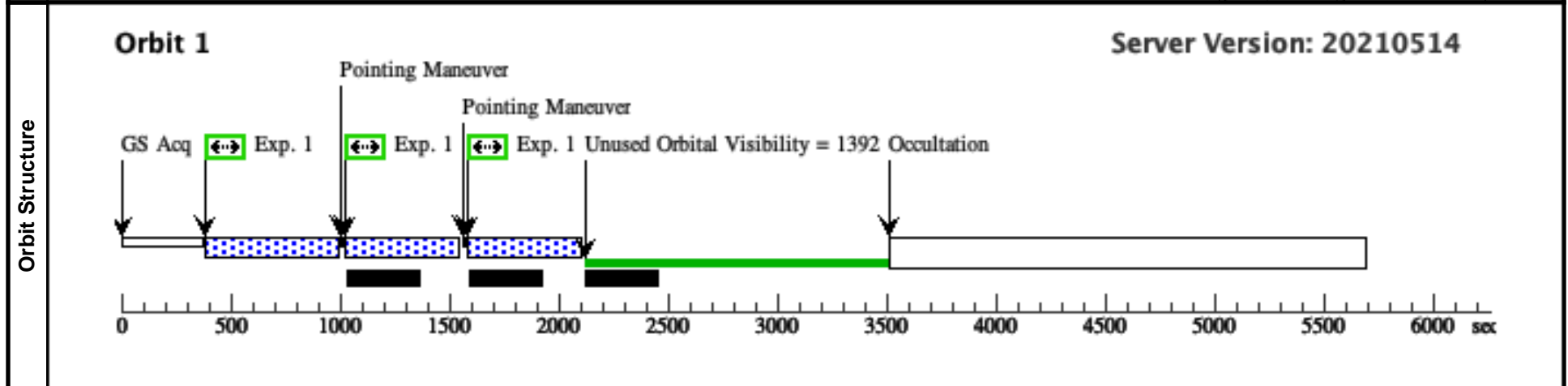
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 0V, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (50) | SMACSJ1947.1-7623 | RA: 19 47 15.9900 (296.8166250d) Dec: -76 23 43.50 (-76.39542d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|------------------------|----------------------|---------------|--------------|---------------|--|---------------------------------|-------|
| | 1 | 1947-76_60 | (50) SMACSJ1947.1-7623 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | Pattern 1, Exps 1-1 in Visit 0V (1) | 400 Secs (1200 Secs) | |
| 6 | | | | | | | | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] | [1] | |



Proposal 16670 - Visit 0W - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:21 GMT 2021

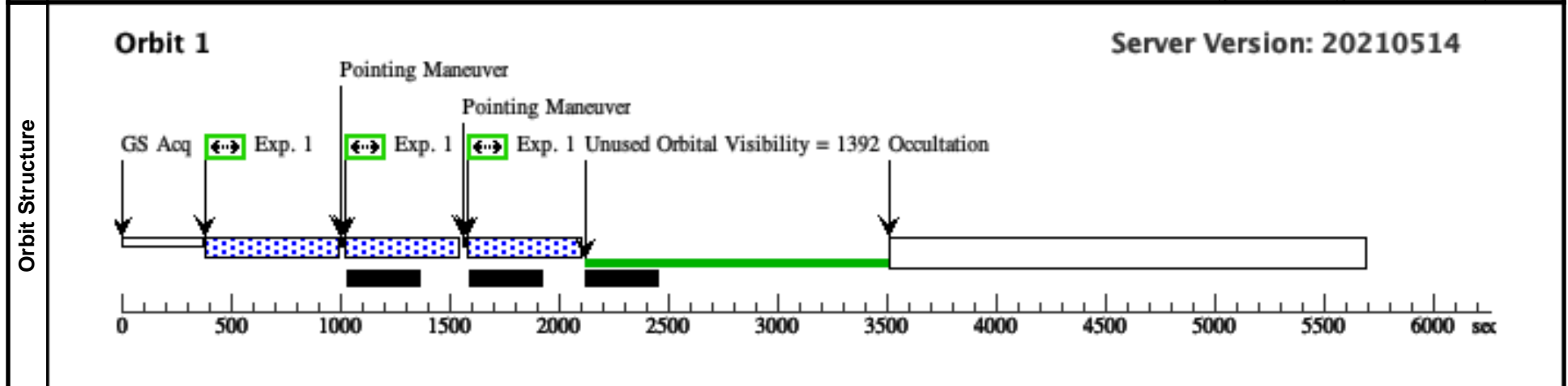
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 0W, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (50) | SMACSJ1947.1-7623 | RA: 19 47 15.9900 (296.8166250d) Dec: -76 23 43.50 (-76.39542d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-------------|------------------------|----------------------|---------------|--------------|---------------|---|---------------------------------|-------|
| | 1 | 1947-76_814 | (50) SMACSJ1947.1-7623 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | Pattern 1, Exps 1-1 in Visit 0W (1) | 400 Secs (1200 Secs) | |
| | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] | |



Proposal 16670 - Visit 0X - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

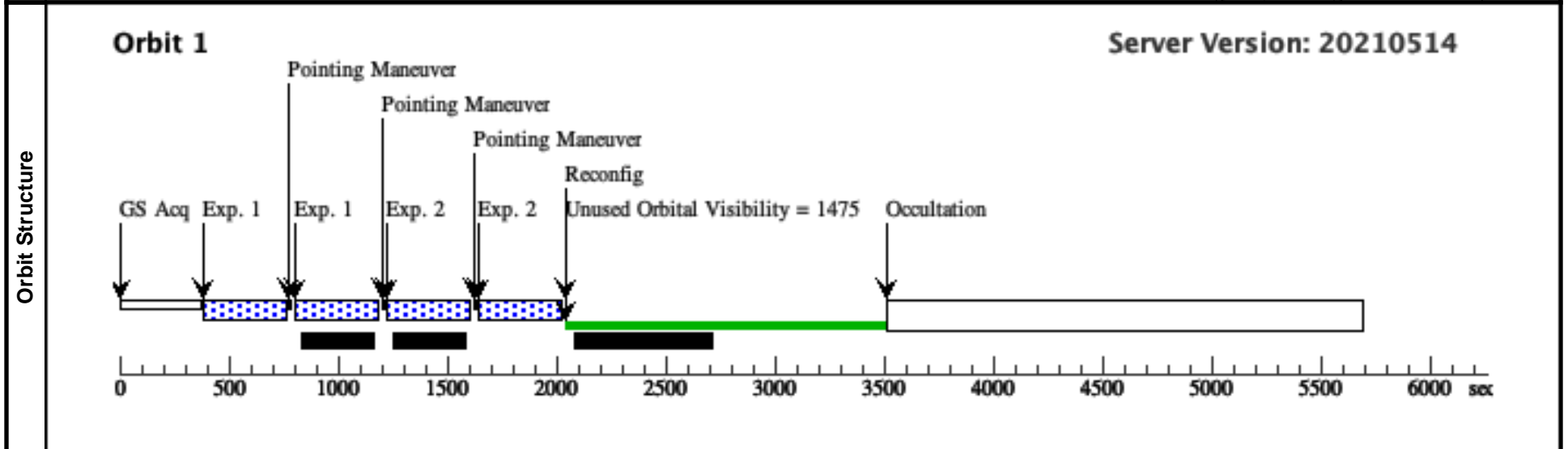
Thu Oct 07 11:02:22 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 0X, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|---|-----------------|--|--|
| | | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|--|------|--------------------|--|--------|---------------|
| | | (50) | SMACSJ1947.1-7623 | RA: 19 47 15.9900 (296.8166250d) Dec: -76 23 43.50 (-76.39542d) Equinox: J2000 | | V=19 |
| | <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|--------------|------------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|-------------------------------------|--|--|
| | | 1 | 1947-76_11_0 | (50) SMACSJ1947.1-7623 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 0X (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] |
| | 2 | 1947-76_14_0 | (50) SMACSJ1947.1-7623 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 0X (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 0Y - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

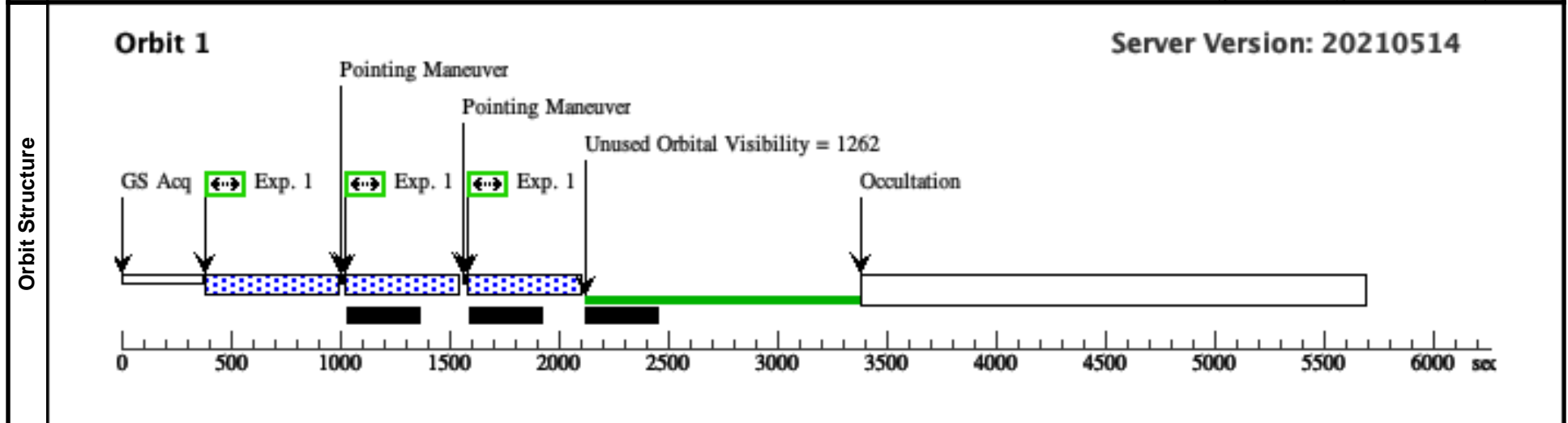
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 0Y, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (51) | SMACSJ2011.4-5725 | RA: 20 11 27.1700 (302.8632083d) Dec: -57 25 11.70 (-57.41992d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 2011-57_60 | (51) SMACSJ2011.4-5725 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 0Y (1) | 400 Secs (1200 Secs) |
| 6 | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 0Z - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

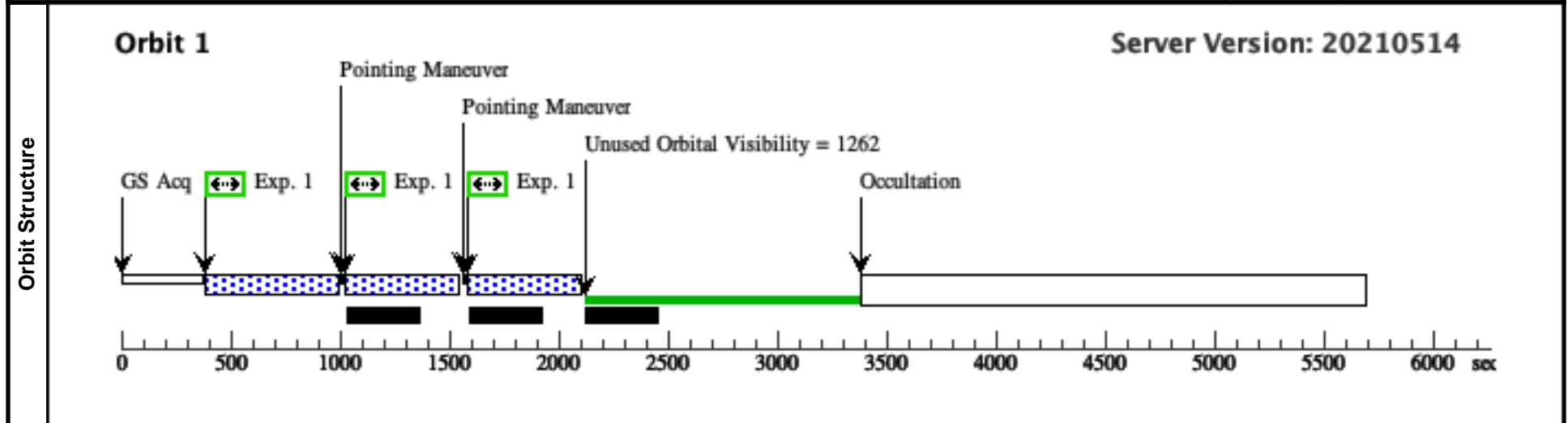
Thu Oct 07 11:02:22 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 0Z, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|--|------|-------------------|--|--------------------------|--------|-----------------------|
| | (51) | SMACSJ2011.4-5725 | RA: 20 11 27.1700 (302.8632083d) Dec: -57 25 11.70 (-57.41992d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |
| <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 2011-57_81 | (51) SMACSJ2011.4 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 0Z (1) | 400 Secs (1200 Secs) |
| 4 | | -5725 | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 1A - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

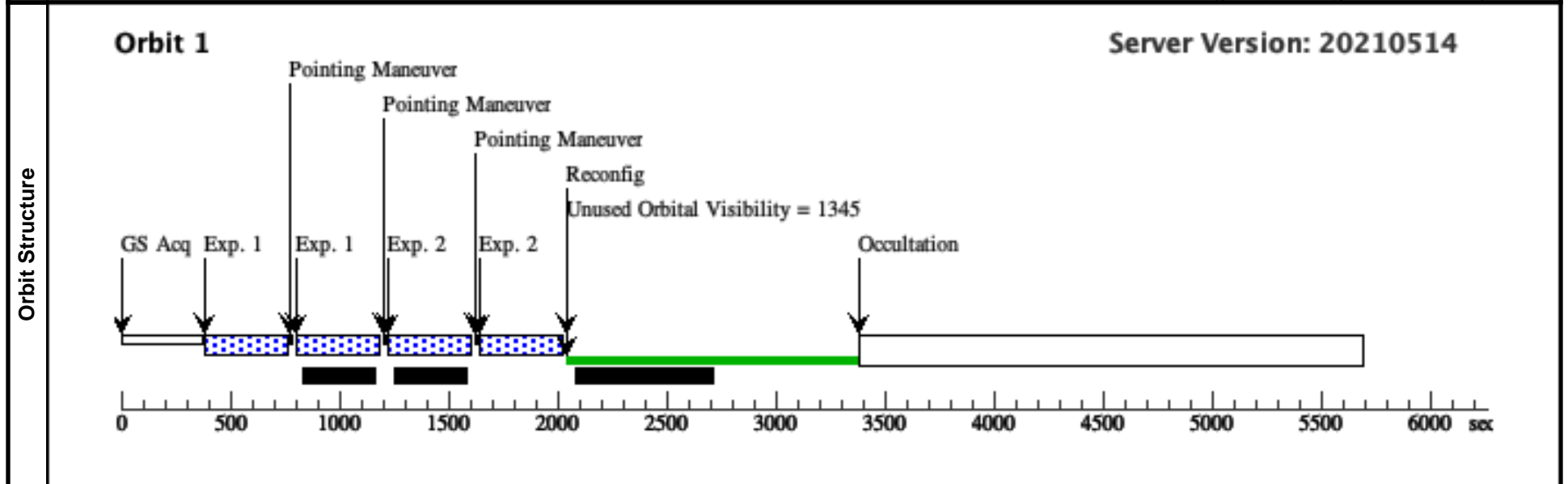
Thu Oct 07 11:02:22 GMT 2021

| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 1A, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|--|------|-------------------|--|--------------------------|--------|-----------------------|
| | (51) | SMACSJ2011.4-5725 | RA: 20 11 27.1700 (302.8632083d) Dec: -57 25 11.70 (-57.41992d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |
| <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|--------------|------------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|-------------------------------------|-------------------------------------|---------------------------------|-------|
| | 1 | 2011-57_11_0 | (51) SMACSJ2011.4-5725 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 1A (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | 2011-57_14_0 | (51) SMACSJ2011.4-5725 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 1A (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 1B - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

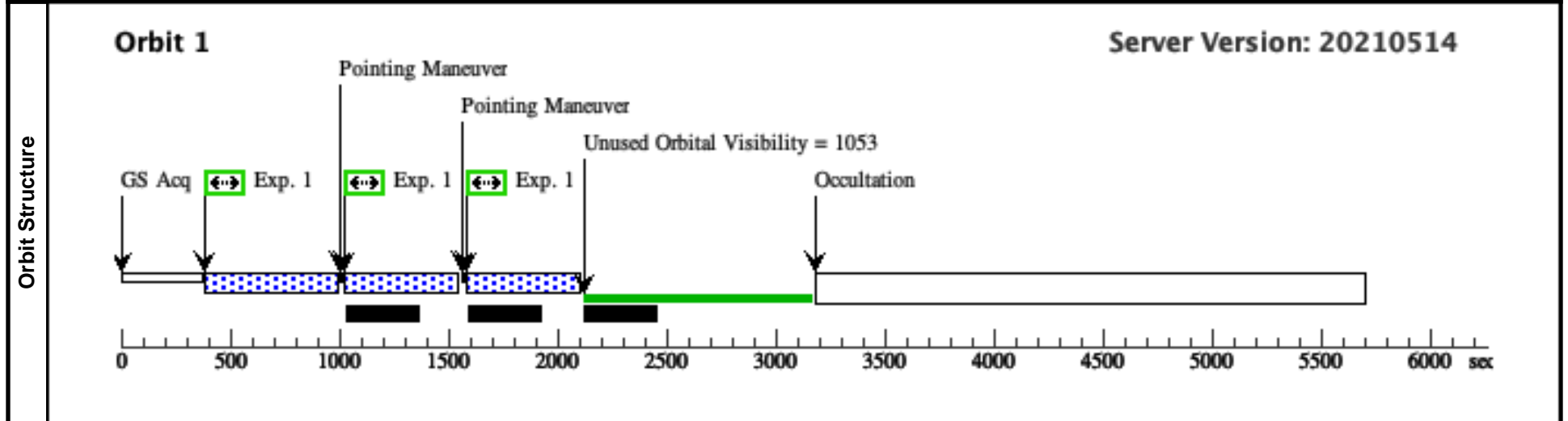
Thu Oct 07 11:02:22 GMT 2021

| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 1B, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|--|------|-------------------|---|--------------------------|--------|-----------------------|
| | (52) | EMACSJ0008.8+3212 | RA: 00 08 47.2400 (2.1968333d) Dec: +32 11 57.50 (32.19931d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |
| <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-------|------------|-------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0008+32_60 | (52) EMACSJ0008.8 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 1B (1) | 400 Secs (1200 Secs) |
| 6 | +3212 | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 1C - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

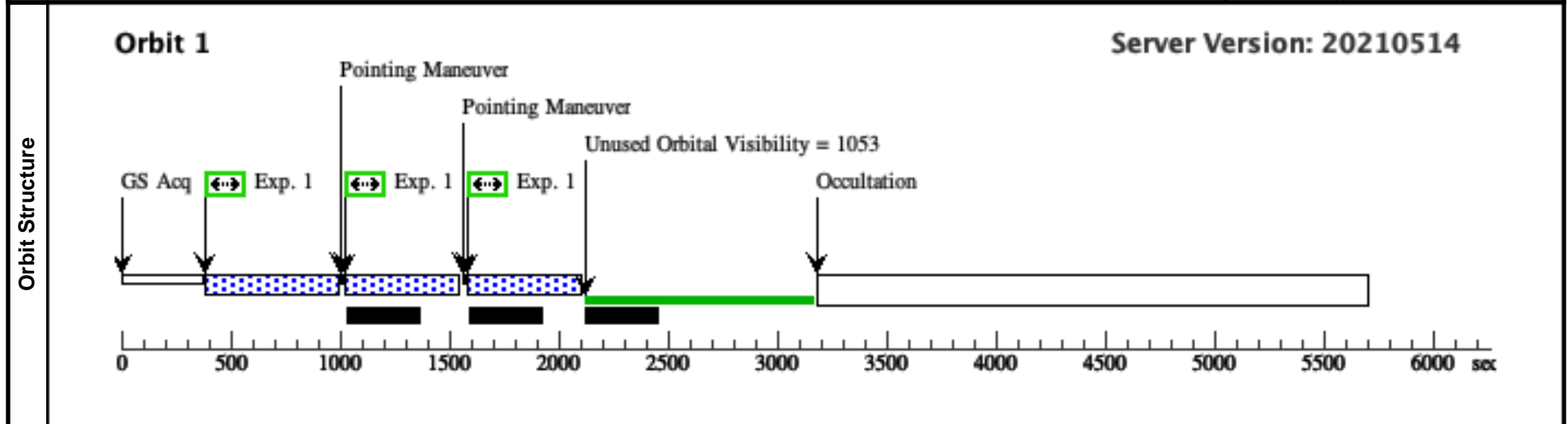
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 1C, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (52) | EMACSJ0008.8+3212 | RA: 00 08 47.2400 (2.1968333d) Dec: +32 11 57.50 (32.19931d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0008+32_81 | (52) EMACSJ0008.8 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 1C (1) | 400 Secs (1200 Secs) |
| 4 | | +3212 | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 1D - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

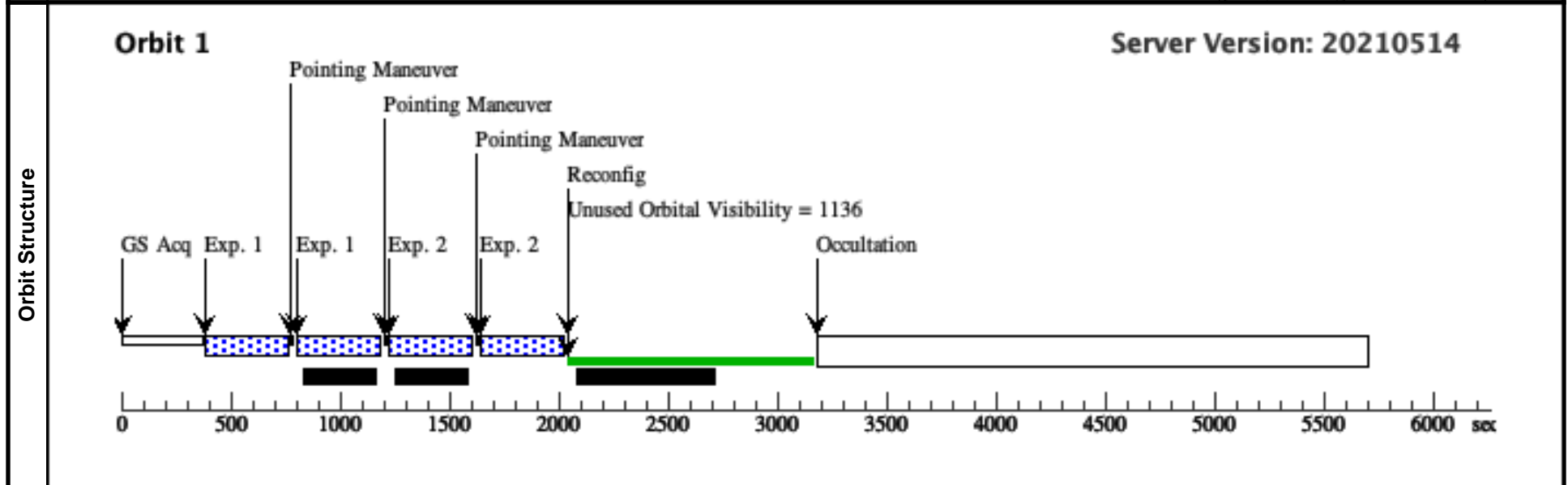
Thu Oct 07 11:02:22 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 1D, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|---|-----------------|--|-----------|
| | | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|--|------|--------------------|---|--------|---------------|
| | | (52) | EMACSJ0008.8+3212 | RA: 00 08 47.2400 (2.1968333d) Dec: +32 11 57.50 (32.19931d) Equinox: J2000 | | V=19 |
| | <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|----------------------------|----------------------------|-------------------------|-----------------------------------|-----------------------------------|---|--|--|
| | | 1 | 0008+32_11 0 | (52) EMACSJ0008.8 +3212 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 i n Visit 1D (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] |
| | 2 | 0008+32_14 0 | (52) EMACSJ0008.8 +3212 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 i n Visit 1D (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 1E - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

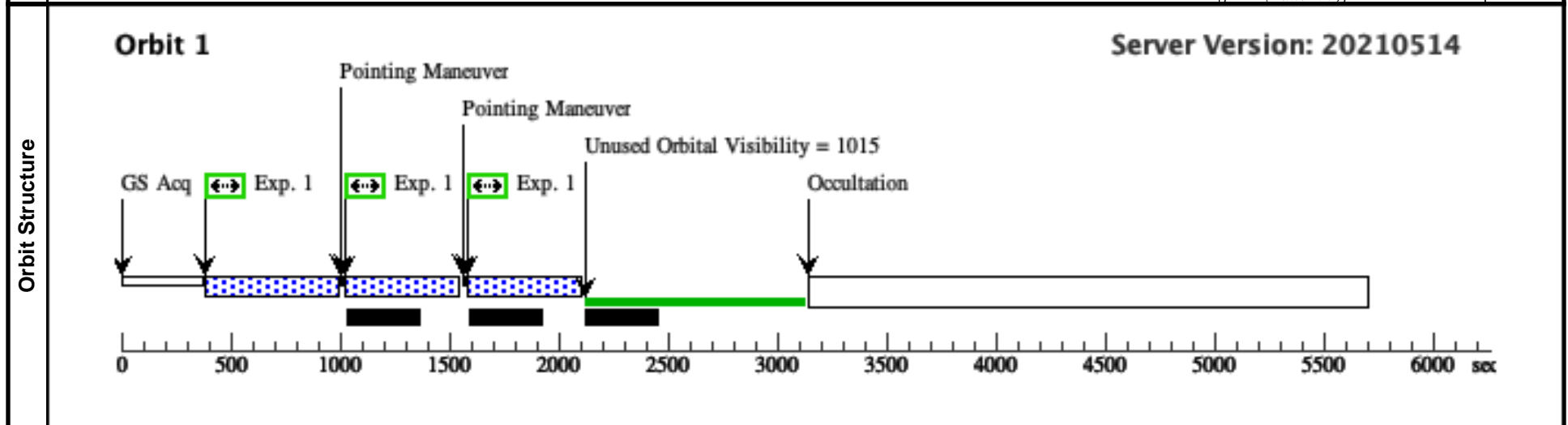
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 1E, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (53) | EMACSJ0052.6+0140 | RA: 00 52 37.1100 (13.1546250d) Dec: +01 40 53.00 (1.68139d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0052+01_60 | (53) EMACSJ0052.6+0140 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 1E (1) | 400 Secs (1200 Secs) |
| 6 | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 1F - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 1F, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

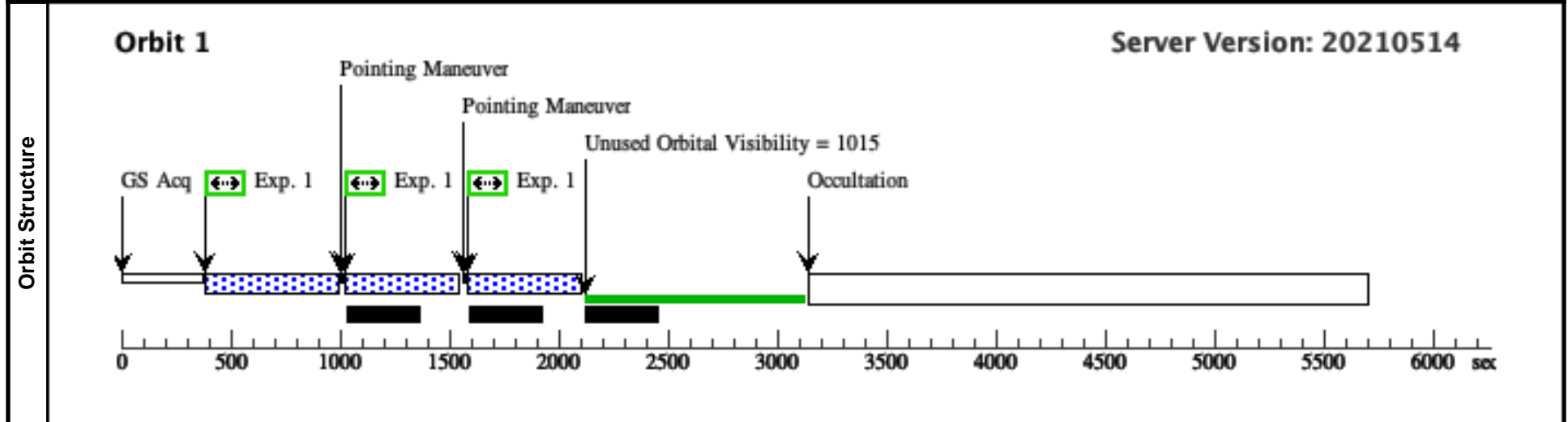
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (53) | EMACSJ0052.6+0140 | RA: 00 52 37.1100 (13.1546250d) Dec: +01 40 53.00 (1.68139d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|----------------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | 0052+01_81 4 | (53) EMACSJ0052.6 +0140 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 1F (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]

