



## 14096 - RELICS: Reionization Lensing Cluster Survey

Cycle: 23, Proposal Category: GO

(Treasury)

(Availability Mode: SUPPORTED)

### INVESTIGATORS

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### VISITS

| <i>Visit</i> | <i>Targets used in Visit</i> | <i>Configurations used in Visit</i> | <i>Orbits Used</i> | <i>Last Orbit Planner Run</i> | <i>OP Current with Visit?</i> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| A2           | (111) ACO-2163-NE            | WFC3/IR                             | 1                  | 07-Aug-2017 14:04:09.0        | yes                           |
| B2           | (112) ACO-2163-SW            | WFC3/IR                             | 1                  | 07-Aug-2017 14:04:11.0        | yes                           |

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|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| A4           | (111) ACO-2163-NE            | WFC3/IR                             | 1                  | 07-Aug-2017 14:04:12.0        | yes                           |
| B4           | (112) ACO-2163-SW            | WFC3/IR                             | 1                  | 07-Aug-2017 14:04:14.0        | yes                           |
| C1           | (2) PLCK-G287.0+32.9         | ACS/WFC                             | 1                  | 07-Aug-2017 14:04:15.0        | yes                           |
| C2           | (2) PLCK-G287.0+32.9         | WFC3/IR                             | 1                  | 07-Aug-2017 14:04:16.0        | yes                           |
| C4           | (2) PLCK-G287.0+32.9         | WFC3/IR                             | 1                  | 07-Aug-2017 14:04:17.0        | yes                           |
| D1           | (331) MACSJ0417.5-1154-F435W | ACS/WFC                             | 1                  | 07-Aug-2017 14:04:18.0        | yes                           |
| D2           | (332) MACSJ0417.5-1154-IR    | WFC3/IR                             | 1                  | 07-Aug-2017 14:04:19.0        | yes                           |
| D4           | (332) MACSJ0417.5-1154-IR    | WFC3/IR                             | 1                  | 07-Aug-2017 14:04:21.0        | yes                           |
| E1           | (4) ACO-697<br>ANY           | ACS/WFC<br>WFC3/IR<br>WFC3/UVIS     | 2                  | 07-Aug-2017 14:04:23.0        | yes                           |
| E2           | (4) ACO-697                  | WFC3/IR                             | 1                  | 07-Aug-2017 14:04:25.0        | yes                           |
| E3           | (4) ACO-697<br>ANY           | ACS/WFC<br>WFC3/IR                  | 1                  | 07-Aug-2017 14:04:26.0        | yes                           |
| E4           | (4) ACO-697                  | WFC3/IR                             | 1                  | 07-Aug-2017 14:04:34.0        | yes                           |
| F2           | (51) 1RXS-J060313.4+421231-N | WFC3/IR                             | 1                  | 07-Aug-2017 14:04:35.0        | yes                           |
| G2           | (52) 1RXS-J060313.4+421231-S | WFC3/IR                             | 1                  | 07-Aug-2017 14:04:36.0        | yes                           |
| F4           | (51) 1RXS-J060313.4+421231-N | WFC3/IR                             | 1                  | 07-Aug-2017 14:04:38.0        | yes                           |
| G4           | (52) 1RXS-J060313.4+421231-S | WFC3/IR                             | 1                  | 07-Aug-2017 14:04:39.0        | yes                           |
| H1           | (61) MCS-J0308.9+2645-ACS    | ACS/WFC                             | 1                  | 07-Aug-2017 14:04:40.0        | yes                           |
| H2           | (62) MCS-J0308.9+2645-IR     | WFC3/IR                             | 1                  | 07-Aug-2017 14:04:41.0        | yes                           |
| H3           | (61) MCS-J0308.9+2645-ACS    | ACS/WFC                             | 1                  | 07-Aug-2017 14:04:42.0        | yes                           |
| H4           | (62) MCS-J0308.9+2645-IR     | WFC3/IR                             | 1                  | 07-Aug-2017 14:04:43.0        | yes                           |
| I1           | (70) NAME-EL-GORDO-F435W     | ACS/WFC                             | 1                  | 07-Aug-2017 14:04:44.0        | yes                           |
| I2           | (71) NAME-EL-GORDO-NW        | WFC3/IR                             | 1                  | 07-Aug-2017 14:04:45.0        | yes                           |
| J2           | (72) NAME-EL-GORDO-SE        | WFC3/IR                             | 1                  | 07-Aug-2017 14:04:46.0        | yes                           |

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| I4           | (71) NAME-EL-GORDO-NW           | WFC3/IR                             | 1                  | 07-Aug-2017 14:04:47.0        | yes                           |
| J4           | (72) NAME-EL-GORDO-SE           | WFC3/IR                             | 1                  | 07-Aug-2017 14:04:48.0        | yes                           |
| K1           | (8) RXC-J0600.1-2007<br>ANY     | ACS/WFC<br>WFC3/IR<br>WFC3/UVIS     | 2                  | 07-Aug-2017 14:04:51.0        | yes                           |
| K2           | (8) RXC-J0600.1-2007            | WFC3/IR                             | 1                  | 07-Aug-2017 14:04:52.0        | yes                           |
| K3           | (8) RXC-J0600.1-2007<br>ANY     | ACS/WFC<br>WFC3/IR                  | 1                  | 07-Aug-2017 14:04:54.0        | yes                           |
| K4           | (8) RXC-J0600.1-2007            | WFC3/IR                             | 1                  | 07-Aug-2017 14:04:56.0        | yes                           |
| L1           | (9) PSZ2-G209.79+10.23<br>ANY   | ACS/WFC<br>WFC3/IR<br>WFC3/UVIS     | 2                  | 07-Aug-2017 14:04:58.0        | yes                           |
| L2           | (9) PSZ2-G209.79+10.23          | WFC3/IR                             | 1                  | 07-Aug-2017 14:04:59.0        | yes                           |
| L3           | (9) PSZ2-G209.79+10.23<br>ANY   | ACS/WFC<br>WFC3/IR                  | 1                  | 07-Aug-2017 14:05:01.0        | yes                           |
| L4           | (9) PSZ2-G209.79+10.23          | WFC3/IR                             | 1                  | 07-Aug-2017 14:05:02.0        | yes                           |
| M1           | (10) PLCKESZ-G171.9-40.7<br>ANY | ACS/WFC<br>WFC3/IR<br>WFC3/UVIS     | 2                  | 07-Aug-2017 14:05:04.0        | yes                           |
| M2           | (10) PLCKESZ-G171.9-40.7        | WFC3/IR                             | 1                  | 07-Aug-2017 14:05:06.0        | yes                           |
| M3           | (10) PLCKESZ-G171.9-40.7<br>ANY | ACS/WFC<br>WFC3/IR                  | 1                  | 07-Aug-2017 14:05:07.0        | yes                           |
| M4           | (10) PLCKESZ-G171.9-40.7        | WFC3/IR                             | 1                  | 07-Aug-2017 14:05:09.0        | yes                           |
| N1           | (11) RXCJ2211.7-0349<br>ANY     | ACS/WFC<br>WFC3/IR<br>WFC3/UVIS     | 2                  | 07-Aug-2017 14:05:11.0        | yes                           |
| N2           | (11) RXCJ2211.7-0349            | WFC3/IR                             | 1                  | 07-Aug-2017 14:05:12.0        | yes                           |

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|--------------|--------------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| N3           | (11) RXCJ2211.7-0349<br>ANY          | ACS/WFC<br>WFC3/IR                  | 1                  | 07-Aug-2017 14:05:14.0        | yes                           |
| N4           | (11) RXCJ2211.7-0349                 | WFC3/IR                             | 1                  | 07-Aug-2017 14:05:16.0        | yes                           |
| O1           | (121) PLCKESZ-G004.5-19.5-ACS<br>ANY | ACS/WFC<br>WFC3/IR<br>WFC3/UVIS     | 2                  | 07-Aug-2017 14:05:18.0        | yes                           |
| O2           | (122) PLCKESZ-G004.5-19.5-IR         | WFC3/IR                             | 1                  | 07-Aug-2017 14:05:20.0        | yes                           |
| O3           | (121) PLCKESZ-G004.5-19.5-ACS<br>ANY | ACS/WFC<br>WFC3/IR                  | 1                  | 07-Aug-2017 14:05:21.0        | yes                           |
| O4           | (122) PLCKESZ-G004.5-19.5-IR         | WFC3/IR                             | 1                  | 07-Aug-2017 14:05:22.0        | yes                           |
| P1           | (13) PLCKESZ-G308.3-20.2<br>ANY      | ACS/WFC<br>WFC3/IR<br>WFC3/UVIS     | 2                  | 07-Aug-2017 14:05:24.0        | yes                           |
| P2           | (13) PLCKESZ-G308.3-20.2             | WFC3/IR                             | 1                  | 07-Aug-2017 14:05:26.0        | yes                           |
| P3           | (13) PLCKESZ-G308.3-20.2<br>ANY      | ACS/WFC<br>WFC3/IR                  | 1                  | 07-Aug-2017 14:05:27.0        | yes                           |
| P4           | (13) PLCKESZ-G308.3-20.2             | WFC3/IR                             | 1                  | 07-Aug-2017 14:05:29.0        | yes                           |
| Q1           | (14) CLG-0016+16                     | ACS/WFC                             | 1                  | 07-Aug-2017 14:05:30.0        | yes                           |
| Q2           | (14) CLG-0016+16                     | WFC3/IR                             | 1                  | 07-Aug-2017 14:05:31.0        | yes                           |
| Q4           | (14) CLG-0016+16                     | WFC3/IR                             | 1                  | 07-Aug-2017 14:05:32.0        | yes                           |
| R1           | (15) SPT-CL-J0254-5856<br>ANY        | ACS/WFC<br>WFC3/IR<br>WFC3/UVIS     | 2                  | 07-Aug-2017 14:05:34.0        | yes                           |
| R2           | (15) SPT-CL-J0254-5856               | WFC3/IR                             | 1                  | 07-Aug-2017 14:05:37.0        | yes                           |
| R3           | (15) SPT-CL-J0254-5856<br>ANY        | ACS/WFC<br>WFC3/IR                  | 1                  | 07-Aug-2017 14:05:38.0        | yes                           |
| R4           | (15) SPT-CL-J0254-5856               | WFC3/IR                             | 1                  | 07-Aug-2017 14:05:39.0        | yes                           |

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|--------------|--------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| S1           | (16) PSZ2-G138.61-10.84<br>ANY | ACS/WFC<br>WFC3/IR<br>WFC3/UVIS     | 2                  | 07-Aug-2017 14:05:41.0        | yes                           |
| S2           | (16) PSZ2-G138.61-10.84        | WFC3/IR                             | 1                  | 07-Aug-2017 14:05:43.0        | yes                           |
| S3           | (16) PSZ2-G138.61-10.84<br>ANY | ACS/WFC<br>WFC3/IR                  | 1                  | 07-Aug-2017 14:05:44.0        | yes                           |
| S4           | (16) PSZ2-G138.61-10.84        | WFC3/IR                             | 1                  | 07-Aug-2017 14:05:46.0        | yes                           |
| T1           | (17) CIZA-J0142.9+4438<br>ANY  | ACS/WFC<br>WFC3/IR<br>WFC3/UVIS     | 2                  | 07-Aug-2017 14:05:48.0        | yes                           |
| T2           | (17) CIZA-J0142.9+4438         | WFC3/IR                             | 1                  | 07-Aug-2017 14:05:50.0        | yes                           |
| T3           | (17) CIZA-J0142.9+4438<br>ANY  | ACS/WFC<br>WFC3/IR                  | 1                  | 07-Aug-2017 14:05:51.0        | yes                           |
| T4           | (17) CIZA-J0142.9+4438         | WFC3/IR                             | 1                  | 07-Aug-2017 14:05:52.0        | yes                           |
| U1           | (18) ACO-1300<br>ANY           | ACS/WFC<br>WFC3/IR<br>WFC3/UVIS     | 2                  | 07-Aug-2017 14:05:54.0        | yes                           |
| U2           | (18) ACO-1300                  | WFC3/IR                             | 1                  | 07-Aug-2017 14:05:57.0        | yes                           |
| U3           | (18) ACO-1300<br>ANY           | ACS/WFC<br>WFC3/IR                  | 1                  | 07-Aug-2017 14:05:58.0        | yes                           |
| U4           | (18) ACO-1300                  | WFC3/IR                             | 1                  | 07-Aug-2017 14:05:59.0        | yes                           |
| V1           | (19) WHL-J24.3324-8.477<br>ANY | ACS/WFC<br>WFC3/IR<br>WFC3/UVIS     | 2                  | 07-Aug-2017 14:06:02.0        | yes                           |
| V2           | (19) WHL-J24.3324-8.477        | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:03.0        | yes                           |
| V3           | (19) WHL-J24.3324-8.477<br>ANY | ACS/WFC<br>WFC3/IR                  | 1                  | 07-Aug-2017 14:06:05.0        | yes                           |
| V4           | (19) WHL-J24.3324-8.477        | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:06.0        | yes                           |

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|--------------|-----------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| W1           | (20) PLCKESZ-G346.59+35.04<br>ANY | ACS/WFC<br>WFC3/IR<br>WFC3/UVIS     | 2                  | 07-Aug-2017 14:06:08.0        | yes                           |
| W2           | (20) PLCKESZ-G346.59+35.04        | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:10.0        | yes                           |
| W3           | (20) PLCKESZ-G346.59+35.04<br>ANY | ACS/WFC<br>WFC3/IR                  | 1                  | 07-Aug-2017 14:06:11.0        | yes                           |
| W4           | (20) PLCKESZ-G346.59+35.04        | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:12.0        | yes                           |
| X1           | (21) ACO-665<br>ANY               | ACS/WFC<br>WFC3/IR<br>WFC3/UVIS     | 2                  | 07-Aug-2017 14:06:15.0        | yes                           |
| X2           | (21) ACO-665                      | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:16.0        | yes                           |
| X3           | (21) ACO-665<br>ANY               | ACS/WFC<br>WFC3/IR                  | 1                  | 07-Aug-2017 14:06:18.0        | yes                           |
| X4           | (21) ACO-665                      | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:20.0        | yes                           |
| Y2           | (22) MCS-J0553.4-3342             | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:21.0        | yes                           |
| Y4           | (22) MCS-J0553.4-3342             | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:22.0        | yes                           |
| Z1           | (23) SMACSJ0723.3-7327            | ACS/WFC                             | 1                  | 07-Aug-2017 14:06:23.0        | yes                           |
| Z2           | (23) SMACSJ0723.3-7327            | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:24.0        | yes                           |
| Z3           | (23) SMACSJ0723.3-7327            | ACS/WFC                             | 1                  | 07-Aug-2017 14:06:25.0        | yes                           |
| Z4           | (23) SMACSJ0723.3-7327            | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:26.0        | yes                           |
| Z5           | (23) SMACSJ0723.3-7327            | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:27.0        | yes                           |
| Z6           | (23) SMACSJ0723.3-7327            | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:29.0        | yes                           |
| Z7           | (23) SMACSJ0723.3-7327            | WFC3/IR                             | 2                  | 07-Aug-2017 14:06:31.0        | yes                           |
| 01           | (24) ZWCL-0947+1723               | ACS/WFC                             | 1                  | 07-Aug-2017 14:06:32.0        | yes                           |
| 02           | (24) ZWCL-0947+1723               | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:34.0        | yes                           |
| 03           | (24) ZWCL-0947+1723               | ACS/WFC                             | 1                  | 07-Aug-2017 14:06:34.0        | yes                           |

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| 04           | (24) ZWCL-0947+1723          | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:36.0        | yes                           |
| 12           | (251) ACO-1758-NW            | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:37.0        | yes                           |
| 22           | (252) ACO-1758-SE            | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:38.0        | yes                           |
| 14           | (251) ACO-1758-NW            | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:39.0        | yes                           |
| 24           | (252) ACO-1758-SE            | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:40.0        | yes                           |
| 31           | (26) ACO-1763<br>ANY         | ACS/WFC<br>WFC3/IR<br>WFC3/UVIS     | 2                  | 07-Aug-2017 14:06:44.0        | yes                           |
| 32           | (26) ACO-1763                | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:45.0        | yes                           |
| 33           | (26) ACO-1763<br>ANY         | ACS/WFC<br>WFC3/IR                  | 1                  | 07-Aug-2017 14:06:46.0        | yes                           |
| 34           | (26) ACO-1763                | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:48.0        | yes                           |
| 35           | (26) ACO-1763                | WFC3/IR<br>WFC3/UVIS                | 1                  | 07-Aug-2017 14:06:49.0        | yes                           |
| 36           | (26) ACO-1763                | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:50.0        | yes                           |
| 37           | (26) ACO-1763                | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:51.0        | yes                           |
| 38           | (26) ACO-1763                | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:52.0        | yes                           |
| 39           | (26) ACO-1763                | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:52.0        | yes                           |
| 41           | (27) ACO-2813<br>ANY         | ACS/WFC<br>WFC3/IR<br>WFC3/UVIS     | 2                  | 07-Aug-2017 14:06:55.0        | yes                           |
| 42           | (27) ACO-2813                | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:56.0        | yes                           |
| 43           | (27) ACO-2813<br>ANY         | ACS/WFC<br>WFC3/IR                  | 1                  | 07-Aug-2017 14:06:58.0        | yes                           |
| 44           | (27) ACO-2813                | WFC3/IR                             | 1                  | 07-Aug-2017 14:06:59.0        | yes                           |
| 52           | (281) ACO-520-NE             | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:00.0        | yes                           |
| 62           | (282) ACO-520-SW             | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:01.0        | yes                           |

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|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 54           | (281) ACO-520-NE             | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:03.0        | yes                           |
| 64           | (282) ACO-520-SW             | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:04.0        | yes                           |
| 71           | (29) RXCJ0032.1+1808         | ACS/WFC                             | 1                  | 07-Aug-2017 14:07:05.0        | yes                           |
| 72           | (29) RXCJ0032.1+1808         | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:06.0        | yes                           |
| 73           | (29) RXCJ0032.1+1808         | ACS/WFC                             | 1                  | 07-Aug-2017 14:07:07.0        | yes                           |
| 74           | (29) RXCJ0032.1+1808         | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:08.0        | yes                           |
| 81           | (30) RXCJ0232.2-4420<br>ANY  | ACS/WFC<br>WFC3/IR<br>WFC3/UVIS     | 2                  | 07-Aug-2017 14:07:11.0        | yes                           |
| 82           | (30) RXCJ0232.2-4420         | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:13.0        | yes                           |
| 83           | (30) RXCJ0232.2-4420<br>ANY  | ACS/WFC<br>WFC3/IR                  | 1                  | 07-Aug-2017 14:07:14.0        | yes                           |
| 84           | (30) RXCJ0232.2-4420         | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:15.0        | yes                           |
| 92           | (31) ACO-3192                | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:17.0        | yes                           |
| 94           | (31) ACO-3192                | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:18.0        | yes                           |
| AA           | (32) MCS-J0159.8-0849<br>ANY | ACS/WFC<br>WFC3/IR<br>WFC3/UVIS     | 2                  | 07-Aug-2017 14:07:20.0        | yes                           |
| AB           | (32) MCS-J0159.8-0849        | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:22.0        | yes                           |
| AC           | (32) MCS-J0159.8-0849<br>ANY | ACS/WFC<br>WFC3/IR                  | 1                  | 07-Aug-2017 14:07:23.0        | yes                           |
| AD           | (32) MCS-J0159.8-0849        | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:25.0        | yes                           |
| BA           | (33) MCS-J0035.4-2015        | ACS/WFC                             | 1                  | 07-Aug-2017 14:07:25.0        | yes                           |
| BB           | (33) MCS-J0035.4-2015        | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:27.0        | yes                           |
| BC           | (33) MCS-J0035.4-2015        | ACS/WFC                             | 1                  | 07-Aug-2017 14:07:28.0        | yes                           |
| BD           | (33) MCS-J0035.4-2015        | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:29.0        | yes                           |

Proposal 14096 (STScI Edit Number: 17, Created: Monday, August 7, 2017 1:08:09 PM EST) - Overview

| <b>Visit</b> | <b>Targets used in Visit</b> | <b>Configurations used in Visit</b> | <b>Orbits Used</b> | <b>Last Orbit Planner Run</b> | <b>OP Current with Visit?</b> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| CA           | (341) MCS-J0911.2+1746-F435W | ACS/WFC                             | 1                  | 07-Aug-2017 14:07:30.0        | yes                           |
| CB           | (342) MCS-J0911.2+1746-IR    | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:31.0        | yes                           |
| CD           | (342) MCS-J0911.2+1746-IR    | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:32.0        | yes                           |
| DB           | (35) ACO-S-295               | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:33.0        | yes                           |
| DD           | (35) ACO-S-295               | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:34.0        | yes                           |
| EA           | (361) SPT-CLJ0615-5746-ACS   | ACS/WFC                             | 1                  | 07-Aug-2017 14:07:36.0        | yes                           |
| EB           | (362) SPT-CLJ0615-5746-IR    | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:37.0        | yes                           |
| ED           | (362) SPT-CLJ0615-5746-IR    | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:39.0        | yes                           |
| FA           | (371) MCS-J0257.1-2325-F435W | ACS/WFC                             | 1                  | 07-Aug-2017 14:07:39.0        | yes                           |
| FB           | (372) MCS-J0257.1-2325-IR    | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:41.0        | yes                           |
| FD           | (372) MCS-J0257.1-2325-IR    | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:42.0        | yes                           |
| GA           | (381) ACO-2537-ACS           | ACS/WFC                             | 1                  | 07-Aug-2017 14:07:43.0        | yes                           |
| GB           | (382) ACO-2537-IR            | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:44.0        | yes                           |
| GC           | (381) ACO-2537-ACS           | ACS/WFC                             | 1                  | 07-Aug-2017 14:07:45.0        | yes                           |
| GD           | (382) ACO-2537-IR            | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:46.0        | yes                           |
| HA           | (391) CLG-1008-12-F435W      | ACS/WFC                             | 1                  | 07-Aug-2017 14:07:47.0        | yes                           |
| HB           | (392) CLG-1008-12-IR         | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:48.0        | yes                           |
| HD           | (392) CLG-1008-12-IR         | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:49.0        | yes                           |
| IA           | (401) NAME-BABY-BULLET-F435W | ACS/WFC                             | 1                  | 07-Aug-2017 14:07:50.0        | yes                           |
| IB           | (402) NAME-BABY-BULLET-IR    | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:51.0        | yes                           |
| ID           | (402) NAME-BABY-BULLET-IR    | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:53.0        | yes                           |
| JA           | (411) CLG-J0152-1357-F435W   | ACS/WFC                             | 1                  | 07-Aug-2017 14:07:54.0        | yes                           |
| JB           | (412) CLG-J0152-1357-IR      | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:55.0        | yes                           |
| JD           | (412) CLG-J0152-1357-IR      | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:56.0        | yes                           |
| JE           | (412) CLG-J0152-1357-IR      | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:57.0        | yes                           |

| <i>Visit</i> | <i>Targets used in Visit</i> | <i>Configurations used in Visit</i> | <i>Orbits Used</i> | <i>Last Orbit Planner Run</i> | <i>OP Current with Visit?</i> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| JF           | (412) CLG-J0152-1357-IR      | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:58.0        | yes                           |
| JG           | (412) CLG-J0152-1357-IR      | WFC3/IR                             | 1                  | 07-Aug-2017 14:07:59.0        | yes                           |
| JH           | (412) CLG-J0152-1357-IR      | WFC3/IR                             | 1                  | 07-Aug-2017 14:08:00.0        | yes                           |
| JK           | (412) CLG-J0152-1357-IR      | WFC3/IR                             | 1                  | 07-Aug-2017 14:08:01.0        | yes                           |
| JL           | (412) CLG-J0152-1357-IR      | WFC3/IR                             | 1                  | 07-Aug-2017 14:08:01.0        | yes                           |
| 3A           | (26) ACO-1763                | WFC3/IR                             | 1                  | 07-Aug-2017 14:08:02.0        | yes                           |
| 3B           | (26) ACO-1763                | WFC3/IR                             | 1                  | 07-Aug-2017 14:08:03.0        | yes                           |
| 3C           | (26) ACO-1763                | WFC3/IR                             | 1                  | 07-Aug-2017 14:08:04.0        | yes                           |
| ZA           | (23) SMACSJ0723.3-7327       | WFC3/IR                             | 1                  | 07-Aug-2017 14:08:05.0        | yes                           |
| ZB           | (23) SMACSJ0723.3-7327       | WFC3/IR                             | 1                  | 07-Aug-2017 14:08:06.0        | yes                           |

188 Total Orbits Used

## ABSTRACT

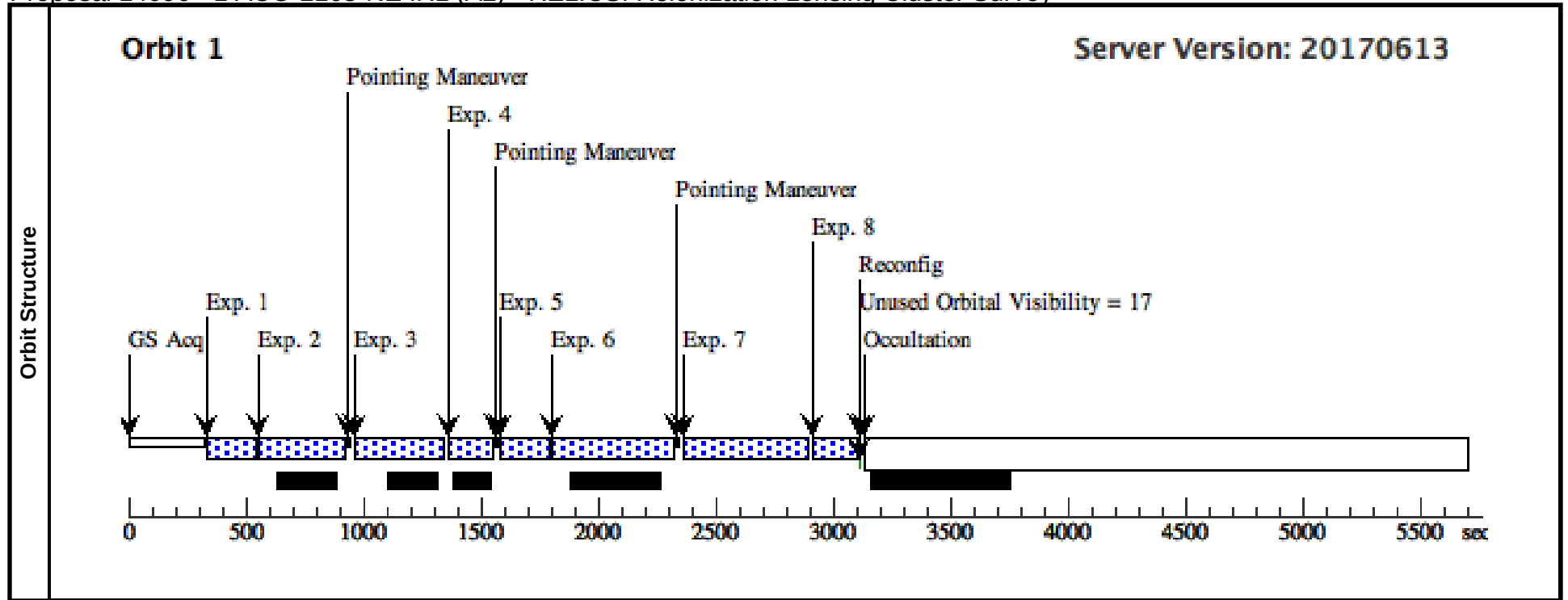
Hubble's WFC3 has revealed  $\sim 2,000$   $z \sim 6-11$  candidates in the universe's first billion years, but only a small fraction have been bright enough ( $H < 25.5$ ) for detailed follow-up study and spectroscopic confirmation. The highest redshift searches ( $z \sim 9-12$ ) have yielded fewer candidates than expected, leaving luminosity functions highly uncertain while hinting at accelerated evolution in the first 600 Myr. We propose a more efficient search for brightly observed high-redshift galaxies by targeting 46 fields exceptionally lensed by 41 galaxy clusters lacking HST infrared imaging. By leveraging the Planck SZ galaxy cluster catalog and archival ACS imaging, we will efficiently deliver over 100  $z \sim 9-12$  candidates placing strong new constraints on luminosity functions with minimal cosmic variance uncertainty. RELICS will also deliver  $\sim 170$   $z \sim 8$  candidates including  $\sim 20$  brighter than  $H < 25.5$ . Follow-up spectroscopy will confirm  $z > 8$  with Ly $\alpha$ , constrain the patchy nature of reionization, and detect redder UV spectral lines such as CIII]1909A. ALMA follow-up will reveal dusty evolved populations in the early universe. Joint lensing + X-ray + SZ analyses will improve currently uncertain mass scaling relations and tighten limits on the dark matter particle cross section. Supernovae will further constrain progenitor properties and provide important new empirical tests for lens modeling. The proposed observations (including F435W) are both timely and urgent. With HST Cycle 23 scheduled through September 2016, we will deliver to the community the best and brightest high-redshift candidates along with cluster lens models in time for the first JWST call for proposals in November 2017.

## **OBSERVING DESCRIPTION**

For each cluster lacking ACS + WFC3/IR imaging, we will observe 3 orbits ACS (F435W, F606W, F814W) and 2 orbits WFC3/IR (F105W, F125W, F140W, F160W). We reduce these requests where archival imaging exists as described in Table 2. We will obtain the ACS and WFC3/IR observations in 2 epochs separated by 40-60 days maintaining the same roll angle. We will perform combinations of small and large dithers to improve resolution and fill in blank regions such as the ACS chip gap and WFC3/IR "death star".