[1]



Proposal 16670 - Visit 1G - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

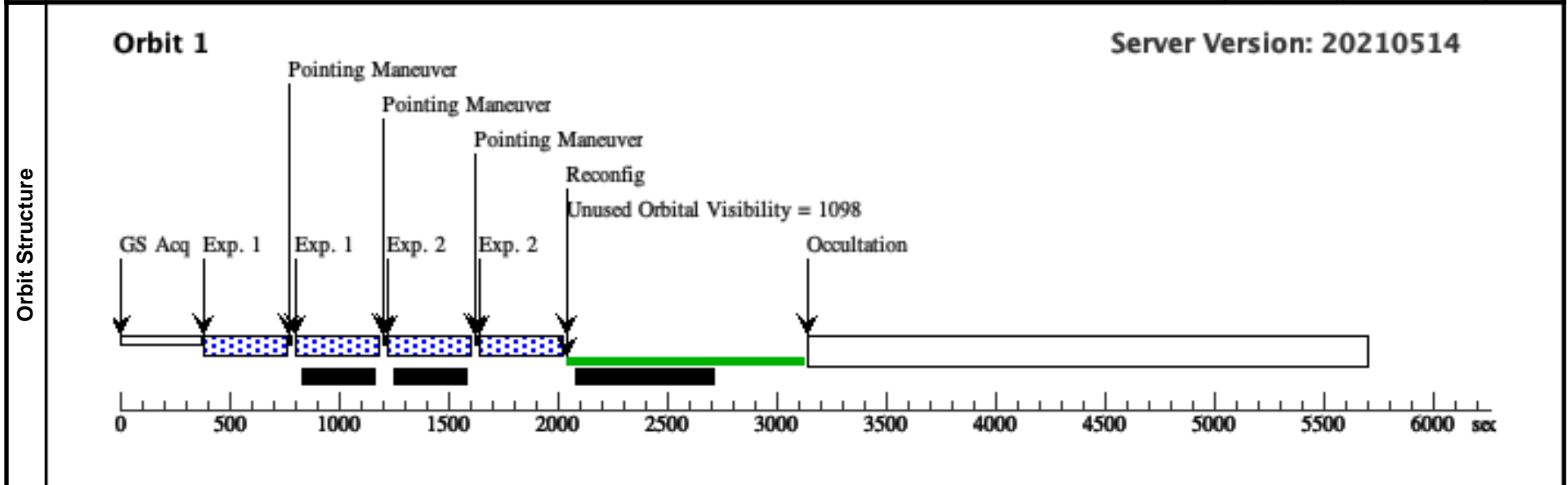
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 1G, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (53) | EMACSJ0052.6+0140 | RA: 00 52 37.1100 (13.1546250d) Dec: +01 40 53.00 (1.68139d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|--------------|------------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|-------------------------------------|-------------------------------------|---------------------------------|-------|
| | 1 | 0052+01_11_0 | (53) EMACSJ0052.6+0140 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 1G (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | 0052+01_14_0 | (53) EMACSJ0052.6+0140 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 1G (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 1H - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

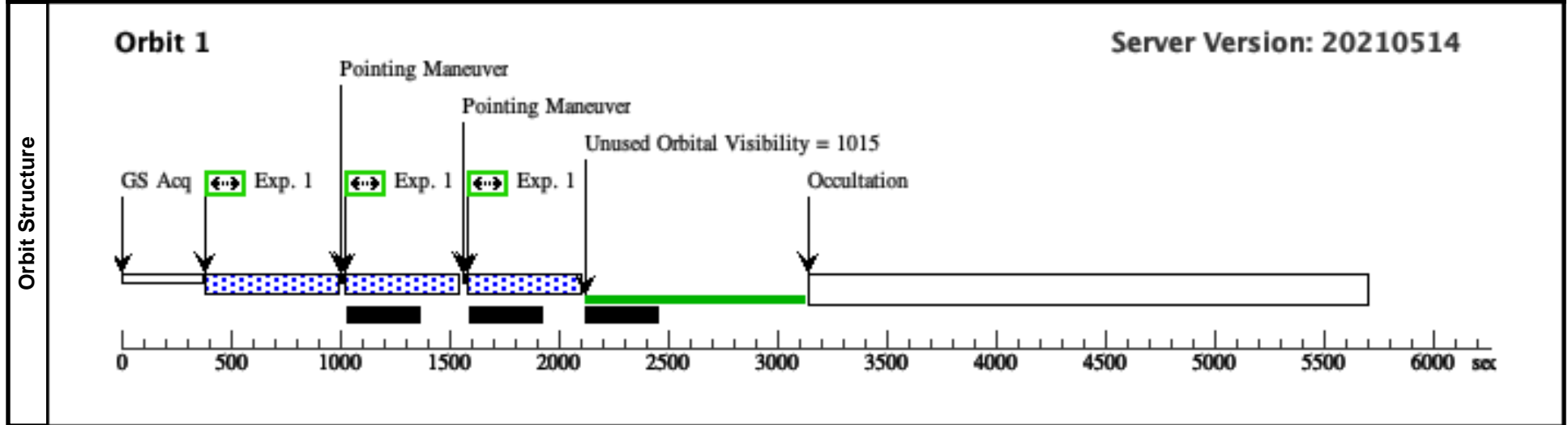
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 1H, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (54) | MACSJ0326.8-0043 | RA: 03 26 49.9500 (51.7081250d) Dec: -00 43 51.20 (-.73089d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-------------|-----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0326-00_814 | (54) MACSJ0326.8-0043 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 1H (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 1I - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

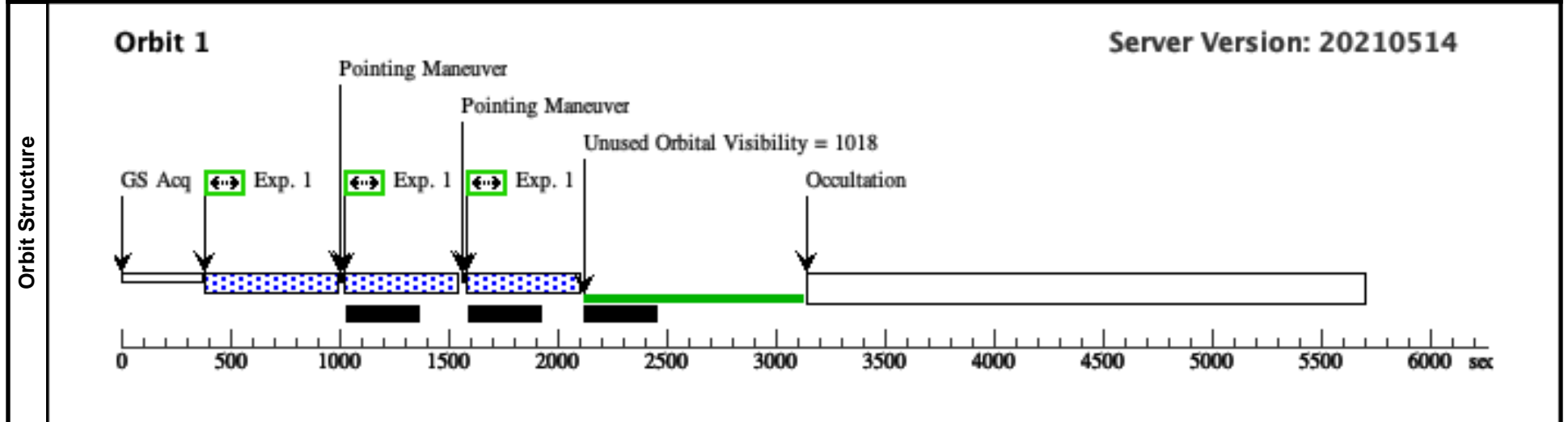
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 1I, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (55) | EMACSJ0337.8+0748 | RA: 03 37 47.8700 (54.4494583d) Dec: +07 47 52.90 (7.79803d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0337+07_60 | (55) EMACSJ0337.8 +0748 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 1I (1) | 400 Secs (1200 Secs) |
| 6 | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 1J - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 1J, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

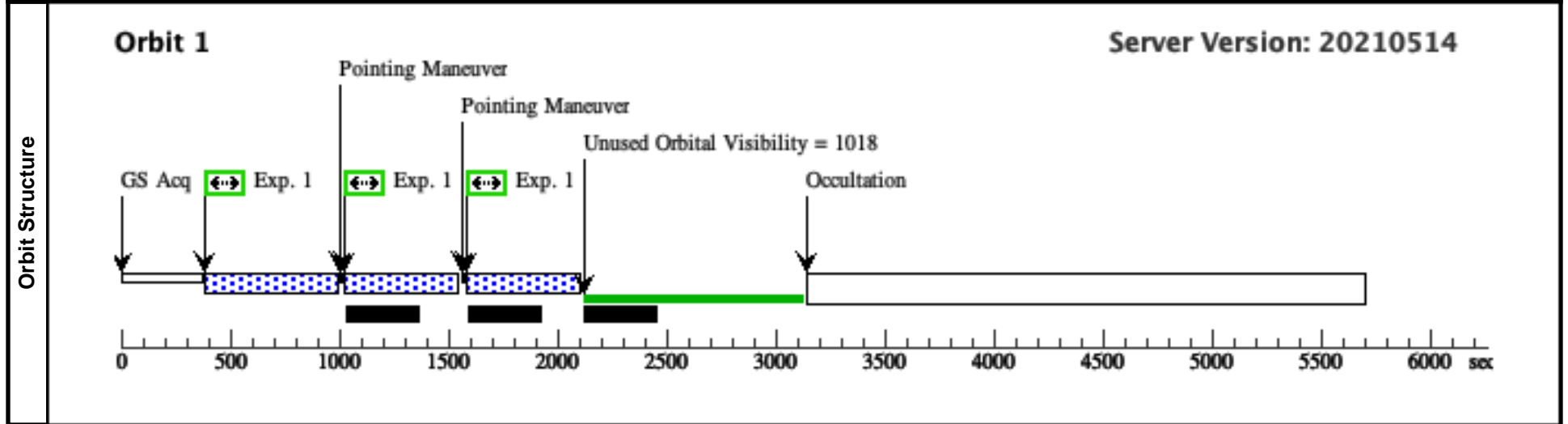
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (55) | EMACSJ0337.8+0748 | RA: 03 37 47.8700 (54.4494583d) Dec: +07 47 52.90 (7.79803d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
Category=CLUSTER OF GALAXIES
Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|----------------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | 0337+07_81 4 | (55) EMACSJ0337.8 +0748 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 1J (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]

[1]



Proposal 16670 - Visit 1K - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

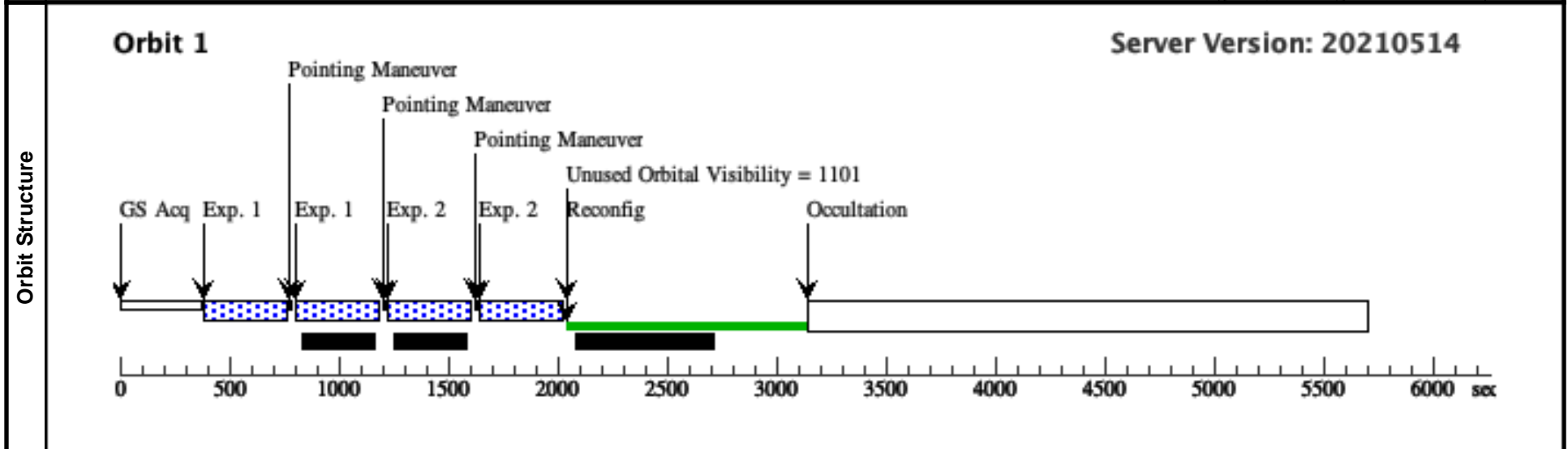
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 1K, implementation | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: WFC3/IR | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (55) | EMACSJ0337.8+0748 | RA: 03 37 47.8700 (54.4494583d) Dec: +07 47 52.90 (7.79803d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-----------------|----------------------------|----------------------------|-------------------------|-----------------------------------|-----------------------------------|---|---|---------------------------------|-------|
| | 1 | 0337+07_11 0 | (55) EMACSJ0337.8 +0748 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 i n Visit 1K (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | 0337+07_14 0 | (55) EMACSJ0337.8 +0748 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 i n Visit 1K (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 1L - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

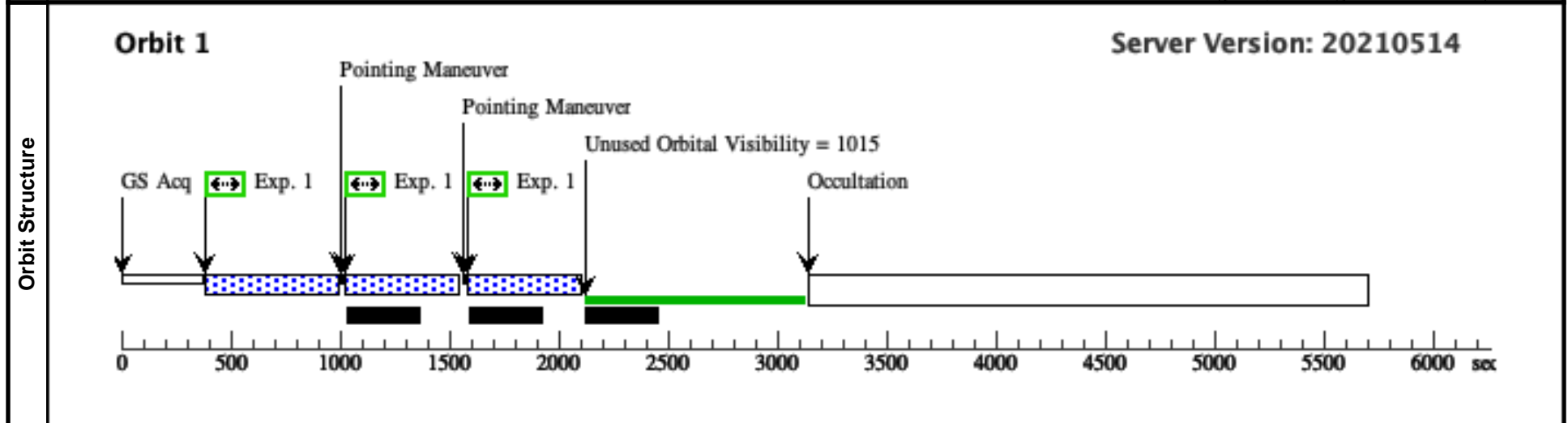
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 1L, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (56) | EMACSJ0411.7-0010 | RA: 04 11 43.5900 (62.9316250d) Dec: -00 10 56.30 (-.18231d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0411-00_60 | (56) EMACSJ0411.7-0010 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 1L (1) | 400 Secs (1200 Secs) |
| 6 | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 1M - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 1M, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

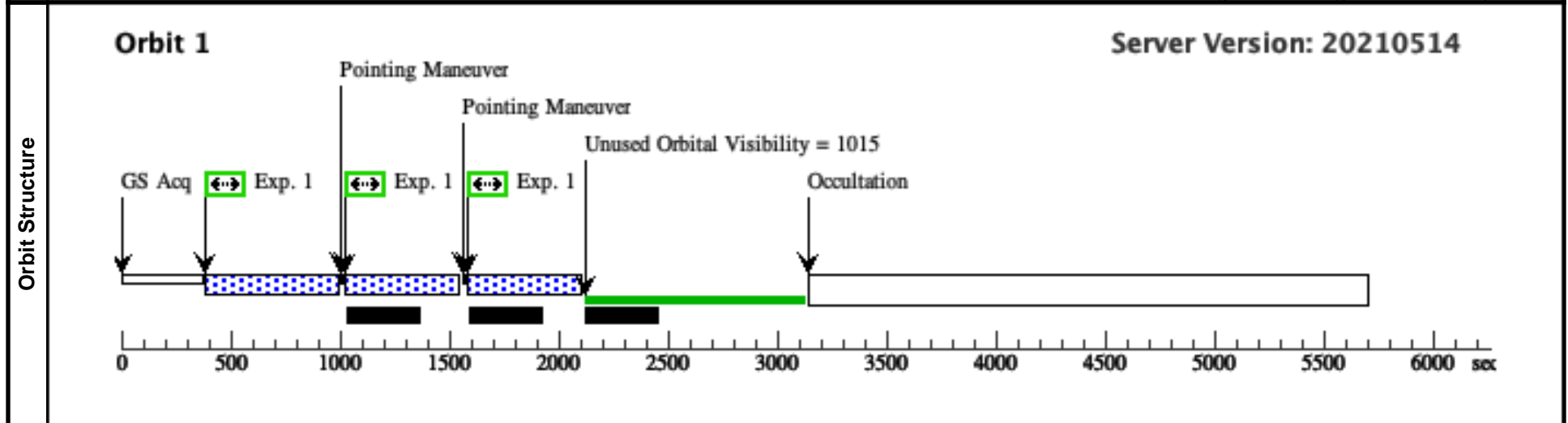
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (56) | EMACSJ0411.7-0010 | RA: 04 11 43.5900 (62.9316250d) Dec: -00 10 56.30 (-.18231d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-------------|------------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | 0411-00_814 | (56) EMACSJ0411.7-0010 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 1M (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]



Proposal 16670 - Visit 1N - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

| Visit | Proposal 16670, Visit 1N, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--|--|--|-------------------------------------|--------------------------------|---------------|-------------------------------------|--|--------|---------------------------------|-------|---|-------------|------------------------|-------------------------|-------|--------------------------------|--|-------------------------------------|--|-----|---|-------------|------------------------|-------------------------|-------|--------------------------------|--|-------------------------------------|--|-----|--|--|--|--|
| | Patterns | # (2) Primary Pattern Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | Secondary Pattern | Exposures (1), (2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fixed Targets | # (56) Name EMACSJ0411.7-0010 Target Coordinates RA: 04 11 43.5900 (62.9316250d) Dec: -00 10 56.30 (-.18231d) Equinox: J2000 Comments: Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | Targ. Coord. Corrections | Fluxes V=19 | Miscellaneous Reference Frame: ICRS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exposures | <table border="1"> <thead> <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> </thead> <tbody> <tr> <td>1</td> <td>0411-00_110</td> <td>(56) EMACSJ0411.7-0010</td> <td>WFC3/IR, MULTIACCUM, IR</td> <td>F110W</td> <td>SAMP-SEQ=SPARS 25; NSAMP=15</td> <td></td> <td>Pattern 2, Exps 1-1 in Visit 1N (2)</td> <td>352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>0411-00_140</td> <td>(56) EMACSJ0411.7-0010</td> <td>WFC3/IR, MULTIACCUM, IR</td> <td>F140W</td> <td>SAMP-SEQ=SPARS 25; NSAMP=15</td> <td></td> <td>Pattern 2, Exps 2-2 in Visit 1N (2)</td> <td>352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)]</td> <td>[1]</td> </tr> </tbody> </table> | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit | 1 | 0411-00_110 | (56) EMACSJ0411.7-0010 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 1N (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] | 2 | 0411-00_140 | (56) EMACSJ0411.7-0010 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 1N (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] | | | | |
| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 0411-00_110 | (56) EMACSJ0411.7-0010 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 1N (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 0411-00_140 | (56) EMACSJ0411.7-0010 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 1N (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Orbit Structure | <div style="display: flex; justify-content: space-between;"> Orbit 1 Server Version: 20210514 </div> <p>The diagram shows a timeline from 0 to 6000 seconds. Key events include: GS Acq at ~100s, Exp. 1 at ~400s, Exp. 1 at ~800s, Exp. 2 at ~1200s, Exp. 2 at ~1600s, Reconfig at ~2000s, and Occultation starting at ~3100s. Pointing maneuvers occur between exposures. A green bar indicates the active observation period from ~400s to ~3100s. A note indicates 'Unused Orbital Visibility = 1098' between 2000s and 3100s.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 16670 - Visit 1O - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

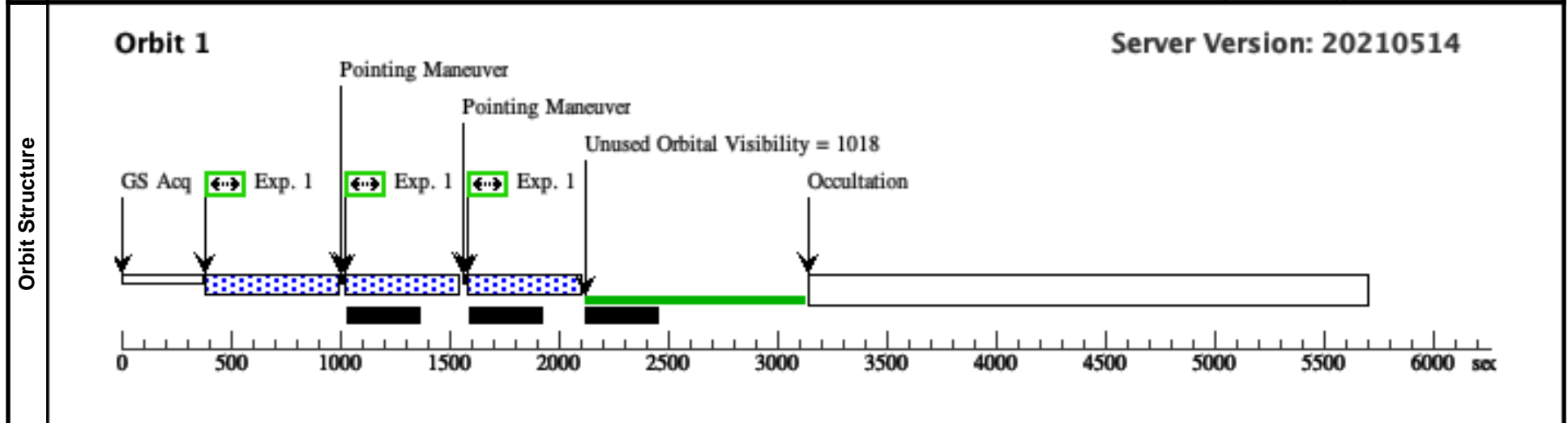
Thu Oct 07 11:02:22 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 1O, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | (1) |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|--|------------------|---|--------------------------|--------|-----------------------|
| | (57) | MACSJ0455.2+0657 | RA: 04 55 17.3800 (73.8224167d) Dec: +06 57 49.30 (6.96369d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |
| | <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-----------------------|----------------------|---------------|--------------|---------------|-------------------------------------|---|-------|
| | 1 | 0455+06_60 | (57) MACSJ0455.2+0657 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | Pattern 1, Exps 1-1 in Visit 1O (1) | 400 Secs (1200 Secs) | |
| | 6 | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 1P - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

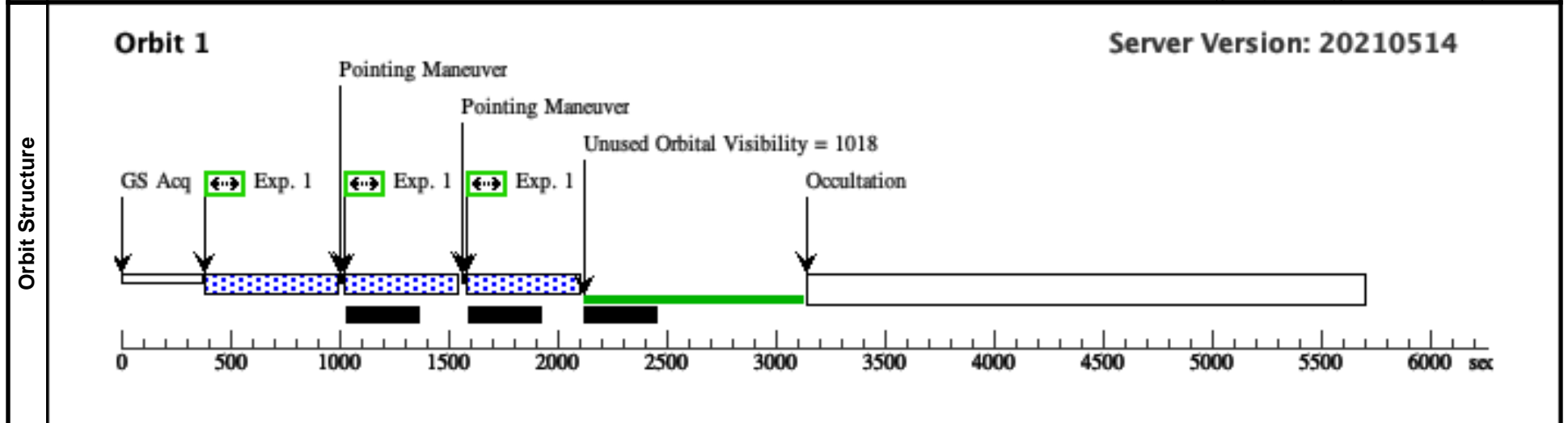
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 1P, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|---|--------------------------|--------|-----------------------|
| | (57) | MACSJ0455.2+0657 | RA: 04 55 17.3800 (73.8224167d) Dec: +06 57 49.30 (6.96369d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|---------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0455+06_81 4 | (57) MACSJ0455.2+ 0657 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 i n Visit 1P (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 1Q - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

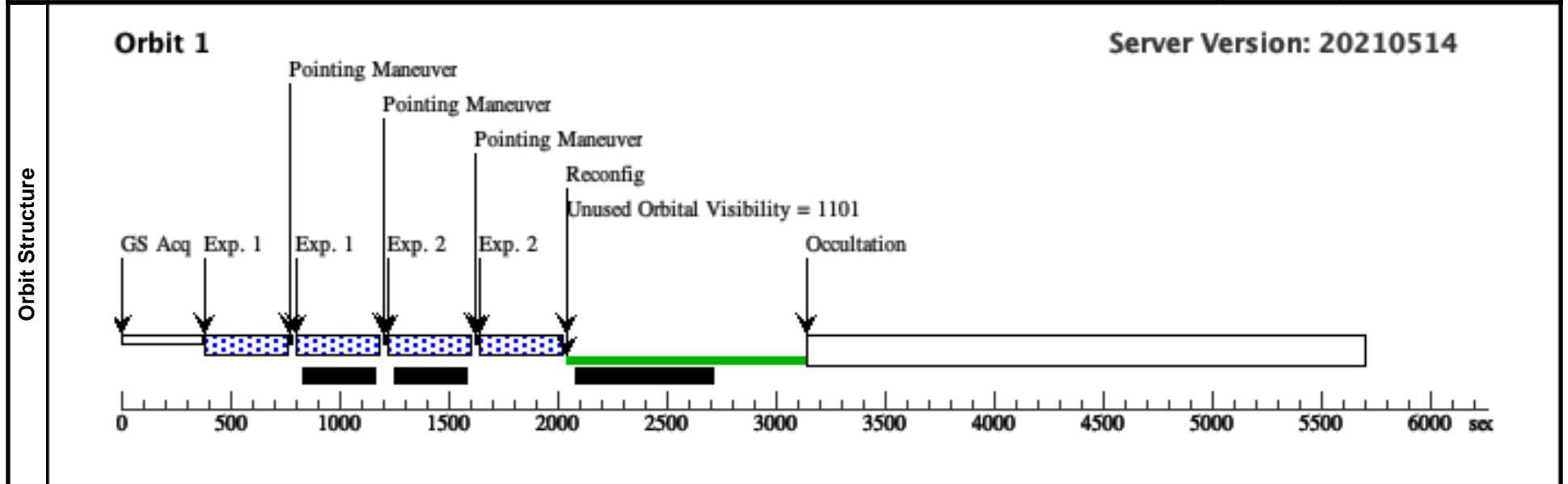
Thu Oct 07 11:02:22 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 1Q, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|-------------------|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | | (1), (2) |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|--|------------------|---|--------------------------|--------|-----------------------|
| | (57) | MACSJ0455.2+0657 | RA: 04 55 17.3800 (73.8224167d) Dec: +06 57 49.30 (6.96369d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |
| | <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|---------------------------|-------------------------|---------------|-----------------------------------|---------------|---|--|-------|
| | 1 | 0455+06_11 0 | (57) MACSJ0455.2+ 0657 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 i n Visit 1Q (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |
| | 2 | 0455+06_14 0 | (57) MACSJ0455.2+ 0657 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 i n Visit 1Q (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 1R - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

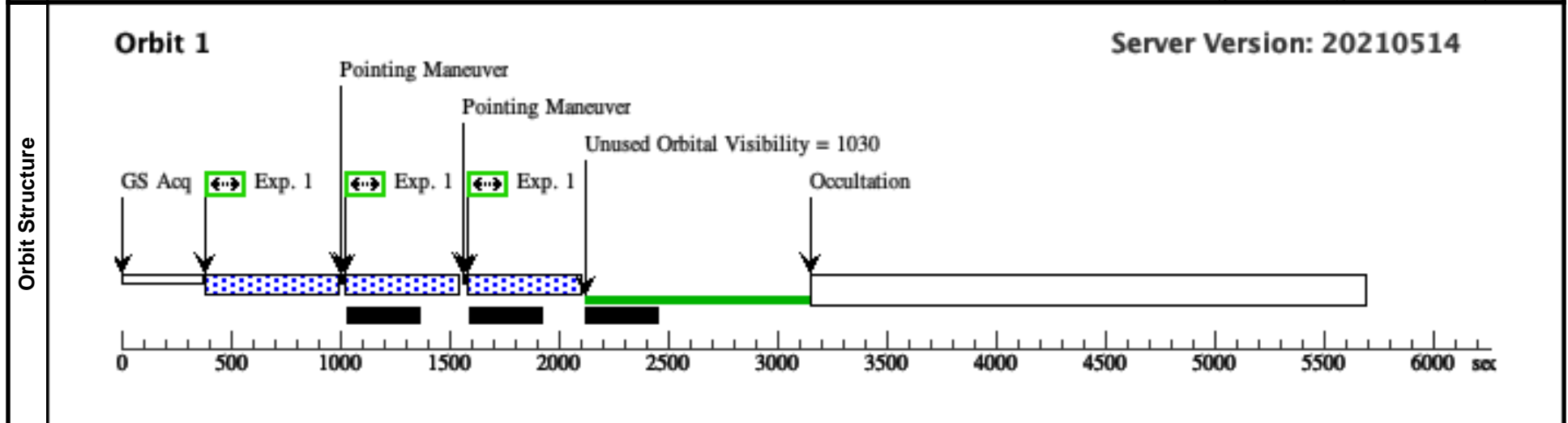
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 1R, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (58) | EMACSJ0813.6+2202 | RA: 08 13 36.5800 (123.4024167d) Dec: +22 05 0.70 (22.08353d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0813+22_60 | (58) EMACSJ0813.6+2202 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 1R (1) | 400 Secs (1200 Secs) |
| 6 | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 1S - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

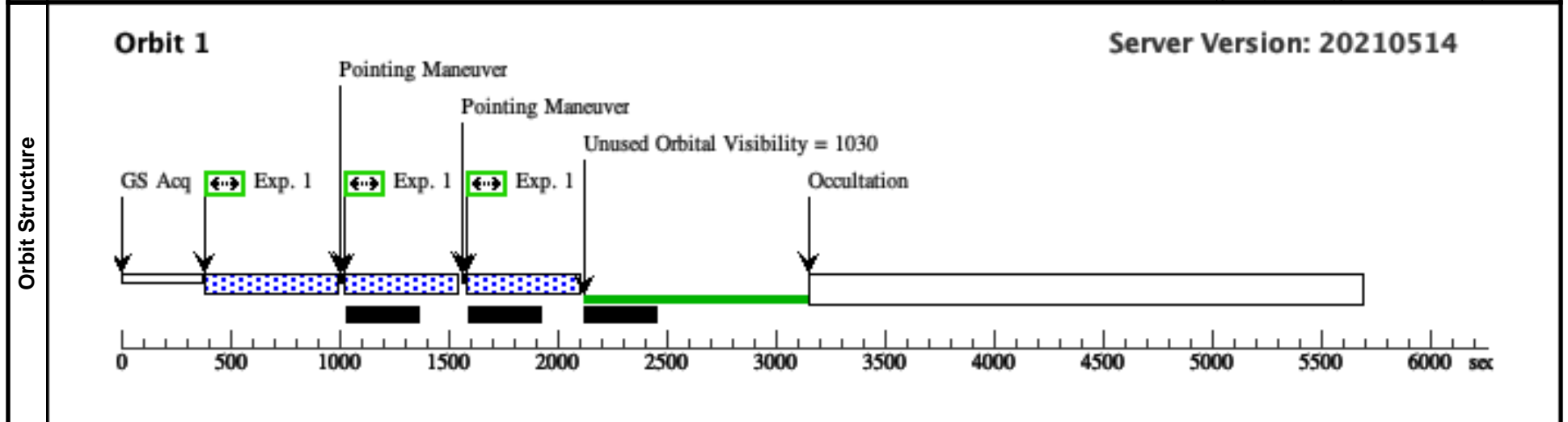
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 1S, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (58) | EMACSJ0813.6+2202 | RA: 08 13 36.5800 (123.4024167d) Dec: +22 05 0.70 (22.08353d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|----------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0813+22_81 4 | (58) EMACSJ0813.6 +2202 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 1S (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 1T - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

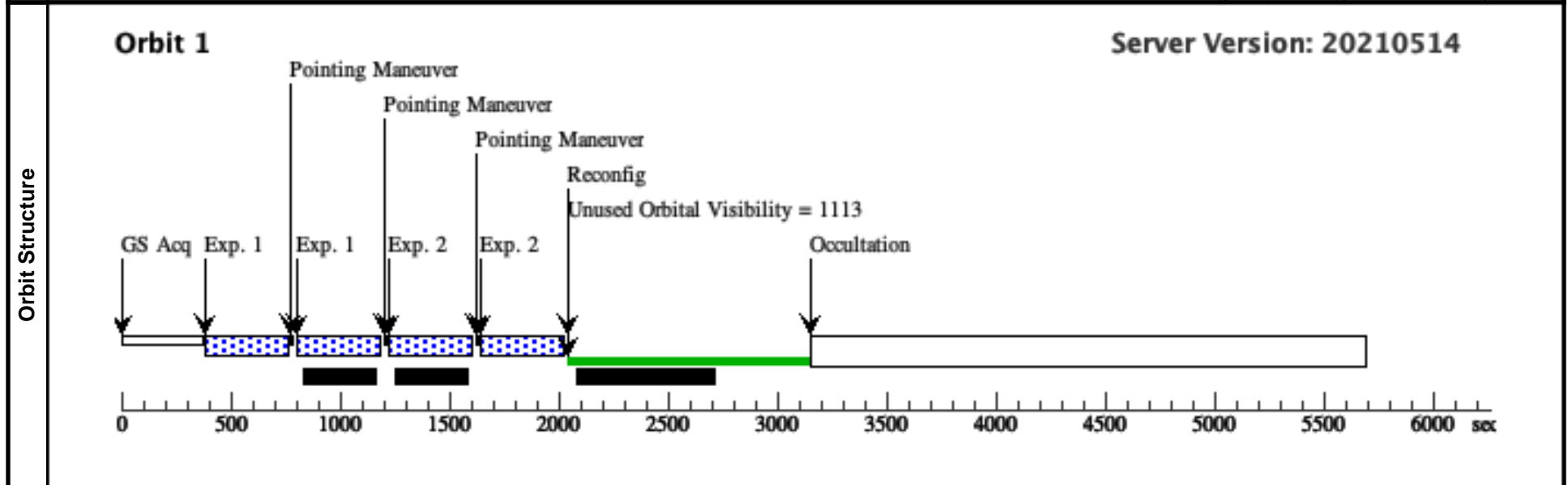
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 1T, implementation | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: WFC3/IR | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (58) | EMACSJ0813.6+2202 | RA: 08 13 36.5800 (123.4024167d) Dec: +22 05 0.70 (22.08353d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
Category=CLUSTER OF GALAXIES
Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-----------------|----------------------------|----------------------------|-------------------------|-----------------------------------|-----------------------------------|---|---|---------------------------------|-------|
| | 1 | 0813+22_11 0 | (58) EMACSJ0813.6 +2202 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 i n Visit 1T (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | 0813+22_14 0 | (58) EMACSJ0813.6 +2202 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 i n Visit 1T (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 1U - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

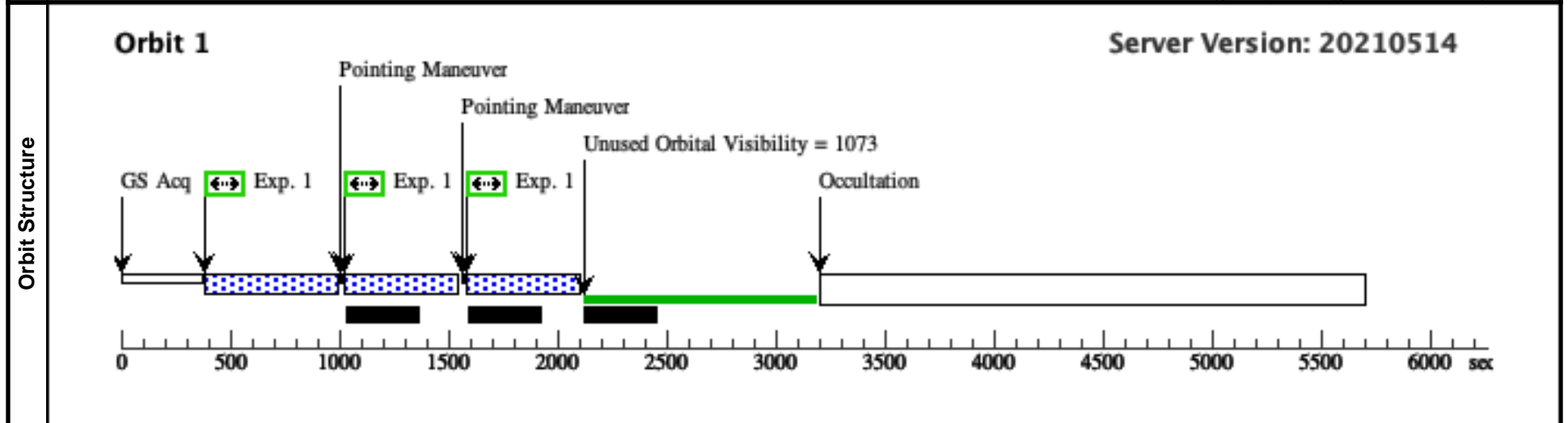
Thu Oct 07 11:02:22 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 1U, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|--|------|-------------------|---|--------------------------|--------|-----------------------|
| | (59) | EMACSJ0856.1+3755 | RA: 08 56 12.6600 (134.0527500d) Dec: +37 56 15.60 (37.93767d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |
| <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0856+37_60 | (59) EMACSJ0856.1 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 1U (1) | 400 Secs (1200 Secs) |
| 6 | | +3755 | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 1V - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

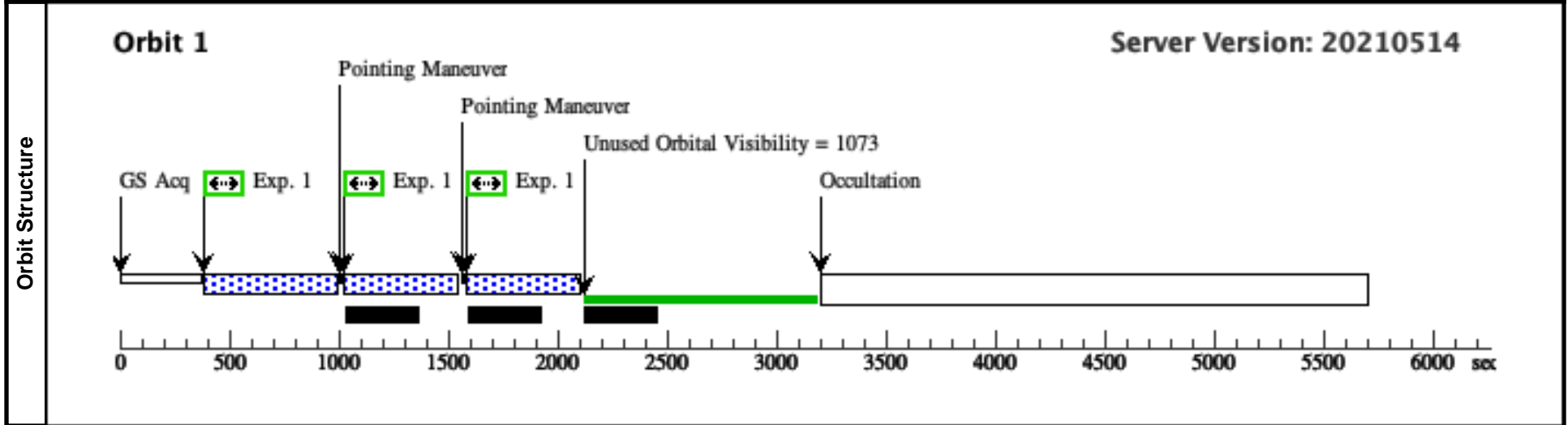
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 1V, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (59) | EMACSJ0856.1+3755 | RA: 08 56 12.6600 (134.0527500d) Dec: +37 56 15.60 (37.93767d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0856+37_81 | (59) EMACSJ0856.1 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 1V (1) | 400 Secs (1200 Secs) |
| 4 | | +3755 | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 1W - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

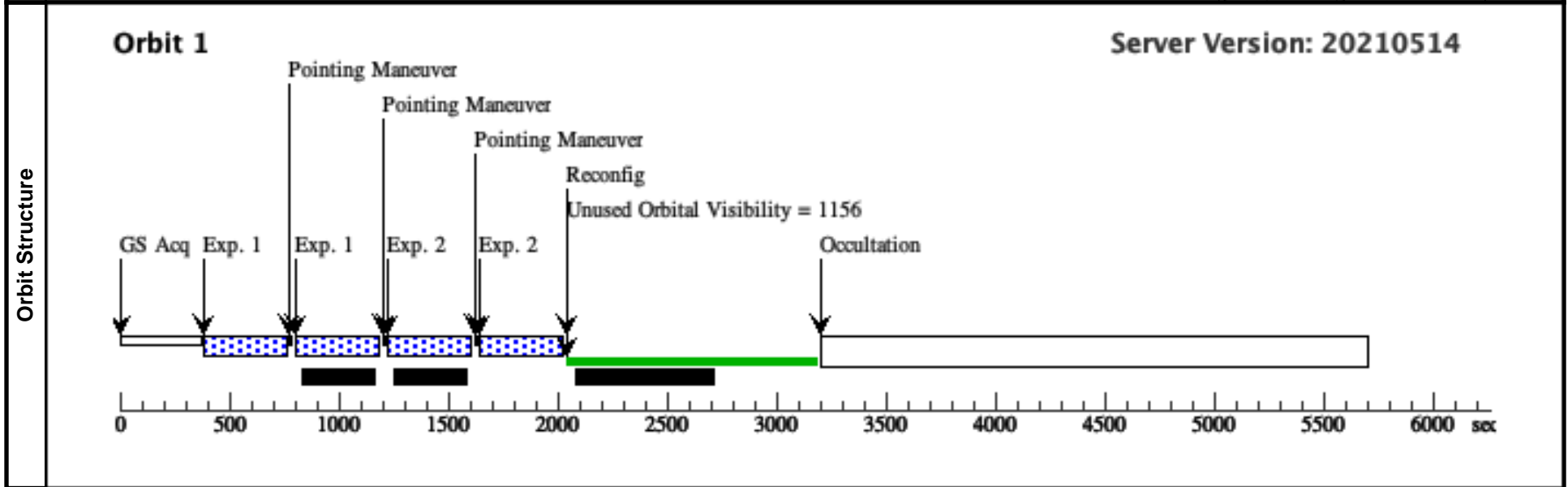
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 1W, implementation | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: WFC3/IR | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (59) | EMACSJ0856.1+3755 | RA: 08 56 12.6600 (134.0527500d) Dec: +37 56 15.60 (37.93767d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-----------------|----------------------------|----------------------------|-------------------------|-----------------------------------|-----------------------------------|-------------------------------------|-------------------------------------|---------------------------------|-------|
| | 1 | 0856+37_11 0 | (59) EMACSJ0856.1 +3755 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 1W (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | 0856+37_14 0 | (59) EMACSJ0856.1 +3755 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 1W (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 1X - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

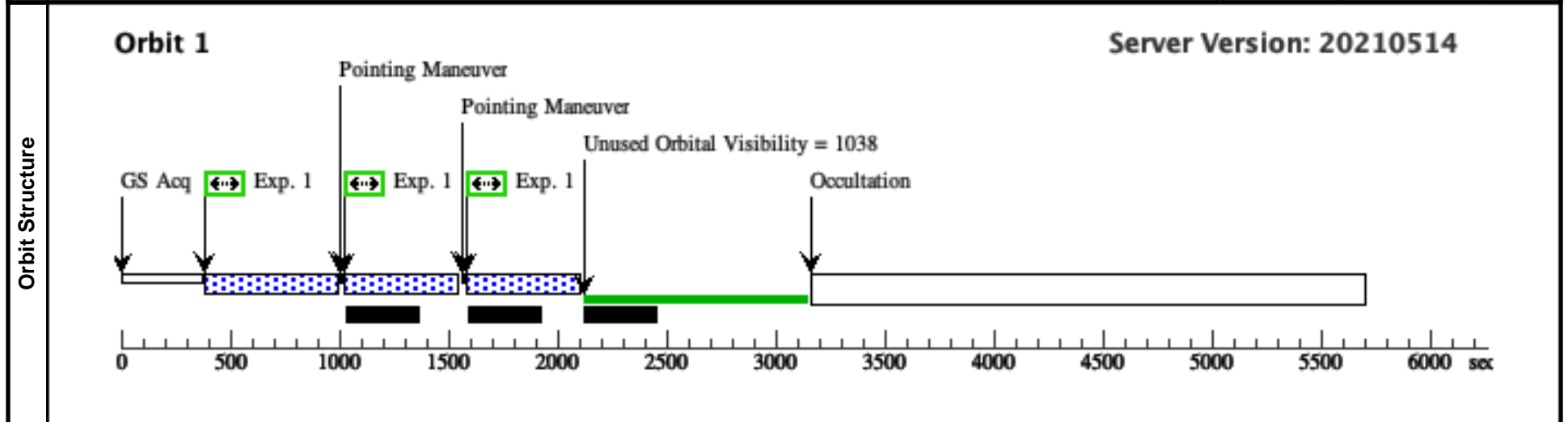
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 1X, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (60) | EMACSJ0903.0+2739 | RA: 09 03 3.2100 (135.7633750d) Dec: +27 39 29.50 (27.65819d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0903+27_60 | (60) EMACSJ0903.0 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 1X (1) | 400 Secs (1200 Secs) |
| 6 | | +2739 | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 1Y - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

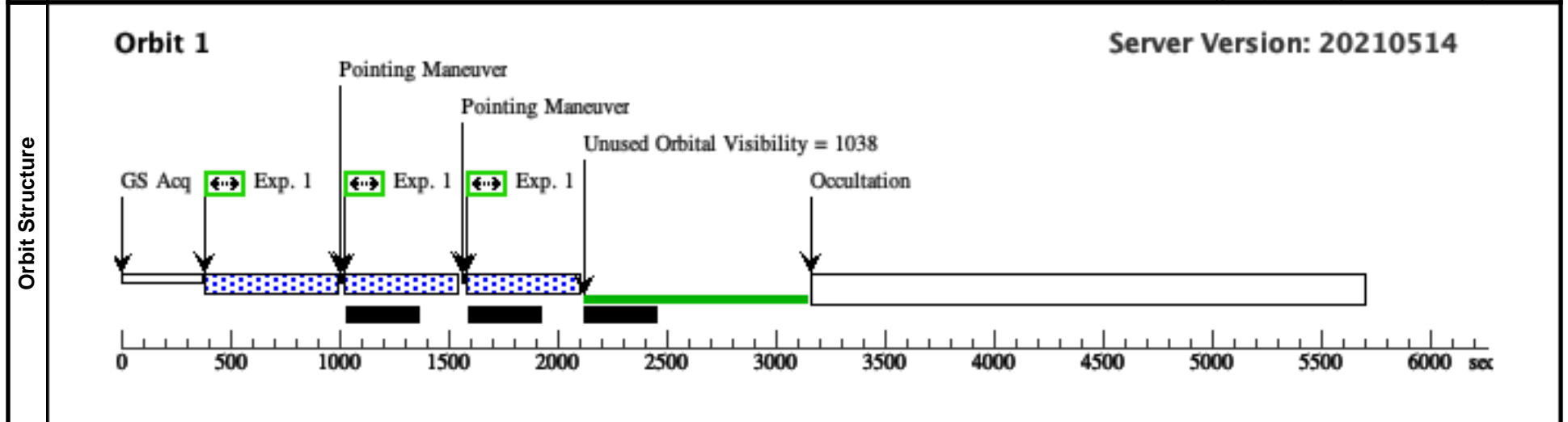
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 1Y, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (60) | EMACSJ0903.0+2739 | RA: 09 03 3.2100 (135.7633750d) Dec: +27 39 29.50 (27.65819d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0903+27_81 | (60) EMACSJ0903.0 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 1Y (1) | 400 Secs (1200 Secs) |
| 4 | | +2739 | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 1Z - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

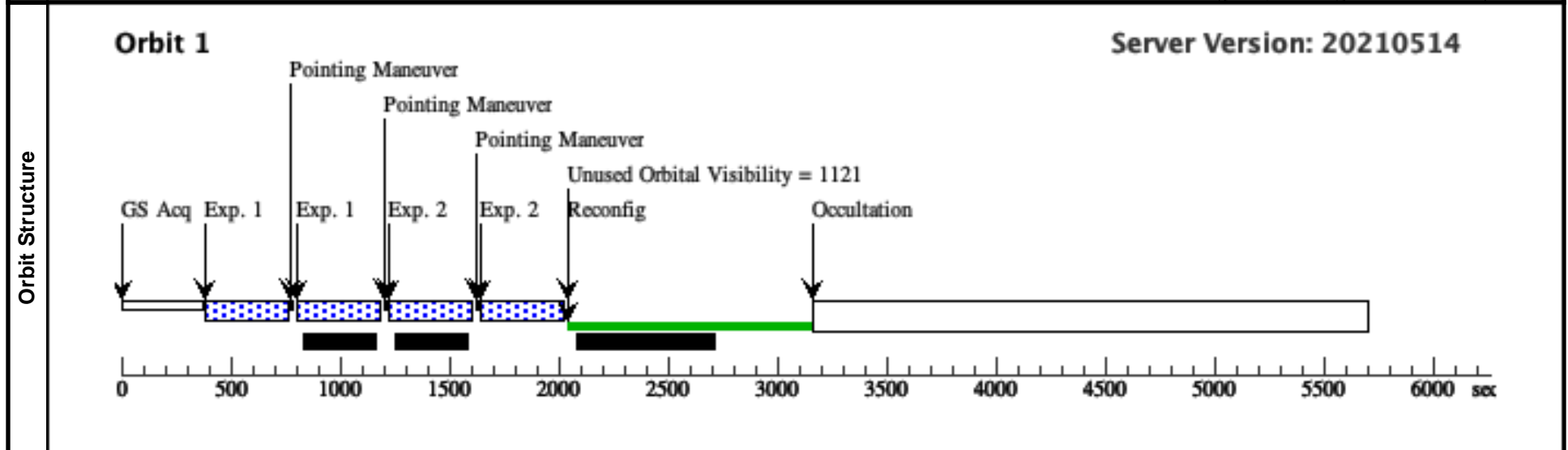
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 1Z, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (60) | EMACSJ0903.0+2739 | RA: 09 03 3.2100 (135.7633750d) Dec: +27 39 29.50 (27.65819d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|--------------|------------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|---------------|-------------------------------------|--|--|
| | 1 | 0903+27_11_0 | (60) EMACSJ0903.0+2739 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 1-1 in Visit 1Z (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] |
| 2 | 0903+27_14_0 | (60) EMACSJ0903.0+2739 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 2-2 in Visit 1Z (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 2A - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

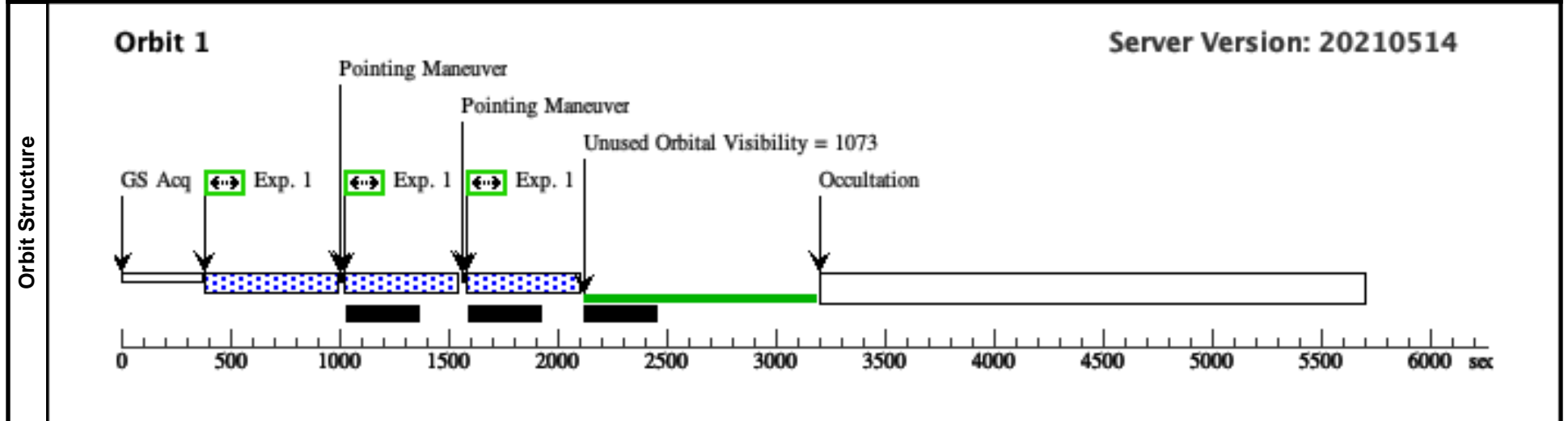
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 2A, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (61) | EMACSJ0909.0+3633 | RA: 09 09 6.2000 (137.2758333d) Dec: +36 33 0.70 (36.55019d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
Category=CLUSTER OF GALAXIES
Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0909+36_60 | (61) EMACSJ0909.0 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 2A (1) | 400 Secs (1200 Secs) |
| 6 | | +3633 | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 2B - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