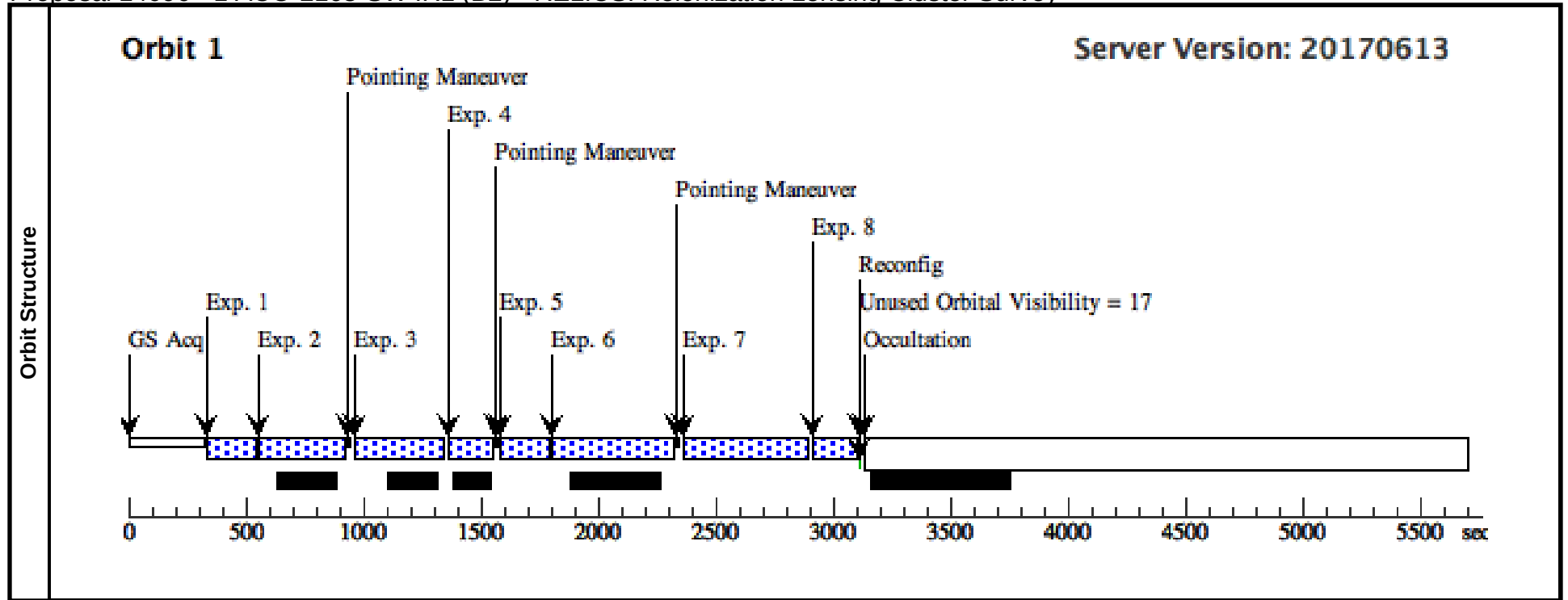
# Proposal 14096 - 1 ACO-2163-NE IR1 (A2) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |             |                                                                                     |                             |       |                          |                                   |                              |        |                                         |                              |       |
|---------------|---------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|-----------------------------|-------|--------------------------|-----------------------------------|------------------------------|--------|-----------------------------------------|------------------------------|-------|
| Visit         | Proposal 14096, 1 ACO-2163-NE IR1 (A2), completed                                                 |             |                                                                                     |                             |       |                          |                                   |                              |        |                                         | Mon Aug 07 18:08:09 GMT 2017 |       |
|               | Diagnostic Status: No Diagnostics                                                                 |             |                                                                                     |                             |       |                          |                                   |                              |        |                                         |                              |       |
|               | Scientific Instruments: WFC3/IR                                                                   |             |                                                                                     |                             |       |                          |                                   |                              |        |                                         |                              |       |
|               | Special Requirements: SCHED 50%; ORIENT 264D TO 264 D                                             |             |                                                                                     |                             |       |                          |                                   |                              |        |                                         |                              |       |
| Fixed Targets | #                                                                                                 | Name        | Target Coordinates                                                                  |                             |       | Targ. Coord. Corrections |                                   | Fluxes                       |        | Miscellaneous                           |                              |       |
|               | (111)                                                                                             | ACO-2163-NE | RA: 16 15 48.3265 (243.9513604d)<br>Dec: -06 07 36.70 (-6.12686d)<br>Equinox: J2000 |                             |       |                          |                                   | V=18                         |        | Reference Frame: SIMBAD                 |                              |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |             |                                                                                     |                             |       |                          |                                   |                              |        |                                         |                              |       |
|               |                                                                                                   |             |                                                                                     |                             |       |                          |                                   |                              |        |                                         |                              |       |
| Exposures     | #                                                                                                 | Label       | Target                                                                              | Config,Mode,Aperture        |       | Spectral Els.            | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |
|               | 1                                                                                                 | F140W       | (111) ACO-2163-NE                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F140W |                          | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                              |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |
|               | 2                                                                                                 | F105W       | (111) ACO-2163-NE                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F105W |                          | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |
|               | 3                                                                                                 | F105W       | (111) ACO-2163-NE                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F105W |                          | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |
|               | 4                                                                                                 | F140W       | (111) ACO-2163-NE                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F140W |                          | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |
|               | 5                                                                                                 | F125W       | (111) ACO-2163-NE                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F125W |                          | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |
|               | 6                                                                                                 | F160W       | (111) ACO-2163-NE                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F160W |                          | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                              | [1]   |
|               | 7                                                                                                 | F160W       | (111) ACO-2163-NE                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F160W |                          | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                              | [1]   |
|               | 8                                                                                                 | F125W       | (111) ACO-2163-NE                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F125W |                          | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |



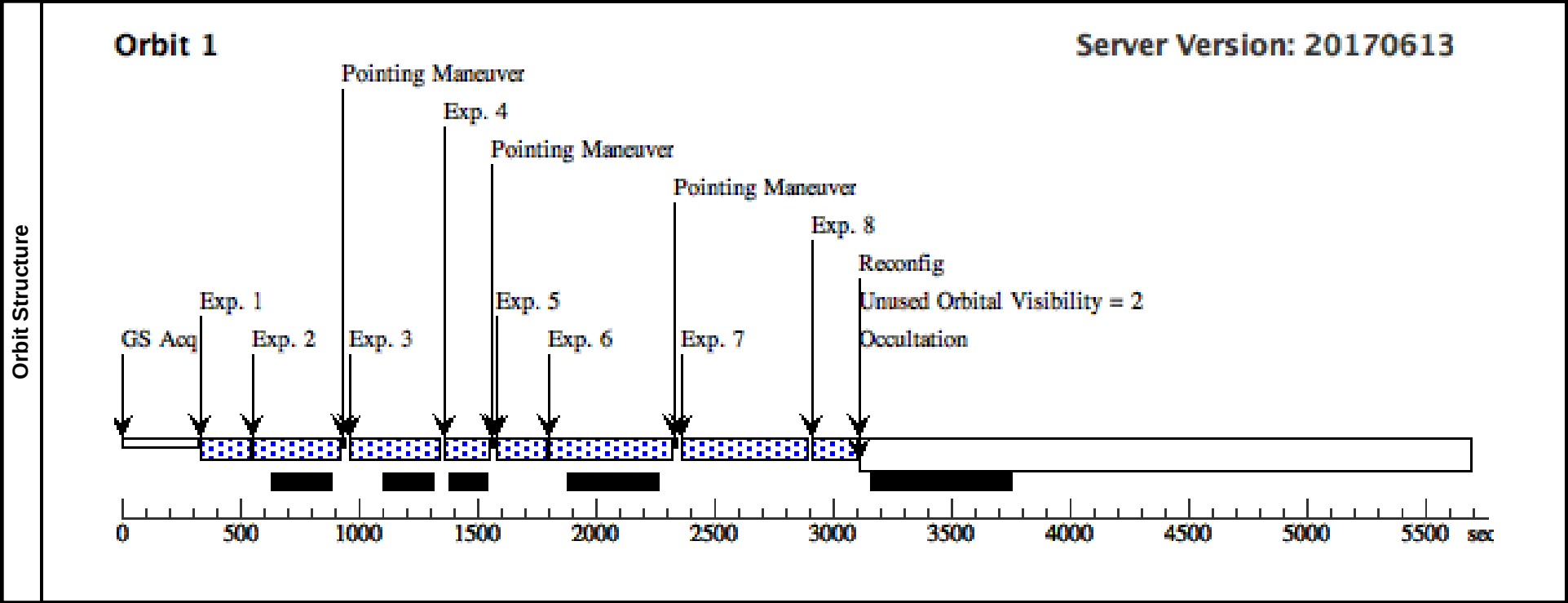
# Proposal 14096 - 1 ACO-2163-SW IR1 (B2) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                                                                                       |             |                                                                                                                                                                                                 |                             |               |                                   |                              |        |                                         |       |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------|--------|-----------------------------------------|-------|
| Visit         | <b>Proposal 14096, 1 ACO-2163-SW IR1 (B2), completed</b> <span>Mon Aug 07 18:08:09 GMT 2017</span>                                                                    |             |                                                                                                                                                                                                 |                             |               |                                   |                              |        |                                         |       |
|               | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 50%; SAME ORIENT AS A2; AFTER A2 BY 1 Orbits TO 1.1 Orbits |             |                                                                                                                                                                                                 |                             |               |                                   |                              |        |                                         |       |
| Fixed Targets | #                                                                                                                                                                     | Name        | Target Coordinates                                                                                                                                                                              | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                     |                              |        |                                         |       |
|               | (112)                                                                                                                                                                 | ACO-2163-SW | RA: 16 15 42.6336 (243.9276400d)<br>Dec: -06 09 22.12 (-6.15614d)<br>Equinox: J2000<br><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> |                             | V=18          | Reference Frame: SIMBAD           |                              |        |                                         |       |
| Exposures     | #                                                                                                                                                                     | Label       | Target                                                                                                                                                                                          | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                                                     | F140W       | (112) ACO-2163-S<br>W                                                                                                                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                              |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                                                                                     | F105W       | (112) ACO-2163-S<br>W                                                                                                                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                                                     | F105W       | (112) ACO-2163-S<br>W                                                                                                                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                                                                                     | F140W       | (112) ACO-2163-S<br>W                                                                                                                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                                                     | F125W       | (112) ACO-2163-S<br>W                                                                                                                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                                                                                     | F160W       | (112) ACO-2163-S<br>W                                                                                                                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                                                                                     | F160W       | (112) ACO-2163-S<br>W                                                                                                                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                                                                                     | F125W       | (112) ACO-2163-S<br>W                                                                                                                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |



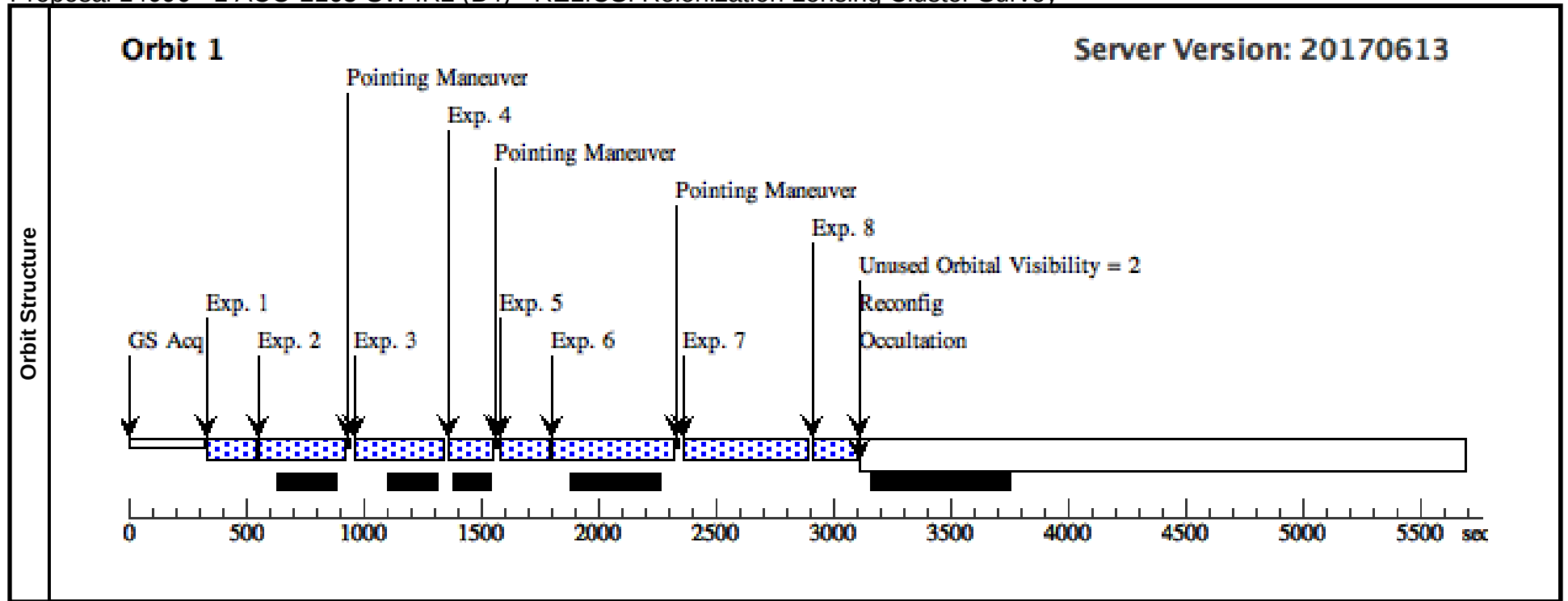
# Proposal 14096 - 1 ACO-2163-NE IR2 (A4) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |             |                                                                                     |                             |  |                          |                                   |                              |        |                                 |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|-----------------------------|--|--------------------------|-----------------------------------|------------------------------|--------|---------------------------------|-----------------------------------------|-------|
| Visit         | Proposal 14096, 1 ACO-2163-NE IR2 (A4), completed                                                 |             |                                                                                     |                             |  |                          |                                   |                              |        |                                 | Mon Aug 07 18:08:09 GMT 2017            |       |
|               | Diagnostic Status: No Diagnostics                                                                 |             |                                                                                     |                             |  |                          |                                   |                              |        |                                 |                                         |       |
|               | Scientific Instruments: WFC3/IR                                                                   |             |                                                                                     |                             |  |                          |                                   |                              |        |                                 |                                         |       |
|               | Special Requirements: SCHED 60%; SAME ORIENT AS A2; AFTER A2 BY 40 D TO 60 D                      |             |                                                                                     |                             |  |                          |                                   |                              |        |                                 |                                         |       |
| Fixed Targets | #                                                                                                 | Name        | Target Coordinates                                                                  |                             |  | Targ. Coord. Corrections |                                   | Fluxes                       |        | Miscellaneous                   |                                         |       |
|               | (111)                                                                                             | ACO-2163-NE | RA: 16 15 48.3265 (243.9513604d)<br>Dec: -06 07 36.70 (-6.12686d)<br>Equinox: J2000 |                             |  |                          |                                   | V=18                         |        | Reference Frame: SIMBAD         |                                         |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |             |                                                                                     |                             |  |                          |                                   |                              |        |                                 |                                         |       |
|               |                                                                                                   |             |                                                                                     |                             |  |                          |                                   |                              |        |                                 |                                         |       |
| Exposures     | #                                                                                                 | Label       | Target                                                                              | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.] |                                         | Orbit |
|               | 1                                                                                                 | F140W       | (111) ACO-2163-NE                                                                   | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                 | F105W       | (111) ACO-2163-NE                                                                   | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        |                                 | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                 | F105W       | (111) ACO-2163-NE                                                                   | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,<br>0.6055  |        |                                 | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                 | F140W       | (111) ACO-2163-NE                                                                   | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                 | F125W       | (111) ACO-2163-NE                                                                   | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0                 |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                 | F160W       | (111) ACO-2163-NE                                                                   | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        |                                 | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                 | F160W       | (111) ACO-2163-NE                                                                   | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,<br>0.30275 |        |                                 | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                 | F125W       | (111) ACO-2163-NE                                                                   | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |



# Proposal 14096 - 1 ACO-2163-SW IR2 (B4) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                                                                                       |             |                                                                                                                                                                                                 |                             |               |                                   |                              |        |                                         |       |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------|--------|-----------------------------------------|-------|
| Visit         | <b>Proposal 14096, 1 ACO-2163-SW IR2 (B4), completed</b> <span>Mon Aug 07 18:08:09 GMT 2017</span>                                                                    |             |                                                                                                                                                                                                 |                             |               |                                   |                              |        |                                         |       |
|               | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 60%; SAME ORIENT AS B2; AFTER A4 BY 1 Orbits TO 1.1 Orbits |             |                                                                                                                                                                                                 |                             |               |                                   |                              |        |                                         |       |
| Fixed Targets | #                                                                                                                                                                     | Name        | Target Coordinates                                                                                                                                                                              | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                     |                              |        |                                         |       |
|               | (112)                                                                                                                                                                 | ACO-2163-SW | RA: 16 15 42.6336 (243.9276400d)<br>Dec: -06 09 22.12 (-6.15614d)<br>Equinox: J2000<br><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> |                             | V=18          | Reference Frame: SIMBAD           |                              |        |                                         |       |
| Exposures     | #                                                                                                                                                                     | Label       | Target                                                                                                                                                                                          | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                                                     | F140W       | (112) ACO-2163-S<br>W                                                                                                                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                                                                                     | F105W       | (112) ACO-2163-S<br>W                                                                                                                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                                                     | F105W       | (112) ACO-2163-S<br>W                                                                                                                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,<br>0.6055  |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                                                                                     | F140W       | (112) ACO-2163-S<br>W                                                                                                                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                                                     | F125W       | (112) ACO-2163-S<br>W                                                                                                                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0                 |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                                                                                     | F160W       | (112) ACO-2163-S<br>W                                                                                                                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                                                                                     | F160W       | (112) ACO-2163-S<br>W                                                                                                                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,<br>0.30275 |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                                                                                     | F125W       | (112) ACO-2163-S<br>W                                                                                                                                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |

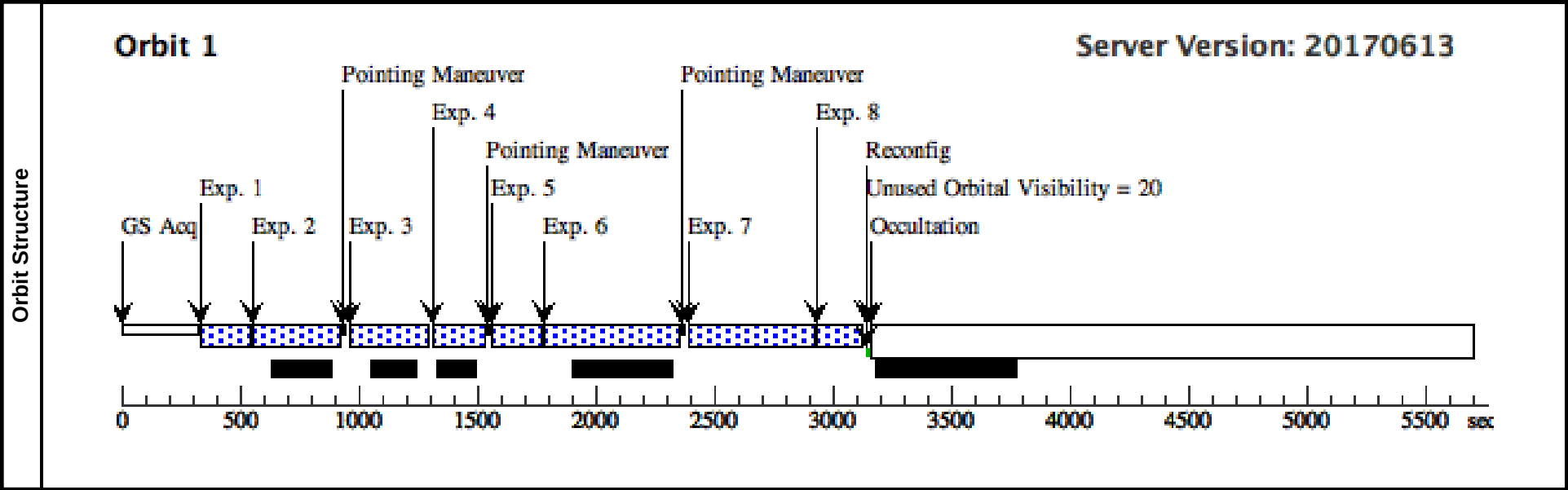


# Proposal 14096 - 2 PLCK-G287.0+32.9 ACS1 (C1) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                                                                      |                          |               |                              |                             |        |                                 |       |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------|--------------------------|---------------|------------------------------|-----------------------------|--------|---------------------------------|-------|
| Visit                                                                                             | Proposal 14096, 2 PLCK-G287.0+32.9 ACS1 (C1), completed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |                                                                                      |                          |               | Mon Aug 07 18:08:09 GMT 2017 |                             |        |                                 |       |
|                                                                                                   | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                                                                                      |                          |               |                              |                             |        |                                 |       |
|                                                                                                   | Scientific Instruments: ACS/WFC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                                                                      |                          |               |                              |                             |        |                                 |       |
|                                                                                                   | Special Requirements: SCHED 50%; ORIENT 346D TO 346 D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |                                                                                      |                          |               |                              |                             |        |                                 |       |
| Diagnostics                                                                                       | (2 PLCK-G287.0+32.9 ACS1 (C1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |                                                                                      |                          |               |                              |                             |        |                                 |       |
| Fixed Targets                                                                                     | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Name             | Target Coordinates                                                                   | Targ. Coord. Corrections | Fluxes        | Miscellaneous                |                             |        |                                 |       |
|                                                                                                   | (2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PLCK-G287.0+32.9 | RA: 11 50 50.8021 (177.7116754d)<br>Dec: -28 04 52.18 (-28.08116d)<br>Equinox: J2000 |                          | V=18          | Reference Frame: SIMBAD      |                             |        |                                 |       |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                                                                      |                          |               |                              |                             |        |                                 |       |
| Exposures                                                                                         | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Label            | Target                                                                               | Config,Mode,Aperture     | Spectral Els. | Opt. Params.                 | Special Reqs.               | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|                                                                                                   | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  | (2) PLCK-G287.0+32.9                                                                 | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | GS ACQ SCENARI<br>O BASE1B3 |        | 532 Secs (532 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                                                                      |                          |               |                              |                             |        | [==>]                           | [1]   |
|                                                                                                   | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  | (2) PLCK-G287.0+32.9                                                                 | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | POS TARG 0.0741,2<br>.970   |        | 531 Secs (531 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                                                                      |                          |               |                              |                             |        | [==>]                           | [1]   |
|                                                                                                   | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  | (2) PLCK-G287.0+32.9                                                                 | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | POS TARG 0.1976,5<br>.9687  |        | 531 Secs (531 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                                                                      |                          |               |                              |                             | [==>]  | [1]                             |       |
|                                                                                                   | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  | (2) PLCK-G287.0+32.9                                                                 | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | POS TARG 0.2717,8<br>.9367  |        | 531 Secs (531 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                                                                      |                          |               |                              |                             |        | [==>]                           | [1]   |
| Orbit Structure                                                                                   | <div><div>Orbit 1</div><div>Server Version: 20170613</div><p>The diagram shows a timeline from 0 to 5500 seconds. A blue checkered bar represents the observation period, with black segments below it indicating occultation. Four exposure periods (Exp. 1 to Exp. 4) are marked with green boxes and arrows. Above each exposure is a 'Pointing Maneuver' label with a downward arrow. After Exp. 4, there is an 'Occultation' label with a downward arrow. A text label '*** ORBITAL VISIBILITY OVERRUN = 2' is placed near the occultation. The x-axis is labeled 'sec' at the end.</p></div> |                  |                                                                                      |                          |               |                              |                             |        |                                 |       |

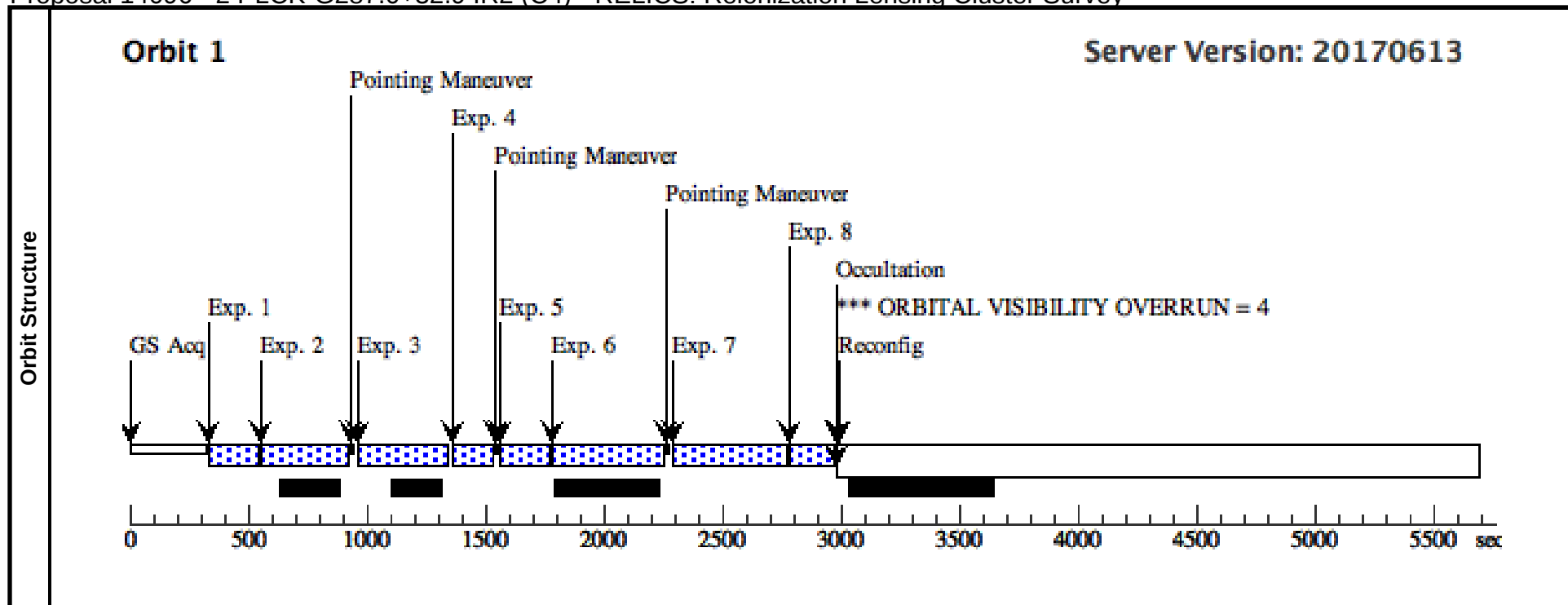
# Proposal 14096 - 2 PLCK-G287.0+32.9 IR1 (C2) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                  |                                                                                      |                             |  |                          |                                   |                              |        |                                         |                              |       |
|---------------|---------------------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------|-----------------------------|--|--------------------------|-----------------------------------|------------------------------|--------|-----------------------------------------|------------------------------|-------|
| Visit         | Proposal 14096, 2 PLCK-G287.0+32.9 IR1 (C2), completed                                            |                  |                                                                                      |                             |  |                          |                                   |                              |        |                                         | Mon Aug 07 18:08:09 GMT 2017 |       |
|               | Diagnostic Status: No Diagnostics                                                                 |                  |                                                                                      |                             |  |                          |                                   |                              |        |                                         |                              |       |
|               | Scientific Instruments: WFC3/IR                                                                   |                  |                                                                                      |                             |  |                          |                                   |                              |        |                                         |                              |       |
|               | Special Requirements: SCHED 50%; SAME ORIENT AS C1; AFTER C1 BY 0.9 Orbits TO 1.1 Orbits          |                  |                                                                                      |                             |  |                          |                                   |                              |        |                                         |                              |       |
| Fixed Targets | #                                                                                                 | Name             | Target Coordinates                                                                   |                             |  | Targ. Coord. Corrections |                                   | Fluxes                       |        | Miscellaneous                           |                              |       |
|               | (2)                                                                                               | PLCK-G287.0+32.9 | RA: 11 50 50.8021 (177.7116754d)<br>Dec: -28 04 52.18 (-28.08116d)<br>Equinox: J2000 |                             |  |                          |                                   | V=18                         |        | Reference Frame: SIMBAD                 |                              |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                  |                                                                                      |                             |  |                          |                                   |                              |        |                                         |                              |       |
|               |                                                                                                   |                  |                                                                                      |                             |  |                          |                                   |                              |        |                                         |                              |       |
| Exposures     | #                                                                                                 | Label            | Target                                                                               | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |
|               | 1                                                                                                 | F140W            | (2) PLCK-G287.0+32.9                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | GS ACQ SCENARI<br>O BASE1B3  |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |
|               | 2                                                                                                 | F105W            | (2) PLCK-G287.0+32.9                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |
|               | 3                                                                                                 | F105W            | (2) PLCK-G287.0+32.9                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |        | 302.934997 Secs (302.935 Secs)<br>[==>] |                              | [1]   |
|               | 4                                                                                                 | F140W            | (2) PLCK-G287.0+32.9                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |
|               | 5                                                                                                 | F125W            | (2) PLCK-G287.0+32.9                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |
|               | 6                                                                                                 | F160W            | (2) PLCK-G287.0+32.9                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 552.937252 Secs (552.937 Secs)<br>[==>] |                              | [1]   |
|               | 7                                                                                                 | F160W            | (2) PLCK-G287.0+32.9                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                              | [1]   |
|               | 8                                                                                                 | F125W            | (2) PLCK-G287.0+32.9                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |



# Proposal 14096 - 2 PLCK-G287.0+32.9 IR2 (C4) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                   |                  |                                                                                      |                             |               |                                |                                                    |                         |                                         |       |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|----------------------------------------------------|-------------------------|-----------------------------------------|-------|
| Visit                                                                                             | Proposal 14096, 2 PLCK-G287.0+32.9 IR2 (C4), completed                            |                  |                                                                                      |                             |               |                                |                                                    |                         | Mon Aug 07 18:08:09 GMT 2017            |       |
|                                                                                                   | Diagnostic Status: Warning                                                        |                  |                                                                                      |                             |               |                                |                                                    |                         |                                         |       |
|                                                                                                   | Scientific Instruments: WFC3/IR                                                   |                  |                                                                                      |                             |               |                                |                                                    |                         |                                         |       |
|                                                                                                   | Special Requirements: SCHED 100%; SAME ORIENT AS C1; AFTER C1 BY 25 D TO 60 D     |                  |                                                                                      |                             |               |                                |                                                    |                         |                                         |       |
| Diagnostics                                                                                       | (2 PLCK-G287.0+32.9 IR2 (C4)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |                  |                                                                                      |                             |               |                                |                                                    |                         |                                         |       |
| Fixed Targets                                                                                     | #                                                                                 | Name             | Target Coordinates                                                                   | Targ. Coord. Corrections    |               |                                | Fluxes                                             | Miscellaneous           |                                         |       |
|                                                                                                   | (2)                                                                               | PLCK-G287.0+32.9 | RA: 11 50 50.8021 (177.7116754d)<br>Dec: -28 04 52.18 (-28.08116d)<br>Equinox: J2000 |                             |               |                                | V=18                                               | Reference Frame: SIMBAD |                                         |       |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                   |                  |                                                                                      |                             |               |                                |                                                    |                         |                                         |       |
| Exposures                                                                                         | #                                                                                 | Label            | Target                                                                               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                                      | Groups                  | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|                                                                                                   | 1                                                                                 | F140W            | (2) PLCK-G287.0+32.9                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 7.317,0.90825;<br>GS ACQ SCENARIO BASE1B3 |                         | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|                                                                                                   | 2                                                                                 | F105W            | (2) PLCK-G287.0+32.9                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | SAME POS AS 1                                      |                         | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|                                                                                                   | 3                                                                                 | F105W            | (2) PLCK-G287.0+32.9                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0.47425,0.6055                            |                         | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|                                                                                                   | 4                                                                                 | F140W            | (2) PLCK-G287.0+32.9                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 3                                      |                         | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |
|                                                                                                   | 5                                                                                 | F125W            | (2) PLCK-G287.0+32.9                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0                                       |                         | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|                                                                                                   | 6                                                                                 | F160W            | (2) PLCK-G287.0+32.9                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR S50 | SAME POS AS 5                                      |                         | 452.93635 Secs (452.936 Secs)<br>[==>]  | [1]   |
|                                                                                                   | 7                                                                                 | F160W            | (2) PLCK-G287.0+32.9                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR S50 | POS TARG 6.48275,0.30275                           |                         | 452.93635 Secs (452.936 Secs)<br>[==>]  | [1]   |
|                                                                                                   | 8                                                                                 | F125W            | (2) PLCK-G287.0+32.9                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 7                                      |                         | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |