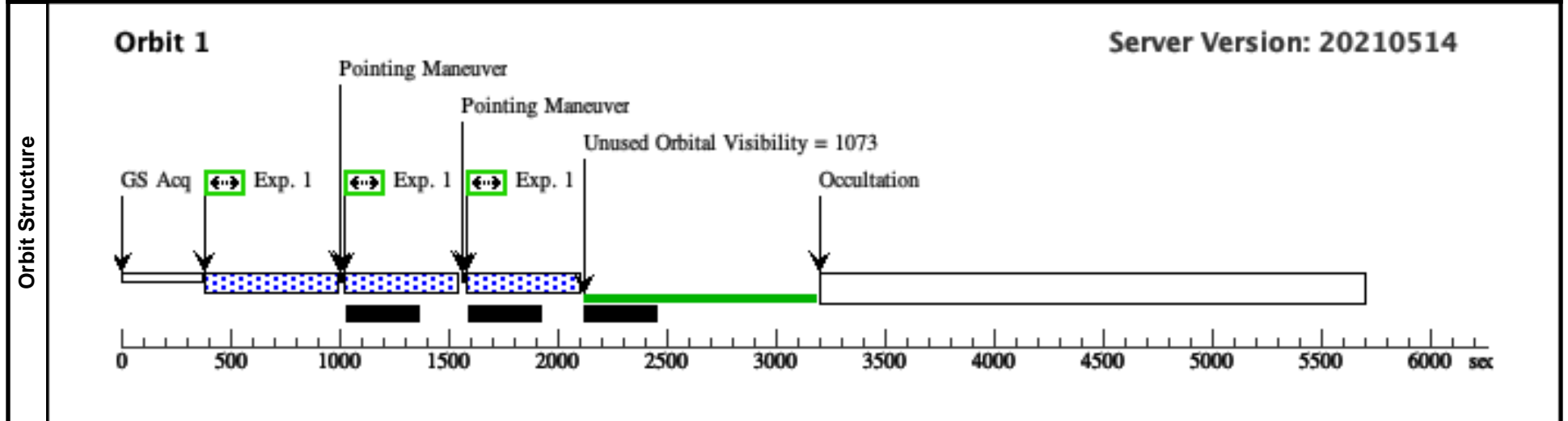
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 2B, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (61) | EMACSJ0909.0+3633 | RA: 09 09 6.2000 (137.2758333d) Dec: +36 33 0.70 (36.55019d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 0909+36_81 | (61) EMACSJ0909.0 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 2B (1) | 400 Secs (1200 Secs) |
| 4 | | +3633 | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 2C - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

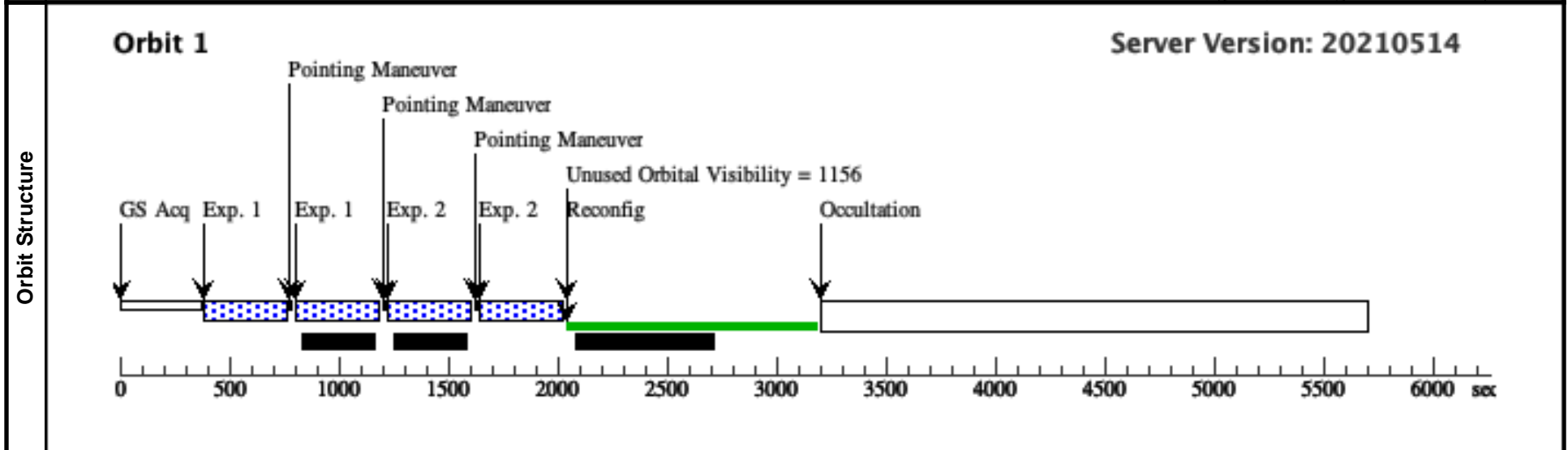
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 2C, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
|--------------|---|--|--|

| | | | | |
|-----------------|-----|--|--------------------------|------------------|
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | | (1), (2) |

| | | | | | | |
|----------------------|------|-------------------|---|---------------------------------|---------------|-----------------------|
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
| | (61) | EMACSJ0909.0+3633 | RA: 09 09 6.2000 (137.2758333d) Dec: +36 33 0.70 (36.55019d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|-----------------|----------------------------|-------------------------|---------------|-----------------------------------|---------------|---|--|-------|
| 1 | 0909+36_11 0 | (61) EMACSJ0909.0 +3633 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 i n Visit 2C (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |
| 2 | 0909+36_14 0 | (61) EMACSJ0909.0 +3633 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 i n Visit 2C (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 2D - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

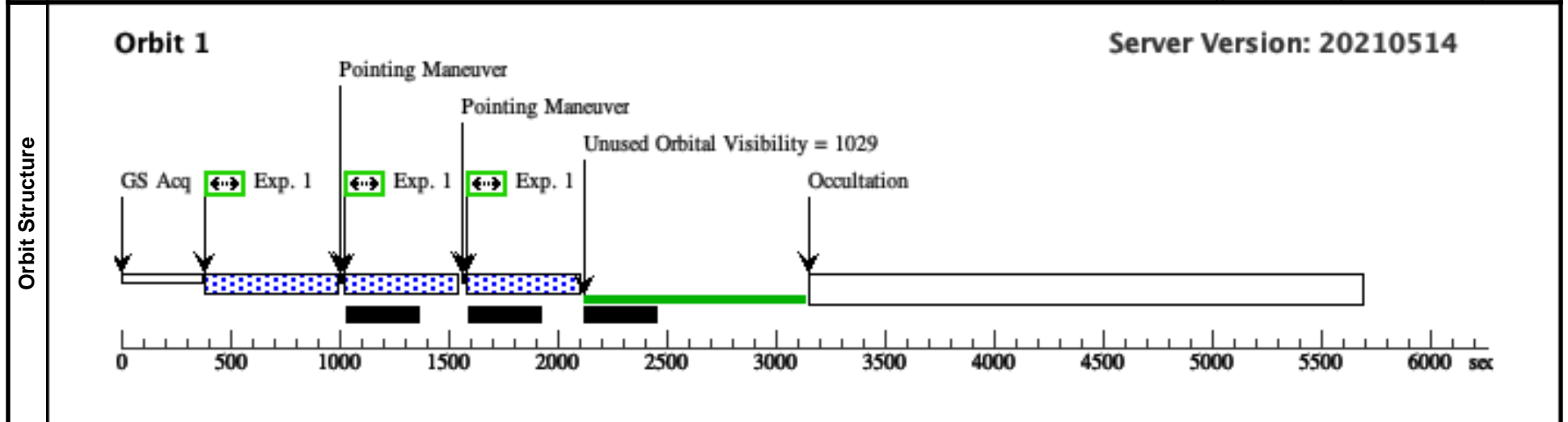
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 2D, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (62) | EMACSJ1042.5+1735 | RA: 10 42 36.3800 (160.6515833d) Dec: +17 35 27.10 (17.59086d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1042+17_60 | (62) EMACSJ1042.5 +1735 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 2D (1) | 400 Secs (1200 Secs) |
| 6 | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 2E - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

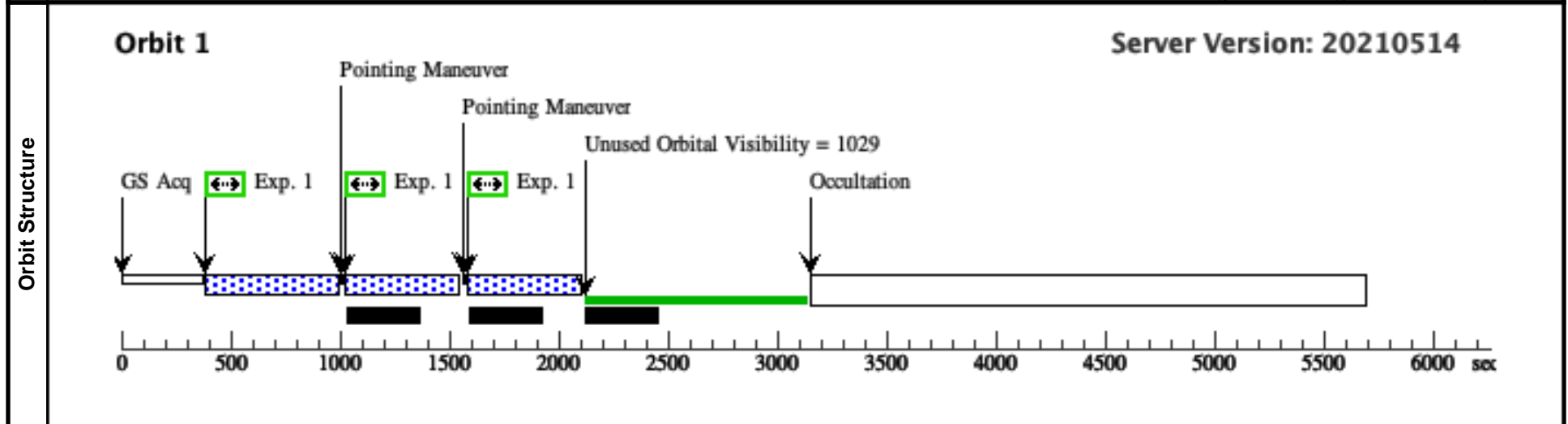
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 2E, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (62) | EMACSJ1042.5+1735 | RA: 10 42 36.3800 (160.6515833d) Dec: +17 35 27.10 (17.59086d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1042+17_81 | (62) EMACSJ1042.5 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 2E (1) | 400 Secs (1200 Secs) |
| 4 | | +1735 | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 2F - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

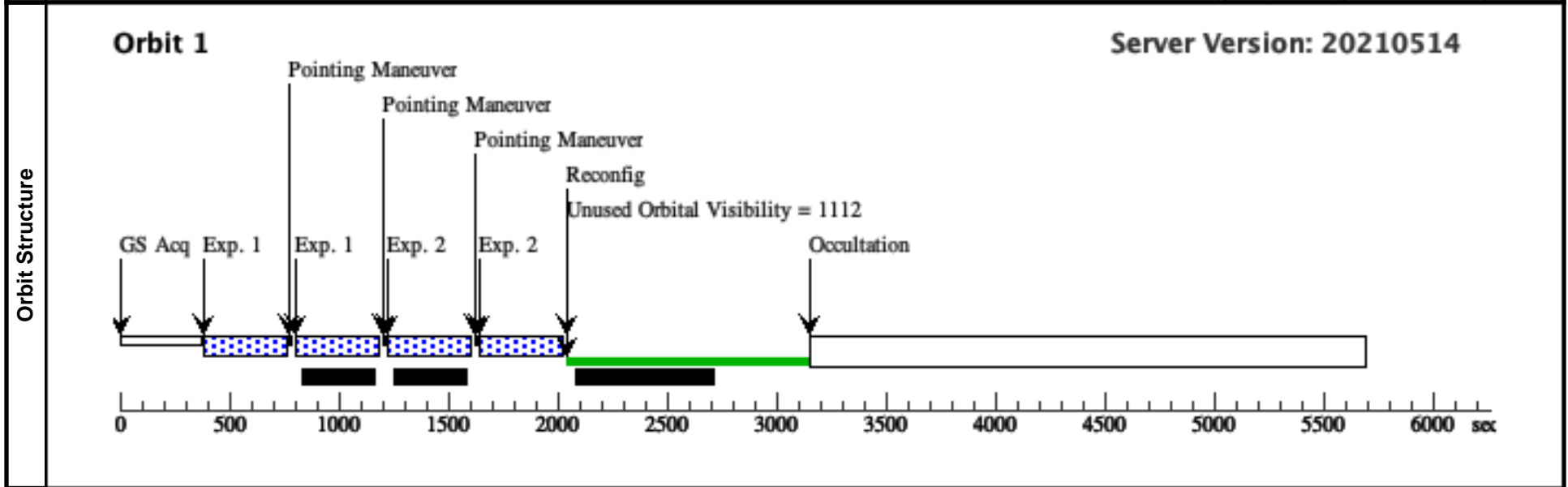
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 2F, implementation | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: WFC3/IR | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (62) | EMACSJ1042.5+1735 | RA: 10 42 36.3800 (160.6515833d) Dec: +17 35 27.10 (17.59086d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-----------------|------------------------|-------------------------|-------------------------|-----------------------------------|-----------------------------------|-------------------------------------|-------------------------------------|---------------------------------|-------|
| | 1 | 1042+17_11 0 | (62) EMACSJ1042.5+1735 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 2F (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | 1042+17_14 0 | (62) EMACSJ1042.5+1735 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 2F (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 2G - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

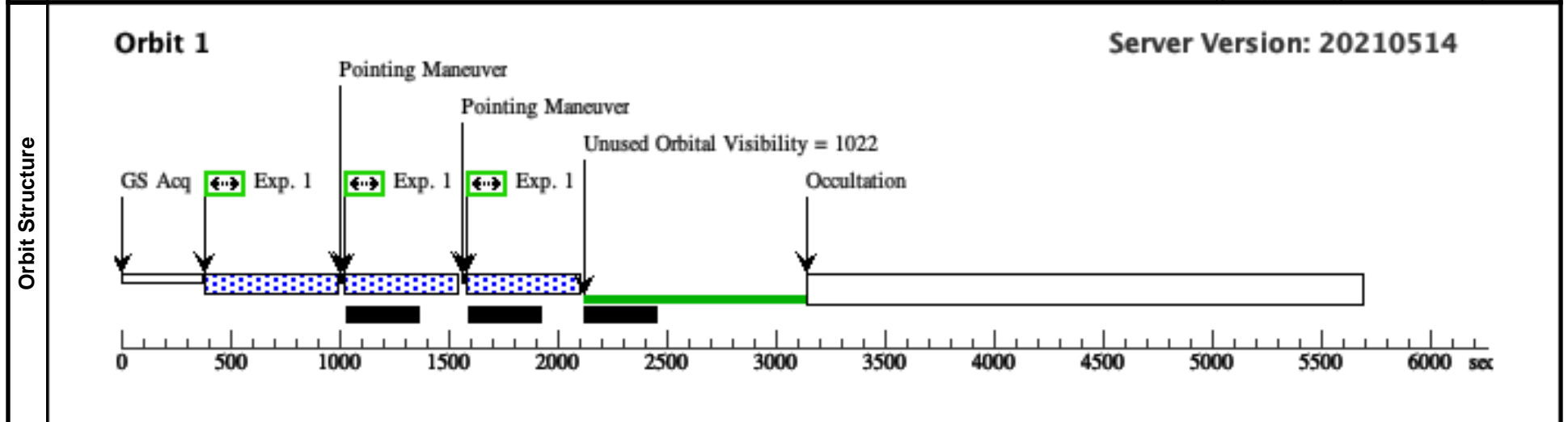
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 2G, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|------------------|--|--------------------------|--------|-----------------------|
| | (63) | MACSJ1105.7-1014 | RA: 11 05 46.7800 (166.4449167d) Dec: -10 14 46.00 (-10.24611d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-------------|-----------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1105-10_814 | (63) MACSJ1105.7-1014 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 2G (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 2H - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

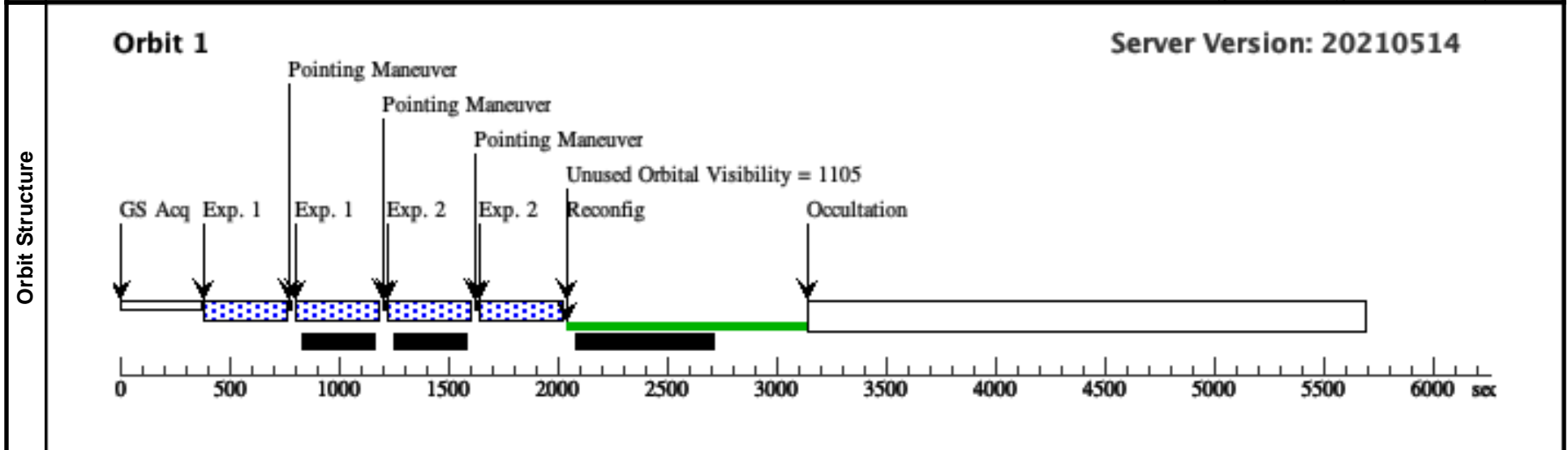
Thu Oct 07 11:02:22 GMT 2021

| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 2H, implementation | | |
| | Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | (1), (2) |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|--|------------------|--|--------------------------|--------|-----------------------|
| | (63) | MACSJ1105.7-1014 | RA: 11 05 46.7800 (166.4449167d) Dec: -10 14 46.00 (-10.24611d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |
| | <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-------------|-----------------------|-------------------------|---------------|--------------------------------|---------------|-------------------------------------|--------------------------------------|-------|
| | 1 | 1105-10_110 | (63) MACSJ1105.7-1014 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 2H (2) | 352.939501 Secs (705.879 Secs) | |
| | | | | | | | | | [==>(Pattern 1)] [==>(Pattern 2)] | [1] |
| | 2 | 1105-10_140 | (63) MACSJ1105.7-1014 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 2H (2) | 352.939501 Secs (705.879 Secs) | |
| | | | | | | | | | [==>(Pattern 1)] [==>(Pattern 2)] | [1] |



Proposal 16670 - Visit 2I - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

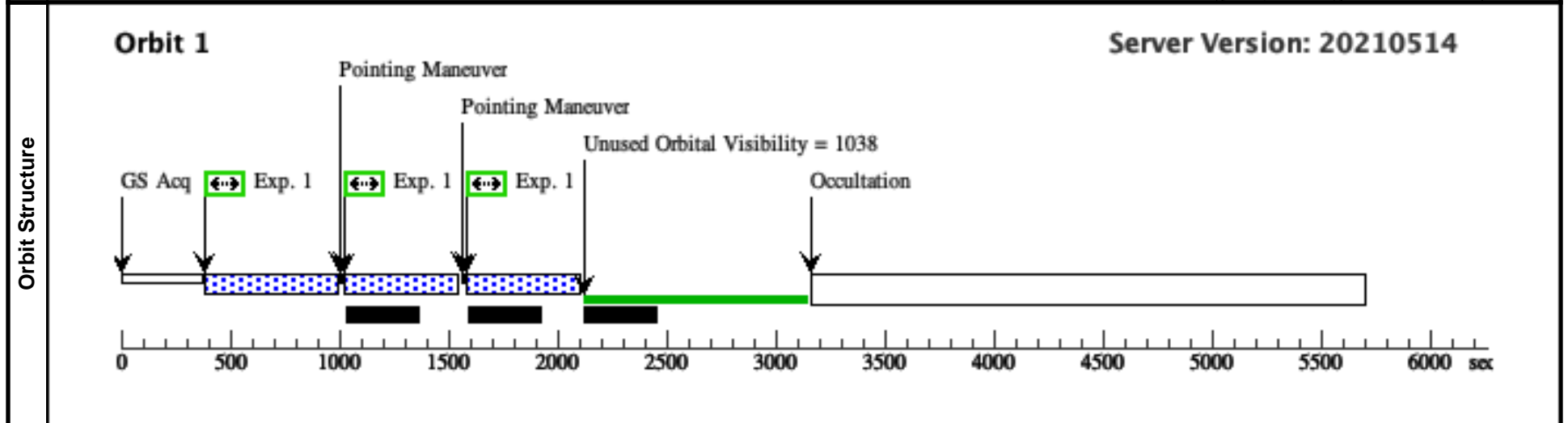
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 2I, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (65) | EMACSJ1401.3+2501 | RA: 14 01 17.7800 (210.3240833d) Dec: +25 01 50.50 (25.03069d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1401+02_60 | (65) EMACSJ1401.3 +2501 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 2I (1) | 400 Secs (1200 Secs) |
| 6 | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 2J - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

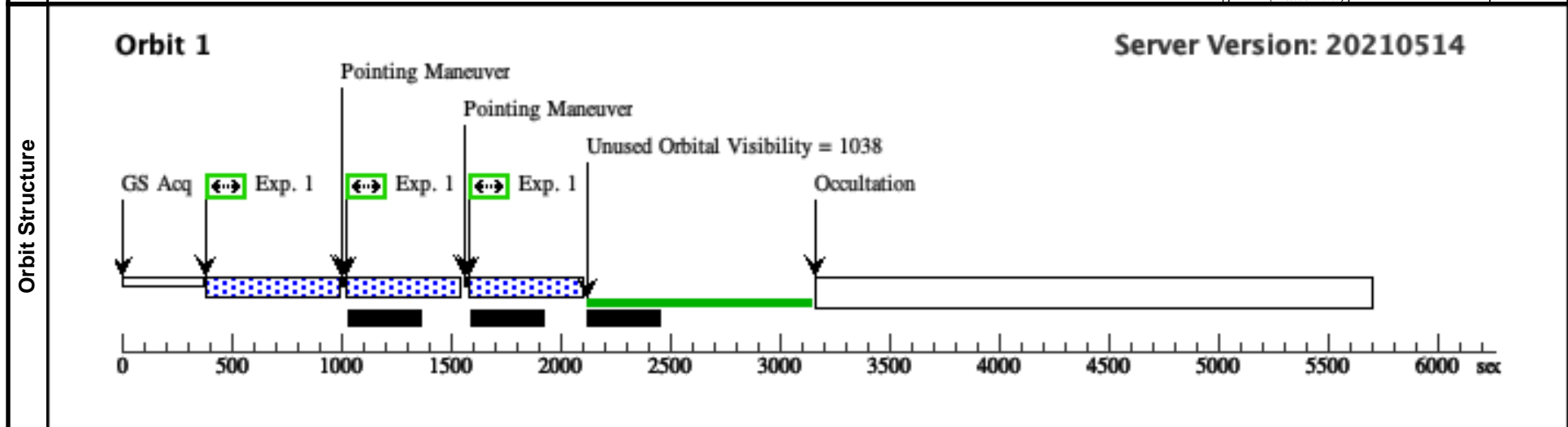
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 2J, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (65) | EMACSJ1401.3+2501 | RA: 14 01 17.7800 (210.3240833d) Dec: +25 01 50.50 (25.03069d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1401+02_81 | (65) EMACSJ1401.3 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 2J (1) | 400 Secs (1200 Secs) |
| 4 | | +2501 | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 2K - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

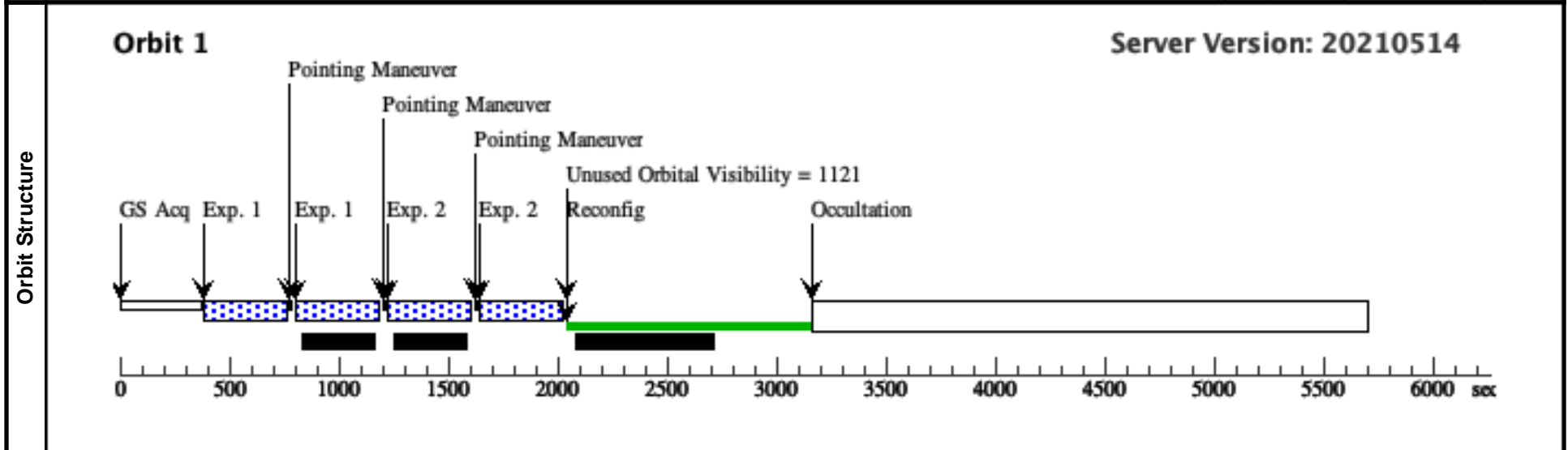
Thu Oct 07 11:02:22 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 2K, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|-------------------|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | | (1), (2) |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|--|-------------------|---|--------------------------|--------|-----------------------|
| | (65) | EMACSJ1401.3+2501 | RA: 14 01 17.7800 (210.3240833d) Dec: +25 01 50.50 (25.03069d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |
| | <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|--------------|------------------------|-------------------------|---------------|--------------------------------|---------------|-------------------------------------|--|-------|
| | 1 | 1401+02_11_0 | (65) EMACSJ1401.3+2501 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 2K (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |
| | 2 | 1401+02_14_0 | (65) EMACSJ1401.3+2501 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 2K (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 2L - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

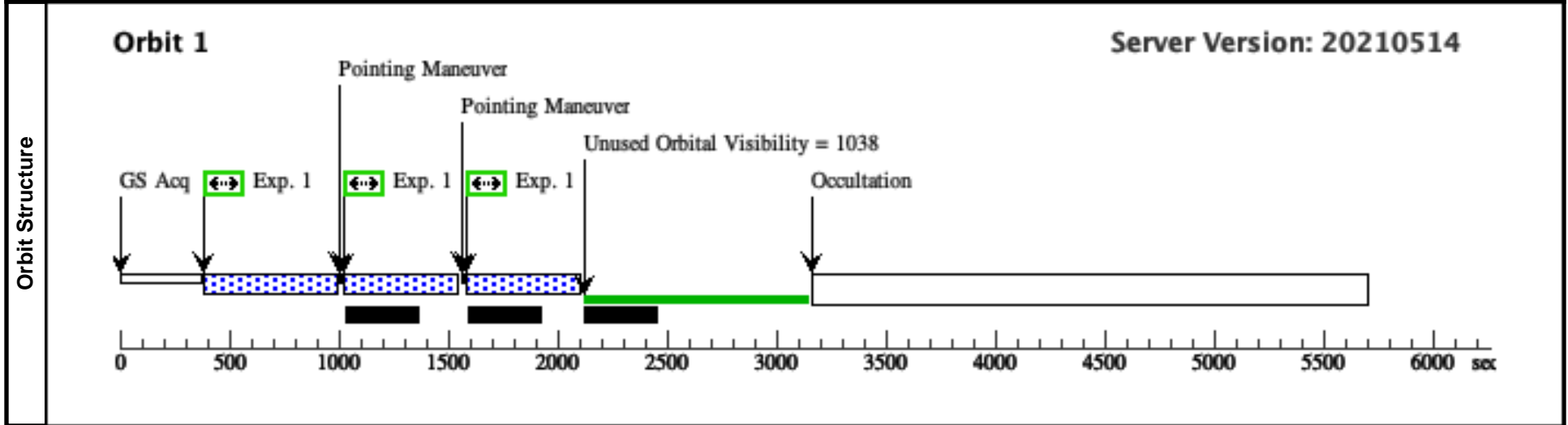
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 2L, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (66) | EMACSJ1414.6+2702 | RA: 14 14 39.1000 (213.6629167d) Dec: +27 03 10.60 (27.05294d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1414+27_60 | (66) EMACSJ1414.6 +2702 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 2L (1) | 400 Secs (1200 Secs) |
| 6 | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 2M - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