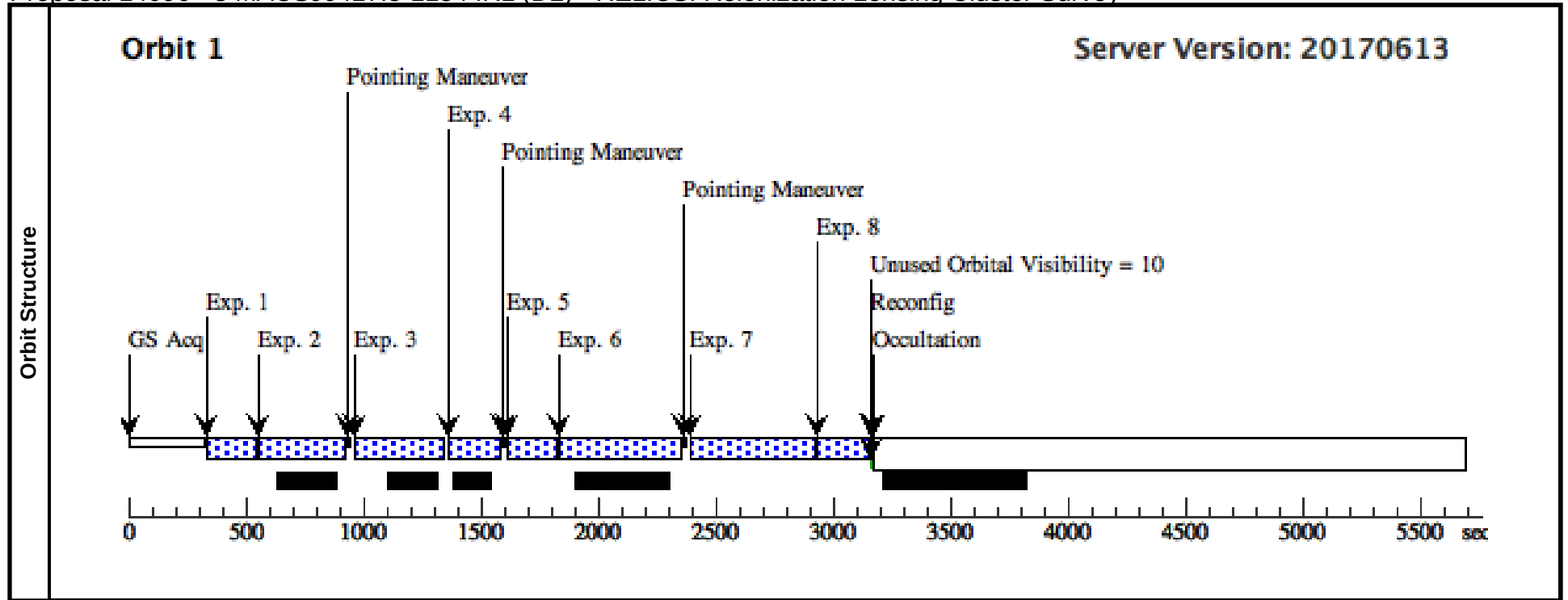


# Proposal 14096 - 3 MACSJ0417.5-1154 ACS1 (D1) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |                                                                                     |                          |               |                              |                             |        |                                 |       |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|--------------------------|---------------|------------------------------|-----------------------------|--------|---------------------------------|-------|
| Visit                                                                                             | Proposal 14096, 3 MACSJ0417.5-1154 ACS1 (D1), completed                                                                                                                                                                                                                                                                                                                                                                                                               |                        |                                                                                     |                          |               | Mon Aug 07 18:08:09 GMT 2017 |                             |        |                                 |       |
|                                                                                                   | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |                                                                                     |                          |               |                              |                             |        |                                 |       |
|                                                                                                   | Scientific Instruments: ACS/WFC                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |                                                                                     |                          |               |                              |                             |        |                                 |       |
|                                                                                                   | Special Requirements: SCHED 80%; ORIENT 8D TO 8 D                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |                                                                                     |                          |               |                              |                             |        |                                 |       |
| Diagnostics                                                                                       | (3 MACSJ0417.5-1154 ACS1 (D1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                                                                                                                                    |                        |                                                                                     |                          |               |                              |                             |        |                                 |       |
| Fixed Targets                                                                                     | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Name                   | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes        | Miscellaneous                |                             |        |                                 |       |
|                                                                                                   | (331)                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | MACSJ0417.5-1154-F435W | RA: 04 17 34.2011 (64.3925046d)<br>Dec: -11 54 31.78 (-11.90883d)<br>Equinox: J2000 |                          | V=18          | Reference Frame: SIMBAD      |                             |        |                                 |       |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |                                                                                     |                          |               |                              |                             |        |                                 |       |
| Exposures                                                                                         | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Label                  | Target                                                                              | Config,Mode,Aperture     | Spectral Els. | Opt. Params.                 | Special Reqs.               | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|                                                                                                   | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        | (331) MACSJ0417.5-1154-F435W                                                        | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | GS ACQ SCENARI<br>O BASE1B3 |        | 500 Secs (500 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |                                                                                     |                          |               |                              |                             |        | [==>]                           | [1]   |
|                                                                                                   | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        | (331) MACSJ0417.5-1154-F435W                                                        | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | POS TARG 0.0741,2<br>.970   |        | 500 Secs (500 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |                                                                                     |                          |               |                              |                             |        | [==>]                           | [1]   |
|                                                                                                   | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        | (331) MACSJ0417.5-1154-F435W                                                        | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | POS TARG 0.1976,5<br>.9687  |        | 500 Secs (500 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |                                                                                     |                          |               |                              |                             |        | [==>]                           | [1]   |
|                                                                                                   | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        | (331) MACSJ0417.5-1154-F435W                                                        | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | POS TARG 0.2717,8<br>.9367  |        | 500 Secs (500 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |                                                                                     |                          |               |                              |                             | [==>]  | [1]                             |       |
| Orbit Structure                                                                                   | <div>Orbit 1<div>Server Version: 20170613</div><div>Timeline details: The timeline starts at 0 seconds. At approximately 300s, 'GS Acq' begins. Exposures Exp. 1, 2, 3, and 4 are marked with green boxes containing a camera icon. Pointing maneuvers are indicated by vertical arrows at approximately 1100s, 1750s, and 2400s. An occultation event is marked at 3000s with the text '*** ORBITAL VISIBILITY OVERRUN = 2'. The timeline ends at 5500s.</div></div> |                        |                                                                                     |                          |               |                              |                             |        |                                 |       |

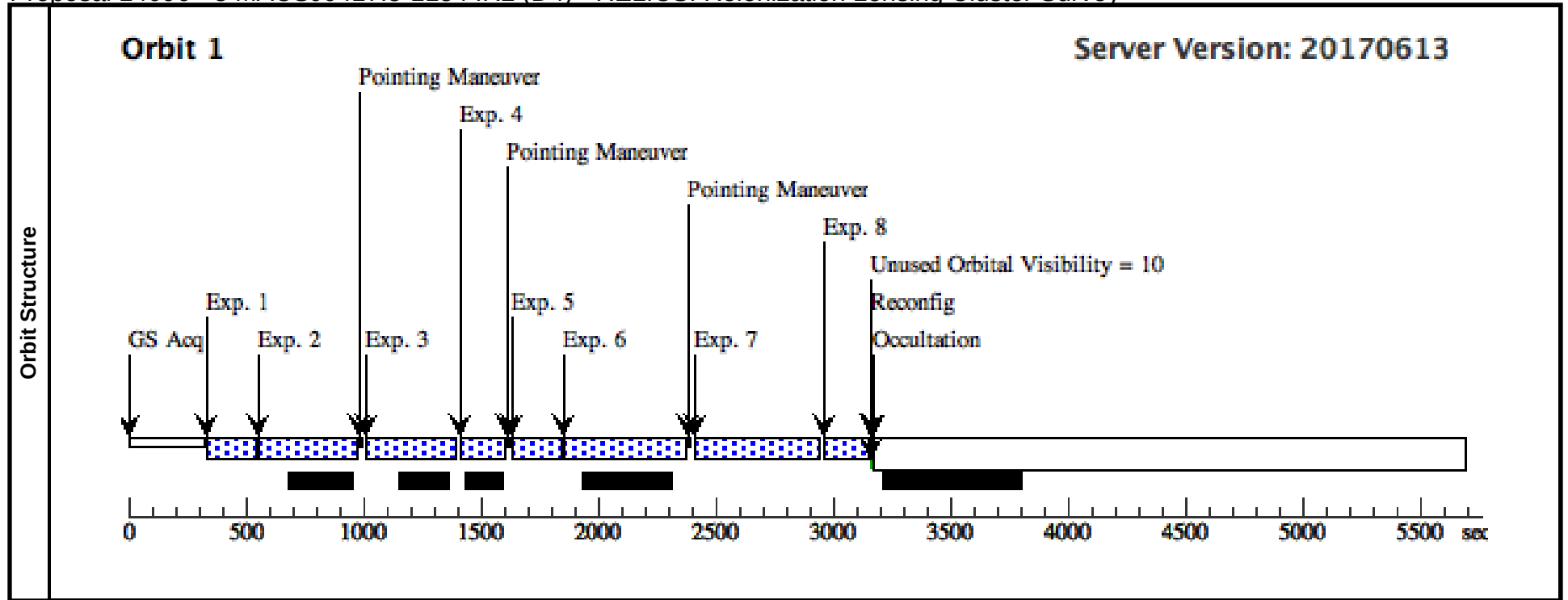
# Proposal 14096 - 3 MACSJ0417.5-1154 IR1 (D2) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                     |                                                                                     |                             |  |                          |                                   |                           |        |                                 |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------|-----------------------------|--|--------------------------|-----------------------------------|---------------------------|--------|---------------------------------|-----------------------------------------|-------|
| Visit         | Proposal 14096, 3 MACSJ0417.5-1154 IR1 (D2), completed                                            |                     |                                                                                     |                             |  |                          |                                   |                           |        |                                 | Mon Aug 07 18:08:09 GMT 2017            |       |
|               | Diagnostic Status: No Diagnostics                                                                 |                     |                                                                                     |                             |  |                          |                                   |                           |        |                                 |                                         |       |
|               | Scientific Instruments: WFC3/IR                                                                   |                     |                                                                                     |                             |  |                          |                                   |                           |        |                                 |                                         |       |
|               | Special Requirements: SCHED 40%; ORIENT 62.5D TO 62.5 D                                           |                     |                                                                                     |                             |  |                          |                                   |                           |        |                                 |                                         |       |
| Fixed Targets | #                                                                                                 | Name                | Target Coordinates                                                                  |                             |  | Targ. Coord. Corrections |                                   | Fluxes                    |        | Miscellaneous                   |                                         |       |
|               | (332)                                                                                             | MACSJ0417.5-1154-IR | RA: 04 17 33.7397 (64.3905821d)<br>Dec: -11 54 22.64 (-11.90629d)<br>Equinox: J2000 |                             |  |                          |                                   | V=18                      |        | Reference Frame: SIMBAD         |                                         |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                     |                                                                                     |                             |  |                          |                                   |                           |        |                                 |                                         |       |
|               |                                                                                                   |                     |                                                                                     |                             |  |                          |                                   |                           |        |                                 |                                         |       |
| Exposures     | #                                                                                                 | Label               | Target                                                                              | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                      | Special Reqs.             | Groups | Exp. Time (Total)/[Actual Dur.] |                                         | Orbit |
|               | 1                                                                                                 | F140W               | (332) MACSJ0417.5-1154-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                           |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                 | F105W               | (332) MACSJ0417.5-1154-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1             |        |                                 | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                 | F105W               | (332) MACSJ0417.5-1154-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275, 0.30275 |        |                                 | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                 | F140W               | (332) MACSJ0417.5-1154-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3             |        |                                 | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                 | F125W               | (332) MACSJ0417.5-1154-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.90825    |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                 | F160W               | (332) MACSJ0417.5-1154-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5             |        |                                 | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                 | F160W               | (332) MACSJ0417.5-1154-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425, 0.6055  |        |                                 | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                 | F125W               | (332) MACSJ0417.5-1154-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7             |        |                                 | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |



# Proposal 14096 - 3 MACSJ0417.5-1154 IR2 (D4) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                     |                                                                                     |                             |  |                          |                                |                          |        |                                 |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------|-----------------------------|--|--------------------------|--------------------------------|--------------------------|--------|---------------------------------|-----------------------------------------|-------|
| Visit         | Proposal 14096, 3 MACSJ0417.5-1154 IR2 (D4), completed                                            |                     |                                                                                     |                             |  |                          |                                |                          |        |                                 | Mon Aug 07 18:08:09 GMT 2017            |       |
|               | Diagnostic Status: No Diagnostics                                                                 |                     |                                                                                     |                             |  |                          |                                |                          |        |                                 |                                         |       |
|               | Scientific Instruments: WFC3/IR                                                                   |                     |                                                                                     |                             |  |                          |                                |                          |        |                                 |                                         |       |
|               | Special Requirements: SCHED 40%; SAME ORIENT AS D2; AFTER D2 BY 40 D TO 60 D                      |                     |                                                                                     |                             |  |                          |                                |                          |        |                                 |                                         |       |
| Fixed Targets | #                                                                                                 | Name                | Target Coordinates                                                                  |                             |  | Targ. Coord. Corrections |                                | Fluxes                   |        | Miscellaneous                   |                                         |       |
|               | (332)                                                                                             | MACSJ0417.5-1154-IR | RA: 04 17 33.7397 (64.3905821d)<br>Dec: -11 54 22.64 (-11.90629d)<br>Equinox: J2000 |                             |  |                          |                                | V=18                     |        | Reference Frame: SIMBAD         |                                         |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                     |                                                                                     |                             |  |                          |                                |                          |        |                                 |                                         |       |
|               |                                                                                                   |                     |                                                                                     |                             |  |                          |                                |                          |        |                                 |                                         |       |
| Exposures     | #                                                                                                 | Label               | Target                                                                              | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                   | Special Reqs.            | Groups | Exp. Time (Total)/[Actual Dur.] |                                         | Orbit |
|               | 1                                                                                                 | F140W               | (332) MACSJ0417.5-1154-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 7.317,0.90825   |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                 | F105W               | (332) MACSJ0417.5-1154-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=9;<br>SAMP-SEQ=SPAR S50  | SAME POS AS 1            |        |                                 | 402.935899 Secs (402.936 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                 | F105W               | (332) MACSJ0417.5-1154-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0.47425,0.6055  |        |                                 | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                 | F140W               | (332) MACSJ0417.5-1154-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 3            |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                 | F125W               | (332) MACSJ0417.5-1154-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0             |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                 | F160W               | (332) MACSJ0417.5-1154-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | SAME POS AS 5            |        |                                 | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                 | F160W               | (332) MACSJ0417.5-1154-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | POS TARG 6.48275,0.30275 |        |                                 | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                 | F125W               | (332) MACSJ0417.5-1154-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 7            |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |



# Proposal 14096 - 4 ACO-697 ACS1 (E1) - RELICS: Reionization Lensing Cluster Survey

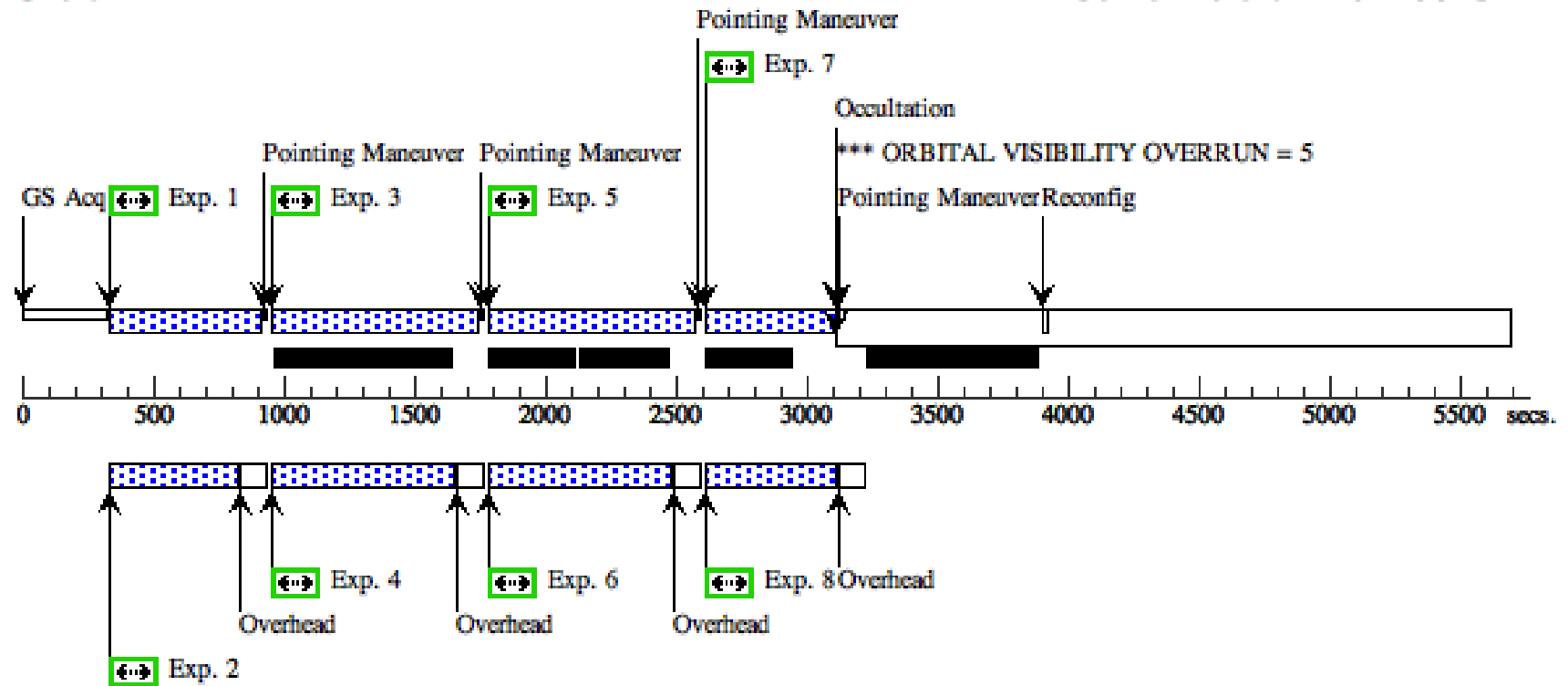
|                                                                                                   |                                                                                                                                                        |         |                                                                                     |                          |        |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|--------------------------|--------|
| Visit                                                                                             | <b>Proposal 14096, 4 ACO-697 ACS1 (E1), completed</b> <span>Mon Aug 07 18:08:09 GMT 2017</span>                                                        |         |                                                                                     |                          |        |
|                                                                                                   | <b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC<br>Special Requirements: SCHED 70%; ORIENT 132D TO 108 D      |         |                                                                                     |                          |        |
| Diagnostics                                                                                       | (4 ACO-697 ACS1 (E1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(4 ACO-697 ACS1 (E1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |         |                                                                                     |                          |        |
|                                                                                                   |                                                                                                                                                        |         |                                                                                     |                          |        |
| Fixed Targets                                                                                     | #                                                                                                                                                      | Name    | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes |
|                                                                                                   | (4)                                                                                                                                                    | ACO-697 | RA: 08 42 58.9343 (130.7455596d)<br>Dec: +36 21 51.09 (36.36419d)<br>Equinox: J2000 |                          | V=18   |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                                                                                        |         |                                                                                     |                          |        |
|                                                                                                   |                                                                                                                                                        |         |                                                                                     |                          |        |

# Proposal 14096 - 4 ACO-697 ACS1 (E1) - RELICS: Reionization Lensing Cluster Survey

| Exposures | #  | Label | Target      | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.           | Groups                                              | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|----|-------|-------------|-----------------------------|---------------|-----------------------------------|-------------------------|-----------------------------------------------------|-----------------------------------------|-------|
|           | 1  |       | (4) ACO-697 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   |                         | Prime + Parallel Group 1-2 in 4 ACO-697 ACS1 (E1)   | 375 Secs (375 Secs)<br>[==>]            | [1]   |
|           | 2  |       | ANY         | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                         | Prime + Parallel Group 1-2 in 4 ACO-697 ACS1 (E1)   | 459 Secs (459 Secs)<br>[==>]            | [1]   |
|           | 3  |       | (4) ACO-697 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.0741,2 .970  | Prime + Parallel Group 3-4 in 4 ACO-697 ACS1 (E1)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 4  |       | ANY         | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                         | Prime + Parallel Group 3-4 in 4 ACO-697 ACS1 (E1)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 5  |       | (4) ACO-697 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 5-6 in 4 ACO-697 ACS1 (E1)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 6  |       | ANY         | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                         | Prime + Parallel Group 5-6 in 4 ACO-697 ACS1 (E1)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 7  |       | (4) ACO-697 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 7-8 in 4 ACO-697 ACS1 (E1)   | 375 Secs (375 Secs)<br>[==>]            | [1]   |
|           | 8  |       | ANY         | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                         | Prime + Parallel Group 7-8 in 4 ACO-697 ACS1 (E1)   | 501 Secs (501 Secs)<br>[==>]            | [1]   |
|           | 9  |       | (4) ACO-697 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   |                         | Prime + Parallel Group 9-10 in 4 ACO-697 ACS1 (E1)  | 521 Secs (521 Secs)<br>[==>]            | [2]   |
|           | 10 |       | ANY         | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=13;<br>SAMP-SEQ=SPAR<br>S50 |                         | Prime + Parallel Group 9-10 in 4 ACO-697 ACS1 (E1)  | 602.937703 Secs (602.938 Secs)<br>[==>] | [2]   |
|           | 11 |       | (4) ACO-697 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   | POS TARG 0.0741,2 .970  | Prime + Parallel Group 11-12 in 4 ACO-697 ACS1 (E1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 12 |       | ANY         | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                         | Prime + Parallel Group 11-12 in 4 ACO-697 ACS1 (E1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |
|           | 13 |       | (4) ACO-697 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 13-14 in 4 ACO-697 ACS1 (E1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 14 |       | ANY         | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                         | Prime + Parallel Group 13-14 in 4 ACO-697 ACS1 (E1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |
|           | 15 |       | (4) ACO-697 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 15-16 in 4 ACO-697 ACS1 (E1) | 520 Secs (520 Secs)<br>[==>]            | [2]   |
|           | 16 |       | ANY         | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=13;<br>SAMP-SEQ=SPAR<br>S50 |                         | Prime + Parallel Group 15-16 in 4 ACO-697 ACS1 (E1) | 602.937703 Secs (602.938 Secs)<br>[==>] | [2]   |

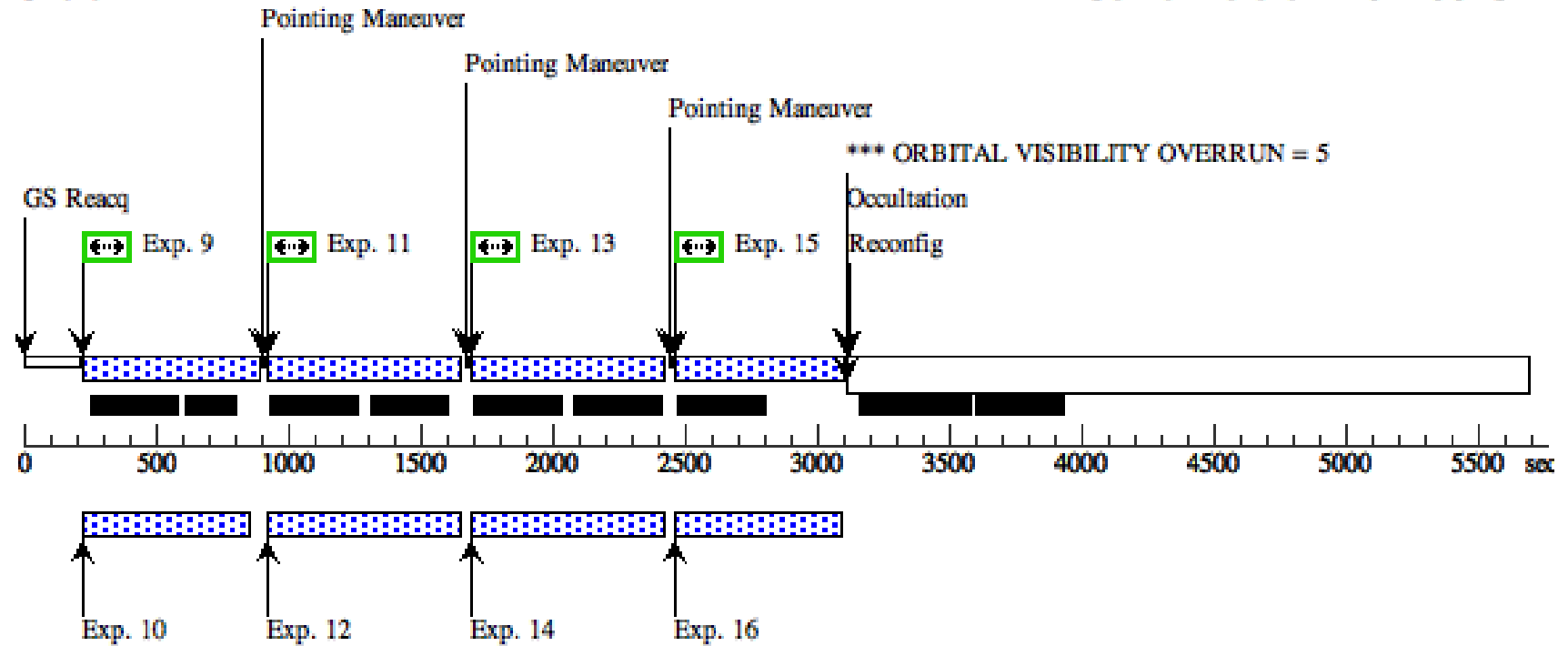
## Orbit 1

Server Version: 20170613



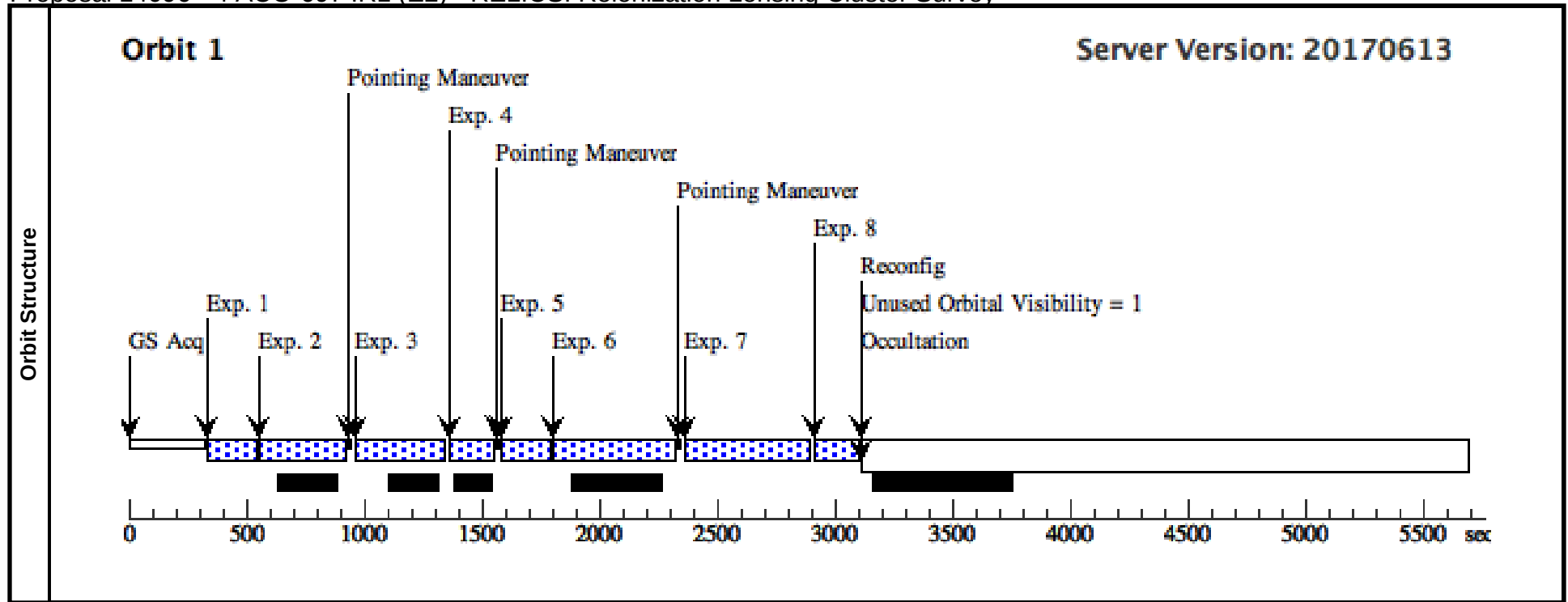
## Orbit 2

Server Version: 20170613



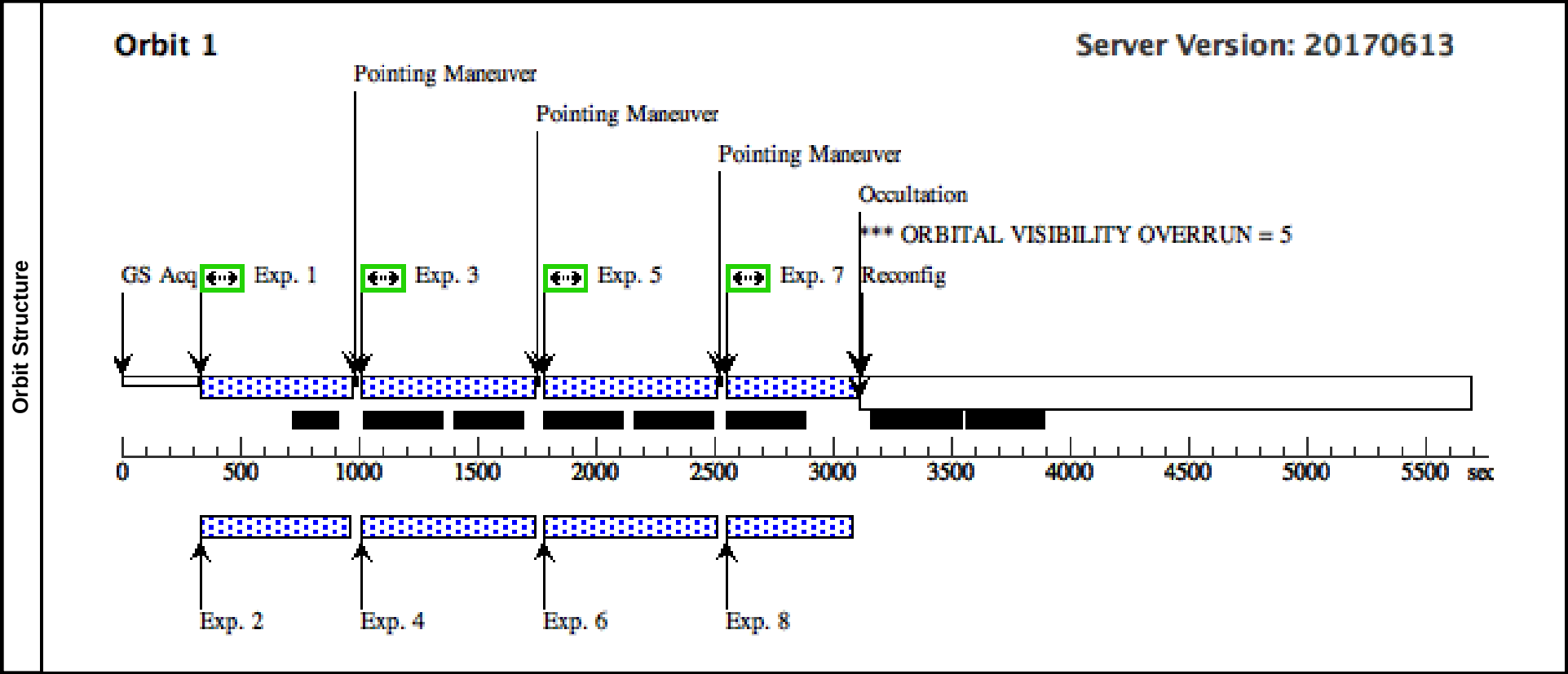
# Proposal 14096 - 4 ACO-697 IR1 (E2) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |         |                                                                                     |                             |               |                                   |                              |        |                                         |                         |                              |
|---------------|---------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------|--------|-----------------------------------------|-------------------------|------------------------------|
| Visit         | Proposal 14096, 4 ACO-697 IR1 (E2), completed                                                     |         |                                                                                     |                             |               |                                   |                              |        |                                         |                         | Mon Aug 07 18:08:09 GMT 2017 |
|               | Diagnostic Status: No Diagnostics                                                                 |         |                                                                                     |                             |               |                                   |                              |        |                                         |                         |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |         |                                                                                     |                             |               |                                   |                              |        |                                         |                         |                              |
|               | Special Requirements: SCHED 70%; SAME ORIENT AS E1; AFTER E1 BY 1.9 Orbits TO 2.1 Orbits          |         |                                                                                     |                             |               |                                   |                              |        |                                         |                         |                              |
| Fixed Targets | #                                                                                                 | Name    | Target Coordinates                                                                  |                             |               | Targ. Coord. Corrections          |                              | Fluxes |                                         | Miscellaneous           |                              |
|               | (4)                                                                                               | ACO-697 | RA: 08 42 58.9343 (130.7455596d)<br>Dec: +36 21 51.09 (36.36419d)<br>Equinox: J2000 |                             |               |                                   |                              | V=18   |                                         | Reference Frame: SIMBAD |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |         |                                                                                     |                             |               |                                   |                              |        |                                         |                         |                              |
|               |                                                                                                   |         |                                                                                     |                             |               |                                   |                              |        |                                         |                         |                              |
| Exposures     | #                                                                                                 | Label   | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         |                         | Orbit                        |
|               | 1                                                                                                 | F140W   | (4) ACO-697                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                              |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 2                                                                                                 | F105W   | (4) ACO-697                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|               | 3                                                                                                 | F105W   | (4) ACO-697                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|               | 4                                                                                                 | F140W   | (4) ACO-697                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 5                                                                                                 | F125W   | (4) ACO-697                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 6                                                                                                 | F160W   | (4) ACO-697                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |
|               | 7                                                                                                 | F160W   | (4) ACO-697                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |
|               | 8                                                                                                 | F125W   | (4) ACO-697                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |



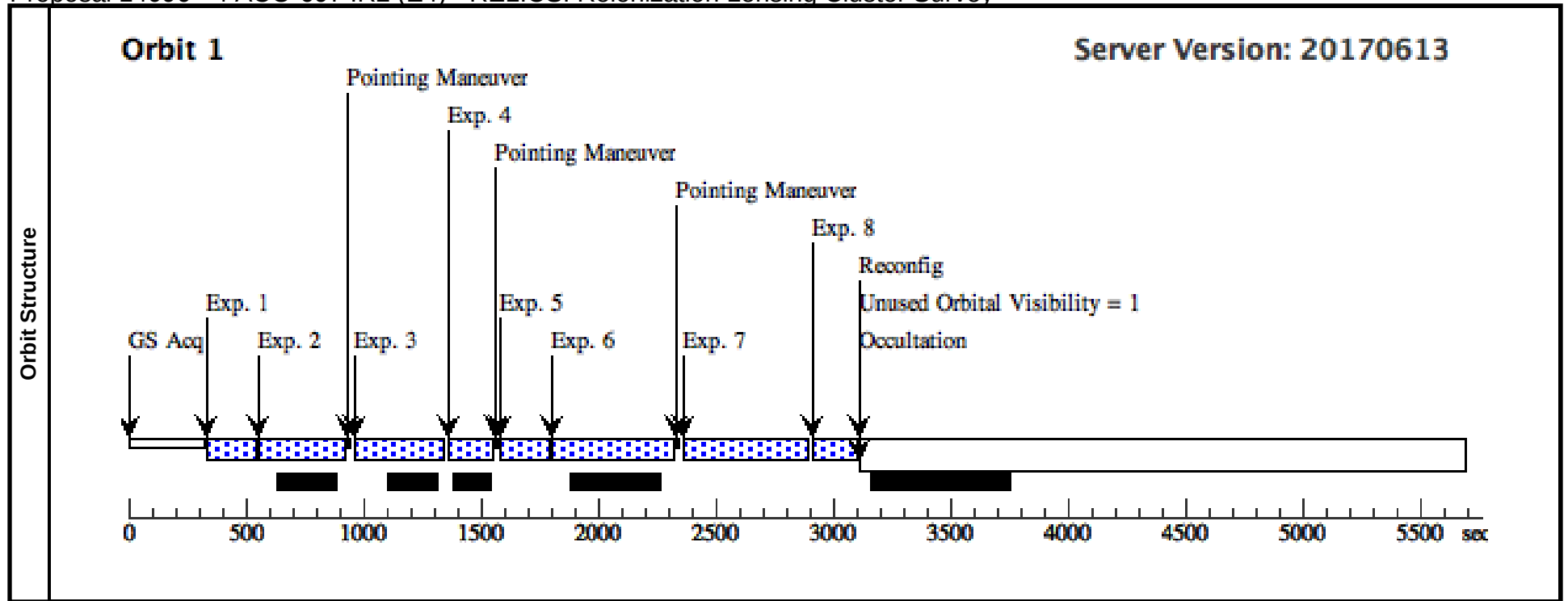
# Proposal 14096 - 4 ACO-697 ACS2 (E3) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |         |                                                                                     |                             |               |                                   |                            |                                                          |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|----------------------------|----------------------------------------------------------|-----------------------------------------|-------|
| Visit         | Proposal 14096, 4 ACO-697 ACS2 (E3), completed                                                    |         |                                                                                     |                             |               |                                   |                            |                                                          | Mon Aug 07 18:08:10 GMT 2017            |       |
|               | Diagnostic Status: Warning                                                                        |         |                                                                                     |                             |               |                                   |                            |                                                          |                                         |       |
|               | Scientific Instruments: WFC3/IR, ACS/WFC                                                          |         |                                                                                     |                             |               |                                   |                            |                                                          |                                         |       |
|               | Special Requirements: SCHED 70%; SAME ORIENT AS E1; AFTER E1 BY 40 D TO 60 D                      |         |                                                                                     |                             |               |                                   |                            |                                                          |                                         |       |
| Diagnostics   | (4 ACO-697 ACS2 (E3)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                         |         |                                                                                     |                             |               |                                   |                            |                                                          |                                         |       |
| Fixed Targets | #                                                                                                 | Name    | Target Coordinates                                                                  | Targ. Coord. Corrections    |               |                                   | Fluxes                     | Miscellaneous                                            |                                         |       |
|               | (4)                                                                                               | ACO-697 | RA: 08 42 58.9343 (130.7455596d)<br>Dec: +36 21 51.09 (36.36419d)<br>Equinox: J2000 |                             |               |                                   | V=18                       | Reference Frame: SIMBAD                                  |                                         |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |         |                                                                                     |                             |               |                                   |                            |                                                          |                                         |       |
|               |                                                                                                   |         |                                                                                     |                             |               |                                   |                            |                                                          |                                         |       |
| Exposures     | #                                                                                                 | Label   | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.              | Groups                                                   | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                 |         | (4) ACO-697                                                                         | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   |                            | Prime + Parallel Gro<br>up 1-2 in 4 ACO-697<br>ACS2 (E3) | 435 Secs (435 Secs)<br>[==>]            | [1]   |
|               | 2                                                                                                 |         | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=13;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Gro<br>up 1-2 in 4 ACO-697<br>ACS2 (E3) | 602.937703 Secs (602.938 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                 |         | (4) ACO-697                                                                         | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   | POS TARG 0.0741,2<br>.970  | Prime + Parallel Gro<br>up 3-4 in 4 ACO-697<br>ACS2 (E3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 4                                                                                                 |         | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Gro<br>up 3-4 in 4 ACO-697<br>ACS2 (E3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                 |         | (4) ACO-697                                                                         | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   | POS TARG 0.1976,5<br>.9687 | Prime + Parallel Gro<br>up 5-6 in 4 ACO-697<br>ACS2 (E3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 6                                                                                                 |         | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Gro<br>up 5-6 in 4 ACO-697<br>ACS2 (E3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                 |         | (4) ACO-697                                                                         | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   | POS TARG 0.2717,8<br>.9367 | Prime + Parallel Gro<br>up 7-8 in 4 ACO-697<br>ACS2 (E3) | 435 Secs (435 Secs)<br>[==>]            | [1]   |
|               | 8                                                                                                 |         | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Gro<br>up 7-8 in 4 ACO-697<br>ACS2 (E3) | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               |                                                                                                   |         |                                                                                     |                             |               |                                   |                            |                                                          |                                         |       |
|               |                                                                                                   |         |                                                                                     |                             |               |                                   |                            |                                                          |                                         |       |
|               |                                                                                                   |         |                                                                                     |                             |               |                                   |                            |                                                          |                                         |       |
|               |                                                                                                   |         |                                                                                     |                             |               |                                   |                            |                                                          |                                         |       |
|               |                                                                                                   |         |                                                                                     |                             |               |                                   |                            |                                                          |                                         |       |
|               |                                                                                                   |         |                                                                                     |                             |               |                                   |                            |                                                          |                                         |       |
|               |                                                                                                   |         |                                                                                     |                             |               |                                   |                            |                                                          |                                         |       |



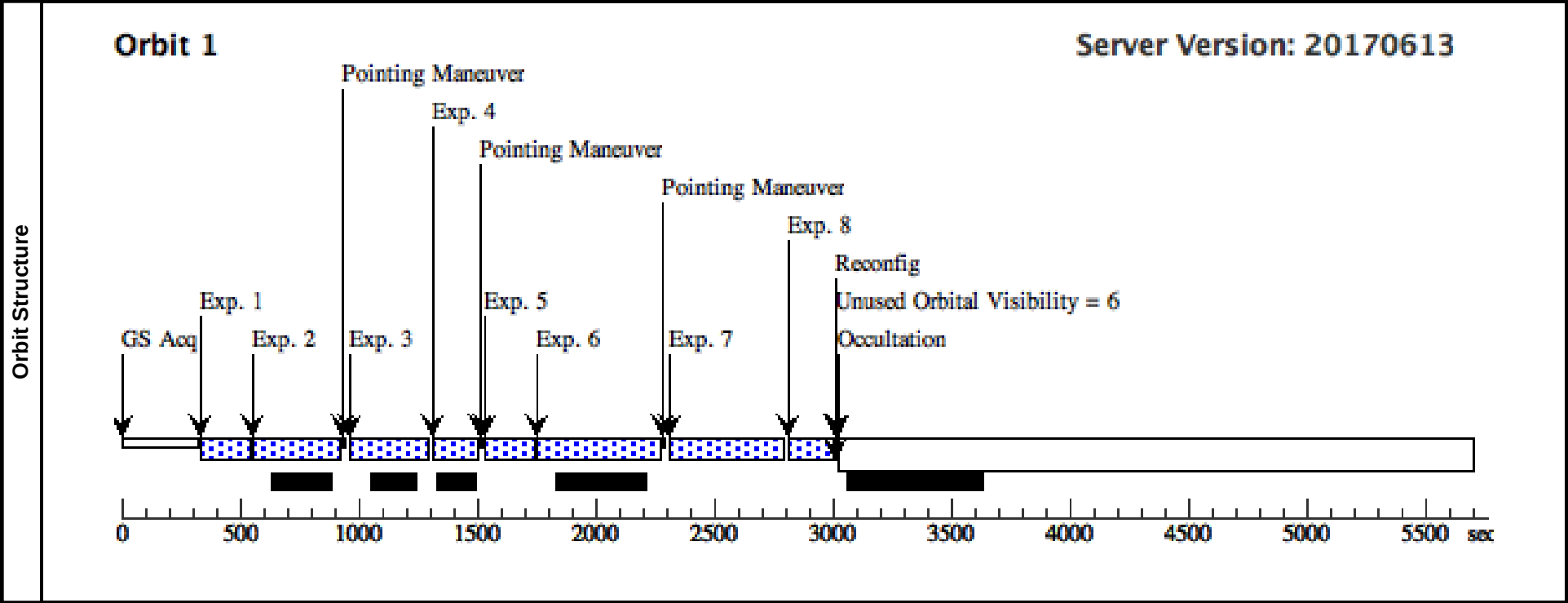
# Proposal 14096 - 4 ACO-697 IR2 (E4) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                                                                                         |         |                                                                                                                                                                                                 |                             |               |                                   |                              |        |                                         |       |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------|--------|-----------------------------------------|-------|
| Visit         | <b>Proposal 14096, 4 ACO-697 IR2 (E4), completed</b> <span style="float: right;">Mon Aug 07 18:08:10 GMT 2017</span>                                                    |         |                                                                                                                                                                                                 |                             |               |                                   |                              |        |                                         |       |
|               | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 70%; SAME ORIENT AS E2; AFTER E3 BY 0.9 Orbits TO 1.1 Orbits |         |                                                                                                                                                                                                 |                             |               |                                   |                              |        |                                         |       |
| Fixed Targets | #                                                                                                                                                                       | Name    | Target Coordinates                                                                                                                                                                              | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                     |                              |        |                                         |       |
|               | (4)                                                                                                                                                                     | ACO-697 | RA: 08 42 58.9343 (130.7455596d)<br>Dec: +36 21 51.09 (36.36419d)<br>Equinox: J2000<br><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> |                             | V=18          | Reference Frame: SIMBAD           |                              |        |                                         |       |
| Exposures     | #                                                                                                                                                                       | Label   | Target                                                                                                                                                                                          | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                                                       | F140W   | (4) ACO-697                                                                                                                                                                                     | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                                                                                       | F105W   | (4) ACO-697                                                                                                                                                                                     | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                                                       | F105W   | (4) ACO-697                                                                                                                                                                                     | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,<br>0.6055  |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                                                                                       | F140W   | (4) ACO-697                                                                                                                                                                                     | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                                                       | F125W   | (4) ACO-697                                                                                                                                                                                     | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0                 |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                                                                                       | F160W   | (4) ACO-697                                                                                                                                                                                     | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                                                                                       | F160W   | (4) ACO-697                                                                                                                                                                                     | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,<br>0.30275 |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                                                                                       | F125W   | (4) ACO-697                                                                                                                                                                                     | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |



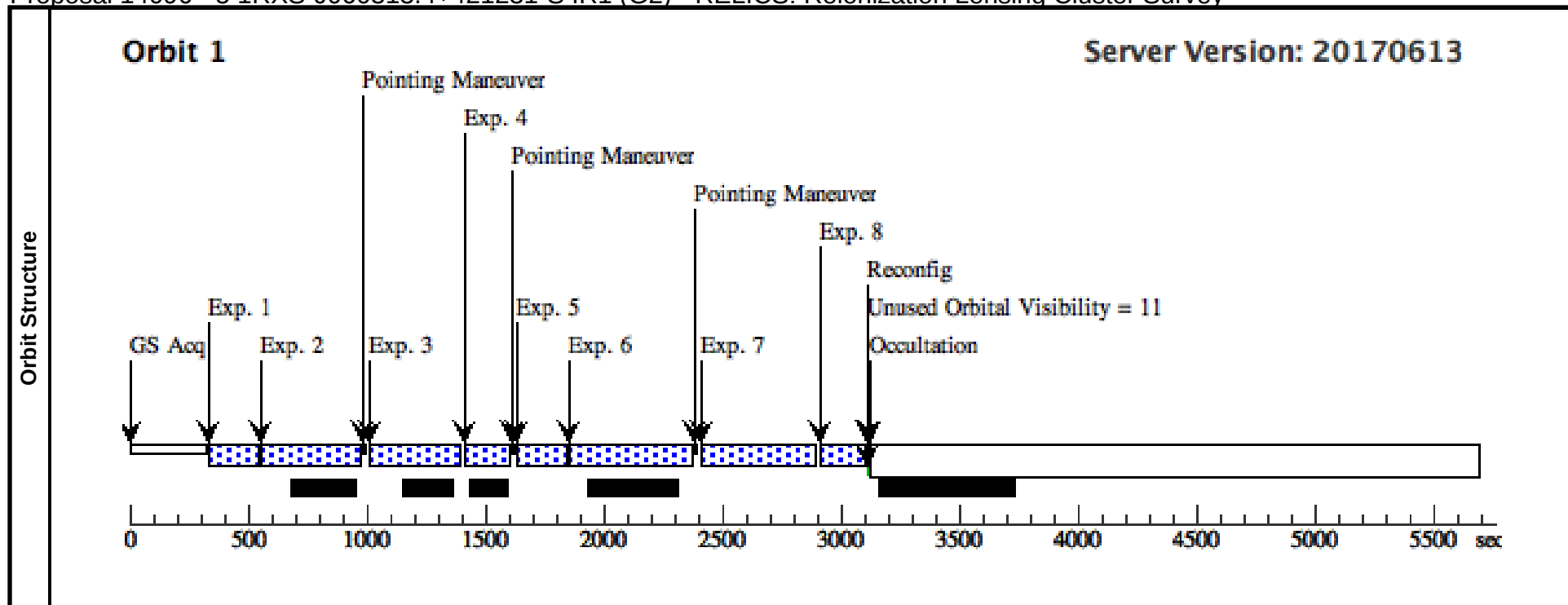
# Proposal 14096 - 5 1RXS-J060313.4+421231-N IR1 (F2) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                         |                                                                                    |                             |               |                                |                           |        |                                         |                         |                              |
|---------------|---------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|---------------------------|--------|-----------------------------------------|-------------------------|------------------------------|
| Visit         | Proposal 14096, 5 1RXS-J060313.4+421231-N IR1 (F2), completed                                     |                         |                                                                                    |                             |               |                                |                           |        |                                         |                         | Mon Aug 07 18:08:10 GMT 2017 |
|               | Diagnostic Status: No Diagnostics                                                                 |                         |                                                                                    |                             |               |                                |                           |        |                                         |                         |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |                         |                                                                                    |                             |               |                                |                           |        |                                         |                         |                              |
|               | Special Requirements: SCHED 90%; ORIENT 147D TO 147 D                                             |                         |                                                                                    |                             |               |                                |                           |        |                                         |                         |                              |
| Fixed Targets | #                                                                                                 | Name                    | Target Coordinates                                                                 |                             |               | Targ. Coord. Corrections       |                           | Fluxes |                                         | Miscellaneous           |                              |
|               | (51)                                                                                              | 1RXS-J060313.4+421231-N | RA: 06 03 12.1617 (90.8006738d)<br>Dec: +42 15 24.69 (42.25686d)<br>Equinox: J2000 |                             |               |                                |                           | V=18   |                                         | Reference Frame: SIMBAD |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                         |                                                                                    |                             |               |                                |                           |        |                                         |                         |                              |
| Exposures     | #                                                                                                 | Label                   | Target                                                                             | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.             | Groups | Exp. Time (Total)/[Actual Dur.]         |                         | Orbit                        |
|               | 1                                                                                                 | F140W                   | (51) 1RXS-J060313.4+421231-N                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  |                           |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 2                                                                                                 | F105W                   | (51) 1RXS-J060313.4+421231-N                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | SAME POS AS 1             |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|               | 3                                                                                                 | F105W                   | (51) 1RXS-J060313.4+421231-N                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=7;<br>SAMP-SEQ=SPAR S50  | POS TARG 6.84275, 0.30275 |        | 302.934997 Secs (302.935 Secs)<br>[==>] |                         | [1]                          |
|               | 4                                                                                                 | F140W                   | (51) 1RXS-J060313.4+421231-N                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 3             |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 5                                                                                                 | F125W                   | (51) 1RXS-J060313.4+421231-N                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 7.317,0.90825    |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 6                                                                                                 | F160W                   | (51) 1RXS-J060313.4+421231-N                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | SAME POS AS 5             |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |
|               | 7                                                                                                 | F160W                   | (51) 1RXS-J060313.4+421231-N                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR S50 | POS TARG 0.47425, 0.6055  |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |                         | [1]                          |
|               | 8                                                                                                 | F125W                   | (51) 1RXS-J060313.4+421231-N                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 7             |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |



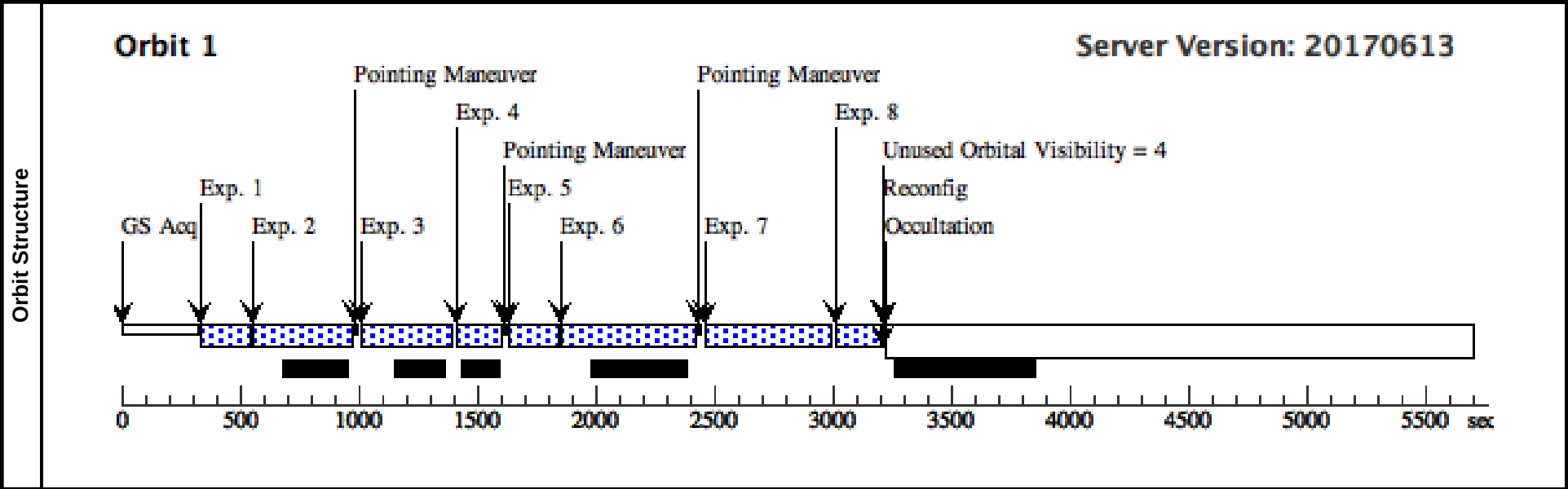
# Proposal 14096 - 5 1RXS-J060313.4+421231-S IR1 (G2) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                         |                                                                                    |                             |                          |                                |                           |        |                                         |  |                              |
|---------------|---------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------------------------|-----------------------------|--------------------------|--------------------------------|---------------------------|--------|-----------------------------------------|--|------------------------------|
| Visit         | Proposal 14096, 5 1RXS-J060313.4+421231-S IR1 (G2), completed                                     |                         |                                                                                    |                             |                          |                                |                           |        |                                         |  | Mon Aug 07 18:08:10 GMT 2017 |
|               | Diagnostic Status: No Diagnostics                                                                 |                         |                                                                                    |                             |                          |                                |                           |        |                                         |  |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |                         |                                                                                    |                             |                          |                                |                           |        |                                         |  |                              |
|               | Special Requirements: SCHED 70%; ORIENT 228D TO 228 D                                             |                         |                                                                                    |                             |                          |                                |                           |        |                                         |  |                              |
| Fixed Targets | #                                                                                                 | Name                    | Target Coordinates                                                                 |                             | Targ. Coord. Corrections |                                | Fluxes                    |        | Miscellaneous                           |  |                              |
|               | (52)                                                                                              | 1RXS-J060313.4+421231-S | RA: 06 03 25.5825 (90.8565937d)<br>Dec: +42 09 53.57 (42.16488d)<br>Equinox: J2000 |                             |                          |                                | V=18                      |        | Reference Frame: SIMBAD                 |  |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                         |                                                                                    |                             |                          |                                |                           |        |                                         |  |                              |
| Exposures     | #                                                                                                 | Label                   | Target                                                                             | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.                   | Special Reqs.             | Groups | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |
|               | 1                                                                                                 | F140W                   | (52) 1RXS-J060313.4+421231-S                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  |                           |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|               | 2                                                                                                 | F105W                   | (52) 1RXS-J060313.4+421231-S                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=9;<br>SAMP-SEQ=SPAR S50  | SAME POS AS 1             |        | 402.935899 Secs (402.936 Secs)<br>[==>] |  | [1]                          |
|               | 3                                                                                                 | F105W                   | (52) 1RXS-J060313.4+421231-S                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 6.84275, 0.30275 |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |
|               | 4                                                                                                 | F140W                   | (52) 1RXS-J060313.4+421231-S                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 3             |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|               | 5                                                                                                 | F125W                   | (52) 1RXS-J060313.4+421231-S                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 7.317,0.90825    |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|               | 6                                                                                                 | F160W                   | (52) 1RXS-J060313.4+421231-S                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | SAME POS AS 5             |        | 502.936801 Secs (502.937 Secs)<br>[==>] |  | [1]                          |
|               | 7                                                                                                 | F160W                   | (52) 1RXS-J060313.4+421231-S                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=10;<br>SAMP-SEQ=SPAR S50 | POS TARG 0.47425, 0.6055  |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |  | [1]                          |
|               | 8                                                                                                 | F125W                   | (52) 1RXS-J060313.4+421231-S                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 7             |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |



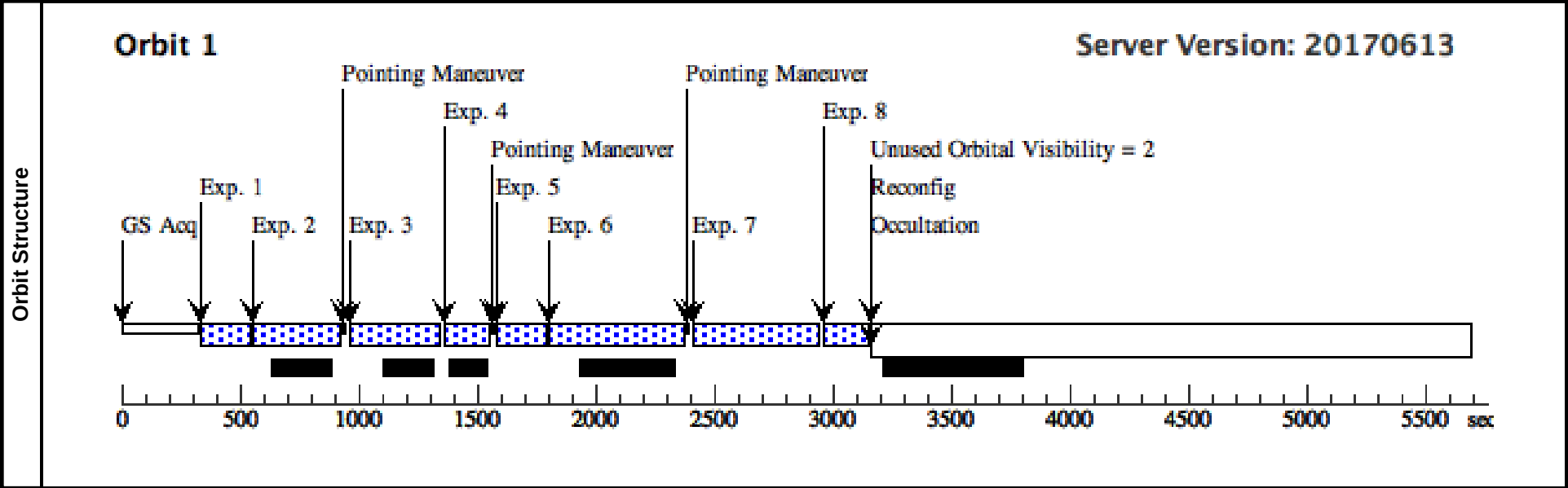
# Proposal 14096 - 5 1RXS-J060313.4+421231-N IR2 (F4) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                         |                                                                                    |                             |               |                                |                           |        |                                         |  |                              |
|---------------|---------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|---------------------------|--------|-----------------------------------------|--|------------------------------|
| Visit         | Proposal 14096, 5 1RXS-J060313.4+421231-N IR2 (F4), completed                                     |                         |                                                                                    |                             |               |                                |                           |        |                                         |  | Mon Aug 07 18:08:10 GMT 2017 |
|               | Diagnostic Status: No Diagnostics                                                                 |                         |                                                                                    |                             |               |                                |                           |        |                                         |  |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |                         |                                                                                    |                             |               |                                |                           |        |                                         |  |                              |
|               | Special Requirements: SCHED 50%; SAME ORIENT AS F2; AFTER F2 BY 20 D TO 60 D                      |                         |                                                                                    |                             |               |                                |                           |        |                                         |  |                              |
| Fixed Targets | #                                                                                                 | Name                    | Target Coordinates                                                                 |                             |               | Targ. Coord. Corrections       |                           | Fluxes | Miscellaneous                           |  |                              |
|               | (51)                                                                                              | 1RXS-J060313.4+421231-N | RA: 06 03 12.1617 (90.8006738d)<br>Dec: +42 15 24.69 (42.25686d)<br>Equinox: J2000 |                             |               |                                |                           | V=18   | Reference Frame: SIMBAD                 |  |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                         |                                                                                    |                             |               |                                |                           |        |                                         |  |                              |
|               |                                                                                                   |                         |                                                                                    |                             |               |                                |                           |        |                                         |  |                              |
| Exposures     | #                                                                                                 | Label                   | Target                                                                             | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.             | Groups | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |
|               | 1                                                                                                 | F140W                   | (51) 1RXS-J060313.4+421231-N                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 7.317,0.90825    |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|               | 2                                                                                                 | F105W                   | (51) 1RXS-J060313.4+421231-N                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=9;<br>SAMP-SEQ=SPAR S50  | SAME POS AS 1             |        | 402.935899 Secs (402.936 Secs)<br>[==>] |  | [1]                          |
|               | 3                                                                                                 | F105W                   | (51) 1RXS-J060313.4+421231-N                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0.47425, 0.6055  |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |
|               | 4                                                                                                 | F140W                   | (51) 1RXS-J060313.4+421231-N                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 3             |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|               | 5                                                                                                 | F125W                   | (51) 1RXS-J060313.4+421231-N                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0              |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|               | 6                                                                                                 | F160W                   | (51) 1RXS-J060313.4+421231-N                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=12;<br>SAMP-SEQ=SPAR S50 | SAME POS AS 5             |        | 552.937252 Secs (552.937 Secs)<br>[==>] |  | [1]                          |
|               | 7                                                                                                 | F160W                   | (51) 1RXS-J060313.4+421231-N                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | POS TARG 6.48275, 0.30275 |        | 502.936801 Secs (502.937 Secs)<br>[==>] |  | [1]                          |
|               | 8                                                                                                 | F125W                   | (51) 1RXS-J060313.4+421231-N                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 7             |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |