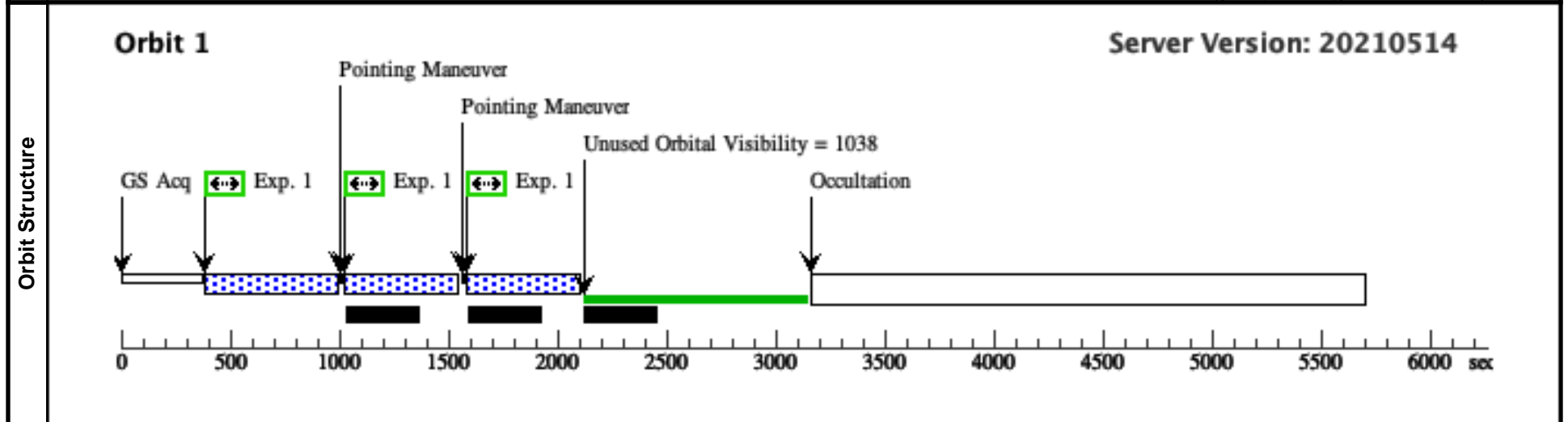
Thu Oct 07 11:02:22 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 2M, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | (1) |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|--|-------------------|---|--------------------------|--------|-----------------------|
| | (66) | EMACSJ1414.6+2702 | RA: 14 14 39.1000 (213.6629167d) Dec: +27 03 10.60 (27.05294d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |
| | <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-------------------|----------------------|---------------|--------------|---------------|-------------------------------------|---|-------|
| | 1 | 1414+27_81 | (66) EMACSJ1414.6 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | Pattern 1, Exps 1-1 in Visit 2M (1) | 400 Secs (1200 Secs) | |
| | 4 | | +2702 | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 2N - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

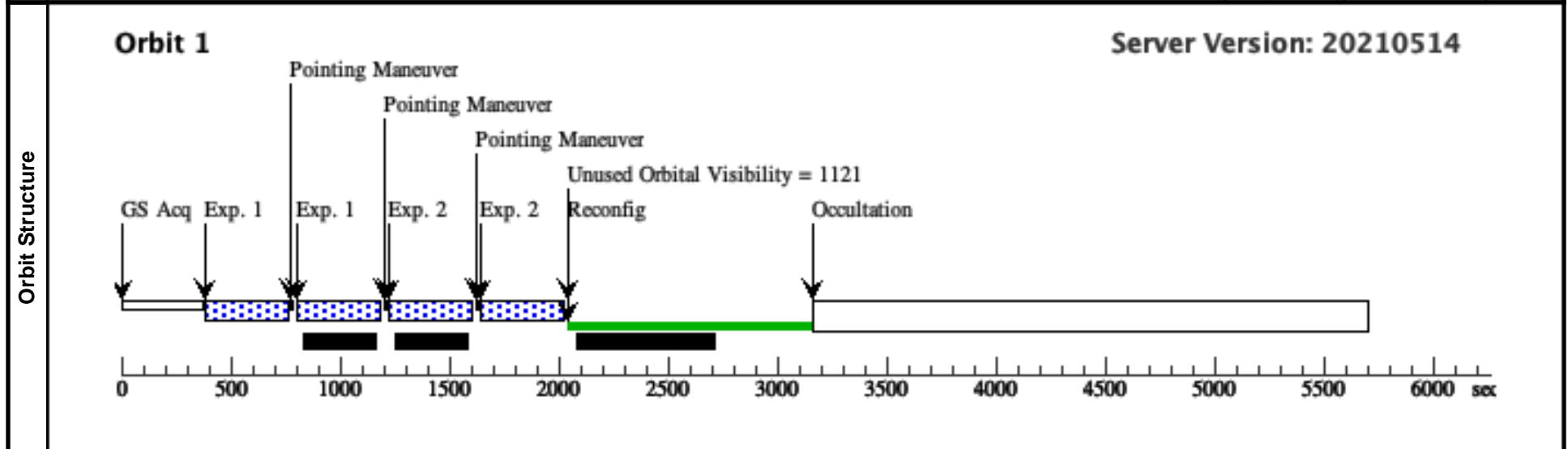
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 2N, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (66) | EMACSJ1414.6+2702 | RA: 14 14 39.1000 (213.6629167d) Dec: +27 03 10.60 (27.05294d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-----------------|----------------------------|----------------------------|-------------------------|-----------------------------------|-----------------------------------|---|---|---------------------------------|-------|
| | 1 | 1414+27_11 0 | (66) EMACSJ1414.6 +2702 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 i n Visit 2N (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | 1414+27_14 0 | (66) EMACSJ1414.6 +2702 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 i n Visit 2N (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 2O - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

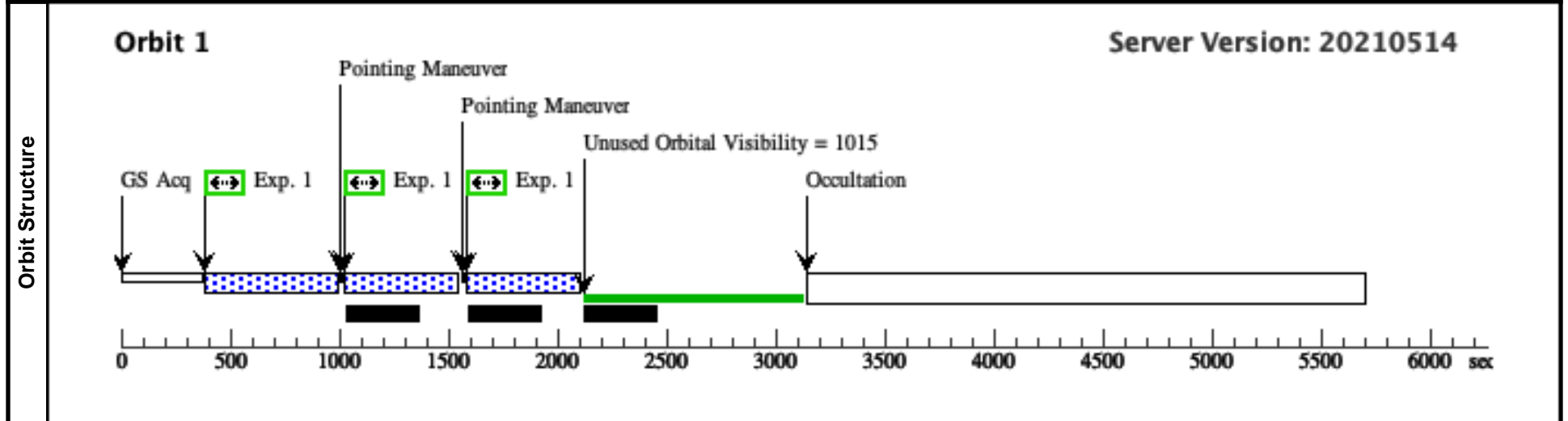
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 2O, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (67) | EMACSJ1426.4-0126 | RA: 14 26 24.2700 (216.6011250d) Dec: -01 26 57.00 (-1.44917d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-------|------------|-------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1426-01_60 | (67) EMACSJ1426.4 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 2O (1) | 400 Secs (1200 Secs) |
| 6 | -0126 | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 2P - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

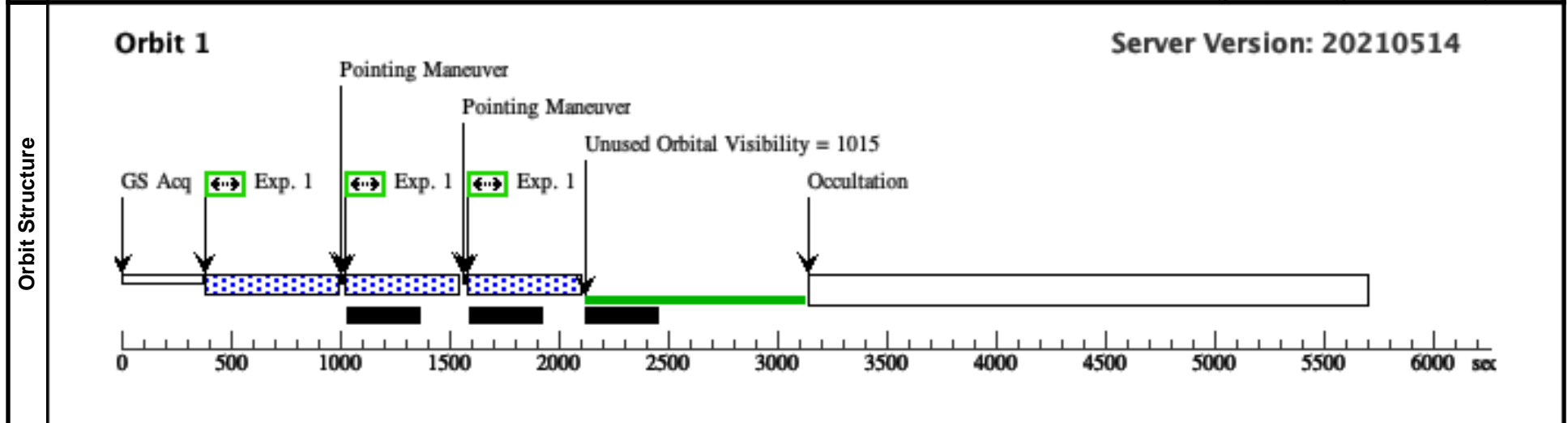
Thu Oct 07 11:02:22 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 2P, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|--|------|-------------------|---|--------------------------|--------|-----------------------|
| | (67) | EMACSJ1426.4-0126 | RA: 14 26 24.2700 (216.6011250d) Dec: -01 26 57.00 (-1.44917d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |
| <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-------|------------|-------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1426-01_81 | (67) EMACSJ1426.4 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 2P (1) | 400 Secs (1200 Secs) |
| 4 | -0126 | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 2Q - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

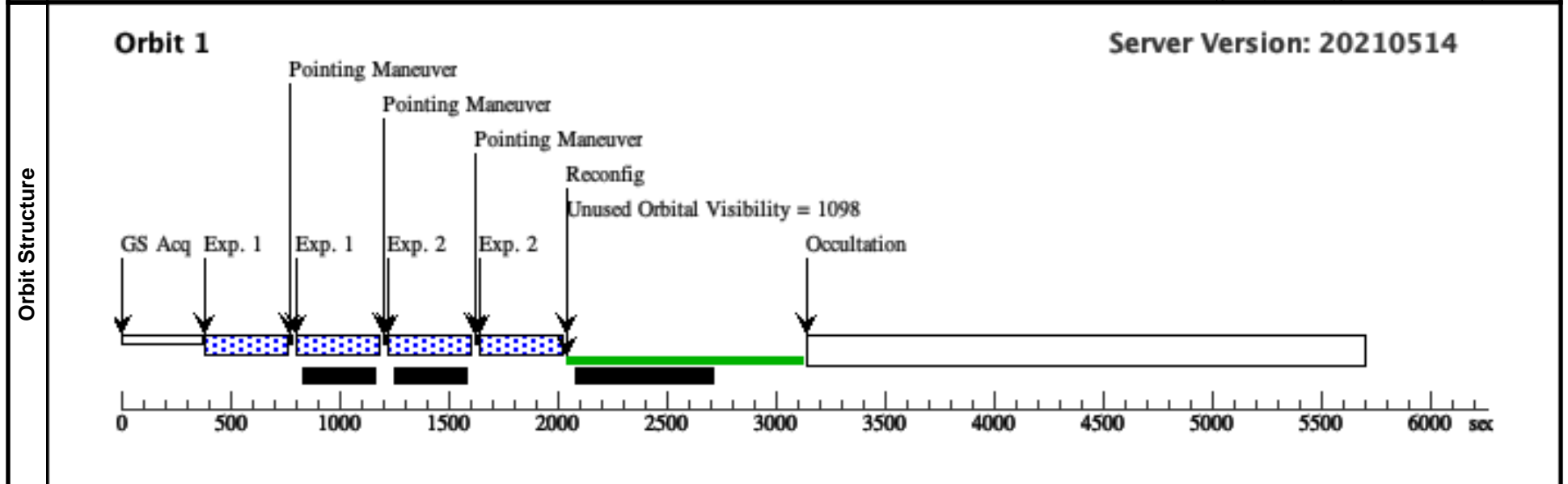
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 2Q, implementation | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: WFC3/IR | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (67) | EMACSJ1426.4-0126 | RA: 14 26 24.2700 (216.6011250d) Dec: -01 26 57.00 (-1.44917d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-------------|------------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|---------------|-------------------------------------|--|--|
| | 1 | 1426-01_110 | (67) EMACSJ1426.4-0126 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 1-1 in Visit 2Q (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] |
| 2 | 1426-01_140 | (67) EMACSJ1426.4-0126 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 2-2 in Visit 2Q (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 2R - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

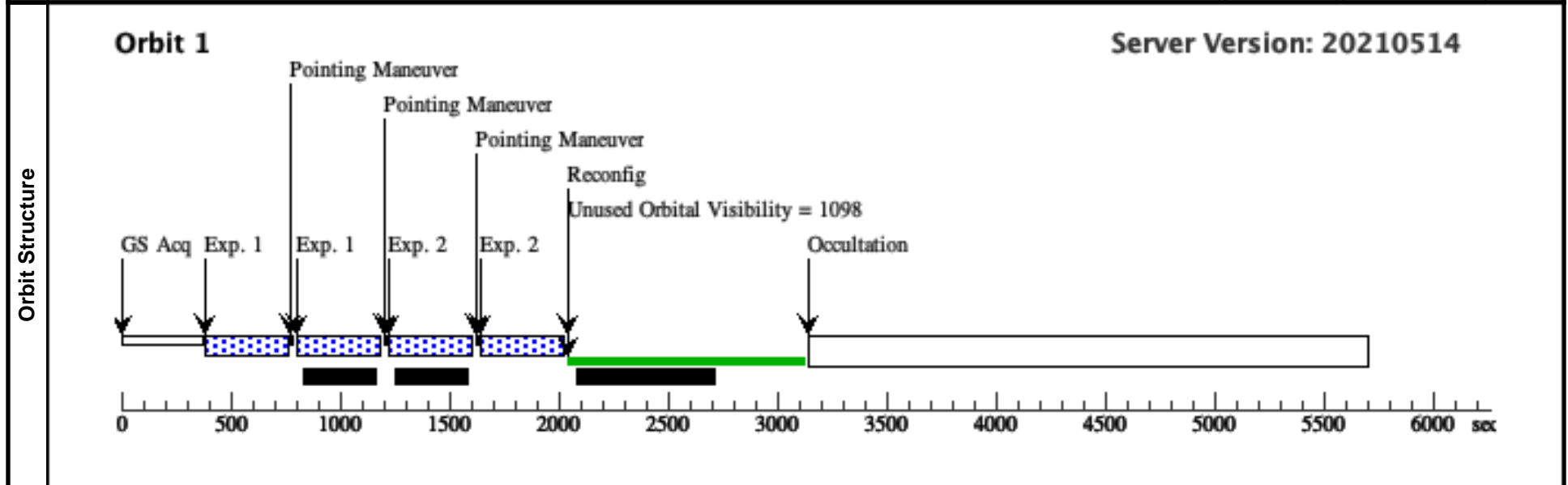
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 2R, implementation | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: WFC3/IR | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (81) | EMACSJ1450.6+0055 | RA: 14 50 39.9000 (222.6662500d) Dec: +00 55 42.50 (.92847d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-----------------|----------------------------|----------------------------|-------------------------|-----------------------------------|-----------------------------------|---|---|---------------------------------|-------|
| | 1 | 1450+00_11 0 | (81) EMACSJ1450.6 +0055 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 i n Visit 2R (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | 1450+00_14 0 | (81) EMACSJ1450.6 +0055 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 i n Visit 2R (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 2S - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

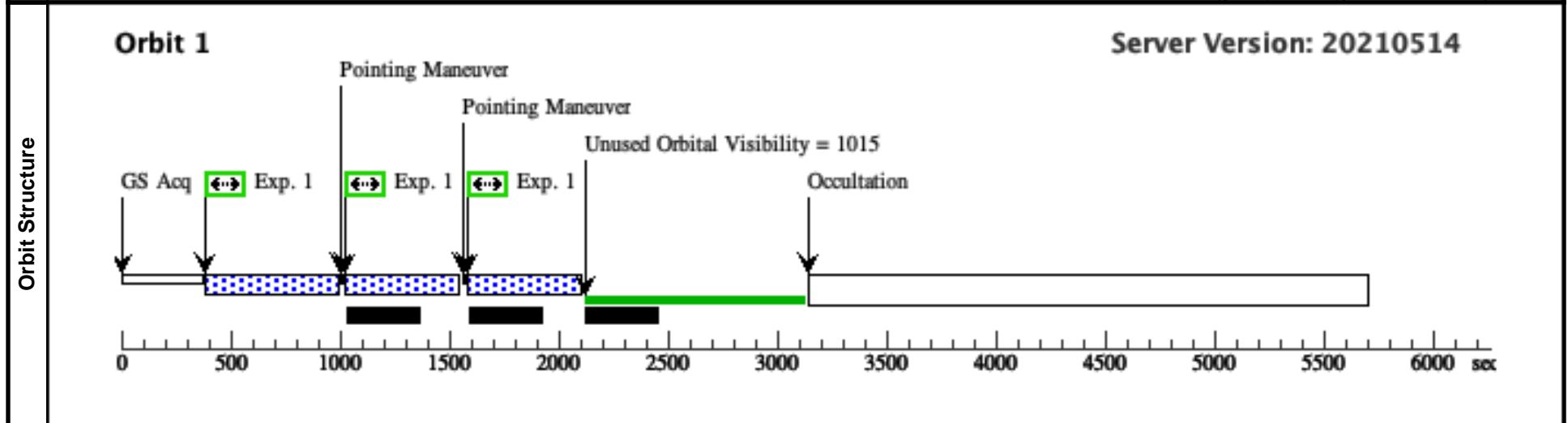
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 2S, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (81) | EMACSJ1450.6+0055 | RA: 14 50 39.9000 (222.6662500d) Dec: +00 55 42.50 (.92847d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1450+00_60 | (81) EMACSJ1450.6+0055 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 2S (1) | 400 Secs (1200 Secs) |
| 6 | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 2T - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

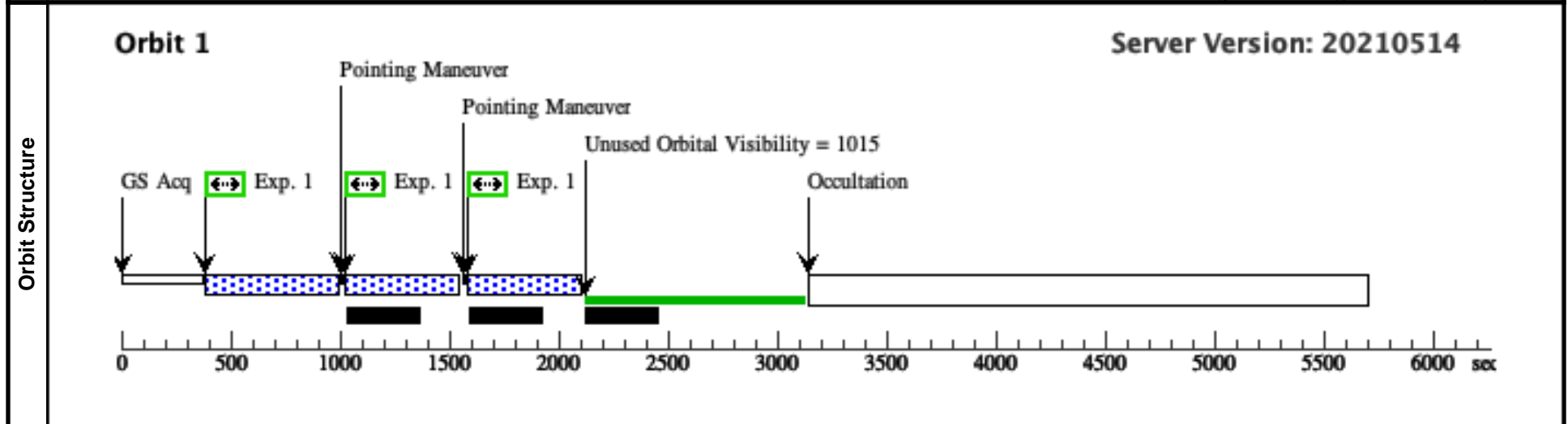
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 2T, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (81) | EMACSJ1450.6+0055 | RA: 14 50 39.9000 (222.6662500d) Dec: +00 55 42.50 (.92847d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
Category=CLUSTER OF GALAXIES
Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|----------------------------|----------------------|---------------|--------------|---------------|---|---|-------|
| | 1 | 1450+00_81 4 | (81) EMACSJ1450.6 +0055 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | Pattern 1, Exps 1-1 i n Visit 2T (1) | 400 Secs (1200 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 2U - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

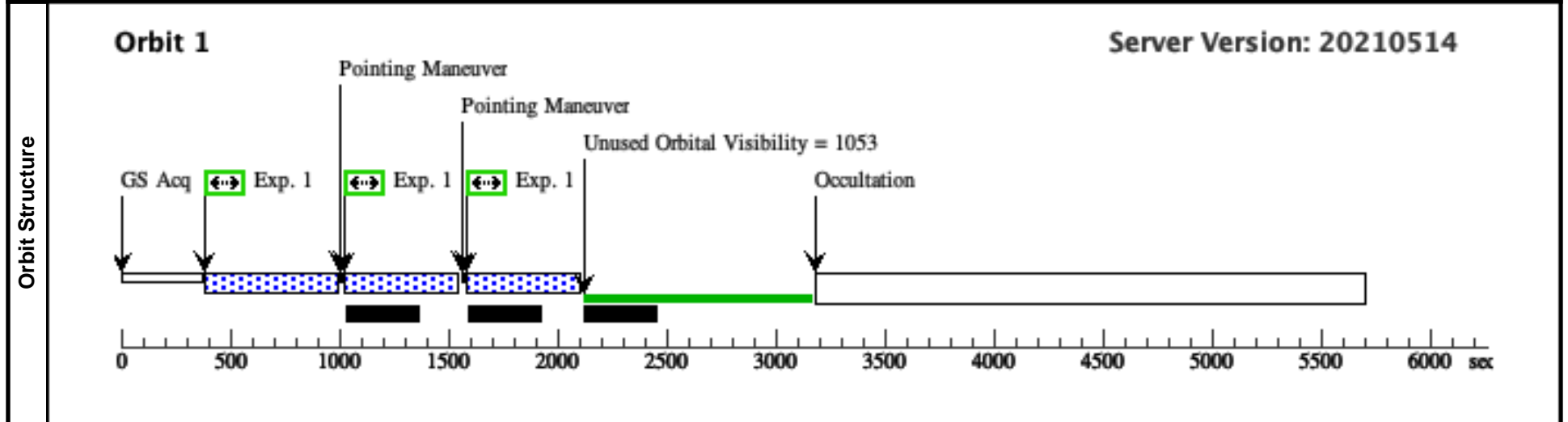
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 2U, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (68) | EMACSJ1456.1+3021 | RA: 14 56 10.9600 (224.0456667d) Dec: +30 21 6.10 (30.35169d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1456+30_60 | (68) EMACSJ1456.1+3021 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 2U (1) | 400 Secs (1200 Secs) |
| 6 | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 2V - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

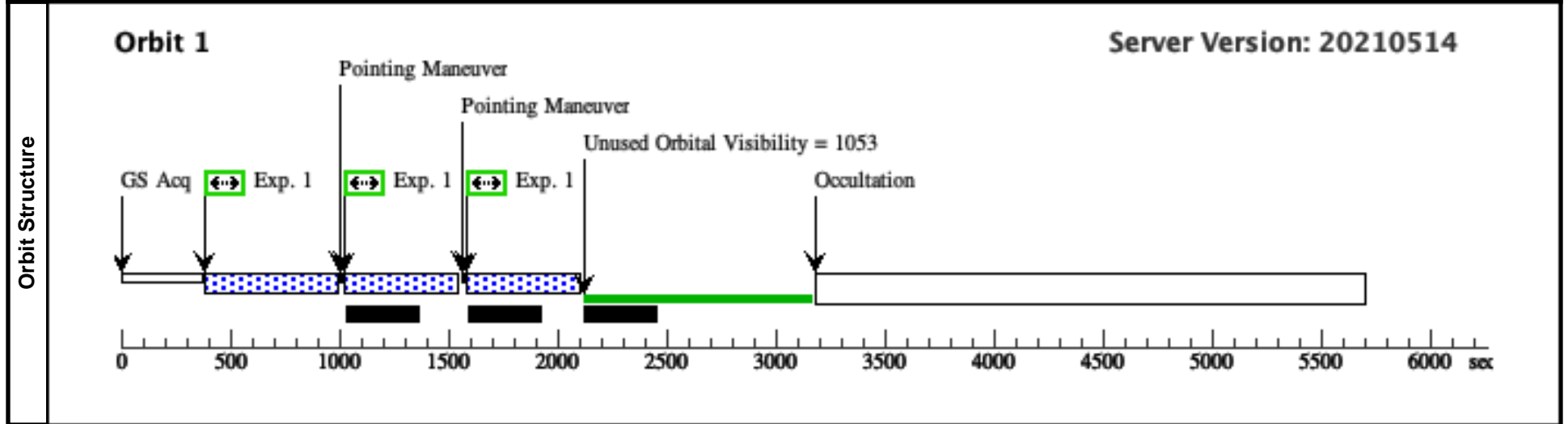
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 2V, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (68) | EMACSJ1456.1+3021 | RA: 14 56 10.9600 (224.0456667d) Dec: +30 21 6.10 (30.35169d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1456+30_81 | (68) EMACSJ1456.1 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 2V (1) | 400 Secs (1200 Secs) |
| 4 | | +3021 | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 2W - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