# Proposal 14096 - 5 1RXS-J060313.4+421231-S IR2 (G4) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                         |                                                                                    |                             |               |                                |                          |        |                                         |                         |                              |
|---------------|---------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|--------------------------|--------|-----------------------------------------|-------------------------|------------------------------|
| Visit         | Proposal 14096, 5 1RXS-J060313.4+421231-S IR2 (G4), completed                                     |                         |                                                                                    |                             |               |                                |                          |        |                                         |                         | Mon Aug 07 18:08:10 GMT 2017 |
|               | Diagnostic Status: No Diagnostics                                                                 |                         |                                                                                    |                             |               |                                |                          |        |                                         |                         |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |                         |                                                                                    |                             |               |                                |                          |        |                                         |                         |                              |
|               | Special Requirements: SCHED 60%; SAME ORIENT AS G2; AFTER G2 BY 28 D TO 60 D                      |                         |                                                                                    |                             |               |                                |                          |        |                                         |                         |                              |
| Fixed Targets | #                                                                                                 | Name                    | Target Coordinates                                                                 |                             |               | Targ. Coord. Corrections       |                          | Fluxes |                                         | Miscellaneous           |                              |
|               | (52)                                                                                              | 1RXS-J060313.4+421231-S | RA: 06 03 25.5825 (90.8565937d)<br>Dec: +42 09 53.57 (42.16488d)<br>Equinox: J2000 |                             |               |                                |                          | V=18   |                                         | Reference Frame: SIMBAD |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                         |                                                                                    |                             |               |                                |                          |        |                                         |                         |                              |
|               |                                                                                                   |                         |                                                                                    |                             |               |                                |                          |        |                                         |                         |                              |
| Exposures     | #                                                                                                 | Label                   | Target                                                                             | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.            | Groups | Exp. Time (Total)/[Actual Dur.]         |                         | Orbit                        |
|               | 1                                                                                                 | F140W                   | (52) 1RXS-J060313.4+421231-S                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 7.317,0.90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 2                                                                                                 | F105W                   | (52) 1RXS-J060313.4+421231-S                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | SAME POS AS 1            |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|               | 3                                                                                                 | F105W                   | (52) 1RXS-J060313.4+421231-S                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0.47425,0.6055  |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|               | 4                                                                                                 | F140W                   | (52) 1RXS-J060313.4+421231-S                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 3            |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 5                                                                                                 | F125W                   | (52) 1RXS-J060313.4+421231-S                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0             |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 6                                                                                                 | F160W                   | (52) 1RXS-J060313.4+421231-S                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=12;<br>SAMP-SEQ=SPAR S50 | SAME POS AS 5            |        | 552.937252 Secs (552.937 Secs)<br>[==>] |                         | [1]                          |
|               | 7                                                                                                 | F160W                   | (52) 1RXS-J060313.4+421231-S                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | POS TARG 6.48275,0.30275 |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |
|               | 8                                                                                                 | F125W                   | (52) 1RXS-J060313.4+421231-S                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 7            |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |

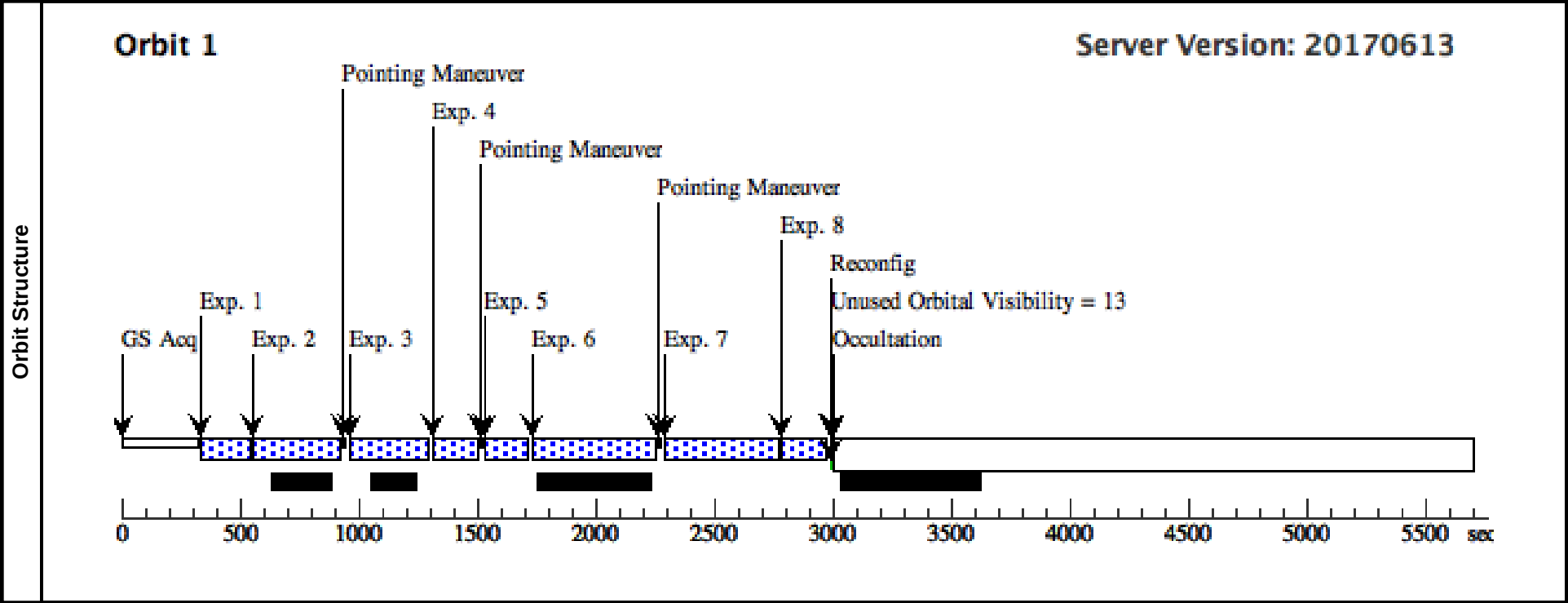


# Proposal 14096 - 6 MCS-J0308.9+2645 ACS1 (H1) - RELICS: Reionization Lensing Cluster Survey

|                 |                                                                                                                                |                      |                                                                                    |                          |                                 |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------|--------------------------|---------------------------------|
| Visit           | <b>Proposal 14096, 6 MCS-J0308.9+2645 ACS1 (H1), completed</b> <span style="float: right;">Mon Aug 07 18:08:10 GMT 2017</span> |                      |                                                                                    |                          |                                 |
|                 | <b>Diagnostic Status: Warning</b><br>Scientific Instruments: ACS/WFC<br>Special Requirements: SCHED 70%; ORIENT 260D TO 260 D  |                      |                                                                                    |                          |                                 |
| Diagnostics     | (6 MCS-J0308.9+2645 ACS1 (H1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                             |                      |                                                                                    |                          |                                 |
| Fixed Targets   | #                                                                                                                              | Name                 | Target Coordinates                                                                 | Targ. Coord. Corrections | Fluxes                          |
|                 | (61)                                                                                                                           | MCS-J0308.9+2645-ACS | RA: 03 08 56.7097 (47.2362904d)<br>Dec: +26 45 39.47 (26.76096d)<br>Equinox: J2000 |                          | V=18                            |
|                 | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                              |                      |                                                                                    |                          |                                 |
| Exposures       | #                                                                                                                              | Label                | Target                                                                             | Config,Mode,Aperture     | Spectral Els.                   |
|                 | 1                                                                                                                              |                      | (61) MCS-J0308.9+2645-ACS                                                          | ACS/WFC, ACCUM, WFCENTER | F435W                           |
|                 |                                                                                                                                |                      |                                                                                    |                          |                                 |
|                 | 2                                                                                                                              |                      | (61) MCS-J0308.9+2645-ACS                                                          | ACS/WFC, ACCUM, WFCENTER | F435W                           |
|                 |                                                                                                                                |                      |                                                                                    |                          | POS TARG 0.0741,2 .970          |
|                 | 3                                                                                                                              |                      | (61) MCS-J0308.9+2645-ACS                                                          | ACS/WFC, ACCUM, WFCENTER | F435W                           |
|                 |                                                                                                                                |                      |                                                                                    |                          | POS TARG 0.1976,5 .9687         |
|                 | 4                                                                                                                              |                      | (61) MCS-J0308.9+2645-ACS                                                          | ACS/WFC, ACCUM, WFCENTER | F435W                           |
|                 |                                                                                                                                |                      |                                                                                    |                          | POS TARG 0.2717,8 .9367         |
|                 |                                                                                                                                |                      |                                                                                    |                          | Exp. Time (Total)/[Actual Dur.] |
|                 |                                                                                                                                |                      |                                                                                    |                          | Orbit                           |
|                 |                                                                                                                                |                      |                                                                                    |                          | [1]                             |
|                 |                                                                                                                                |                      |                                                                                    |                          | [1]                             |
|                 |                                                                                                                                |                      |                                                                                    |                          | [1]                             |
|                 |                                                                                                                                |                      |                                                                                    |                          | [1]                             |
| Orbit Structure | <div> <div>Orbit 1</div> <div>Server Version: 20170613</div> </div>                                                            |                      |                                                                                    |                          |                                 |
|                 |                                                                                                                                |                      |                                                                                    |                          |                                 |

# Proposal 14096 - 6 MCS-J0308.9+2645 IR1 (H2) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                     |                                                                                    |                             |  |                          |                                   |                              |        |                                 |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------|-----------------------------|--|--------------------------|-----------------------------------|------------------------------|--------|---------------------------------|-----------------------------------------|-------|
| Visit         | Proposal 14096, 6 MCS-J0308.9+2645 IR1 (H2), completed                                            |                     |                                                                                    |                             |  |                          |                                   |                              |        |                                 | Mon Aug 07 18:08:10 GMT 2017            |       |
|               | Diagnostic Status: No Diagnostics                                                                 |                     |                                                                                    |                             |  |                          |                                   |                              |        |                                 |                                         |       |
|               | Scientific Instruments: WFC3/IR                                                                   |                     |                                                                                    |                             |  |                          |                                   |                              |        |                                 |                                         |       |
|               | Special Requirements: SCHED 90%; ORIENT 107D TO 107 D                                             |                     |                                                                                    |                             |  |                          |                                   |                              |        |                                 |                                         |       |
| Fixed Targets | #                                                                                                 | Name                | Target Coordinates                                                                 |                             |  | Targ. Coord. Corrections |                                   | Fluxes                       |        | Miscellaneous                   |                                         |       |
|               | (62)                                                                                              | MCS-J0308.9+2645-IR | RA: 03 08 55.7482 (47.2322842d)<br>Dec: +26 45 36.78 (26.76022d)<br>Equinox: J2000 |                             |  |                          |                                   | V=18                         |        | Reference Frame: SIMBAD         |                                         |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                     |                                                                                    |                             |  |                          |                                   |                              |        |                                 |                                         |       |
|               |                                                                                                   |                     |                                                                                    |                             |  |                          |                                   |                              |        |                                 |                                         |       |
| Exposures     | #                                                                                                 | Label               | Target                                                                             | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.] |                                         | Orbit |
|               | 1                                                                                                 | F140W               | (62) MCS-J0308.9+2645-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                              |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                 | F105W               | (62) MCS-J0308.9+2645-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        |                                 | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                 | F105W               | (62) MCS-J0308.9+2645-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |        |                                 | 302.934997 Secs (302.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                 | F140W               | (62) MCS-J0308.9+2645-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                 | F125W               | (62) MCS-J0308.9+2645-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        |                                 | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                 | F160W               | (62) MCS-J0308.9+2645-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        |                                 | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                 | F160W               | (62) MCS-J0308.9+2645-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |        |                                 | 452.93635 Secs (452.936 Secs)<br>[==>]  | [1]   |
|               | 8                                                                                                 | F125W               | (62) MCS-J0308.9+2645-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |

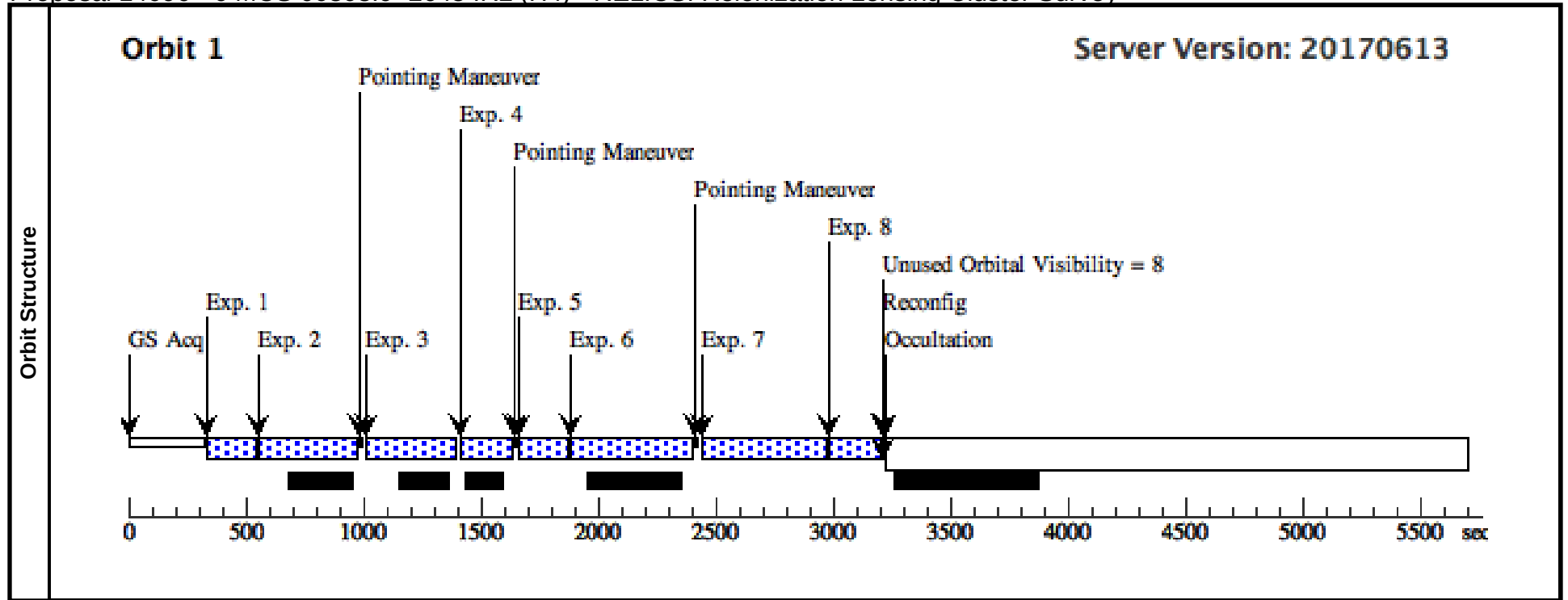


# Proposal 14096 - 6 MCS-J0308.9+2645 ACS2 (H3) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                                                                                      |                      |                                                                                    |                          |                                 |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------|--------------------------|---------------------------------|
| Visit                                                                                             | <b>Proposal 14096, 6 MCS-J0308.9+2645 ACS2 (H3), completed</b> <span style="float: right;">Mon Aug 07 18:08:10 GMT 2017</span>                       |                      |                                                                                    |                          |                                 |
|                                                                                                   | <b>Diagnostic Status: Warning</b><br>Scientific Instruments: ACS/WFC<br>Special Requirements: SCHED 80%; SAME ORIENT AS H1; AFTER H1 BY 40 D TO 60 D |                      |                                                                                    |                          |                                 |
| Diagnostics                                                                                       | (6 MCS-J0308.9+2645 ACS2 (H3)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                   |                      |                                                                                    |                          |                                 |
| Fixed Targets                                                                                     | #                                                                                                                                                    | Name                 | Target Coordinates                                                                 | Targ. Coord. Corrections | Fluxes                          |
|                                                                                                   | (61)                                                                                                                                                 | MCS-J0308.9+2645-ACS | RA: 03 08 56.7097 (47.2362904d)<br>Dec: +26 45 39.47 (26.76096d)<br>Equinox: J2000 |                          | V=18                            |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                                                                                      |                      |                                                                                    |                          |                                 |
| Exposures                                                                                         | #                                                                                                                                                    | Label                | Target                                                                             | Config,Mode,Aperture     | Spectral Els.                   |
|                                                                                                   | 1                                                                                                                                                    |                      | (61) MCS-J0308.9+2645-ACS                                                          | ACS/WFC, ACCUM, WFCENTER | F606W                           |
|                                                                                                   |                                                                                                                                                      |                      |                                                                                    |                          | Exp. Time (Total)/[Actual Dur.] |
|                                                                                                   |                                                                                                                                                      |                      |                                                                                    |                          | 496 Secs (496 Secs)             |
|                                                                                                   |                                                                                                                                                      |                      |                                                                                    |                          | [=>]                            |
|                                                                                                   |                                                                                                                                                      |                      |                                                                                    |                          | [1]                             |
|                                                                                                   | 2                                                                                                                                                    |                      | (61) MCS-J0308.9+2645-ACS                                                          | ACS/WFC, ACCUM, WFCENTER | F606W                           |
|                                                                                                   |                                                                                                                                                      |                      |                                                                                    |                          | POS TARG 0.0741,2 .9947         |
|                                                                                                   |                                                                                                                                                      |                      |                                                                                    |                          | 495 Secs (495 Secs)             |
|                                                                                                   |                                                                                                                                                      |                      |                                                                                    |                          | [=>]                            |
|                                                                                                   |                                                                                                                                                      |                      |                                                                                    |                          | [1]                             |
|                                                                                                   | 3                                                                                                                                                    |                      | (61) MCS-J0308.9+2645-ACS                                                          | ACS/WFC, ACCUM, WFCENTER | F814W                           |
|                                                                                                   |                                                                                                                                                      |                      |                                                                                    |                          | POS TARG 0.1976,5 .9687         |
|                                                                                                   |                                                                                                                                                      |                      |                                                                                    |                          | 495 Secs (495 Secs)             |
|                                                                                                   |                                                                                                                                                      |                      |                                                                                    |                          | [=>]                            |
|                                                                                                   |                                                                                                                                                      |                      |                                                                                    |                          | [1]                             |
|                                                                                                   | 4                                                                                                                                                    |                      | (61) MCS-J0308.9+2645-ACS                                                          | ACS/WFC, ACCUM, WFCENTER | F814W                           |
|                                                                                                   |                                                                                                                                                      |                      |                                                                                    |                          | POS TARG 0.2717,8 .914          |
|                                                                                                   |                                                                                                                                                      |                      |                                                                                    |                          | 495 Secs (495 Secs)             |
|                                                                                                   |                                                                                                                                                      |                      |                                                                                    |                          | [=>]                            |
|                                                                                                   |                                                                                                                                                      |                      |                                                                                    |                          | [1]                             |
| Orbit Structure                                                                                   | <div> <div>Orbit 1</div> <div>Server Version: 20170613</div> </div>                                                                                  |                      |                                                                                    |                          |                                 |
|                                                                                                   |                                                                                                                                                      |                      |                                                                                    |                          |                                 |

# Proposal 14096 - 6 MCS-J0308.9+2645 IR2 (H4) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                     |                                                                                    |                             |  |                          |                                   |                          |        |                                 |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------|-----------------------------|--|--------------------------|-----------------------------------|--------------------------|--------|---------------------------------|-----------------------------------------|-------|
| Visit         | Proposal 14096, 6 MCS-J0308.9+2645 IR2 (H4), completed                                            |                     |                                                                                    |                             |  |                          |                                   |                          |        |                                 | Mon Aug 07 18:08:10 GMT 2017            |       |
|               | Diagnostic Status: No Diagnostics                                                                 |                     |                                                                                    |                             |  |                          |                                   |                          |        |                                 |                                         |       |
|               | Scientific Instruments: WFC3/IR                                                                   |                     |                                                                                    |                             |  |                          |                                   |                          |        |                                 |                                         |       |
|               | Special Requirements: SCHED 30%; SAME ORIENT AS H2; AFTER H2 BY 25 D TO 60 D                      |                     |                                                                                    |                             |  |                          |                                   |                          |        |                                 |                                         |       |
| Fixed Targets | #                                                                                                 | Name                | Target Coordinates                                                                 |                             |  | Targ. Coord. Corrections |                                   | Fluxes                   |        | Miscellaneous                   |                                         |       |
|               | (62)                                                                                              | MCS-J0308.9+2645-IR | RA: 03 08 55.7482 (47.2322842d)<br>Dec: +26 45 36.78 (26.76022d)<br>Equinox: J2000 |                             |  |                          |                                   | V=18                     |        | Reference Frame: SIMBAD         |                                         |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                     |                                                                                    |                             |  |                          |                                   |                          |        |                                 |                                         |       |
|               |                                                                                                   |                     |                                                                                    |                             |  |                          |                                   |                          |        |                                 |                                         |       |
| Exposures     | #                                                                                                 | Label               | Target                                                                             | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                      | Special Reqs.            | Groups | Exp. Time (Total)/[Actual Dur.] |                                         | Orbit |
|               | 1                                                                                                 | F140W               | (62) MCS-J0308.9+2645-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.90825   |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                 | F105W               | (62) MCS-J0308.9+2645-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1            |        |                                 | 402.935899 Secs (402.936 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                 | F105W               | (62) MCS-J0308.9+2645-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,0.6055  |        |                                 | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                 | F140W               | (62) MCS-J0308.9+2645-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3            |        |                                 | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                 | F125W               | (62) MCS-J0308.9+2645-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0             |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                 | F160W               | (62) MCS-J0308.9+2645-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5            |        |                                 | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                 | F160W               | (62) MCS-J0308.9+2645-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,0.30275 |        |                                 | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                 | F125W               | (62) MCS-J0308.9+2645-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7            |        |                                 | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |

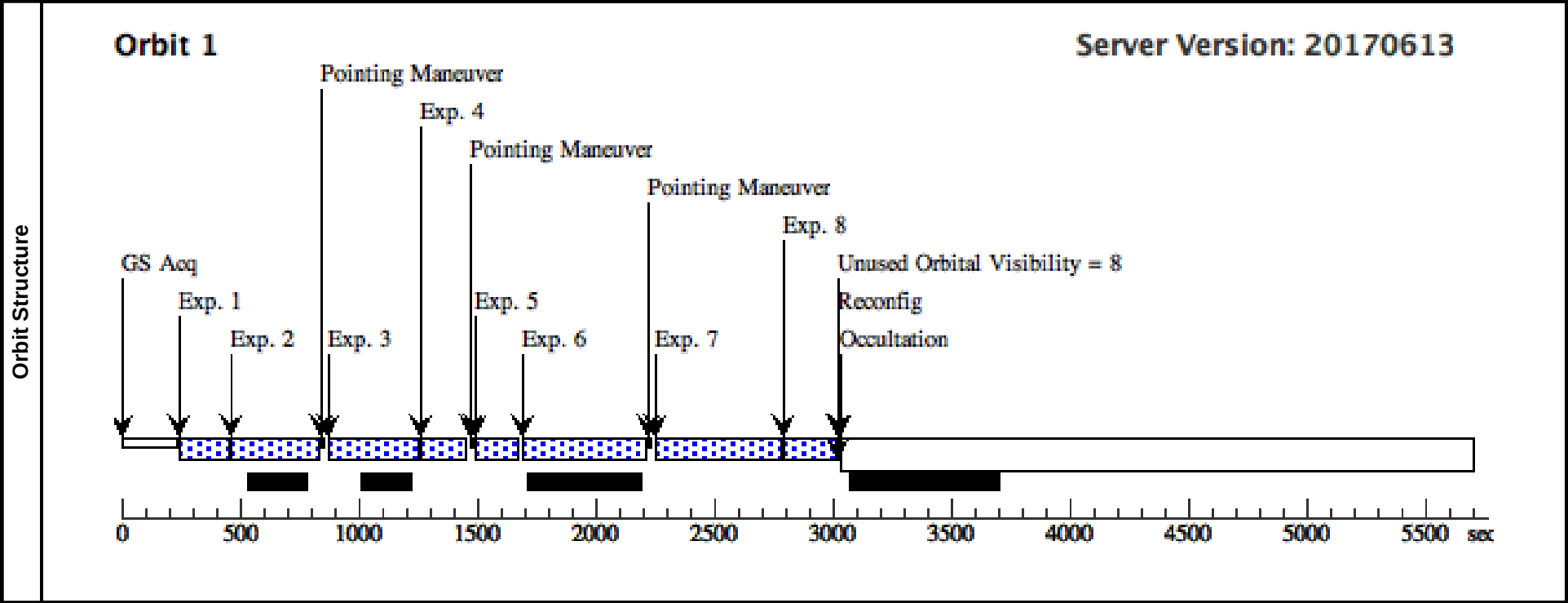


# Proposal 14096 - 7 NAME-EL-GORDO-F435W ACS1 (I1) - RELICS: Reionization Lensing Cluster Survey

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |                                                                                     |                          |               |                              |                            |        |                                 |       |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------|--------------------------|---------------|------------------------------|----------------------------|--------|---------------------------------|-------|
| Visit           | Proposal 14096, 7 NAME-EL-GORDO-F435W ACS1 (I1), completed                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |                                                                                     |                          |               | Mon Aug 07 18:08:10 GMT 2017 |                            |        |                                 |       |
|                 | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |                                                                                     |                          |               |                              |                            |        |                                 |       |
|                 | Scientific Instruments: ACS/WFC                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |                                                                                     |                          |               |                              |                            |        |                                 |       |
|                 | Special Requirements: SCHED 90%; ORIENT 279D TO 279 D                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     |                                                                                     |                          |               |                              |                            |        |                                 |       |
| Diagnostics     | (7 NAME-EL-GORDO-F435W ACS1 (I1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                                                                                                                                                            |                     |                                                                                     |                          |               |                              |                            |        |                                 |       |
| Fixed Targets   | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Name                | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes        | Miscellaneous                |                            |        |                                 |       |
|                 | (70)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NAME-EL-GORDO-F435W | RA: 01 02 55.2039 (15.7300163d)<br>Dec: -49 15 35.28 (-49.25980d)<br>Equinox: J2000 |                          | V=18          | Reference Frame: SIMBAD      |                            |        |                                 |       |
|                 | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                                                                                                                                                                                                                                |                     |                                                                                     |                          |               |                              |                            |        |                                 |       |
| Exposures       | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Label               | Target                                                                              | Config,Mode,Aperture     | Spectral Els. | Opt. Params.                 | Special Reqs.              | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|                 | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     | (70) NAME-EL-GO RDO-F435W                                                           | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | GS ACQ SCENARI<br>O SINGLE |        | 524 Secs (524 Secs)             |       |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |                                                                                     |                          |               |                              |                            |        | [==>]                           | [1]   |
|                 | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     | (70) NAME-EL-GO RDO-F435W                                                           | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | POS TARG 0.0741,2<br>.970  |        | 523 Secs (523 Secs)             |       |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |                                                                                     |                          |               |                              |                            |        | [==>]                           | [1]   |
|                 | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     | (70) NAME-EL-GO RDO-F435W                                                           | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | POS TARG 0.1976,5<br>.9687 |        | 523 Secs (523 Secs)             |       |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |                                                                                     |                          |               |                              |                            | [==>]  | [1]                             |       |
|                 | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     | (70) NAME-EL-GO RDO-F435W                                                           | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | POS TARG 0.2717,8<br>.9367 |        | 523 Secs (523 Secs)             |       |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |                                                                                     |                          |               |                              |                            | [==>]  | [1]                             |       |
| Orbit Structure | <div><div>Orbit 1</div><div>Server Version: 20170613</div><div>GS Acq</div><div>Exp. 1</div><div>Exp. 2</div><div>Exp. 3</div><div>Exp. 4</div><div>Pointing Maneuver</div><div>Pointing Maneuver</div><div>Pointing Maneuver</div><div>Occultation</div><div>*** ORBITAL VISIBILITY OVERRUN = 7</div><div>0</div><div>500</div><div>1000</div><div>1500</div><div>2000</div><div>2500</div><div>3000</div><div>3500</div><div>4000</div><div>4500</div><div>5000</div><div>5500 sec</div></div> |                     |                                                                                     |                          |               |                              |                            |        |                                 |       |