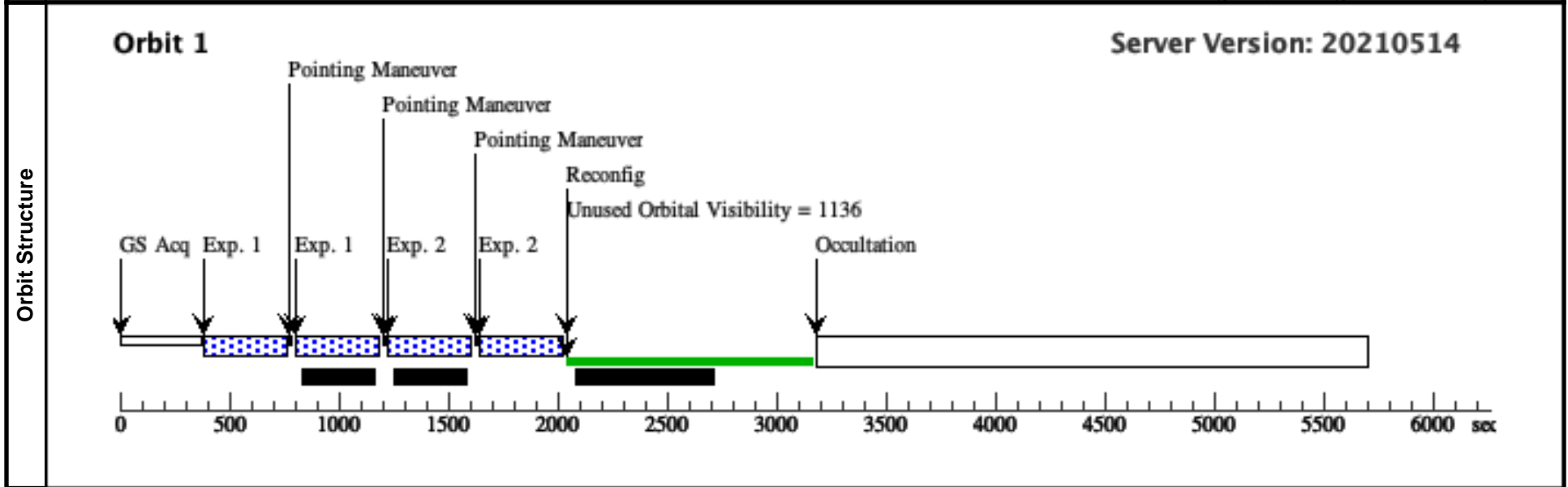
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 2W, implementation | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: WFC3/IR | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (68) | EMACSJ1456.1+3021 | RA: 14 56 10.9600 (224.0456667d) Dec: +30 21 6.10 (30.35169d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-----------------|----------------------------|----------------------------|-------------------------|-----------------------------------|-----------------------------------|-------------------------------------|-------------------------------------|---------------------------------|-------|
| | 1 | 1456+30_11 0 | (68) EMACSJ1456.1 +3021 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 2W (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | 1456+30_14 0 | (68) EMACSJ1456.1 +3021 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 2W (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 2X - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

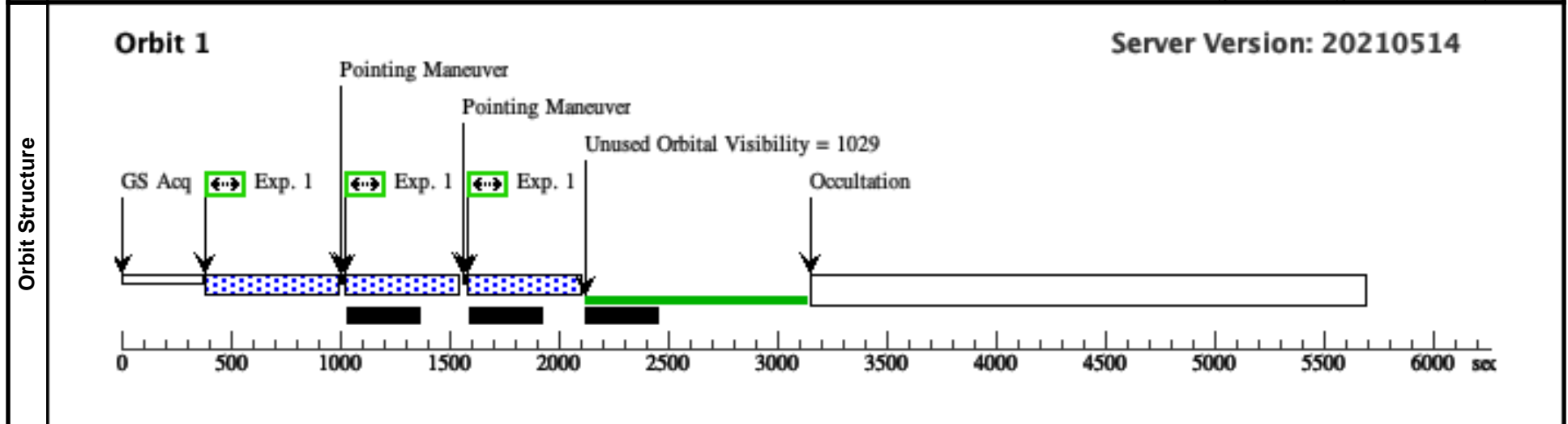
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 2X, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (69) | EMACSJ1658.6+1519 | RA: 16 58 38.5300 (254.6605417d) Dec: +15 19 13.10 (15.32031d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1658+15_60 | (69) EMACSJ1658.6+1519 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 2X (1) | 400 Secs (1200 Secs) |
| 6 | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 2Y - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

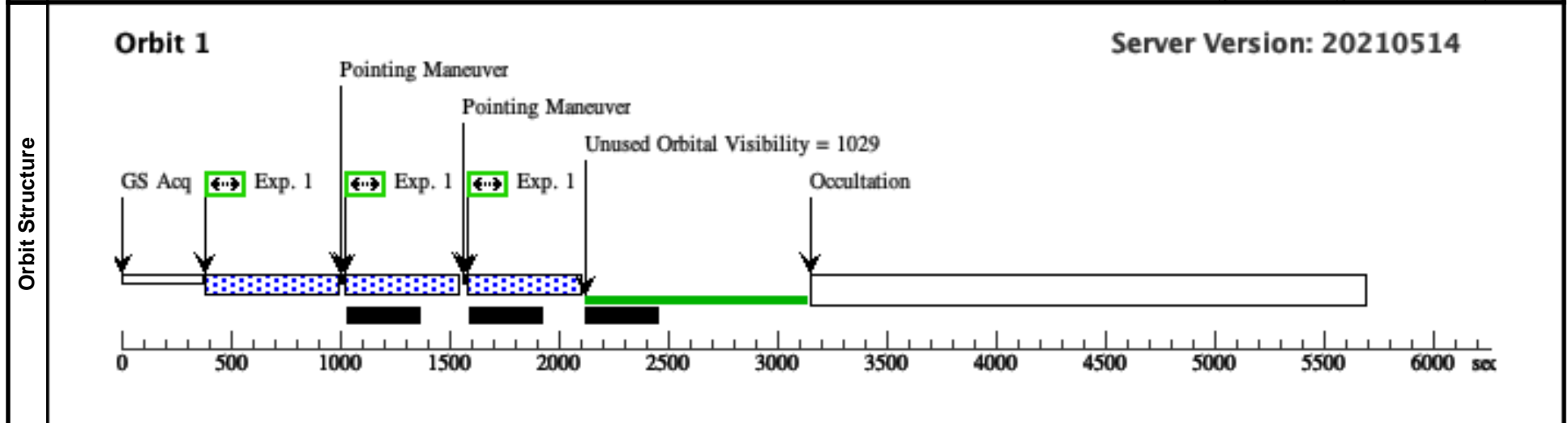
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 2Y, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (69) | EMACSJ1658.6+1519 | RA: 16 58 38.5300 (254.6605417d) Dec: +15 19 13.10 (15.32031d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1658+15_81 | (69) EMACSJ1658.6+1519 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 2Y (1) | 400 Secs (1200 Secs) |
| 4 | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 2Z - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

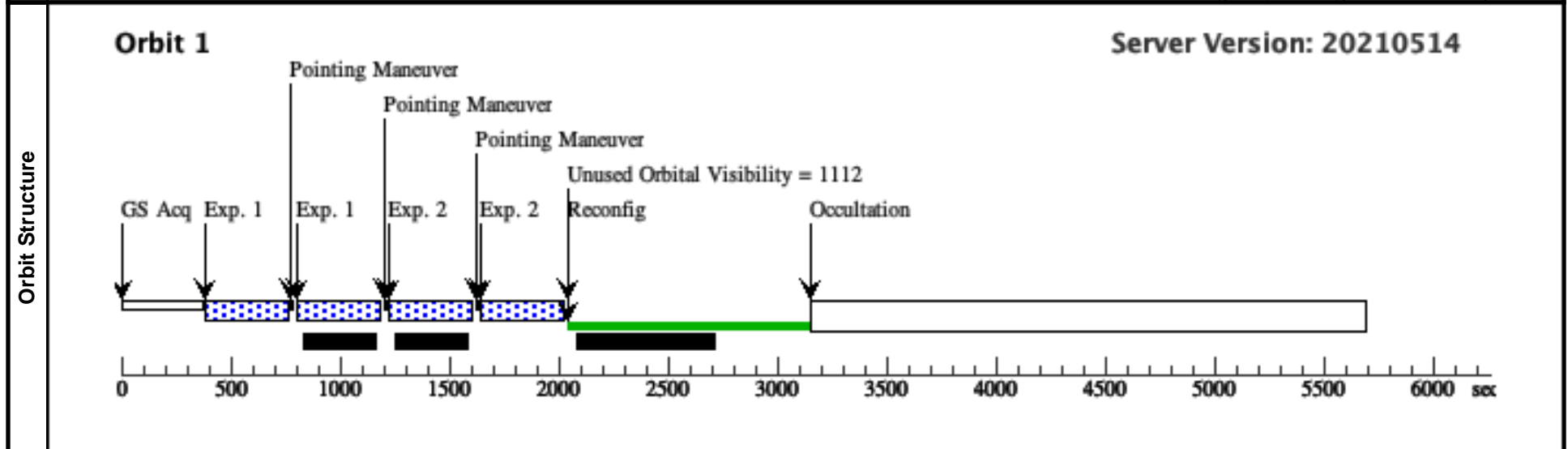
Thu Oct 07 11:02:22 GMT 2021

| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 2Z, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|---|-----------------|--|-----------|
| | | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|--|------|--------------------|---|--------|---------------|
| | | (69) | EMACSJ1658.6+1519 | RA: 16 58 38.5300 (254.6605417d) Dec: +15 19 13.10 (15.32031d) Equinox: J2000 | | V=19 |
| | <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|--------------|------------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|-------------------------------------|--|--|
| | | 1 | 1658+15_11_0 | (69) EMACSJ1658.6+1519 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 2Z (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] |
| | 2 | 1658+15_14_0 | (69) EMACSJ1658.6+1519 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 2Z (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 3A - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

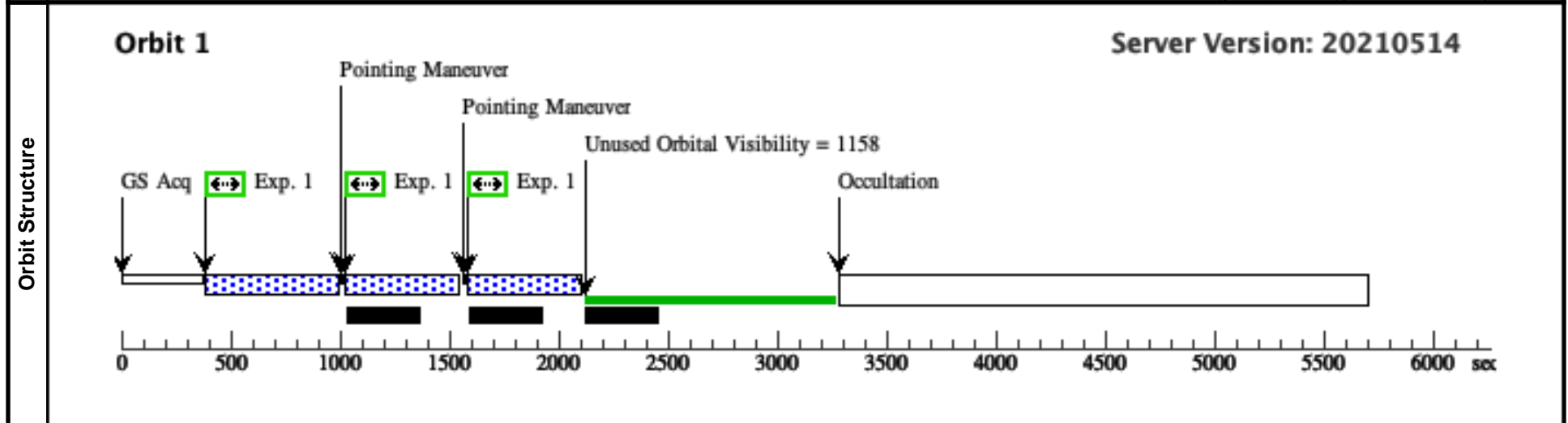
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 3A, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (70) | EMACSJ1746.4+4725 | RA: 17 46 29.4200 (266.6225833d) Dec: +47 25 2.10 (47.41725d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1746+47_60 | (70) EMACSJ1746.4 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 3A (1) | 400 Secs (1200 Secs) |
| | 6 | +4725 | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 3B - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:22 GMT 2021

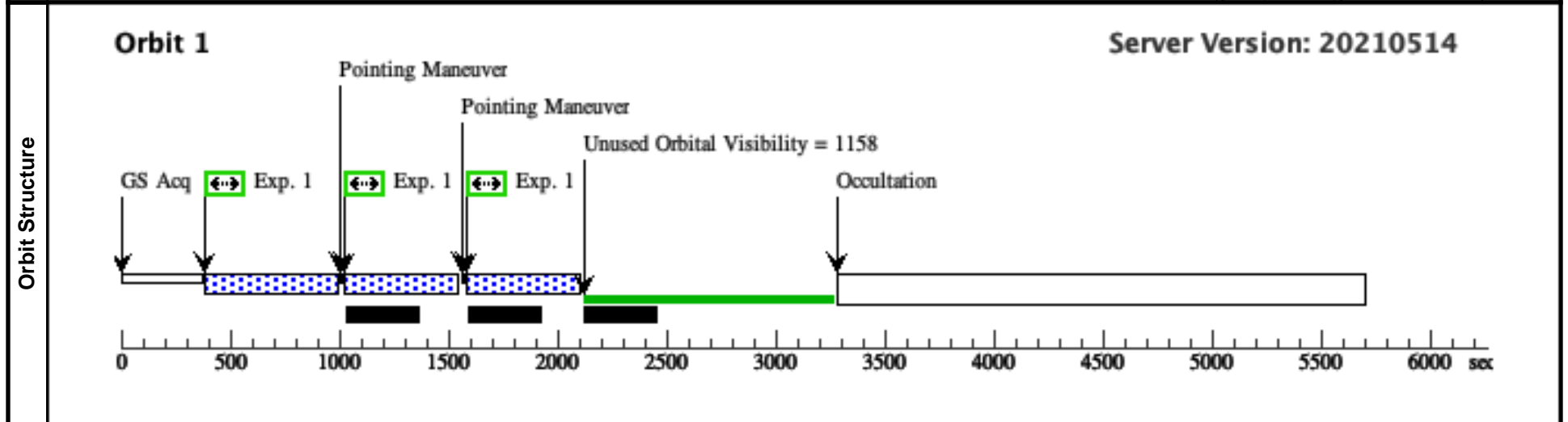
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 3B, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (70) | EMACSJ1746.4+4725 | RA: 17 46 29.4200 (266.6225833d) Dec: +47 25 2.10 (47.41725d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|----------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1746+47_81 4 | (70) EMACSJ1746.4 +4725 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 3B (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 3C - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:23 GMT 2021

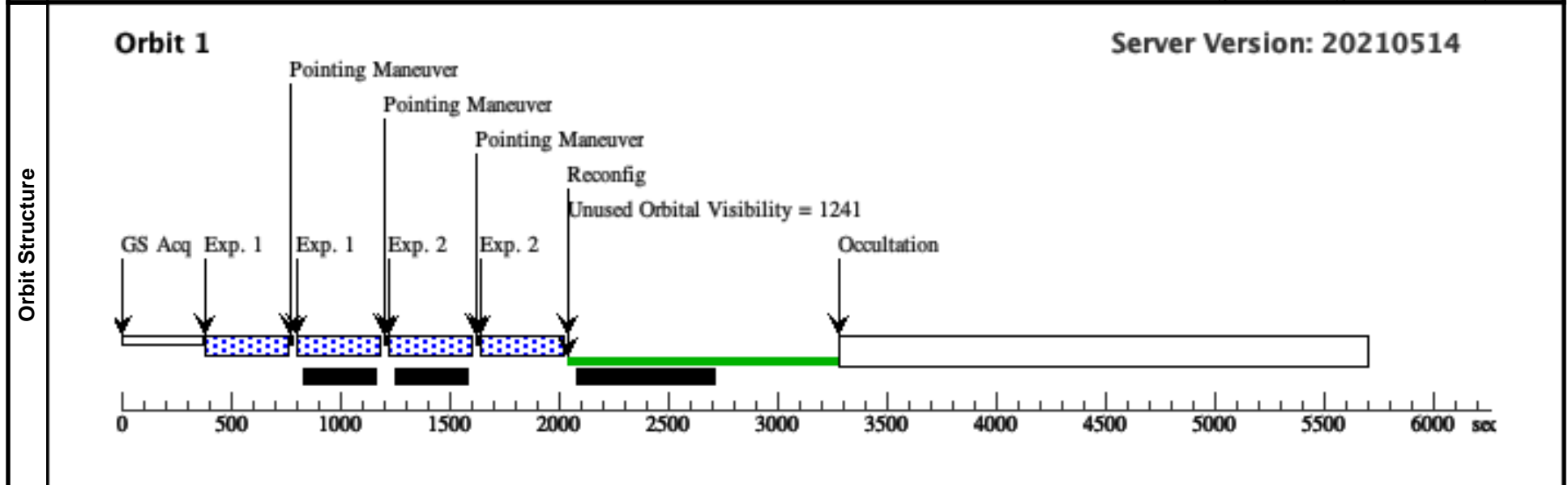
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 3C, implementation | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: WFC3/IR | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (70) | EMACSJ1746.4+4725 | RA: 17 46 29.4200 (266.6225833d) Dec: +47 25 2.10 (47.41725d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-----------------|----------------------------|----------------------------|-------------------------|-----------------------------------|-----------------------------------|-------------------------------------|-------------------------------------|---------------------------------|-------|
| | 1 | 1746+47_11 0 | (70) EMACSJ1746.4 +4725 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 3C (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | 1746+47_14 0 | (70) EMACSJ1746.4 +4725 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 3C (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 3D - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:23 GMT 2021

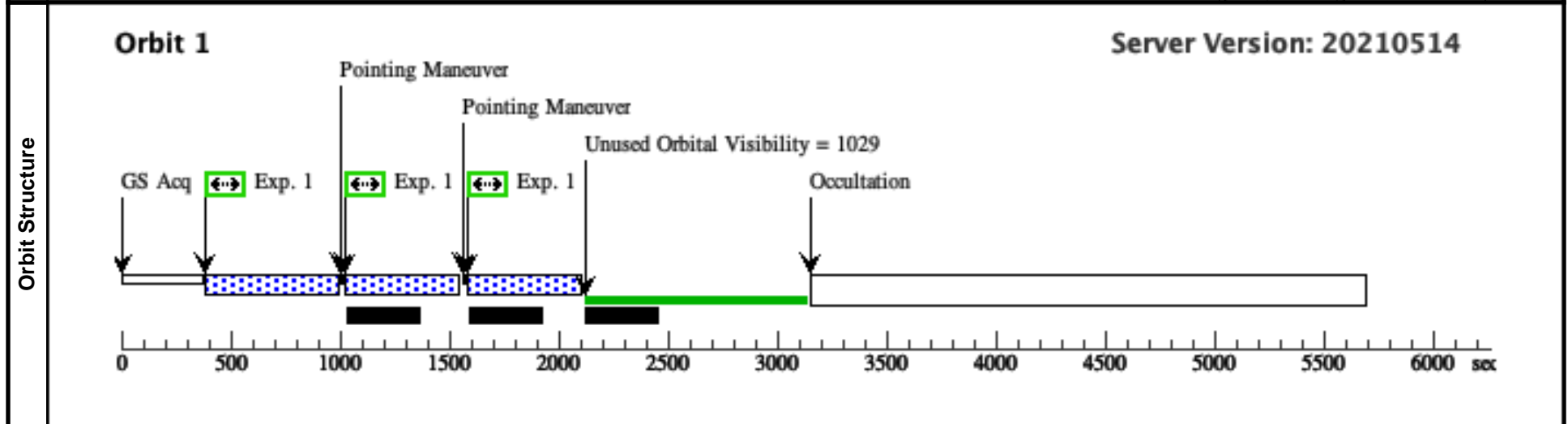
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 3D, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (71) | EMACSJ1747.1+1710 | RA: 17 47 9.1700 (266.7882083d) Dec: +17 11 1.80 (17.18383d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
Category=CLUSTER OF GALAXIES
Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-------|------------|-------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1747+17_60 | (71) EMACSJ1747.1 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 3D (1) | 400 Secs (1200 Secs) |
| 6 | +1710 | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 3E - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:23 GMT 2021

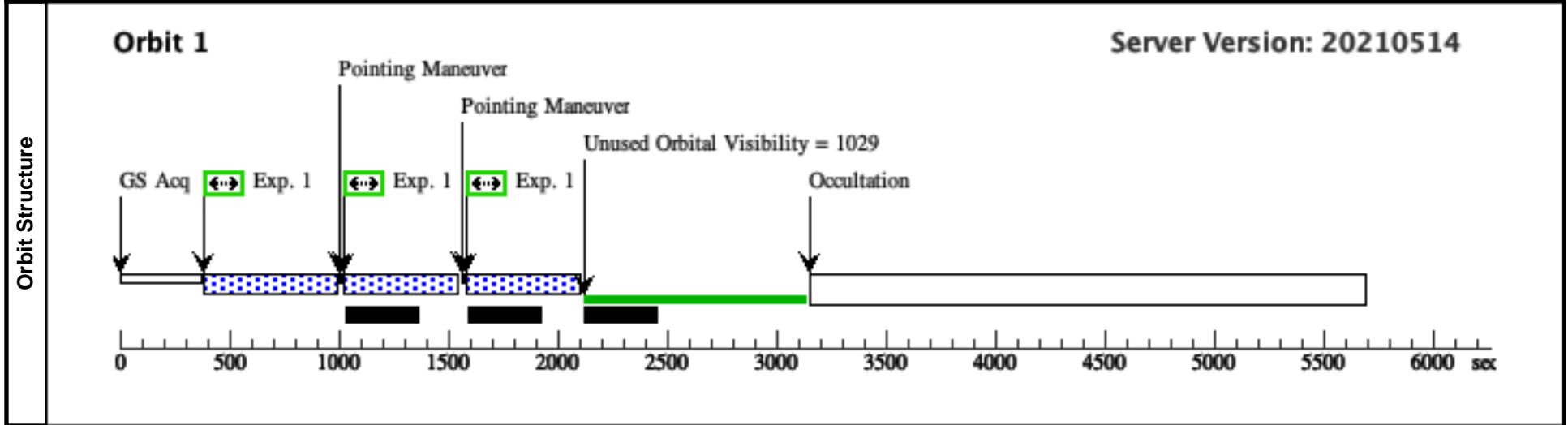
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 3E, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (71) | EMACSJ1747.1+1710 | RA: 17 47 9.1700 (266.7882083d) Dec: +17 11 1.80 (17.18383d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
Category=CLUSTER OF GALAXIES
Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|----------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1747+17_81 4 | (71) EMACSJ1747.1 +1710 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 3E (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 3F - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:23 GMT 2021

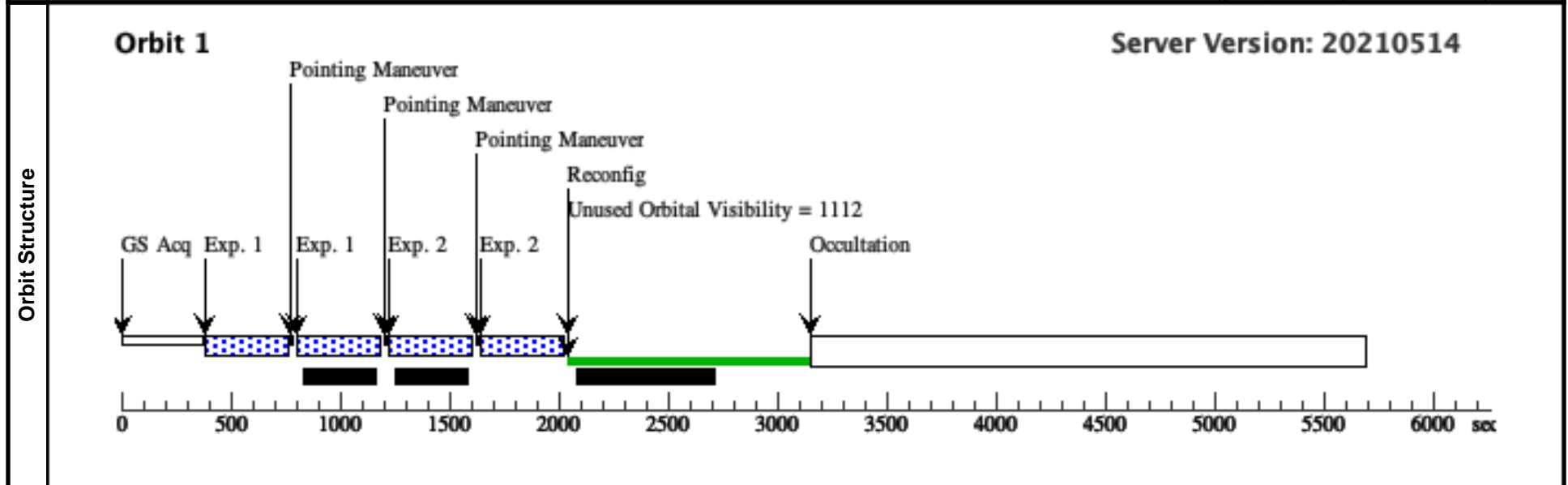
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 3F, implementation | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: WFC3/IR | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (71) | EMACSJ1747.1+1710 | RA: 17 47 9.1700 (266.7882083d) Dec: +17 11 1.80 (17.18383d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-----------------|----------------------------|----------------------------|-------------------------|-----------------------------------|-----------------------------------|-------------------------------------|-------------------------------------|---------------------------------|-------|
| | 1 | 1747+17_11 0 | (71) EMACSJ1747.1 +1710 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 3F (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | 1747+17_14 0 | (71) EMACSJ1747.1 +1710 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 3F (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 3G - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:23 GMT 2021

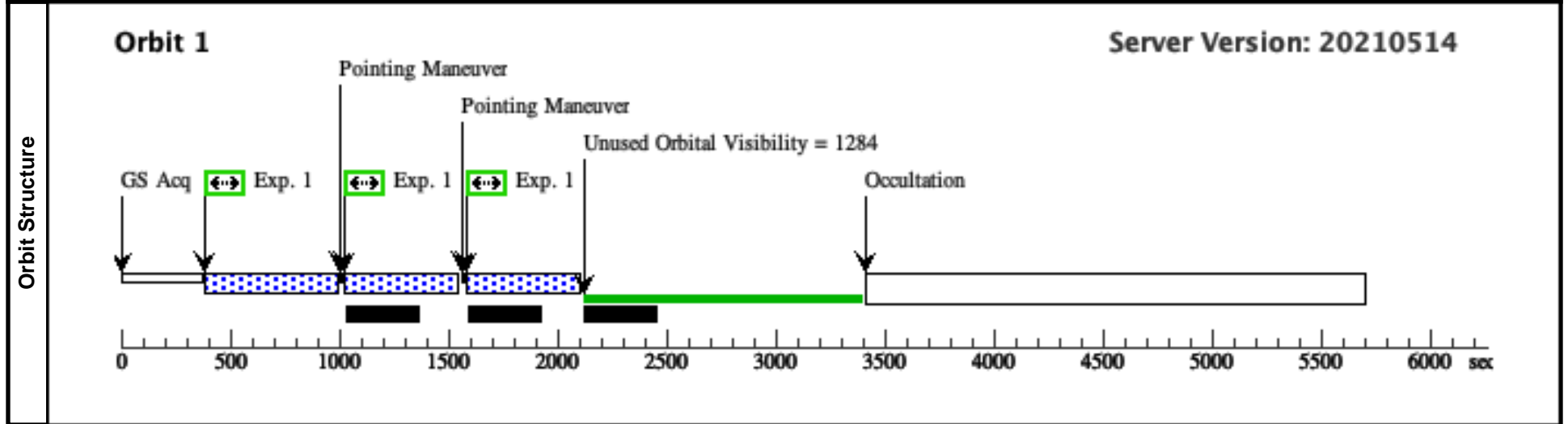
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 3G, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (72) | EMACSJ1845.2+6417 | RA: 18 45 11.7800 (281.2990833d) Dec: +64 17 9.90 (64.28608d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-------|------------|-------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1845+64_60 | (72) EMACSJ1845.2 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 3G (1) | 400 Secs (1200 Secs) |
| 6 | +6417 | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 3H - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

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| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 3H, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

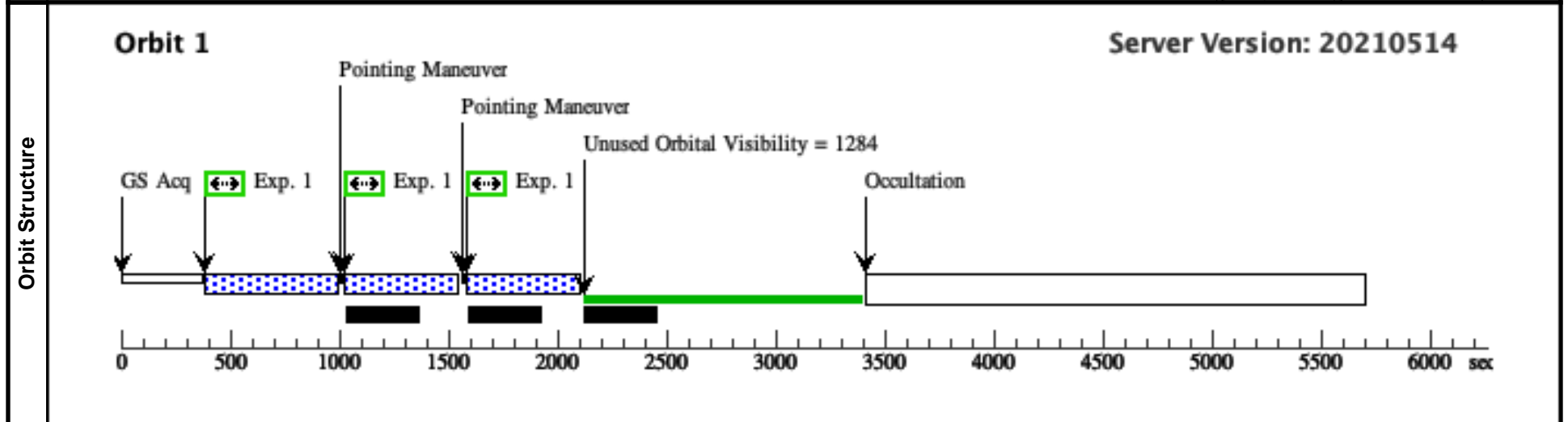
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (72) | EMACSJ1845.2+6417 | RA: 18 45 11.7800 (281.2990833d) Dec: +64 17 9.90 (64.28608d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|----------------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | 1845+64_81 4 | (72) EMACSJ1845.2 +6417 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 3H (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]

[1]



Proposal 16670 - Visit 3I - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:23 GMT 2021

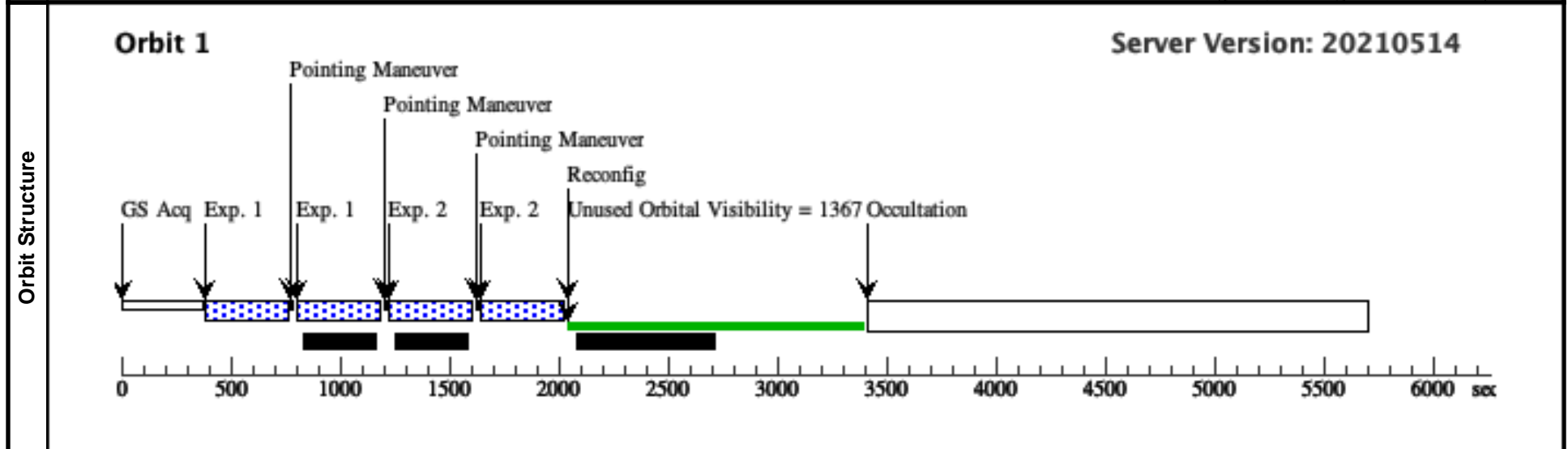
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 3I, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (72) | EMACSJ1845.2+6417 | RA: 18 45 11.7800 (281.2990833d) Dec: +64 17 9.90 (64.28608d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-----------------|----------------------------|----------------------------|-------------------------|-----------------------------------|-----------------------------------|-------------------------------------|-------------------------------------|---------------------------------|-------|
| | 1 | 1845+64_11 0 | (72) EMACSJ1845.2 +6417 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 3I (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | 1845+64_14 0 | (72) EMACSJ1845.2 +6417 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 3I (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 3J - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:23 GMT 2021

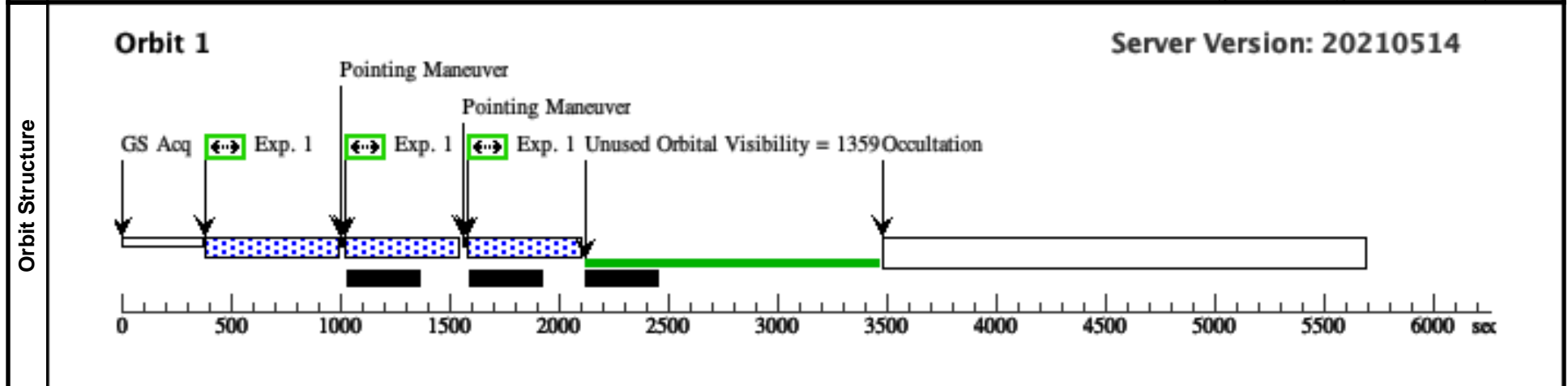
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 3J, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (73) | EMACSJ1850.9+6848 | RA: 18 50 53.6800 (282.7236667d) Dec: +68 48 20.30 (68.80564d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 1850+68_60 | (73) EMACSJ1850.9+6848 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 3J (1) | 400 Secs (1200 Secs) |
| 6 | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 3K - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

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| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 3K, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

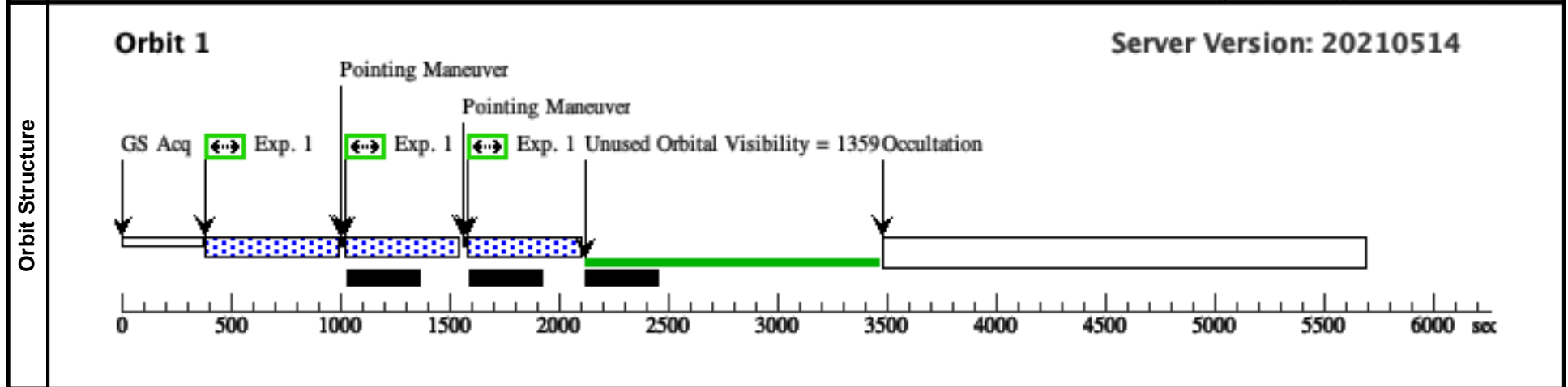
| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (73) | EMACSJ1850.9+6848 | RA: 18 50 53.6800 (282.7236667d) Dec: +68 48 20.30 (68.80564d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|----------------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | 1850+68_81 4 | (73) EMACSJ1850.9 +6848 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 3K (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]



Proposal 16670 - Visit 3L - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:23 GMT 2021

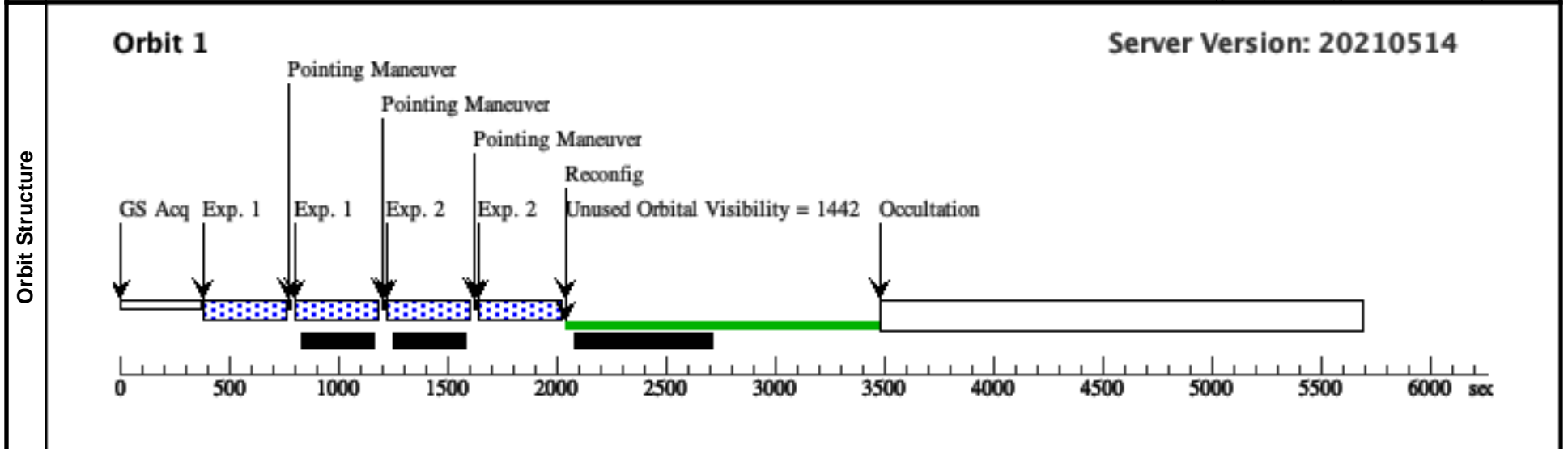
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 3L, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (73) | EMACSJ1850.9+6848 | RA: 18 50 53.6800 (282.7236667d) Dec: +68 48 20.30 (68.80564d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-----------------|----------------------------|----------------------------|-------------------------|-----------------------------------|-----------------------------------|---------------|-------------------------------------|--|--|
| | 1 | 1850+68_11 0 | (73) EMACSJ1850.9 +6848 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 1-1 in Visit 3L (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] |
| 2 | 1850+68_14 0 | (73) EMACSJ1850.9 +6848 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | | Pattern 2, Exps 2-2 in Visit 3L (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 3M - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:23 GMT 2021

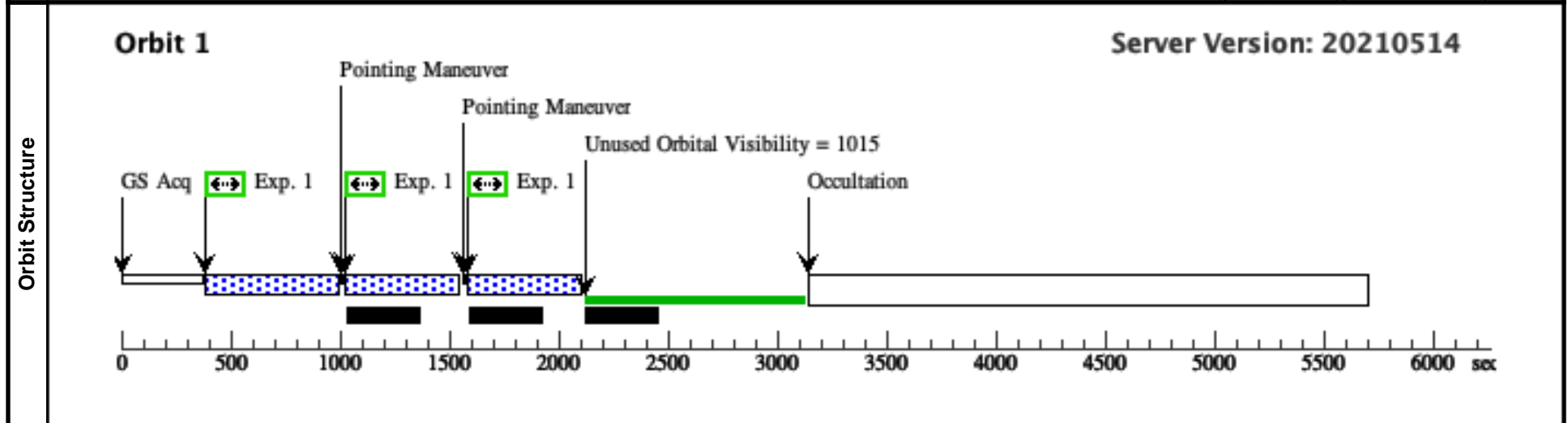
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 3M, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (75) | EMACSJ2055.3+0106 | RA: 20 55 23.2600 (313.8469167d) Dec: +01 06 7.90 (1.10219d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 2055+01_60 | (75) EMACSJ2055.3 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 3M (1) | 400 Secs (1200 Secs) |
| 6 | | +0106 | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 3N - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:23 GMT 2021

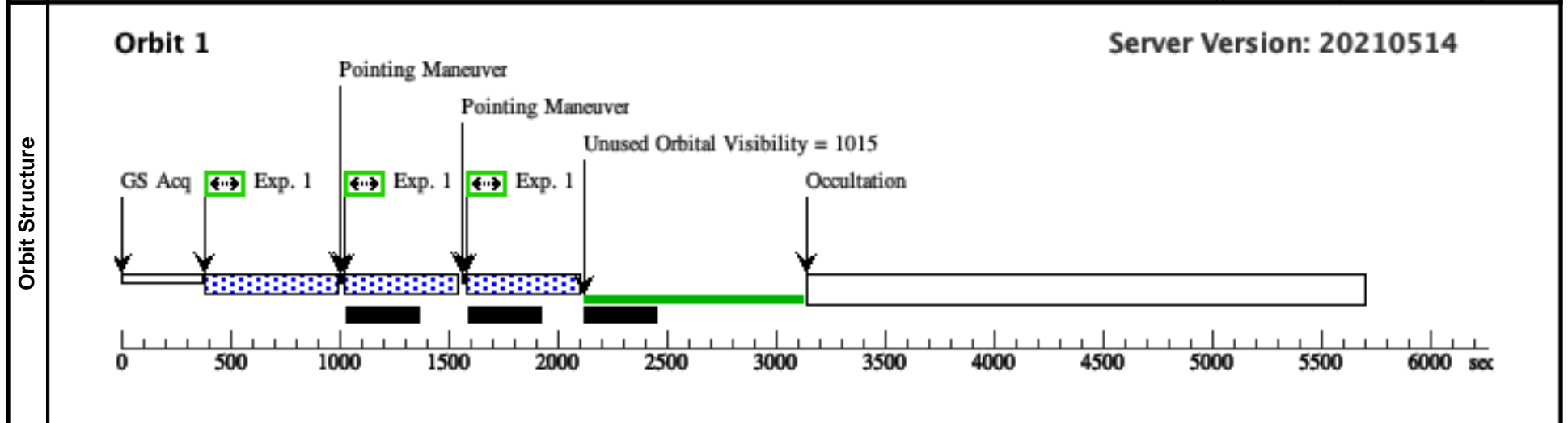
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 3N, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (75) | EMACSJ2055.3+0106 | RA: 20 55 23.2600 (313.8469167d) Dec: +01 06 7.90 (1.10219d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
Category=CLUSTER OF GALAXIES
Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|-------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 2055+01_81 | (75) EMACSJ2055.3 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 3N (1) | 400 Secs (1200 Secs) |
| 4 | | +0106 | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 3O - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:23 GMT 2021

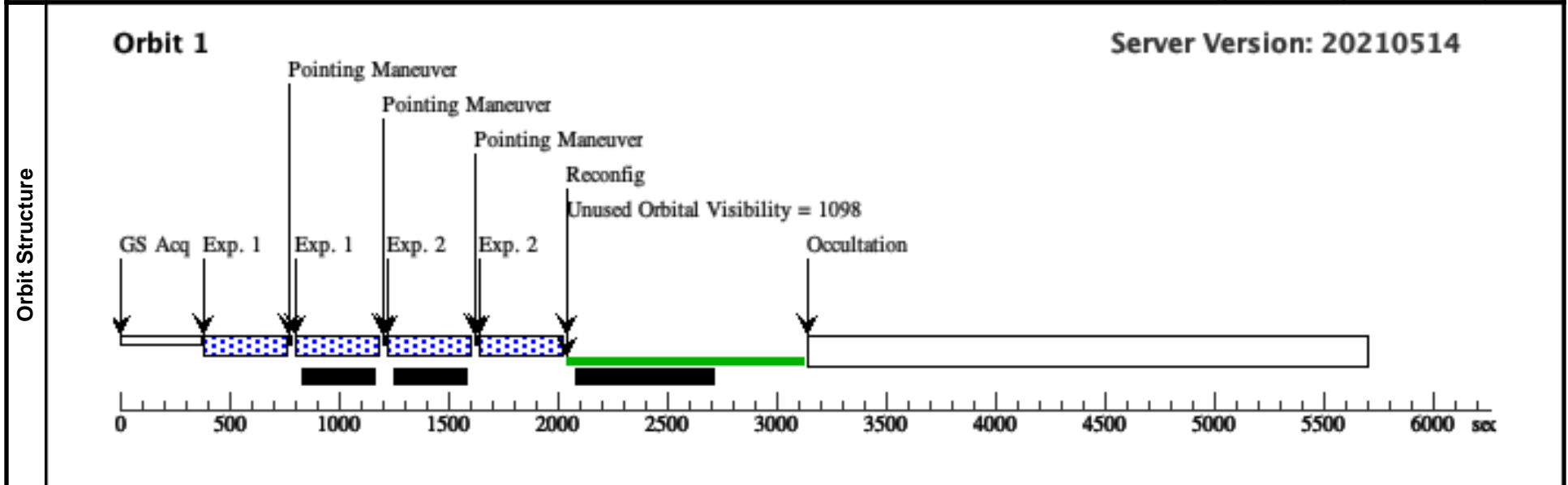
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 3O, implementation | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: WFC3/IR | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|--|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (75) | EMACSJ2055.3+0106 | RA: 20 55 23.2600 (313.8469167d) Dec: +01 06 7.90 (1.10219d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|-----------------|----------------------------|----------------------------|-------------------------|-----------------------------------|-----------------------------------|-------------------------------------|-------------------------------------|---------------------------------|-------|
| | 1 | 2055+01_11 0 | (75) EMACSJ2055.3 +0106 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 3O (2) | 352.939501 Secs (705.879 Secs) | [1] |
| 2 | 2055+01_14 0 | (75) EMACSJ2055.3 +0106 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 3O (2) | 352.939501 Secs (705.879 Secs) | [1] | |



Proposal 16670 - Visit 3P - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:23 GMT 2021

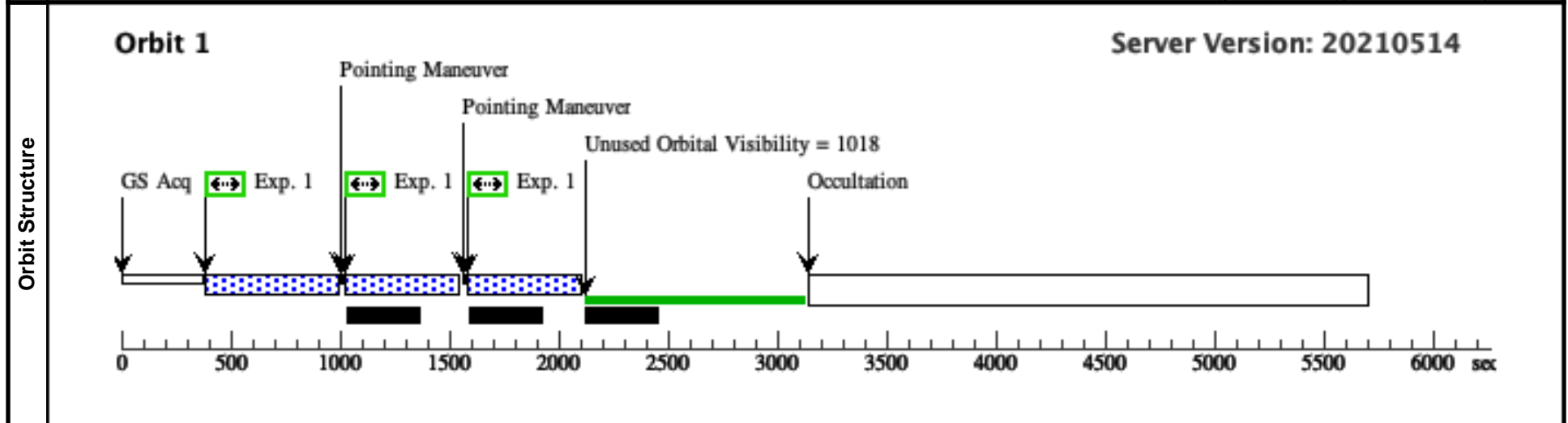
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 3P, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (76) | EMACSJ2106.8-0510 | RA: 21 06 47.9300 (316.6997083d) Dec: -05 09 38.70 (-5.16075d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 2106-05_60 | (76) EMACSJ2106.8-0510 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 3P (1) | 400 Secs (1200 Secs) |
| 6 | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 3Q - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:23 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 3Q, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

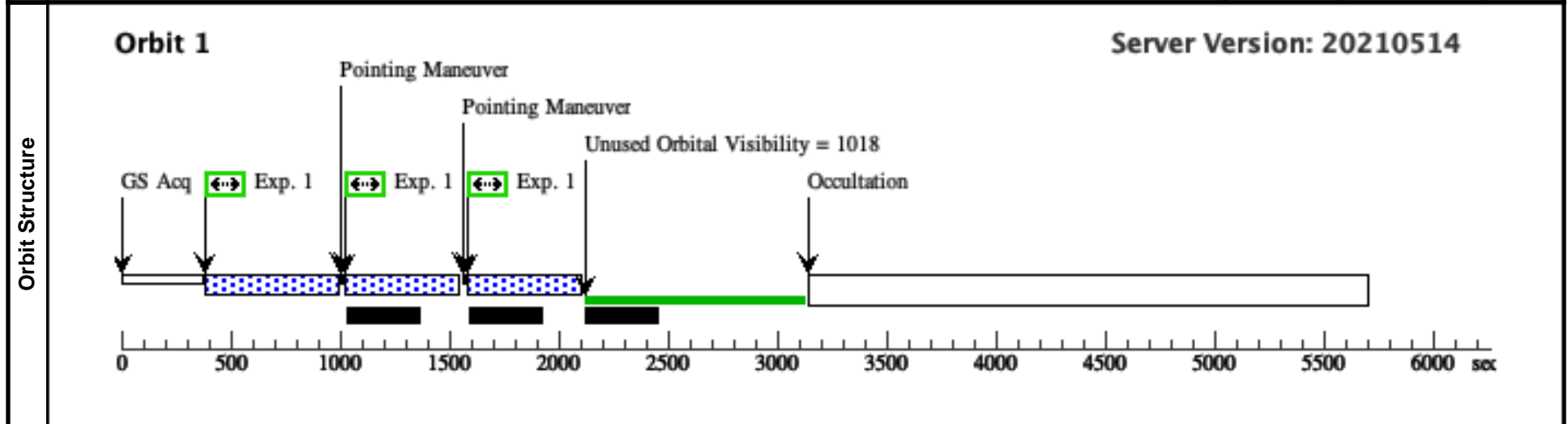
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (76) | EMACSJ2106.8-0510 | RA: 21 06 47.9300 (316.6997083d) Dec: -05 09 38.70 (-5.16075d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-------------|------------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | 2106-05_814 | (76) EMACSJ2106.8-0510 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 3Q (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]

[1]



Proposal 16670 - Visit 3R - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

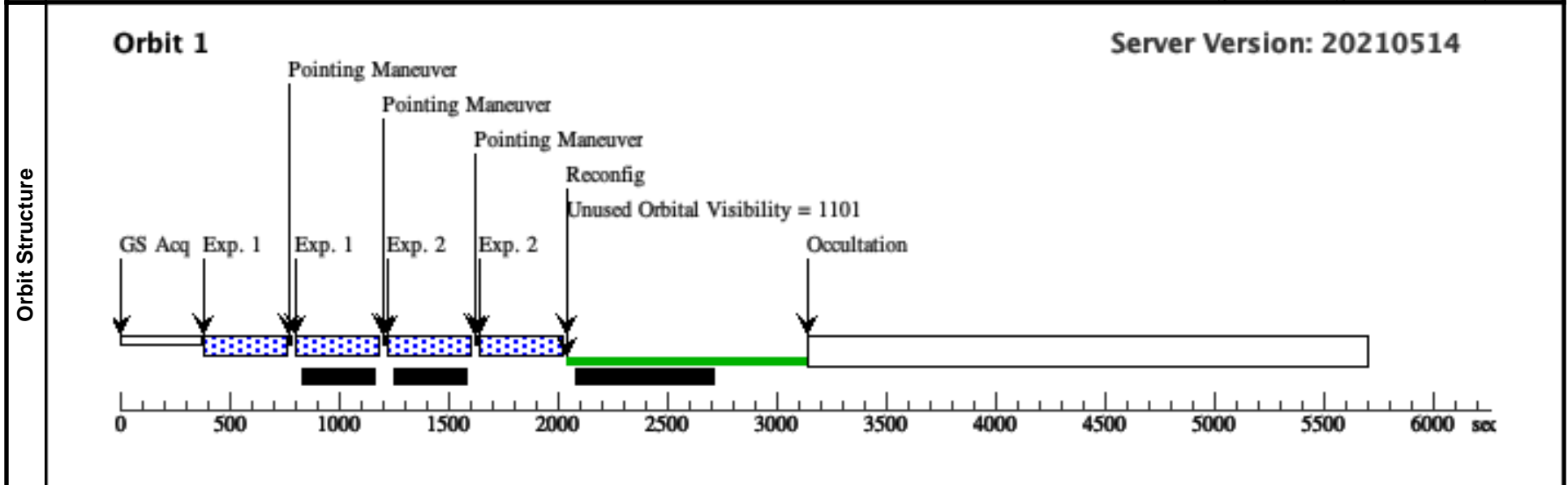
Thu Oct 07 11:02:23 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 3R, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|-------------------|-----------|
| | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | | (1), (2) |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|--|-------------------|---|--------------------------|--------|-----------------------|
| | (76) | EMACSJ2106.8-0510 | RA: 21 06 47.9300 (316.6997083d) Dec: -05 09 38.70 (-5.16075d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |
| | <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-------------|------------------------|-------------------------|---------------|--------------------------------|---------------|-------------------------------------|--|-------|
| | 1 | 2106-05_110 | (76) EMACSJ2106.8-0510 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 3R (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |
| | 2 | 2106-05_140 | (76) EMACSJ2106.8-0510 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 3R (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 3S - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:23 GMT 2021