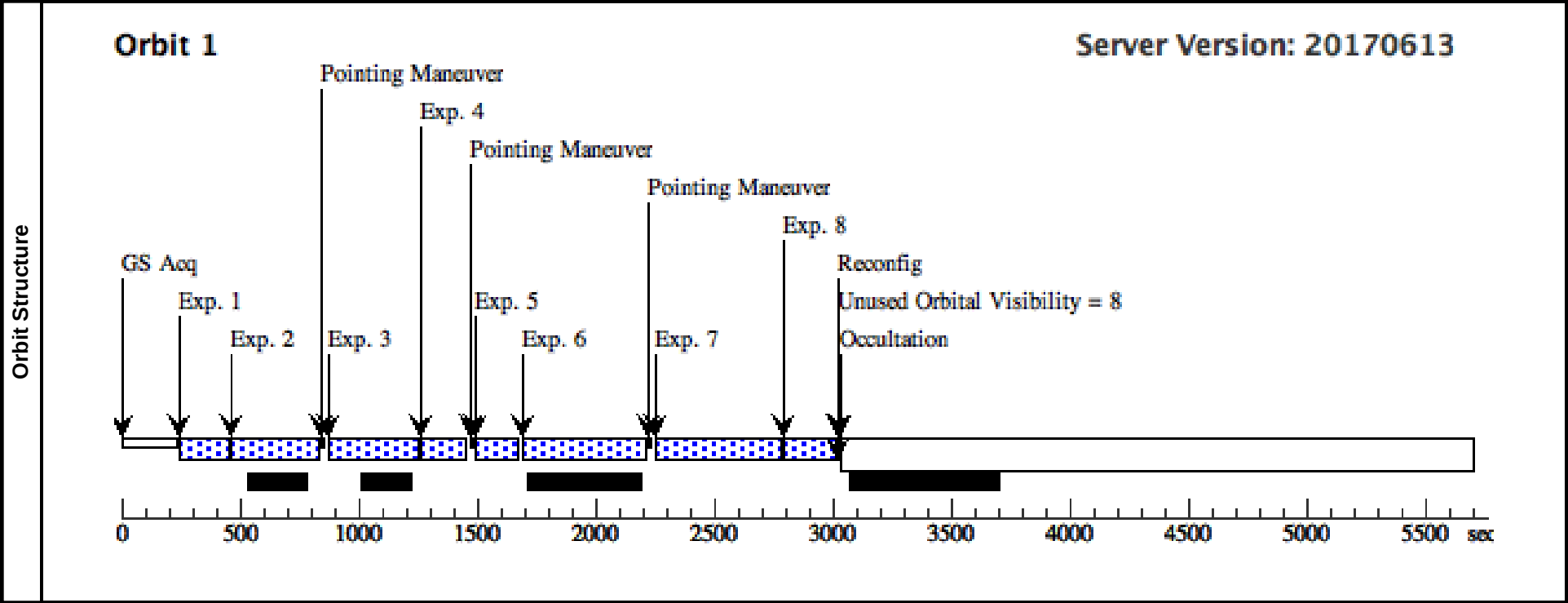
# Proposal 14096 - 7 NAME-EL-GORDO-NW IR1 (I2) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                  |                                                                                     |                             |               |                                |                           |        |                                         |       |                              |
|---------------|---------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|---------------------------|--------|-----------------------------------------|-------|------------------------------|
| Visit         | Proposal 14096, 7 NAME-EL-GORDO-NW IR1 (I2), completed                                            |                  |                                                                                     |                             |               |                                |                           |        |                                         |       | Mon Aug 07 18:08:10 GMT 2017 |
|               | Diagnostic Status: No Diagnostics                                                                 |                  |                                                                                     |                             |               |                                |                           |        |                                         |       |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |                  |                                                                                     |                             |               |                                |                           |        |                                         |       |                              |
|               | Special Requirements: SCHED 90%; SAME ORIENT AS I1; AFTER I1 BY 1 Orbits TO 1.1 Orbits            |                  |                                                                                     |                             |               |                                |                           |        |                                         |       |                              |
| Fixed Targets | #                                                                                                 | Name             | Target Coordinates                                                                  | Targ. Coord. Corrections    |               |                                | Fluxes                    |        | Miscellaneous                           |       |                              |
|               | (71)                                                                                              | NAME-EL-GORDO-NW | RA: 01 02 53.0565 (15.7210688d)<br>Dec: -49 14 52.81 (-49.24800d)<br>Equinox: J2000 |                             |               |                                | V=18                      |        | Reference Frame: SIMBAD                 |       |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                  |                                                                                     |                             |               |                                |                           |        |                                         |       |                              |
|               |                                                                                                   |                  |                                                                                     |                             |               |                                |                           |        |                                         |       |                              |
| Exposures     | #                                                                                                 | Label            | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.             | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |                              |
|               | 1                                                                                                 | F140W            | (71) NAME-EL-GO RDO-NW                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | GS ACQ SCENARI O SINGLE   |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |                              |
|               | 2                                                                                                 | F105W            | (71) NAME-EL-GO RDO-NW                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | SAME POS AS 1             |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |                              |
|               | 3                                                                                                 | F105W            | (71) NAME-EL-GO RDO-NW                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 6.84275, 0.30275 |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |                              |
|               | 4                                                                                                 | F140W            | (71) NAME-EL-GO RDO-NW                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 3             |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |                              |
|               | 5                                                                                                 | F125W            | (71) NAME-EL-GO RDO-NW                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 7.317,0. 90825   |        | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |                              |
|               | 6                                                                                                 | F160W            | (71) NAME-EL-GO RDO-NW                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | SAME POS AS 5             |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |                              |
|               | 7                                                                                                 | F160W            | (71) NAME-EL-GO RDO-NW                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | POS TARG 0.47425, 0.6055  |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |                              |
|               | 8                                                                                                 | F125W            | (71) NAME-EL-GO RDO-NW                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 7             |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |                              |



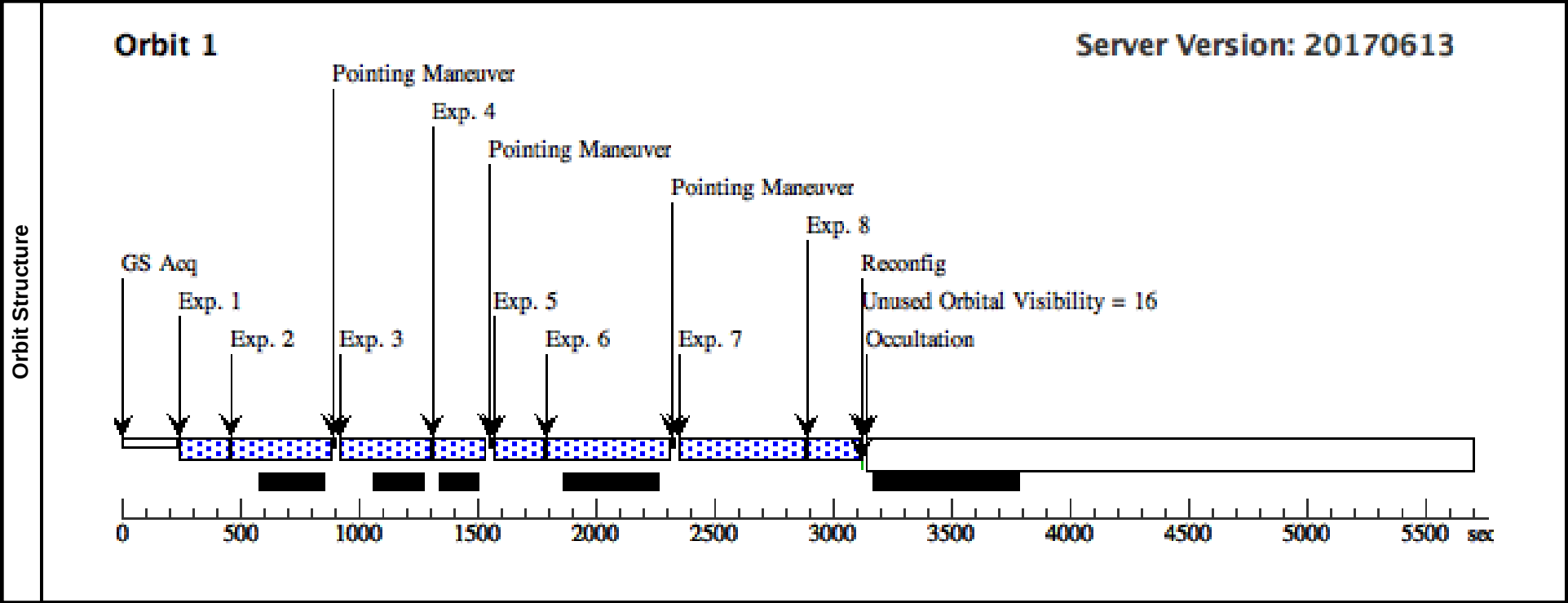
# Proposal 14096 - 7 NAME-EL-GORDO-SE IR1 (J2) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                  |                                                                                    |                             |               |                                |                           |        |                                         |  |                              |
|---------------|---------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|---------------------------|--------|-----------------------------------------|--|------------------------------|
| Visit         | Proposal 14096, 7 NAME-EL-GORDO-SE IR1 (J2), completed                                            |                  |                                                                                    |                             |               |                                |                           |        |                                         |  | Mon Aug 07 18:08:10 GMT 2017 |
|               | Diagnostic Status: No Diagnostics                                                                 |                  |                                                                                    |                             |               |                                |                           |        |                                         |  |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |                  |                                                                                    |                             |               |                                |                           |        |                                         |  |                              |
|               | Special Requirements: SCHED 90%; SAME ORIENT AS I2; AFTER I2 BY 1 Orbits TO 1.1 Orbits            |                  |                                                                                    |                             |               |                                |                           |        |                                         |  |                              |
| Fixed Targets | #                                                                                                 | Name             | Target Coordinates                                                                 |                             |               | Targ. Coord. Corrections       |                           | Fluxes | Miscellaneous                           |  |                              |
|               | (72)                                                                                              | NAME-EL-GORDO-SE | RA: 01 03 0.0055 (15.7500229d)<br>Dec: -49 16 22.19 (-49.27283d)<br>Equinox: J2000 |                             |               |                                |                           | V=18   | Reference Frame: SIMBAD                 |  |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                  |                                                                                    |                             |               |                                |                           |        |                                         |  |                              |
|               |                                                                                                   |                  |                                                                                    |                             |               |                                |                           |        |                                         |  |                              |
| Exposures     | #                                                                                                 | Label            | Target                                                                             | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.             | Groups | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |
|               | 1                                                                                                 | F140W            | (72) NAME-EL-GO RDO-SE                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | GS ACQ SCENARI O SINGLE   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|               | 2                                                                                                 | F105W            | (72) NAME-EL-GO RDO-SE                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | SAME POS AS 1             |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |
|               | 3                                                                                                 | F105W            | (72) NAME-EL-GO RDO-SE                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 6.84275, 0.30275 |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |
|               | 4                                                                                                 | F140W            | (72) NAME-EL-GO RDO-SE                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 3             |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|               | 5                                                                                                 | F125W            | (72) NAME-EL-GO RDO-SE                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 7.317,0. 90825   |        | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |
|               | 6                                                                                                 | F160W            | (72) NAME-EL-GO RDO-SE                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | SAME POS AS 5             |        | 502.936801 Secs (502.937 Secs)<br>[==>] |  | [1]                          |
|               | 7                                                                                                 | F160W            | (72) NAME-EL-GO RDO-SE                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | POS TARG 0.47425, 0.6055  |        | 502.936801 Secs (502.937 Secs)<br>[==>] |  | [1]                          |
|               | 8                                                                                                 | F125W            | (72) NAME-EL-GO RDO-SE                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 7             |        | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |



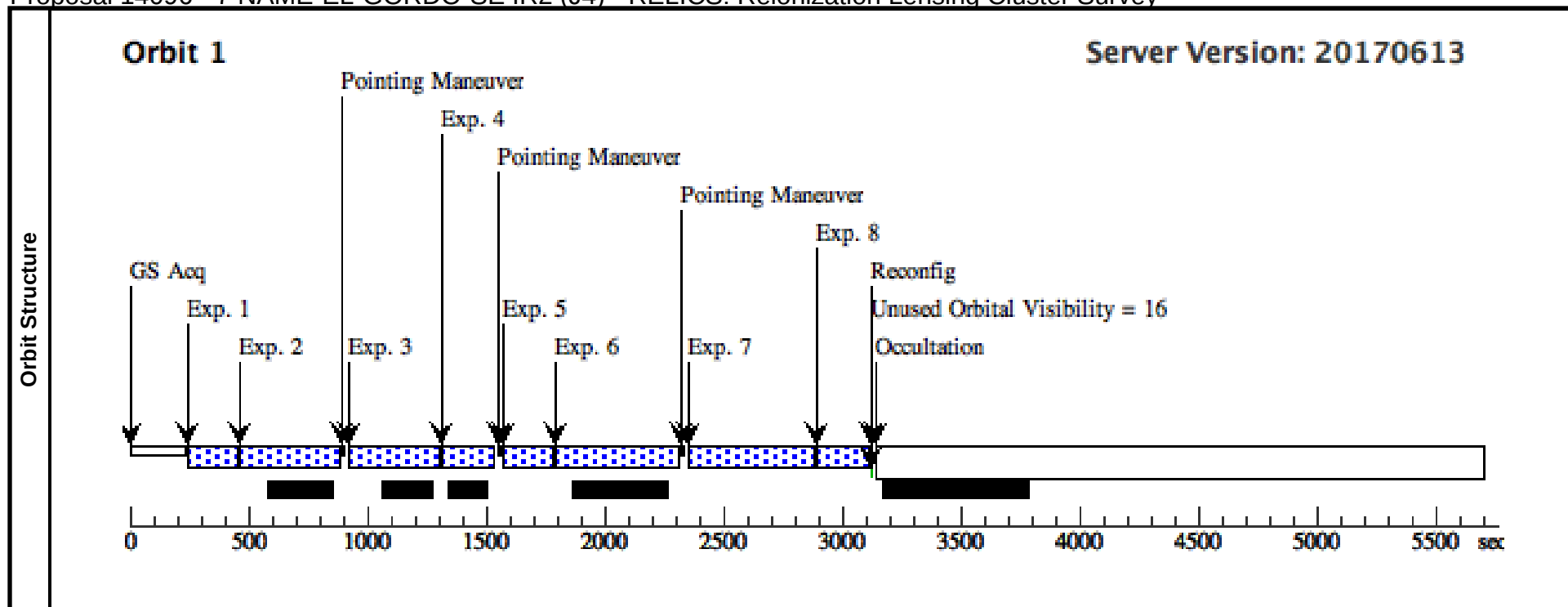
# Proposal 14096 - 7 NAME-EL-GORDO-NW IR2 (I4) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                                                                             |                  |                                                                                                                                                                                                 |                             |               |                                |                                                    |        |                                         |       |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|----------------------------------------------------|--------|-----------------------------------------|-------|
| Visit         | <b>Proposal 14096, 7 NAME-EL-GORDO-NW IR2 (I4), completed</b> <span>Mon Aug 07 18:08:10 GMT 2017</span>                                                     |                  |                                                                                                                                                                                                 |                             |               |                                |                                                    |        |                                         |       |
|               | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 70%; SAME ORIENT AS I2; AFTER I2 BY 30 D TO 60 D |                  |                                                                                                                                                                                                 |                             |               |                                |                                                    |        |                                         |       |
| Fixed Targets | #                                                                                                                                                           | Name             | Target Coordinates                                                                                                                                                                              | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                  |                                                    |        |                                         |       |
|               | (71)                                                                                                                                                        | NAME-EL-GORDO-NW | RA: 01 02 53.0565 (15.7210688d)<br>Dec: -49 14 52.81 (-49.24800d)<br>Equinox: J2000<br><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> |                             | V=18          | Reference Frame: SIMBAD        |                                                    |        |                                         |       |
| Exposures     | #                                                                                                                                                           | Label            | Target                                                                                                                                                                                          | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                                      | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                                           | F140W            | (71) NAME-EL-GO RDO-NW                                                                                                                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 7.317,0.90825;<br>GS ACQ SCENARI O SINGLE |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                                                                           | F105W            | (71) NAME-EL-GO RDO-NW                                                                                                                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=9;<br>SAMP-SEQ=SPAR S50  | SAME POS AS 1                                      |        | 402.935899 Secs (402.936 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                                           | F105W            | (71) NAME-EL-GO RDO-NW                                                                                                                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0.47425, 0.6055                           |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                                                                           | F140W            | (71) NAME-EL-GO RDO-NW                                                                                                                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 3                                      |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                                           | F125W            | (71) NAME-EL-GO RDO-NW                                                                                                                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0                                       |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                                                                           | F160W            | (71) NAME-EL-GO RDO-NW                                                                                                                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | SAME POS AS 5                                      |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                                                                           | F160W            | (71) NAME-EL-GO RDO-NW                                                                                                                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | POS TARG 6.48275, 0.30275                          |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                                                                           | F125W            | (71) NAME-EL-GO RDO-NW                                                                                                                                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 7                                      |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |



# Proposal 14096 - 7 NAME-EL-GORDO-SE IR2 (J4) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                  |                                                                                    |                             |  |                          |                                |  |                                                   |        |                                         |  |       |
|---------------|---------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------|-----------------------------|--|--------------------------|--------------------------------|--|---------------------------------------------------|--------|-----------------------------------------|--|-------|
| Visit         | Proposal 14096, 7 NAME-EL-GORDO-SE IR2 (J4), completed                                            |                  |                                                                                    |                             |  |                          |                                |  |                                                   |        | Mon Aug 07 18:08:10 GMT 2017            |  |       |
|               | Diagnostic Status: No Diagnostics                                                                 |                  |                                                                                    |                             |  |                          |                                |  |                                                   |        |                                         |  |       |
|               | Scientific Instruments: WFC3/IR                                                                   |                  |                                                                                    |                             |  |                          |                                |  |                                                   |        |                                         |  |       |
|               | Special Requirements: SCHED 70%; SAME ORIENT AS J2; AFTER I4 BY 1 Orbits TO 1.1 Orbits            |                  |                                                                                    |                             |  |                          |                                |  |                                                   |        |                                         |  |       |
| Fixed Targets | #                                                                                                 | Name             | Target Coordinates                                                                 |                             |  | Targ. Coord. Corrections |                                |  | Fluxes                                            |        | Miscellaneous                           |  |       |
|               | (72)                                                                                              | NAME-EL-GORDO-SE | RA: 01 03 0.0055 (15.7500229d)<br>Dec: -49 16 22.19 (-49.27283d)<br>Equinox: J2000 |                             |  |                          |                                |  | V=18                                              |        | Reference Frame: SIMBAD                 |  |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                  |                                                                                    |                             |  |                          |                                |  |                                                   |        |                                         |  |       |
|               |                                                                                                   |                  |                                                                                    |                             |  |                          |                                |  |                                                   |        |                                         |  |       |
| Exposures     | #                                                                                                 | Label            | Target                                                                             | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                   |  | Special Reqs.                                     | Groups | Exp. Time (Total)/[Actual Dur.]         |  | Orbit |
|               | 1                                                                                                 | F140W            | (72) NAME-EL-GO RDO-SE                                                             | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  |  | POS TARG 7.317,0.90825;<br>GS ACQ SCENARIO SINGLE |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]   |
|               | 2                                                                                                 | F105W            | (72) NAME-EL-GO RDO-SE                                                             | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=9;<br>SAMP-SEQ=SPAR S50  |  | SAME POS AS 1                                     |        | 402.935899 Secs (402.936 Secs)<br>[==>] |  | [1]   |
|               | 3                                                                                                 | F105W            | (72) NAME-EL-GO RDO-SE                                                             | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S50  |  | POS TARG 0.47425, 0.6055                          |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]   |
|               | 4                                                                                                 | F140W            | (72) NAME-EL-GO RDO-SE                                                             | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=9;<br>SAMP-SEQ=SPAR S25  |  | SAME POS AS 3                                     |        | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]   |
|               | 5                                                                                                 | F125W            | (72) NAME-EL-GO RDO-SE                                                             | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  |  | POS TARG 0,0                                      |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]   |
|               | 6                                                                                                 | F160W            | (72) NAME-EL-GO RDO-SE                                                             | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR S50 |  | SAME POS AS 5                                     |        | 502.936801 Secs (502.937 Secs)<br>[==>] |  | [1]   |
|               | 7                                                                                                 | F160W            | (72) NAME-EL-GO RDO-SE                                                             | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR S50 |  | POS TARG 6.48275, 0.30275                         |        | 502.936801 Secs (502.937 Secs)<br>[==>] |  | [1]   |
|               | 8                                                                                                 | F125W            | (72) NAME-EL-GO RDO-SE                                                             | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=9;<br>SAMP-SEQ=SPAR S25  |  | SAME POS AS 7                                     |        | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]   |



# Proposal 14096 - 8 RXC-J0600.1-2007 ACS1 (K1) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                                                                                                          |                  |                                                                                   |                          |        |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------|--------------------------|--------|
| Visit                                                                                             | <b>Proposal 14096, 8 RXC-J0600.1-2007 ACS1 (K1), completed</b> <span>Mon Aug 07 18:08:10 GMT 2017</span>                                                                 |                  |                                                                                   |                          |        |
|                                                                                                   | <b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC<br>Special Requirements: SCHED 100%; ORIENT 44D TO 44 D                         |                  |                                                                                   |                          |        |
| Diagnostics                                                                                       | (8 RXC-J0600.1-2007 ACS1 (K1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(8 RXC-J0600.1-2007 ACS1 (K1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |                  |                                                                                   |                          |        |
|                                                                                                   |                                                                                                                                                                          |                  |                                                                                   |                          |        |
| Fixed Targets                                                                                     | #                                                                                                                                                                        | Name             | Target Coordinates                                                                | Targ. Coord. Corrections | Fluxes |
|                                                                                                   | (8)                                                                                                                                                                      | RXC-J0600.1-2007 | RA: 06 00 9.7725 (90.0407188d)<br>Dec: -20 08 8.94 (-20.13582d)<br>Equinox: J2000 |                          | V=18   |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                                                                                                          |                  |                                                                                   |                          |        |
|                                                                                                   |                                                                                                                                                                          |                  |                                                                                   |                          |        |

# Proposal 14096 - 8 RXC-J0600.1-2007 ACS1 (K1) - RELICS: Reionization Lensing Cluster Survey

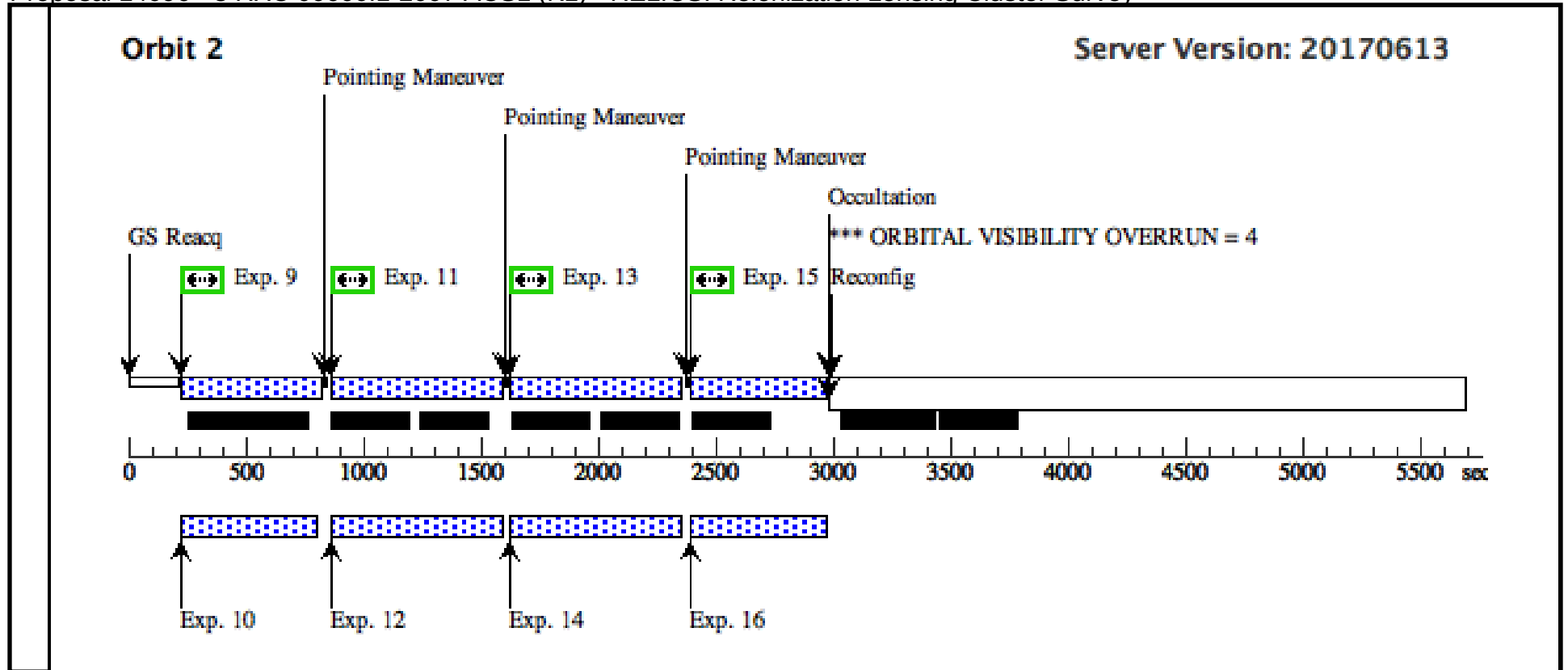
| Exposures | #  | Label | Target               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.           | Groups                                                       | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|----|-------|----------------------|-----------------------------|---------------|--------------------------------|-------------------------|--------------------------------------------------------------|-----------------------------------------|-------|
|           | 1  |       | (8) RXC-J0600.1-2007 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                |                         | Prime + Parallel Group 1-2 in 8 RXC-J0600.1-2007 ACS1 (K1)   | 283 Secs (283 Secs)<br>[==>]            | [1]   |
|           | 2  |       | ANY                  | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 1-2 in 8 RXC-J0600.1-2007 ACS1 (K1)   | 367 Secs (367 Secs)<br>[==>]            | [1]   |
|           | 3  |       | (8) RXC-J0600.1-2007 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group 3-4 in 8 RXC-J0600.1-2007 ACS1 (K1)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 4  |       | ANY                  | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 3-4 in 8 RXC-J0600.1-2007 ACS1 (K1)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 5  |       | (8) RXC-J0600.1-2007 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 5-6 in 8 RXC-J0600.1-2007 ACS1 (K1)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 6  |       | ANY                  | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 5-6 in 8 RXC-J0600.1-2007 ACS1 (K1)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 7  |       | (8) RXC-J0600.1-2007 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 7-8 in 8 RXC-J0600.1-2007 ACS1 (K1)   | 337 Secs (337 Secs)<br>[==>]            | [1]   |
|           | 8  |       | ANY                  | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 7-8 in 8 RXC-J0600.1-2007 ACS1 (K1)   | 463 Secs (463 Secs)<br>[==>]            | [1]   |
|           | 9  |       | (8) RXC-J0600.1-2007 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                |                         | Prime + Parallel Group 9-10 in 8 RXC-J0600.1-2007 ACS1 (K1)  | 454 Secs (454 Secs)<br>[==>]            | [2]   |
|           | 10 |       | ANY                  | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=12;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 9-10 in 8 RXC-J0600.1-2007 ACS1 (K1)  | 552.937252 Secs (552.937 Secs)<br>[==>] | [2]   |
|           | 11 |       | (8) RXC-J0600.1-2007 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group 11-12 in 8 RXC-J0600.1-2007 ACS1 (K1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 12 |       | ANY                  | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 11-12 in 8 RXC-J0600.1-2007 ACS1 (K1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |
|           | 13 |       | (8) RXC-J0600.1-2007 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 13-14 in 8 RXC-J0600.1-2007 ACS1 (K1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 14 |       | ANY                  | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 13-14 in 8 RXC-J0600.1-2007 ACS1 (K1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |

# Proposal 14096 - 8 RXC-J0600.1-2007 ACS1 (K1) - RELICS: Reionization Lensing Cluster Survey

|  |    |                          |                             |       |                                   |                                                                      |                                |     |
|--|----|--------------------------|-----------------------------|-------|-----------------------------------|----------------------------------------------------------------------|--------------------------------|-----|
|  | 15 | (8) RXC-J0600.1-20<br>07 | ACS/WFC, ACCUM, WFCENTER    | F814W | POS TARG 0.2717,8<br>.9367        | Prime + Parallel Gro<br>up 15-16 in 8 RXC-J<br>0600.1-2007 ACS1 (K1) | 457 Secs (457 Secs)            |     |
|  |    |                          |                             |       |                                   |                                                                      | [==>]                          | [2] |
|  | 16 | ANY                      | WFC3/IR, MULTIACCUM, IR-FIX | F125W | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | Prime + Parallel Gro<br>up 15-16 in 8 RXC-J<br>0600.1-2007 ACS1 (K1) | 552.937252 Secs (552.937 Secs) |     |
|  |    |                          |                             |       |                                   |                                                                      | [==>]                          | [2] |

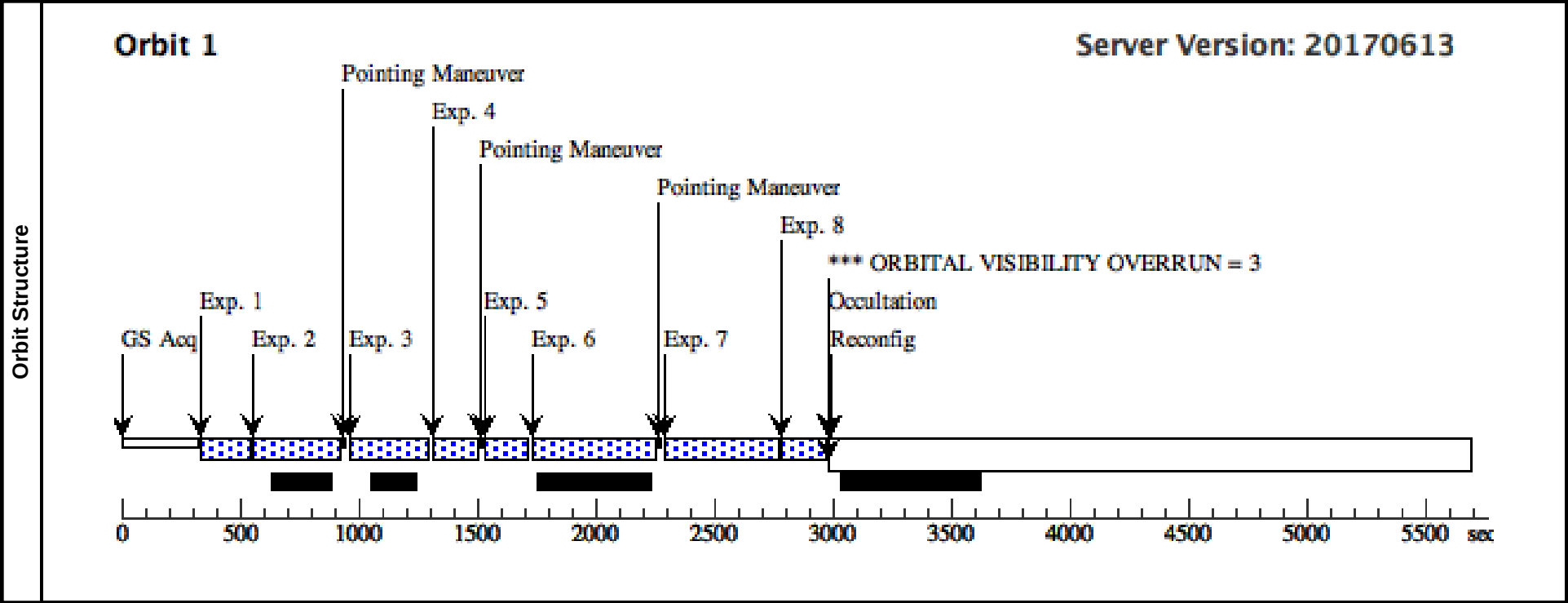
Server Version: 20170613





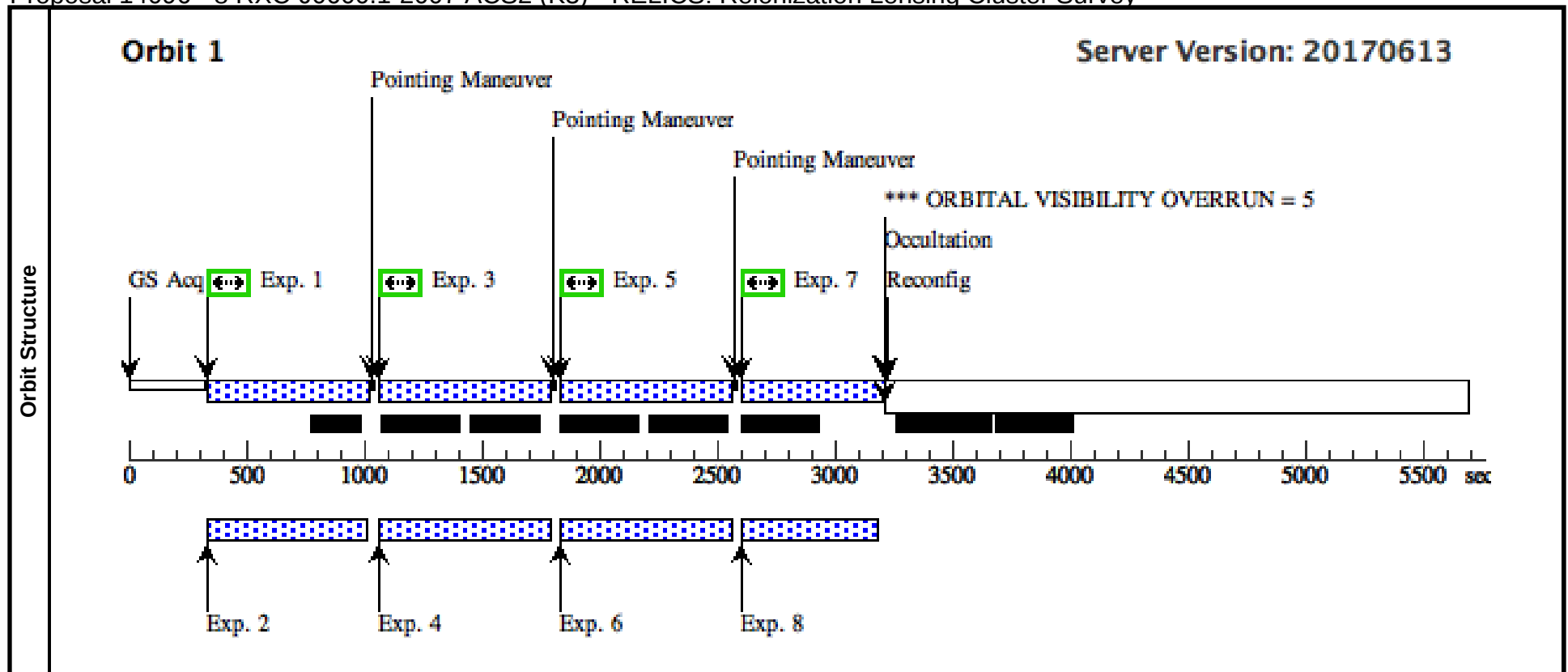
# Proposal 14096 - 8 RXC-J0600.1-2007 IR1 (K2) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                           |                  |                                                                                   |                             |               |                                   |                              |        |                                         |                         |                              |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------|--------|-----------------------------------------|-------------------------|------------------------------|
| Visit                                                                                             | Proposal 14096, 8 RXC-J0600.1-2007 IR1 (K2), completed                                    |                  |                                                                                   |                             |               |                                   |                              |        |                                         |                         | Mon Aug 07 18:08:10 GMT 2017 |
|                                                                                                   | Diagnostic Status: Warning                                                                |                  |                                                                                   |                             |               |                                   |                              |        |                                         |                         |                              |
|                                                                                                   | Scientific Instruments: WFC3/IR                                                           |                  |                                                                                   |                             |               |                                   |                              |        |                                         |                         |                              |
|                                                                                                   | Special Requirements: SCHED 100%; SAME ORIENT AS K1; AFTER K1 BY 1.9 Orbits TO 2.1 Orbits |                  |                                                                                   |                             |               |                                   |                              |        |                                         |                         |                              |
| Diagnostics                                                                                       | (8 RXC-J0600.1-2007 IR1 (K2)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN         |                  |                                                                                   |                             |               |                                   |                              |        |                                         |                         |                              |
| Fixed Targets                                                                                     | #                                                                                         | Name             | Target Coordinates                                                                |                             |               | Targ. Coord. Corrections          |                              | Fluxes |                                         | Miscellaneous           |                              |
|                                                                                                   | (8)                                                                                       | RXC-J0600.1-2007 | RA: 06 00 9.7725 (90.0407188d)<br>Dec: -20 08 8.94 (-20.13582d)<br>Equinox: J2000 |                             |               |                                   |                              | V=18   |                                         | Reference Frame: SIMBAD |                              |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                           |                  |                                                                                   |                             |               |                                   |                              |        |                                         |                         |                              |
| Exposures                                                                                         | #                                                                                         | Label            | Target                                                                            | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         |                         | Orbit                        |
|                                                                                                   | 1                                                                                         | F140W            | (8) RXC-J0600.1-2007                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                              |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 2                                                                                         | F105W            | (8) RXC-J0600.1-2007                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 3                                                                                         | F105W            | (8) RXC-J0600.1-2007                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |        | 302.934997 Secs (302.935 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 4                                                                                         | F140W            | (8) RXC-J0600.1-2007                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 5                                                                                         | F125W            | (8) RXC-J0600.1-2007                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 152.935381 Secs (152.935 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 6                                                                                         | F160W            | (8) RXC-J0600.1-2007                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 7                                                                                         | F160W            | (8) RXC-J0600.1-2007                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |                         | [1]                          |
|                                                                                                   | 8                                                                                         | F125W            | (8) RXC-J0600.1-2007                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |



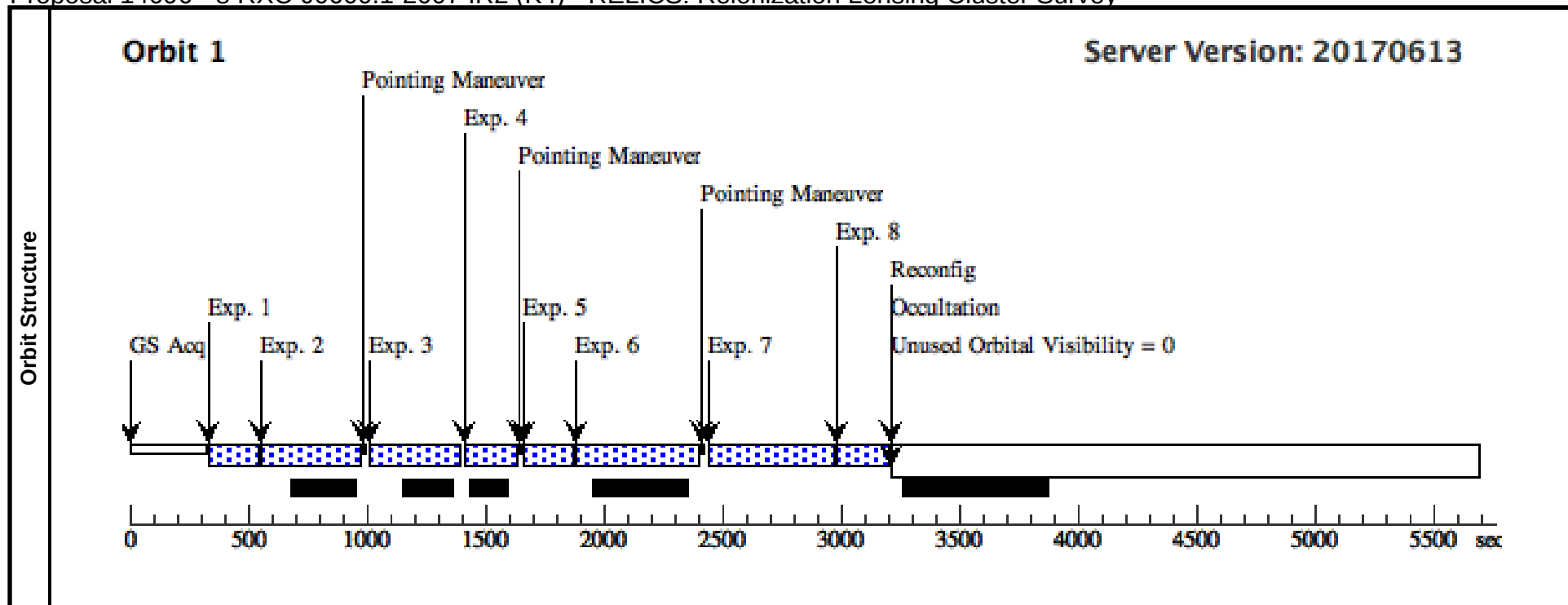
# Proposal 14096 - 8 RXC-J0600.1-2007 ACS2 (K3) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                    |                  |                                                                                   |                             |               |                                |                         |                                                               |                                         |       |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|-------------------------|---------------------------------------------------------------|-----------------------------------------|-------|
| Visit                                                                                             | Proposal 14096, 8 RXC-J0600.1-2007 ACS2 (K3), completed                            |                  |                                                                                   |                             |               |                                |                         |                                                               | Mon Aug 07 18:08:10 GMT 2017            |       |
|                                                                                                   | Diagnostic Status: Warning                                                         |                  |                                                                                   |                             |               |                                |                         |                                                               |                                         |       |
|                                                                                                   | Scientific Instruments: WFC3/IR, ACS/WFC                                           |                  |                                                                                   |                             |               |                                |                         |                                                               |                                         |       |
|                                                                                                   | Special Requirements: SCHED 30%; SAME ORIENT AS K1; AFTER K1 BY 33 D TO 60 D       |                  |                                                                                   |                             |               |                                |                         |                                                               |                                         |       |
| Diagnostics                                                                                       | (8 RXC-J0600.1-2007 ACS2 (K3)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |                  |                                                                                   |                             |               |                                |                         |                                                               |                                         |       |
| Fixed Targets                                                                                     | #                                                                                  | Name             | Target Coordinates                                                                | Targ. Coord. Corrections    |               | Fluxes                         |                         | Miscellaneous                                                 |                                         |       |
|                                                                                                   | (8)                                                                                | RXC-J0600.1-2007 | RA: 06 00 9.7725 (90.0407188d)<br>Dec: -20 08 8.94 (-20.13582d)<br>Equinox: J2000 |                             |               | V=18                           |                         | Reference Frame: SIMBAD                                       |                                         |       |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                    |                  |                                                                                   |                             |               |                                |                         |                                                               |                                         |       |
| Exposures                                                                                         | #                                                                                  | Label            | Target                                                                            | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.           | Groups                                                        | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|                                                                                                   | 1                                                                                  |                  | (8) RXC-J0600.1-2007                                                              | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                |                         | Prime + Parallel Group up 1-2 in 8 RXC-J0600.1-2007 ACS2 (K3) | 485 Secs (485 Secs)<br>[==>]            | [1]   |
|                                                                                                   | 2                                                                                  |                  | ANY                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=14;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group up 1-2 in 8 RXC-J0600.1-2007 ACS2 (K3) | 652.938154 Secs (652.938 Secs)<br>[==>] | [1]   |
|                                                                                                   | 3                                                                                  |                  | (8) RXC-J0600.1-2007                                                              | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group up 3-4 in 8 RXC-J0600.1-2007 ACS2 (K3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|                                                                                                   | 4                                                                                  |                  | ANY                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group up 3-4 in 8 RXC-J0600.1-2007 ACS2 (K3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|                                                                                                   | 5                                                                                  |                  | (8) RXC-J0600.1-2007                                                              | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group up 5-6 in 8 RXC-J0600.1-2007 ACS2 (K3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|                                                                                                   | 6                                                                                  |                  | ANY                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group up 5-6 in 8 RXC-J0600.1-2007 ACS2 (K3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|                                                                                                   | 7                                                                                  |                  | (8) RXC-J0600.1-2007                                                              | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                | POS TARG 0.2717,8 .9367 | Prime + Parallel Group up 7-8 in 8 RXC-J0600.1-2007 ACS2 (K3) | 484 Secs (484 Secs)<br>[==>]            | [1]   |
|                                                                                                   | 8                                                                                  |                  | ANY                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=12;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group up 7-8 in 8 RXC-J0600.1-2007 ACS2 (K3) | 552.937252 Secs (552.937 Secs)<br>[==>] | [1]   |



# Proposal 14096 - 8 RXC-J0600.1-2007 IR2 (K4) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                  |                                                                                   |                             |  |                          |                                   |                          |        |                                 |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------|-----------------------------|--|--------------------------|-----------------------------------|--------------------------|--------|---------------------------------|-----------------------------------------|-------|
| Visit         | Proposal 14096, 8 RXC-J0600.1-2007 IR2 (K4), completed                                            |                  |                                                                                   |                             |  |                          |                                   |                          |        |                                 | Mon Aug 07 18:08:10 GMT 2017            |       |
|               | Diagnostic Status: No Diagnostics                                                                 |                  |                                                                                   |                             |  |                          |                                   |                          |        |                                 |                                         |       |
|               | Scientific Instruments: WFC3/IR                                                                   |                  |                                                                                   |                             |  |                          |                                   |                          |        |                                 |                                         |       |
|               | Special Requirements: SCHED 30%; SAME ORIENT AS K1; AFTER K3 BY 0.9 Orbits TO 1.1 Orbits          |                  |                                                                                   |                             |  |                          |                                   |                          |        |                                 |                                         |       |
| Fixed Targets | #                                                                                                 | Name             | Target Coordinates                                                                |                             |  | Targ. Coord. Corrections |                                   | Fluxes                   |        | Miscellaneous                   |                                         |       |
|               | (8)                                                                                               | RXC-J0600.1-2007 | RA: 06 00 9.7725 (90.0407188d)<br>Dec: -20 08 8.94 (-20.13582d)<br>Equinox: J2000 |                             |  |                          |                                   | V=18                     |        | Reference Frame: SIMBAD         |                                         |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                  |                                                                                   |                             |  |                          |                                   |                          |        |                                 |                                         |       |
|               |                                                                                                   |                  |                                                                                   |                             |  |                          |                                   |                          |        |                                 |                                         |       |
| Exposures     | #                                                                                                 | Label            | Target                                                                            | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                      | Special Reqs.            | Groups | Exp. Time (Total)/[Actual Dur.] |                                         | Orbit |
|               | 1                                                                                                 | F140W            | (8) RXC-J0600.1-2007                                                              | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.90825   |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                 | F105W            | (8) RXC-J0600.1-2007                                                              | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1            |        |                                 | 402.935899 Secs (402.936 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                 | F105W            | (8) RXC-J0600.1-2007                                                              | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,0.6055  |        |                                 | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                 | F140W            | (8) RXC-J0600.1-2007                                                              | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3            |        |                                 | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                 | F125W            | (8) RXC-J0600.1-2007                                                              | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0             |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                 | F160W            | (8) RXC-J0600.1-2007                                                              | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5            |        |                                 | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                 | F160W            | (8) RXC-J0600.1-2007                                                              | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,0.30275 |        |                                 | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                 | F125W            | (8) RXC-J0600.1-2007                                                              | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7            |        |                                 | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |



# Proposal 14096 - 9 PSZ2-G209.79+10.23 ACS1 (L1) - RELICS: Reionization Lensing Cluster Survey

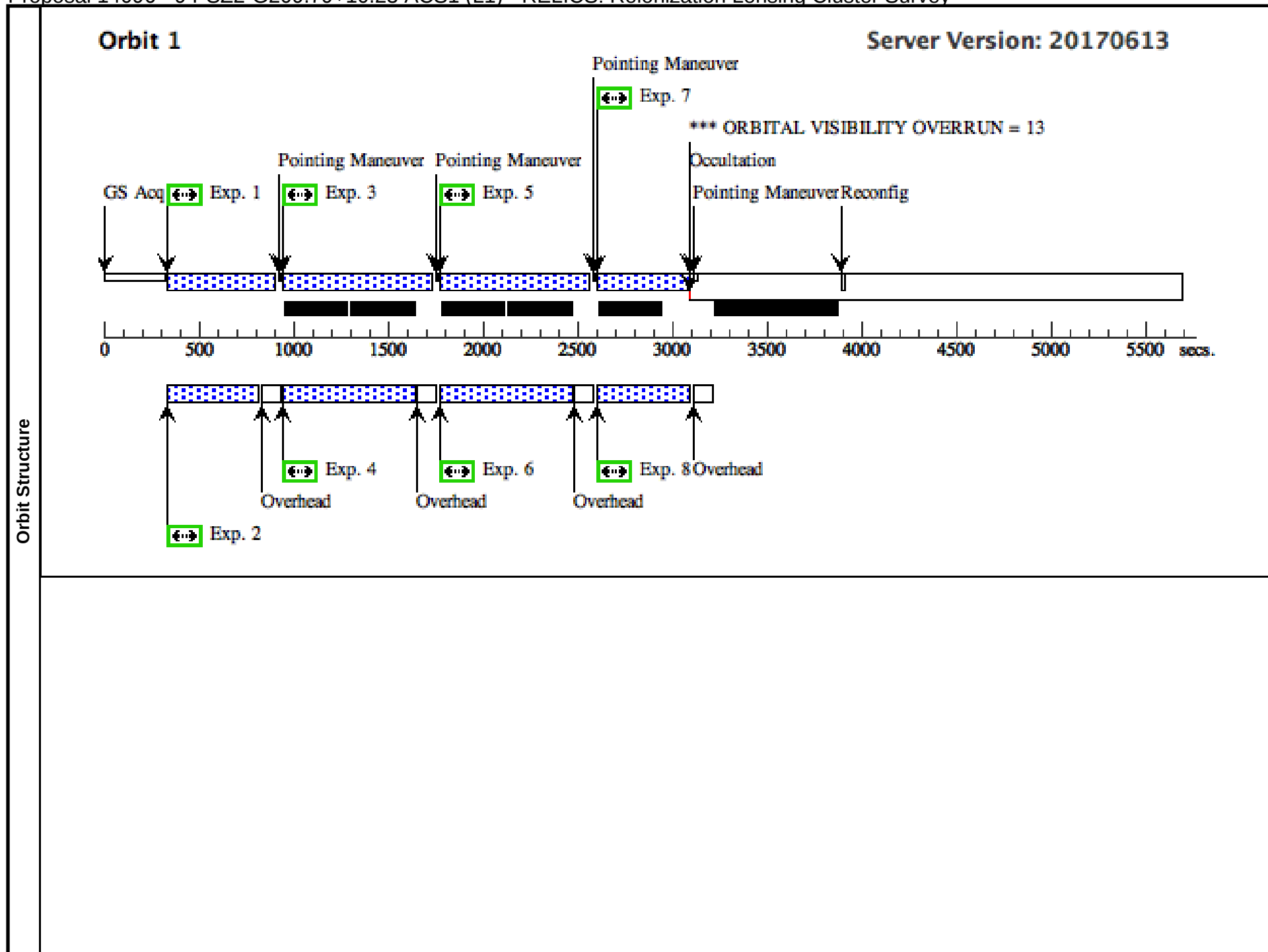
|               |                                                                                      |                    |                                                                                    |                          |        |                              |
|---------------|--------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------|--------------------------|--------|------------------------------|
| Visit         | Proposal 14096, 9 PSZ2-G209.79+10.23 ACS1 (L1), completed                            |                    |                                                                                    |                          |        | Mon Aug 07 18:08:10 GMT 2017 |
|               | Diagnostic Status: Warning                                                           |                    |                                                                                    |                          |        |                              |
|               | Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC                                  |                    |                                                                                    |                          |        |                              |
|               | Special Requirements: SCHED 70%                                                      |                    |                                                                                    |                          |        |                              |
| Diagnostics   | (9 PSZ2-G209.79+10.23 ACS1 (L1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |                    |                                                                                    |                          |        |                              |
|               | (9 PSZ2-G209.79+10.23 ACS1 (L1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |                    |                                                                                    |                          |        |                              |
| Fixed Targets | #                                                                                    | Name               | Target Coordinates                                                                 | Targ. Coord. Corrections | Fluxes | Miscellaneous                |
|               | (9)                                                                                  | PSZ2-G209.79+10.23 | RA: 07 22 23.0000 (110.5958333d)<br>Dec: +07 24 30.00 (7.40833d)<br>Equinox: J2000 |                          | V=18   | Reference Frame: ICRS        |

# Proposal 14096 - 9 PSZ2-G209.79+10.23 ACS1 (L1) - RELICS: Reionization Lensing Cluster Survey

| Exposures | #  | Label | Target                 | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.           | Groups                                                         | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|----|-------|------------------------|-----------------------------|---------------|--------------------------------|-------------------------|----------------------------------------------------------------|-----------------------------------------|-------|
|           | 1  |       | (9) PSZ2-G209.79+10.23 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                |                         | Prime + Parallel Group 1-2 in 9 PSZ2-G209.79+10.23 ACS1 (L1)   | 369 Secs (369 Secs)<br>[==>]            | [1]   |
|           | 2  |       | ANY                    | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 1-2 in 9 PSZ2-G209.79+10.23 ACS1 (L1)   | 453 Secs (453 Secs)<br>[==>]            | [1]   |
|           | 3  |       | (9) PSZ2-G209.79+10.23 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group 3-4 in 9 PSZ2-G209.79+10.23 ACS1 (L1)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 4  |       | ANY                    | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 3-4 in 9 PSZ2-G209.79+10.23 ACS1 (L1)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 5  |       | (9) PSZ2-G209.79+10.23 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 5-6 in 9 PSZ2-G209.79+10.23 ACS1 (L1)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 6  |       | ANY                    | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 5-6 in 9 PSZ2-G209.79+10.23 ACS1 (L1)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 7  |       | (9) PSZ2-G209.79+10.23 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 7-8 in 9 PSZ2-G209.79+10.23 ACS1 (L1)   | 369 Secs (369 Secs)<br>[==>]            | [1]   |
|           | 8  |       | ANY                    | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 7-8 in 9 PSZ2-G209.79+10.23 ACS1 (L1)   | 495 Secs (495 Secs)<br>[==>]            | [1]   |
|           | 9  |       | (9) PSZ2-G209.79+10.23 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                |                         | Prime + Parallel Group 9-10 in 9 PSZ2-G209.79+10.23 ACS1 (L1)  | 515 Secs (515 Secs)<br>[==>]            | [2]   |
|           | 10 |       | ANY                    | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=13;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 9-10 in 9 PSZ2-G209.79+10.23 ACS1 (L1)  | 602.937703 Secs (602.938 Secs)<br>[==>] | [2]   |
|           | 11 |       | (9) PSZ2-G209.79+10.23 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group 11-12 in 9 PSZ2-G209.79+10.23 ACS1 (L1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 12 |       | ANY                    | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 11-12 in 9 PSZ2-G209.79+10.23 ACS1 (L1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |
|           | 13 |       | (9) PSZ2-G209.79+10.23 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 13-14 in 9 PSZ2-G209.79+10.23 ACS1 (L1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 14 |       | ANY                    | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 13-14 in 9 PSZ2-G209.79+10.23 ACS1 (L1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |

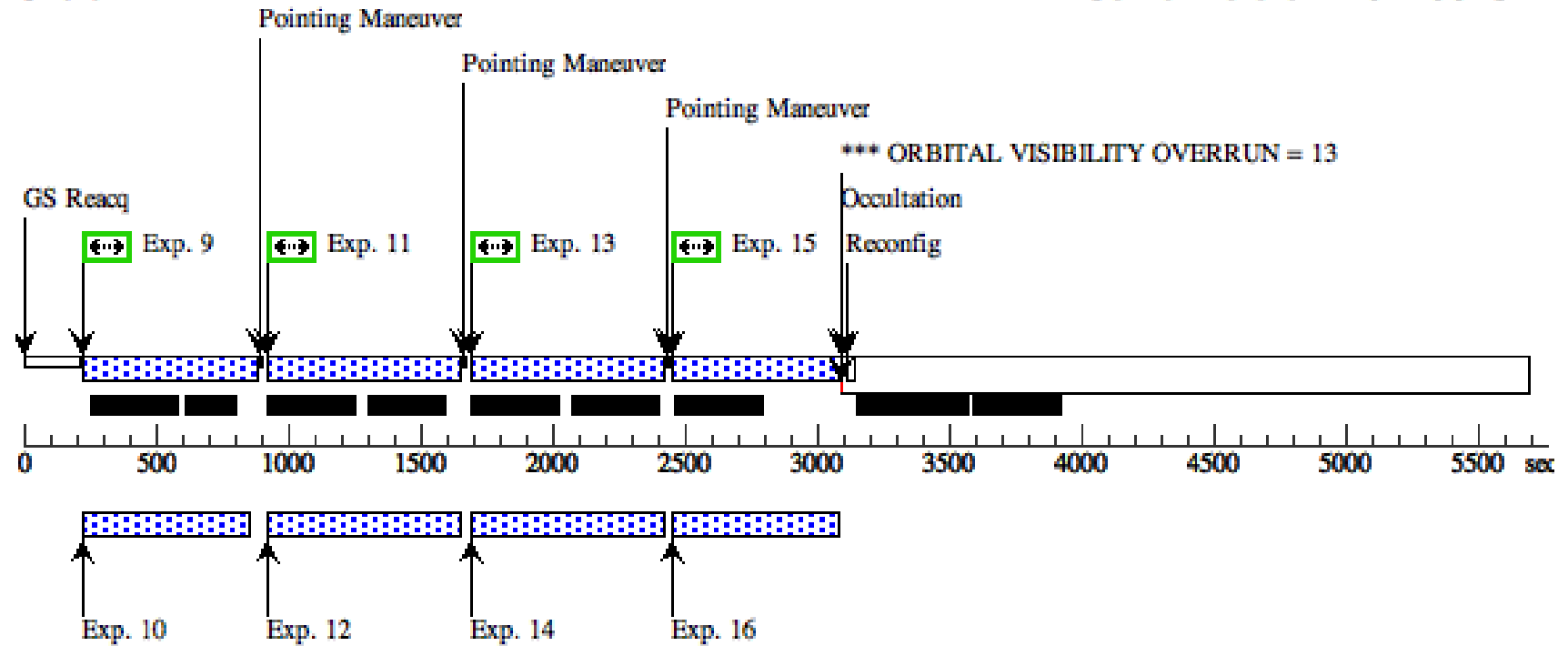
Proposal 14096 - 9 PSZ2-G209.79+10.23 ACS1 (L1) - RELICS: Reionization Lensing Cluster Survey

|  |    |                                                               |                                   |                                   |                                                                 |                                         |     |
|--|----|---------------------------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------------------------------------|-----------------------------------------|-----|
|  | 15 | (9) PSZ2-G209.79+10.23 ACS/WFC, ACCUM, WFCENTER F814W<br>0.23 |                                   | POS TARG 0.2717,8<br>.9367        | Prime + Parallel Group 15-16 in 9 PSZ2-G209.79+10.23 ACS 1 (L1) | 514 Secs (514 Secs)<br>[==>]            | [2] |
|  | 16 | ANY                                                           | WFC3/IR, MULTIACCUM, IR-FIX F125W | NSAMP=13;<br>SAMP-SEQ=SPAR<br>S50 | Prime + Parallel Group 15-16 in 9 PSZ2-G209.79+10.23 ACS 1 (L1) | 602.937703 Secs (602.938 Secs)<br>[==>] | [2] |