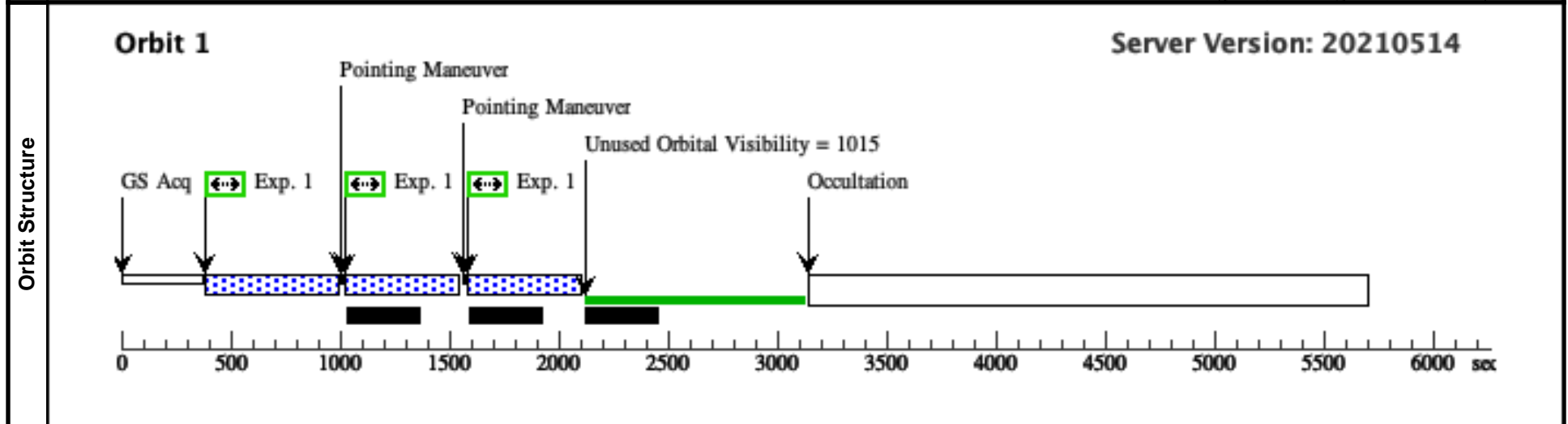
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 3S, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (77) | EMACSJ2116.0-0225 | RA: 21 16 5.0500 (319.0210417d) Dec: -02 25 46.70 (-2.42964d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 2116-02_60 | (77) EMACSJ2116.0-0225 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 3S (1) | 400 Secs (1200 Secs) |
| 6 | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 3T - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:23 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 3T, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

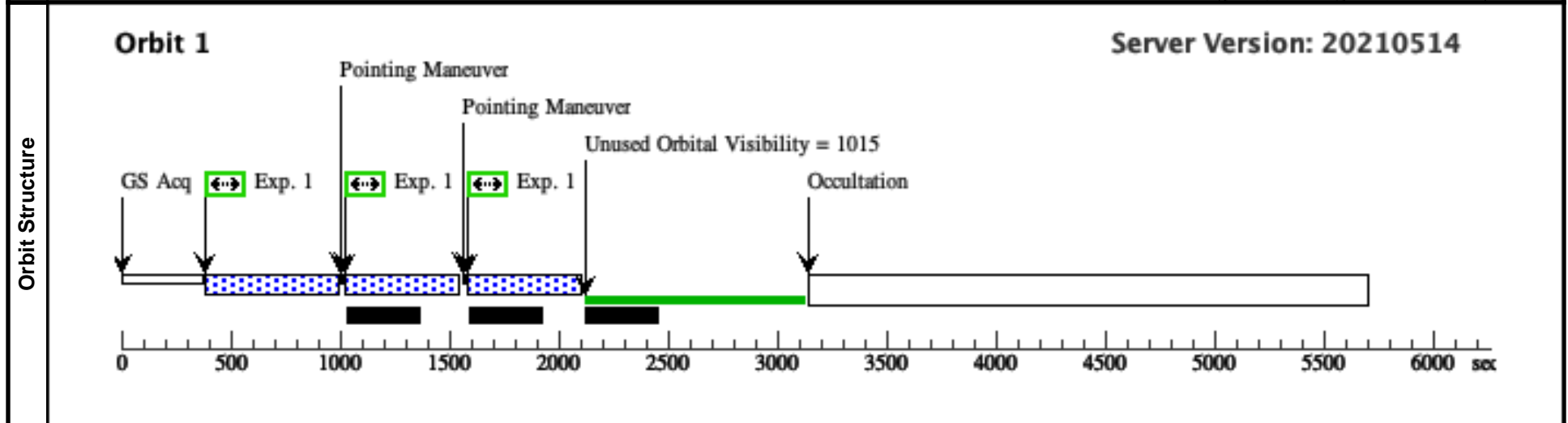
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (77) | EMACSJ2116.0-0225 | RA: 21 16 5.0500 (319.0210417d) Dec: -02 25 46.70 (-2.42964d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-------------|------------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | 2116-02_814 | (77) EMACSJ2116.0-0225 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 3T (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]

[1]



Proposal 16670 - Visit 3U - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:23 GMT 2021

| | | | | | | | | | | |
|---|---|--|--|--------------------------|--------------------|-------------------------------------|---------------|-------------------------------------|--|-------|
| Visit | Proposal 16670, Visit 3U, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | | | | | | | | |
| | Patterns | # (2) Primary Pattern Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | Secondary Pattern | Exposures (1), (2) | | | | | |
| Fixed Targets | # (77) | Name EMACSJ2116.0-0225 | Target Coordinates RA: 21 16 5.0500 (319.0210417d) Dec: -02 25 46.70 (-2.42964d) Equinox: J2000 | Targ. Coord. Corrections | Fluxes V=19 | Miscellaneous Reference Frame: ICRS | | | | |
| Comments: Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | 2116-02_110 | (77) EMACSJ2116.0-0225 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 3U (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |
| | 2 | 2116-02_140 | (77) EMACSJ2116.0-0225 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 3U (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |
| Orbit Structure | <div style="display: flex; justify-content: space-between;"> Orbit 1 Server Version: 20210514 </div> <p>The diagram shows a timeline from 0 to 6000 seconds. Key events include: GS Acq at ~100s, Exp. 1 at ~400s, Exp. 1 at ~800s, Exp. 2 at ~1200s, Exp. 2 at ~1600s, Reconfig at ~2000s, and Occultation starting at ~3100s. Pointing maneuvers occur between exposures. A green bar indicates 'Unused Orbital Visibility = 1098' from ~2000s to ~3100s. Black bars below the timeline represent other activities.</p> | | | | | | | | | |

Proposal 16670 - Visit 3V - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:23 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 3V, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

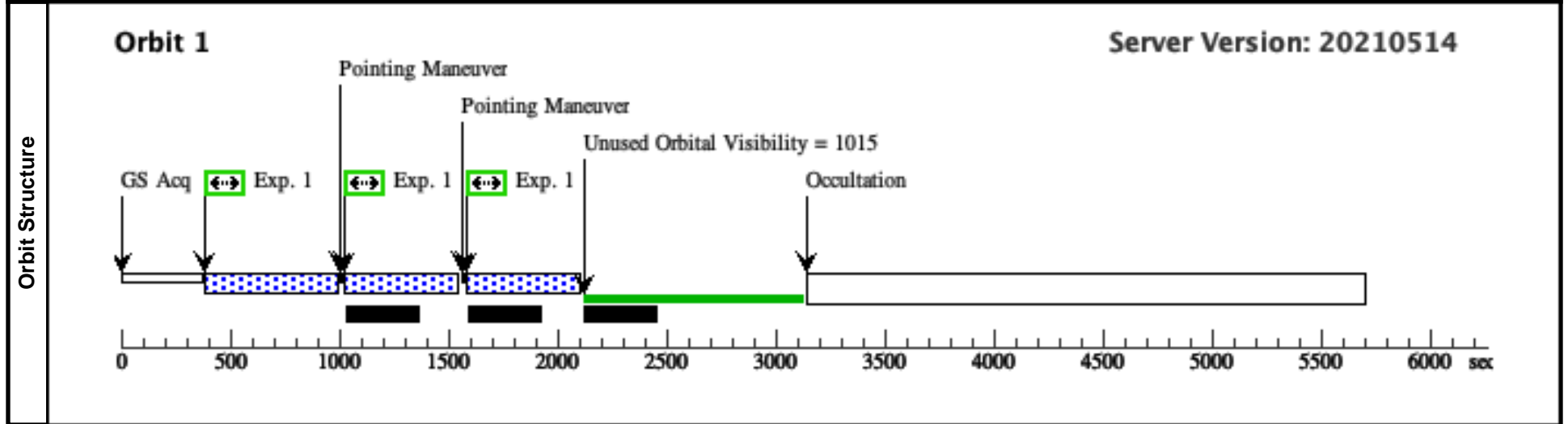
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (78) | EMACSJ2124.6-0133 | RA: 21 24 40.7700 (321.1698750d) Dec: -01 33 41.10 (-1.56142d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|----------------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | 2124-01_60 6 | (78) EMACSJ2124.6 -0133 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 3V (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]

[1]



Proposal 16670 - Visit 3W - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

Thu Oct 07 11:02:23 GMT 2021

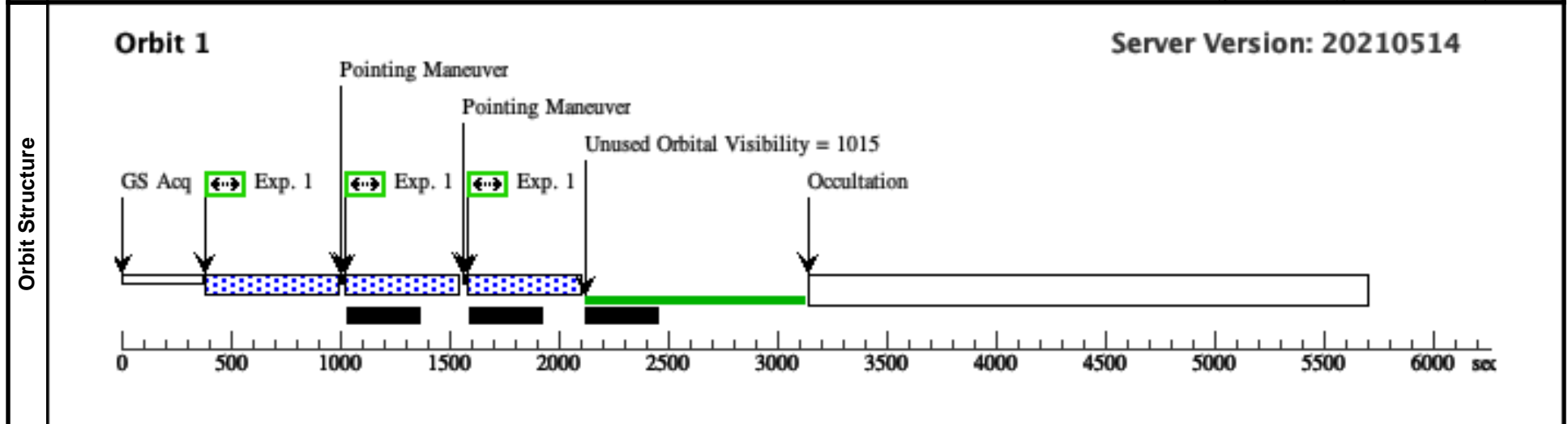
| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 3W, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none) | | |
|--------------|--|--|--|

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|---|-------------------|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | | (1) |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (78) | EMACSJ2124.6-0133 | RA: 21 24 40.7700 (321.1698750d) Dec: -01 33 41.10 (-1.56142d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|----------------------------|----------------------|---------------|--------------|---------------|-------------------------------------|---|-------|
| | 1 | 2124-01_81 4 | (78) EMACSJ2124.6 -0133 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | Pattern 1, Exps 1-1 in Visit 3W (1) | 400 Secs (1200 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 3X - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

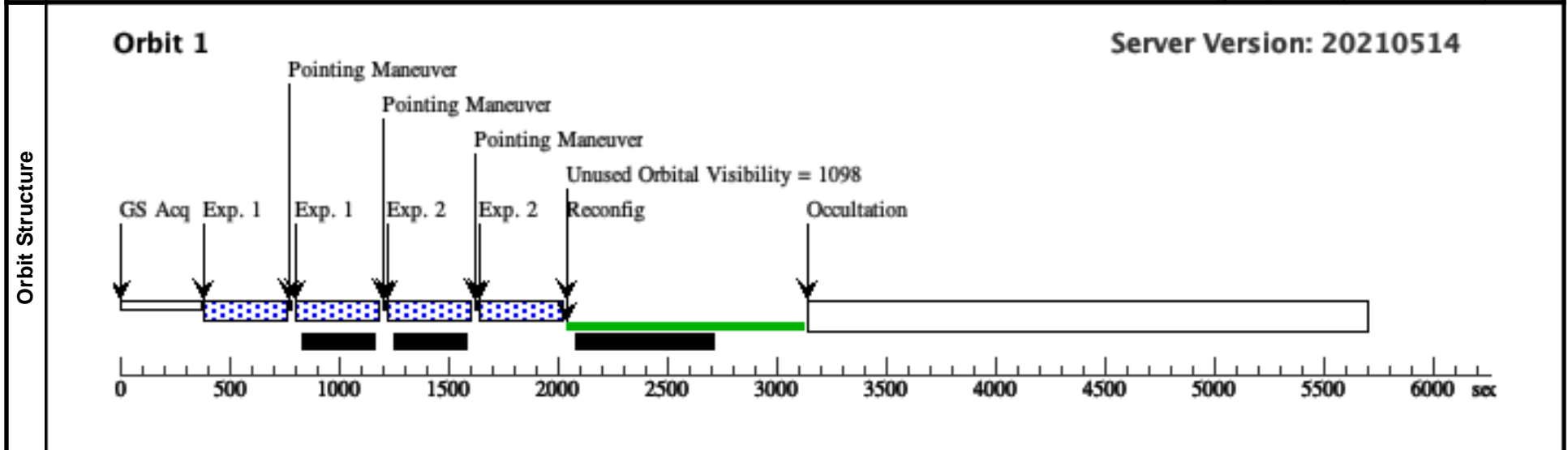
Thu Oct 07 11:02:23 GMT 2021

| | | | |
|--------------|--|--|--|
| Visit | Proposal 16670, Visit 3X, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|---|-----------------|--|-----------|
| | | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|--|------|--------------------|---|--------|---------------|
| | | (78) | EMACSJ2124.6-0133 | RA: 21 24 40.7700 (321.1698750d) Dec: -01 33 41.10 (-1.56142d) Equinox: J2000 | | V=19 |
| | <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-------------|------------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|-------------------------------------|--|--|
| | | 1 | 2124-01_110 | (78) EMACSJ2124.6-0133 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 in Visit 3X (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] |
| | 2 | 2124-01_140 | (78) EMACSJ2124.6-0133 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 in Visit 3X (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 3Y - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

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| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 3Y, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

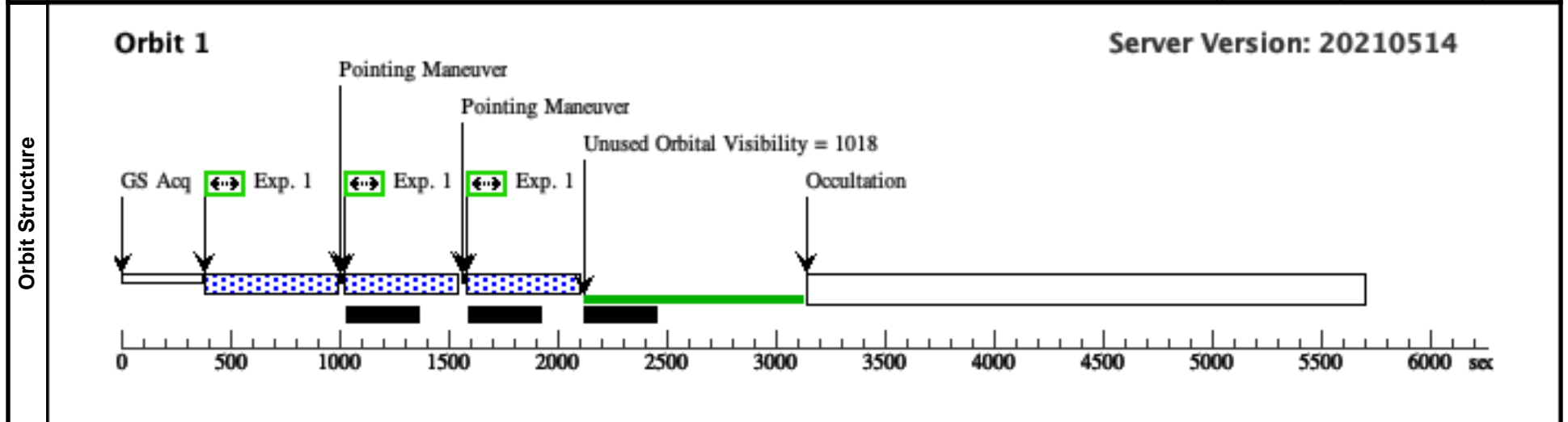
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (79) | EMACSJ2311.2-0946 | RA: 23 11 18.8500 (347.8285417d) Dec: -09 46 22.30 (-9.77286d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|----------------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | 2311-09_60 6 | (79) EMACSJ2311.2 -0946 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 3Y (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]

[1]



Proposal 16670 - Visit 3Z - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

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| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 3Z, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

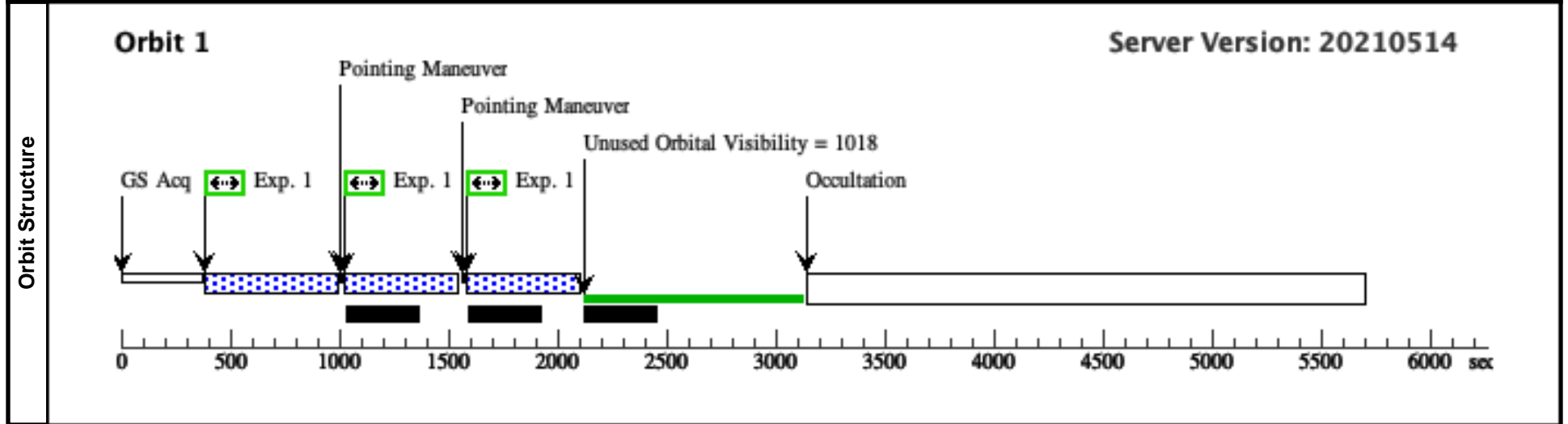
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|---|--------------------------|--------|-----------------------|
| | (79) | EMACSJ2311.2-0946 | RA: 23 11 18.8500 (347.8285417d) Dec: -09 46 22.30 (-9.77286d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|----------------------------|----------------------|---------------|--------------|---------------|--------|-------------------------------------|----------------------|
| | 1 | 2311-09_81 4 | (79) EMACSJ2311.2 -0946 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 3Z (1) | 400 Secs (1200 Secs) |

[=>(Pattern 1)]
 [=>(Pattern 2)]
 [=>(Pattern 3)]

[1]



Proposal 16670 - Visit 4A - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

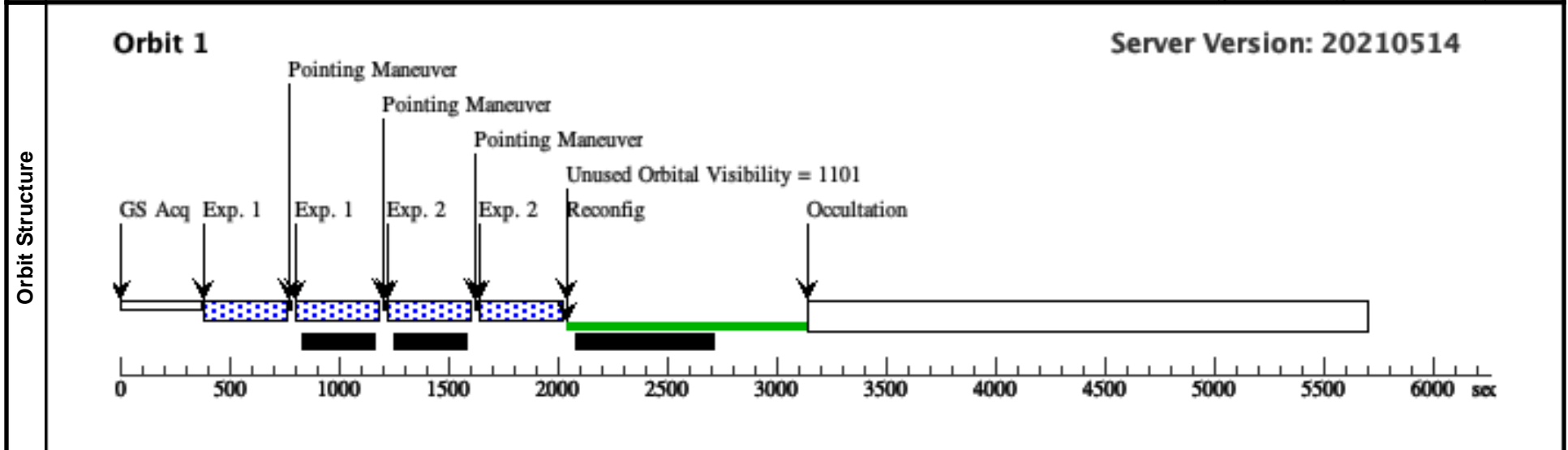
Thu Oct 07 11:02:23 GMT 2021

| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 4A, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | |
| | | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|---|-----------------|--|-----------|
| | | (2) | Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|--|------|--------------------|---|--------|---------------|
| | | (79) | EMACSJ2311.2-0946 | RA: 23 11 18.8500 (347.8285417d) Dec: -09 46 22.30 (-9.77286d) Equinox: J2000 | | V=19 |
| | <i>Comments:</i> Category=CLUSTER OF GALAXIES Description=[RICH CLUSTER] | | | | | |

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|----------------------------|----------------------------|-------------------------|-----------------------------------|-----------------------------------|---|--|--|
| | | 1 | 2311-09_11 0 | (79) EMACSJ2311.2 -0946 | WFC3/IR, MULTIACCUM, IR | F110W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 1-1 i n Visit 4A (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] |
| | 2 | 2311-09_14 0 | (79) EMACSJ2311.2 -0946 | WFC3/IR, MULTIACCUM, IR | F140W | SAMP-SEQ=SPARS 25; NSAMP=15 | | Pattern 2, Exps 2-2 i n Visit 4A (2) | 352.939501 Secs (705.879 Secs) [=>(Pattern 1)] [=>(Pattern 2)] | [1] |



Proposal 16670 - Visit 4B - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

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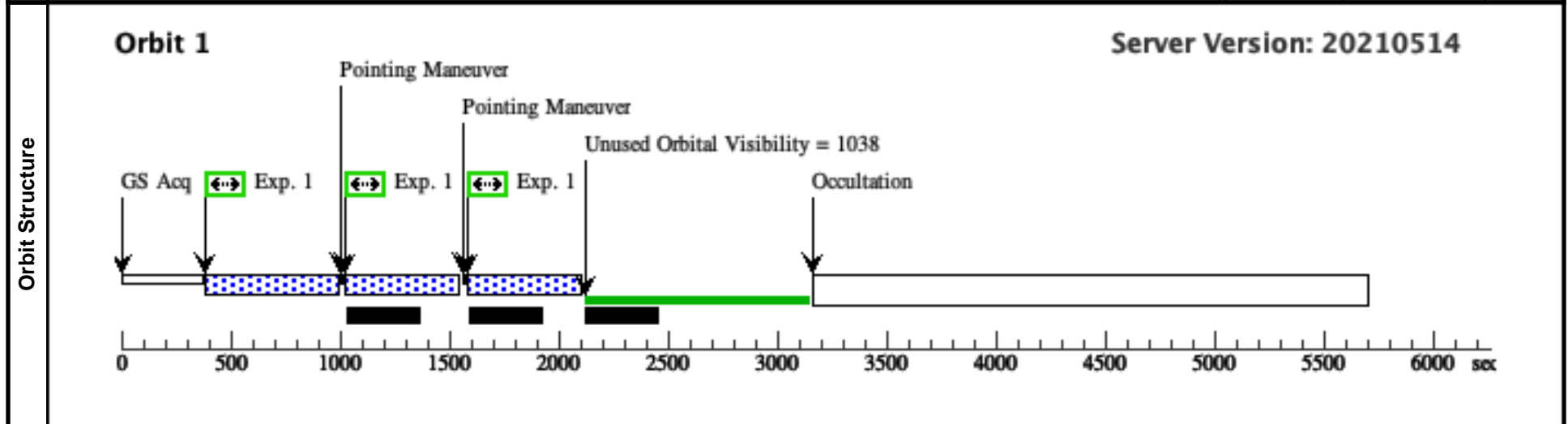
| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 4B, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (80) | EMACSJ2320.9+2912 | RA: 23 21 1.5700 (350.2565417d) Dec: +29 11 51.30 (29.19758d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|------------|------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 2320+29_60 | (80) EMACSJ2320.9+2912 | ACS/WFC, ACCUM, WFC | F606W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 4B (1) | 400 Secs (1200 Secs) |
| 6 | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |



Proposal 16670 - Visit 4C - They almost got away: a SNAPshot survey of extreme galaxy clusters at z=0.2-0.5

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| | | | |
|--------------|---|--|--|
| Visit | Proposal 16670, Visit 4C, scheduling | | |
| | Diagnostic Status: No Diagnostics | | |
| | Scientific Instruments: ACS/WFC | | |
| | Special Requirements: (none) | | |

| Patterns | # | Primary Pattern | Secondary Pattern | Exposures |
|-----------------|-----|--|---|-----------|
| | (1) | Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing= | Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true | |

| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|----------------------|------|-------------------|--|--------------------------|--------|-----------------------|
| | (80) | EMACSJ2320.9+2912 | RA: 23 21 1.5700 (350.2565417d) Dec: +29 11 51.30 (29.19758d) Equinox: J2000 | | V=19 | Reference Frame: ICRS |

Comments:
 Category=CLUSTER OF GALAXIES
 Description=[RICH CLUSTER]

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------|---|-----------------|----------------------------|----------------------|---------------|--------------|---------------|--------|---|----------------------|
| | 1 | 2320+29_81 4 | (80) EMACSJ2320.9 +2912 | ACS/WFC, ACCUM, WFC | F814W | CR-SPLIT=NO | | | Pattern 1, Exps 1-1 in Visit 4C (1) | 400 Secs (1200 Secs) |
| | | | | | | | | | [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] | [1] |