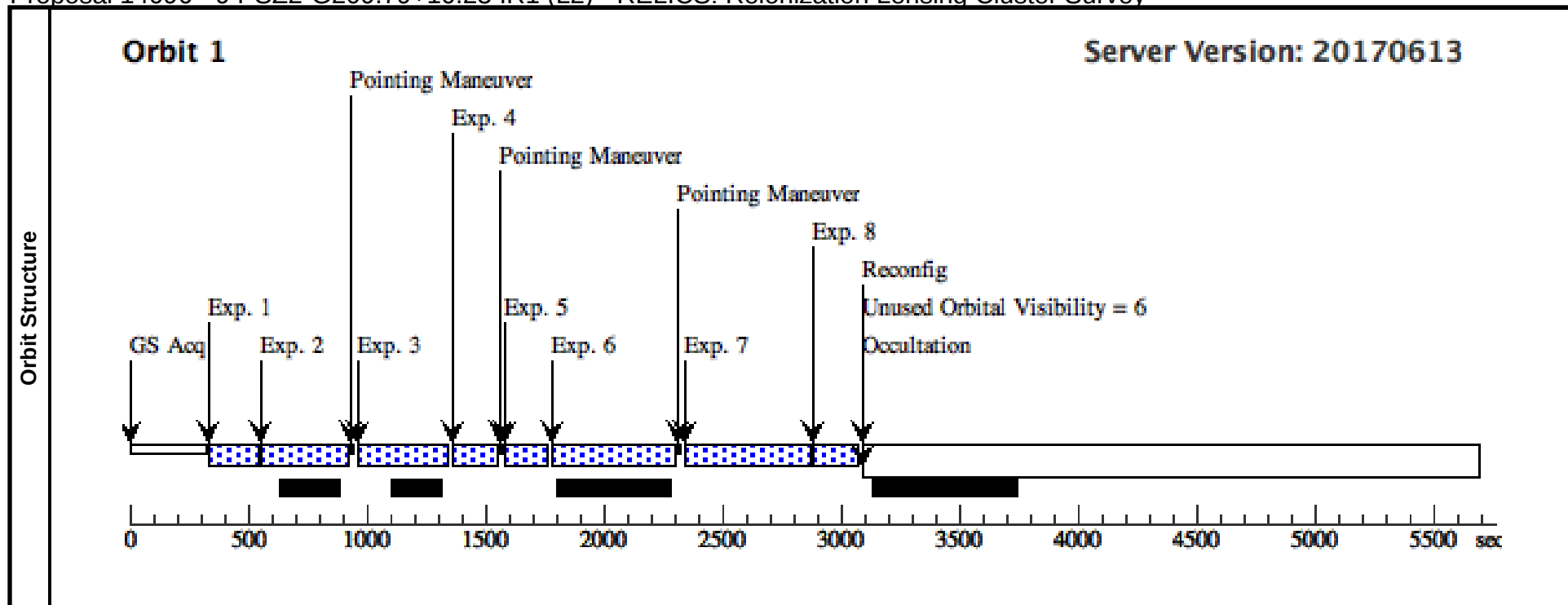
## Orbit 2

Server Version: 20170613



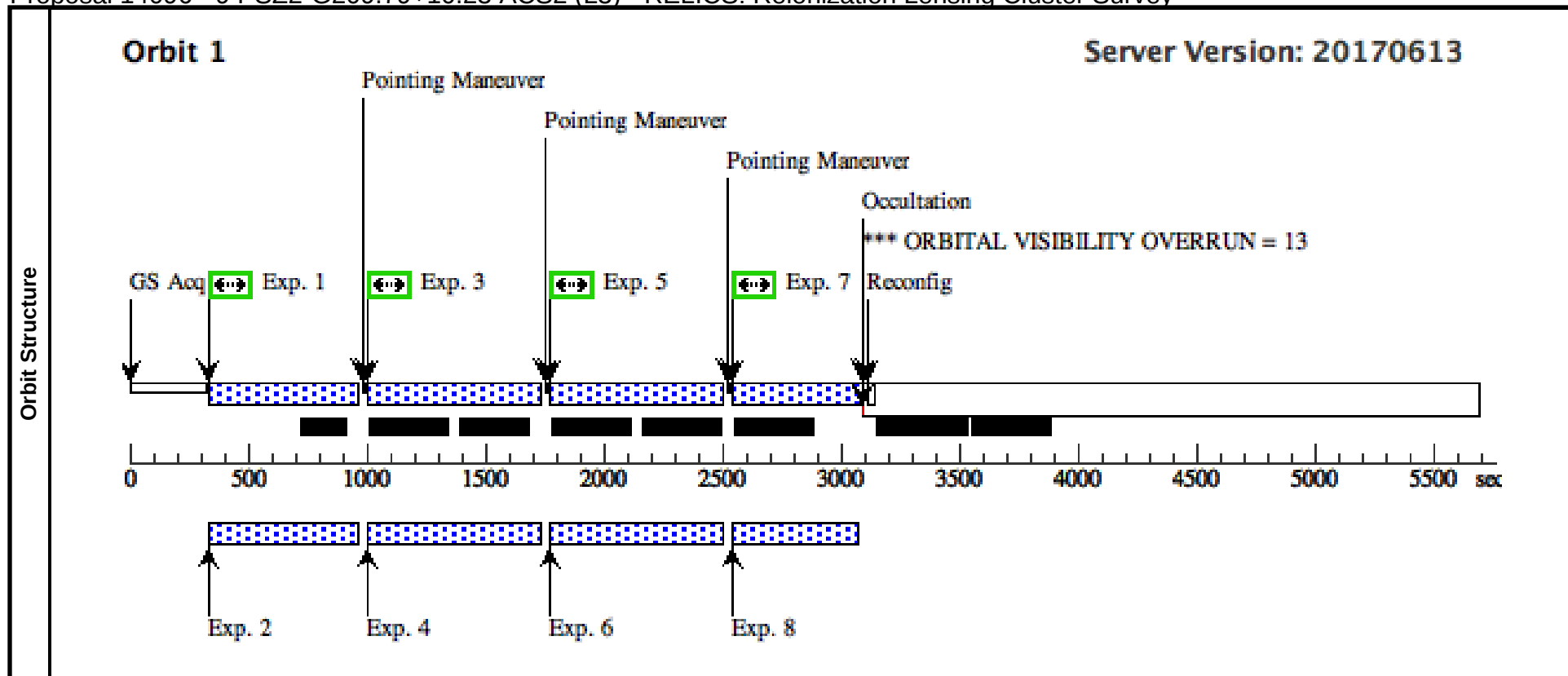
# Proposal 14096 - 9 PSZ2-G209.79+10.23 IR1 (L2) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                        |                        |                                                                                    |                             |       |                                   |                                  |                             |                              |                                |                                 |     |       |
|---------------|----------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------|-----------------------------|-------|-----------------------------------|----------------------------------|-----------------------------|------------------------------|--------------------------------|---------------------------------|-----|-------|
| Visit         | Proposal 14096, 9 PSZ2-G209.79+10.23 IR1 (L2), completed                               |                        |                                                                                    |                             |       |                                   |                                  |                             |                              |                                | Mon Aug 07 18:08:10 GMT 2017    |     |       |
|               | Diagnostic Status: No Diagnostics                                                      |                        |                                                                                    |                             |       |                                   |                                  |                             |                              |                                |                                 |     |       |
|               | Scientific Instruments: WFC3/IR                                                        |                        |                                                                                    |                             |       |                                   |                                  |                             |                              |                                |                                 |     |       |
|               | Special Requirements: SCHED 70%; SAME ORIENT AS L1; AFTER L1 BY 2 Orbits TO 2.1 Orbits |                        |                                                                                    |                             |       |                                   |                                  |                             |                              |                                |                                 |     |       |
| Fixed Targets | #                                                                                      | Name                   | Target Coordinates                                                                 |                             |       | Targ. Coord. Corrections          |                                  | Fluxes                      |                              | Miscellaneous                  |                                 |     |       |
|               | (9)                                                                                    | PSZ2-G209.79+10.23     | RA: 07 22 23.0000 (110.5958333d)<br>Dec: +07 24 30.00 (7.40833d)<br>Equinox: J2000 |                             |       |                                   |                                  | V=18                        |                              | Reference Frame: ICRS          |                                 |     |       |
| Exposures     | #                                                                                      | Label                  | Target                                                                             | Config,Mode,Aperture        |       | Spectral Els.                     | Opt. Params.                     |                             | Special Reqs.                | Groups                         | Exp. Time (Total)/[Actual Dur.] |     | Orbit |
|               | 1                                                                                      | F140W                  | (9) PSZ2-G209.79+10.23                                                             | WFC3/IR, MULTIACCUM, IR-FIX |       | F140W                             | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25 |                             |                              |                                | 177.935896 Secs (177.936 Secs)  |     |       |
|               |                                                                                        |                        |                                                                                    |                             |       |                                   |                                  |                             |                              |                                | [==>]                           | [1] |       |
|               | 2                                                                                      | F105W                  | (9) PSZ2-G209.79+10.23                                                             | WFC3/IR, MULTIACCUM, IR-FIX |       | F105W                             | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50 |                             | SAME POS AS 1                |                                | 352.935448 Secs (352.935 Secs)  |     |       |
|               |                                                                                        |                        |                                                                                    |                             |       |                                   |                                  |                             |                              |                                | [==>]                           | [1] |       |
|               | 3                                                                                      | F105W                  | (9) PSZ2-G209.79+10.23                                                             | WFC3/IR, MULTIACCUM, IR-FIX |       | F105W                             | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50 |                             | POS TARG 6.84275,<br>0.30275 |                                | 352.935448 Secs (352.935 Secs)  |     |       |
|               |                                                                                        |                        |                                                                                    |                             |       |                                   |                                  |                             |                              |                                | [==>]                           | [1] |       |
|               | 4                                                                                      | F140W                  | (9) PSZ2-G209.79+10.23                                                             | WFC3/IR, MULTIACCUM, IR-FIX |       | F140W                             | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25 |                             | SAME POS AS 3                |                                | 177.935896 Secs (177.936 Secs)  |     |       |
|               |                                                                                        |                        |                                                                                    |                             |       |                                   |                                  |                             |                              |                                | [==>]                           | [1] |       |
|               | 5                                                                                      | F125W                  | (9) PSZ2-G209.79+10.23                                                             | WFC3/IR, MULTIACCUM, IR-FIX |       | F125W                             | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25 |                             | POS TARG 7.317,0.<br>90825   |                                | 152.935381 Secs (152.935 Secs)  |     |       |
|               |                                                                                        |                        |                                                                                    |                             |       |                                   |                                  |                             |                              | [==>]                          | [1]                             |     |       |
| 6             | F160W                                                                                  | (9) PSZ2-G209.79+10.23 | WFC3/IR, MULTIACCUM, IR-FIX                                                        |                             | F160W | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 |                                  | SAME POS AS 5               |                              | 502.936801 Secs (502.937 Secs) |                                 |     |       |
|               |                                                                                        |                        |                                                                                    |                             |       |                                   |                                  |                             |                              | [==>]                          | [1]                             |     |       |
| 7             | F160W                                                                                  | (9) PSZ2-G209.79+10.23 | WFC3/IR, MULTIACCUM, IR-FIX                                                        |                             | F160W | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 |                                  | POS TARG 0.47425,<br>0.6055 |                              | 502.936801 Secs (502.937 Secs) |                                 |     |       |
|               |                                                                                        |                        |                                                                                    |                             |       |                                   |                                  |                             |                              | [==>]                          | [1]                             |     |       |
| 8             | F125W                                                                                  | (9) PSZ2-G209.79+10.23 | WFC3/IR, MULTIACCUM, IR-FIX                                                        |                             | F125W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                                  | SAME POS AS 7               |                              | 177.935896 Secs (177.936 Secs) |                                 |     |       |
|               |                                                                                        |                        |                                                                                    |                             |       |                                   |                                  |                             |                              | [==>]                          | [1]                             |     |       |



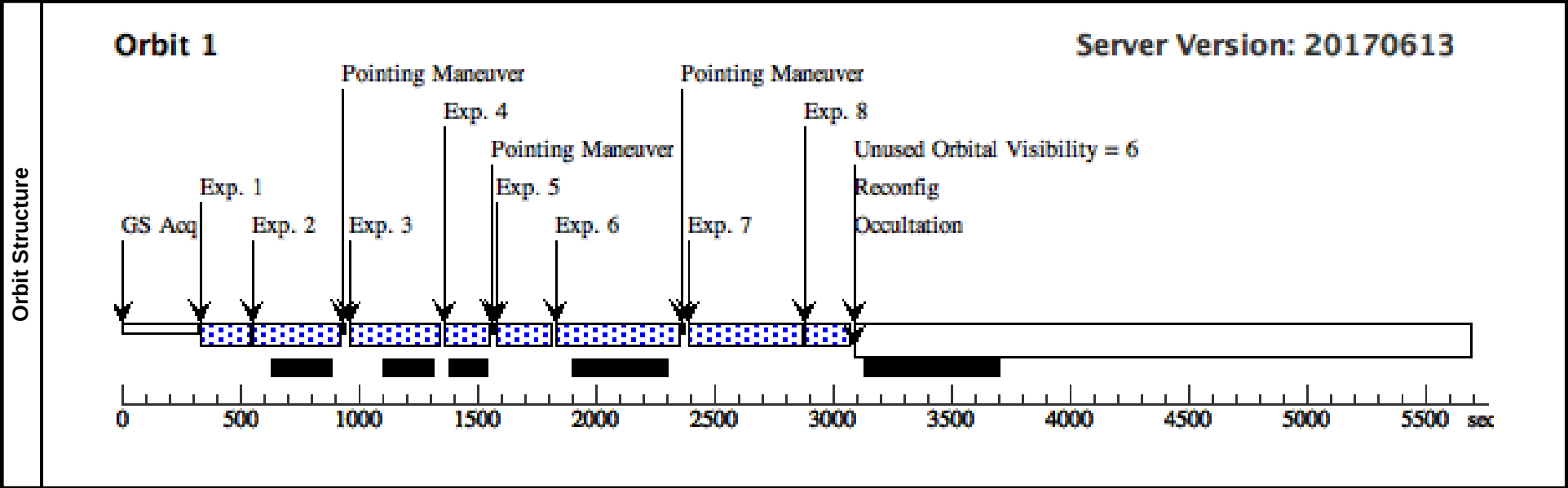
# Proposal 14096 - 9 PSZ2-G209.79+10.23 ACS2 (L3) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                                                                               |                    |                                                                                    |                             |               |                                |                         |                                                              |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|-------------------------|--------------------------------------------------------------|-----------------------------------------|-------|
| Visit         | <b>Proposal 14096, 9 PSZ2-G209.79+10.23 ACS2 (L3), completed</b> <span>Mon Aug 07 18:08:10 GMT 2017</span>                                                    |                    |                                                                                    |                             |               |                                |                         |                                                              |                                         |       |
|               | <b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/IR, ACS/WFC<br>Special Requirements: SCHED 70%; SAME ORIENT AS L1; AFTER L1 BY 40 D TO 60 D |                    |                                                                                    |                             |               |                                |                         |                                                              |                                         |       |
| Diagnostics   | (9 PSZ2-G209.79+10.23 ACS2 (L3)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                          |                    |                                                                                    |                             |               |                                |                         |                                                              |                                         |       |
|               |                                                                                                                                                               |                    |                                                                                    |                             |               |                                |                         |                                                              |                                         |       |
| Fixed Targets | #                                                                                                                                                             | Name               | Target Coordinates                                                                 | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                  |                         |                                                              |                                         |       |
|               | (9)                                                                                                                                                           | PSZ2-G209.79+10.23 | RA: 07 22 23.0000 (110.5958333d)<br>Dec: +07 24 30.00 (7.40833d)<br>Equinox: J2000 |                             | V=18          | Reference Frame: ICRS          |                         |                                                              |                                         |       |
| Exposures     | #                                                                                                                                                             | Label              | Target                                                                             | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.           | Groups                                                       | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                                             |                    | (9) PSZ2-G209.79+10.23                                                             | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                |                         | Prime + Parallel Group 1-2 in 9 PSZ2-G209.79+10.23 ACS2 (L3) | 429 Secs (429 Secs)<br>[==>]            | [1]   |
|               | 2                                                                                                                                                             |                    | ANY                                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=13;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 1-2 in 9 PSZ2-G209.79+10.23 ACS2 (L3) | 602.937703 Secs (602.938 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                                             |                    | (9) PSZ2-G209.79+10.23                                                             | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group 3-4 in 9 PSZ2-G209.79+10.23 ACS2 (L3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 4                                                                                                                                                             |                    | ANY                                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 3-4 in 9 PSZ2-G209.79+10.23 ACS2 (L3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                                             |                    | (9) PSZ2-G209.79+10.23                                                             | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 5-6 in 9 PSZ2-G209.79+10.23 ACS2 (L3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 6                                                                                                                                                             |                    | ANY                                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 5-6 in 9 PSZ2-G209.79+10.23 ACS2 (L3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                                                                             |                    | (9) PSZ2-G209.79+10.23                                                             | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 7-8 in 9 PSZ2-G209.79+10.23 ACS2 (L3) | 429 Secs (429 Secs)<br>[==>]            | [1]   |
|               | 8                                                                                                                                                             |                    | ANY                                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=11;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 7-8 in 9 PSZ2-G209.79+10.23 ACS2 (L3) | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |



# Proposal 14096 - 9 PSZ2-G209.79+10.23 IR2 (L4) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                                                                                       |                    |                                                                                    |                             |               |                                   |                          |        |                                         |       |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|--------------------------|--------|-----------------------------------------|-------|
| Visit         | <b>Proposal 14096, 9 PSZ2-G209.79+10.23 IR2 (L4), completed</b> <span style="float: right;">Mon Aug 07 18:08:10 GMT 2017</span>                                       |                    |                                                                                    |                             |               |                                   |                          |        |                                         |       |
|               | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 70%; SAME ORIENT AS L1; AFTER L3 BY 1 Orbits TO 1.1 Orbits |                    |                                                                                    |                             |               |                                   |                          |        |                                         |       |
| Fixed Targets | #                                                                                                                                                                     | Name               | Target Coordinates                                                                 | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                     |                          |        |                                         |       |
|               | (9)                                                                                                                                                                   | PSZ2-G209.79+10.23 | RA: 07 22 23.0000 (110.5958333d)<br>Dec: +07 24 30.00 (7.40833d)<br>Equinox: J2000 |                             | V=18          | Reference Frame: ICRS             |                          |        |                                         |       |
| Exposures     | #                                                                                                                                                                     | Label              | Target                                                                             | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.            | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                                                     | F140W              | (9) PSZ2-G209.79+10.23                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                                                                                     | F105W              | (9) PSZ2-G209.79+10.23                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1            |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                                                     | F105W              | (9) PSZ2-G209.79+10.23                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,0.6055  |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                                                                                     | F140W              | (9) PSZ2-G209.79+10.23                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3            |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                                                     | F125W              | (9) PSZ2-G209.79+10.23                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0             |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                                                                                     | F160W              | (9) PSZ2-G209.79+10.23                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5            |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                                                                                     | F160W              | (9) PSZ2-G209.79+10.23                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,0.30275 |        | 452.93635 Secs (452.936 Secs)<br>[==>]  | [1]   |
|               | 8                                                                                                                                                                     | F125W              | (9) PSZ2-G209.79+10.23                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7            |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |



# Proposal 14096 - 10 PLCKESZ-G171.9-40.7 ACS1 (M1) - RELICS: Reionization Lensing Cluster Survey

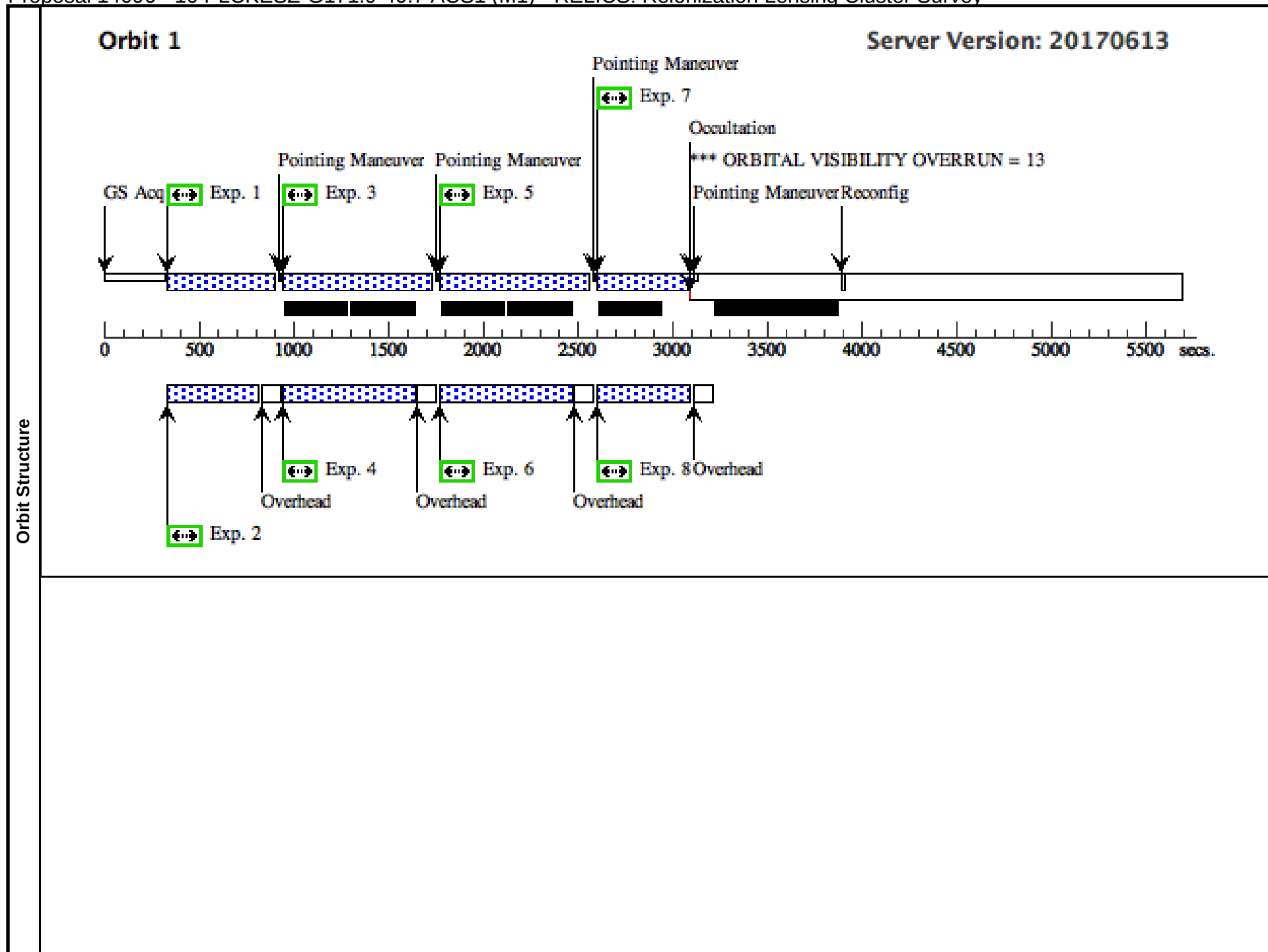
|                                                                                                   |                                                                                                                                                                                  |                     |                                                                                   |                          |        |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------|--------------------------|--------|
| Visit                                                                                             | <b>Proposal 14096, 10 PLCKESZ-G171.9-40.7 ACS1 (M1), completed</b> <span>Mon Aug 07 18:08:10 GMT 2017</span>                                                                     |                     |                                                                                   |                          |        |
|                                                                                                   | <b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC<br>Special Requirements: SCHED 70%                                                      |                     |                                                                                   |                          |        |
| Diagnostics                                                                                       | (10 PLCKESZ-G171.9-40.7 ACS1 (M1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(10 PLCKESZ-G171.9-40.7 ACS1 (M1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |                     |                                                                                   |                          |        |
|                                                                                                   |                                                                                                                                                                                  |                     |                                                                                   |                          |        |
| Fixed Targets                                                                                     | #                                                                                                                                                                                | Name                | Target Coordinates                                                                | Targ. Coord. Corrections | Fluxes |
|                                                                                                   | (10)                                                                                                                                                                             | PLCKESZ-G171.9-40.7 | RA: 03 12 56.9000 (48.2370833d)<br>Dec: +08 22 19.20 (8.37200d)<br>Equinox: J2000 |                          | V=18   |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                                                                                                                  |                     |                                                                                   |                          |        |
| Miscellaneous<br>Reference Frame: SIMBAD                                                          |                                                                                                                                                                                  |                     |                                                                                   |                          |        |

# Proposal 14096 - 10 PLCKESZ-G171.9-40.7 ACS1 (M1) - RELICS: Reionization Lensing Cluster Survey

| Exposures | #  | Label | Target                       | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.              | Groups                                                                      | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|----|-------|------------------------------|-----------------------------|---------------|-----------------------------------|----------------------------|-----------------------------------------------------------------------------|-----------------------------------------|-------|
|           | 1  |       | (10) PLCKESZ-G17<br>1.9-40.7 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   |                            | Prime + Parallel Gro<br>up 1-2 in 10 PLCKE<br>SZ-G171.9-40.7 AC<br>S1 (M1)  | 369 Secs (369 Secs)<br>[==>]            | [1]   |
|           | 2  |       | ANY                          | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                            | Prime + Parallel Gro<br>up 1-2 in 10 PLCKE<br>SZ-G171.9-40.7 AC<br>S1 (M1)  | 453 Secs (453 Secs)<br>[==>]            | [1]   |
|           | 3  |       | (10) PLCKESZ-G17<br>1.9-40.7 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.0741,2<br>.970  | Prime + Parallel Gro<br>up 3-4 in 10 PLCKE<br>SZ-G171.9-40.7 AC<br>S1 (M1)  | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 4  |       | ANY                          | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                            | Prime + Parallel Gro<br>up 3-4 in 10 PLCKE<br>SZ-G171.9-40.7 AC<br>S1 (M1)  | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 5  |       | (10) PLCKESZ-G17<br>1.9-40.7 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.1976,5<br>.9687 | Prime + Parallel Gro<br>up 5-6 in 10 PLCKE<br>SZ-G171.9-40.7 AC<br>S1 (M1)  | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 6  |       | ANY                          | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                            | Prime + Parallel Gro<br>up 5-6 in 10 PLCKE<br>SZ-G171.9-40.7 AC<br>S1 (M1)  | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 7  |       | (10) PLCKESZ-G17<br>1.9-40.7 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.2717,8<br>.9367 | Prime + Parallel Gro<br>up 7-8 in 10 PLCKE<br>SZ-G171.9-40.7 AC<br>S1 (M1)  | 369 Secs (369 Secs)<br>[==>]            | [1]   |
|           | 8  |       | ANY                          | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                            | Prime + Parallel Gro<br>up 7-8 in 10 PLCKE<br>SZ-G171.9-40.7 AC<br>S1 (M1)  | 495 Secs (495 Secs)<br>[==>]            | [1]   |
|           | 9  |       | (10) PLCKESZ-G17<br>1.9-40.7 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   |                            | Prime + Parallel Gro<br>up 9-10 in 10 PLCK<br>ESZ-G171.9-40.7 A<br>CS1 (M1) | 515 Secs (515 Secs)<br>[==>]            | [2]   |
|           | 10 |       | ANY                          | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=13;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Gro<br>up 9-10 in 10 PLCK<br>ESZ-G171.9-40.7 A<br>CS1 (M1) | 602.937703 Secs (602.938 Secs)<br>[==>] | [2]   |
|           | 11 |       | (10) PLCKESZ-G17<br>1.9-40.7 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   | POS TARG 0.0741,2<br>.970  | Prime + Parallel Gro<br>up 11-12 in 10 PLC<br>KESZ-G171.9-40.7<br>ACS1 (M1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 12 |       | ANY                          | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Gro<br>up 11-12 in 10 PLC<br>KESZ-G171.9-40.7<br>ACS1 (M1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |
|           | 13 |       | (10) PLCKESZ-G17<br>1.9-40.7 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   | POS TARG 0.1976,5<br>.9687 | Prime + Parallel Gro<br>up 13-14 in 10 PLC<br>KESZ-G171.9-40.7<br>ACS1 (M1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 14 |       | ANY                          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Gro<br>up 13-14 in 10 PLC<br>KESZ-G171.9-40.7<br>ACS1 (M1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |

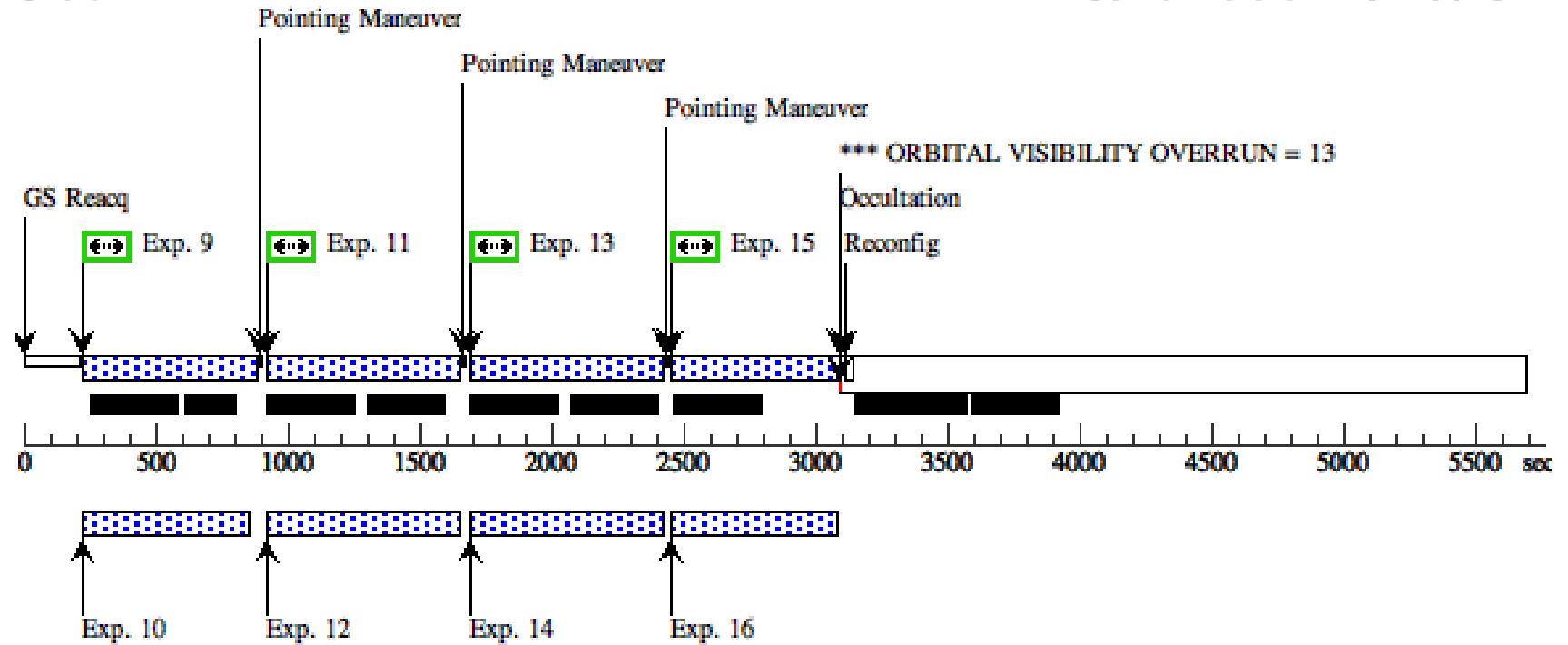
# Proposal 14096 - 10 PLCKESZ-G171.9-40.7 ACS1 (M1) - RELICS: Reionization Lensing Cluster Survey

|  |    |                          |                             |       |                                   |                                                                  |                                |     |
|--|----|--------------------------|-----------------------------|-------|-----------------------------------|------------------------------------------------------------------|--------------------------------|-----|
|  | 15 | (10) PLCKESZ-G171.9-40.7 | ACS/WFC, ACCUM, WFCENTER    | F814W | POS TARG 0.2717,8<br>.9367        | Prime + Parallel Group 15-16 in 10 PLCKESZ-G171.9-40.7 ACS1 (M1) | 514 Secs (514 Secs)            |     |
|  |    |                          |                             |       |                                   |                                                                  | [==>]                          | [2] |
|  | 16 | ANY                      | WFC3/IR, MULTIACCUM, IR-FIX | F125W | NSAMP=13;<br>SAMP-SEQ=SPAR<br>S50 | Prime + Parallel Group 15-16 in 10 PLCKESZ-G171.9-40.7 ACS1 (M1) | 602.937703 Secs (602.938 Secs) |     |
|  |    |                          |                             |       |                                   |                                                                  | [==>]                          | [2] |



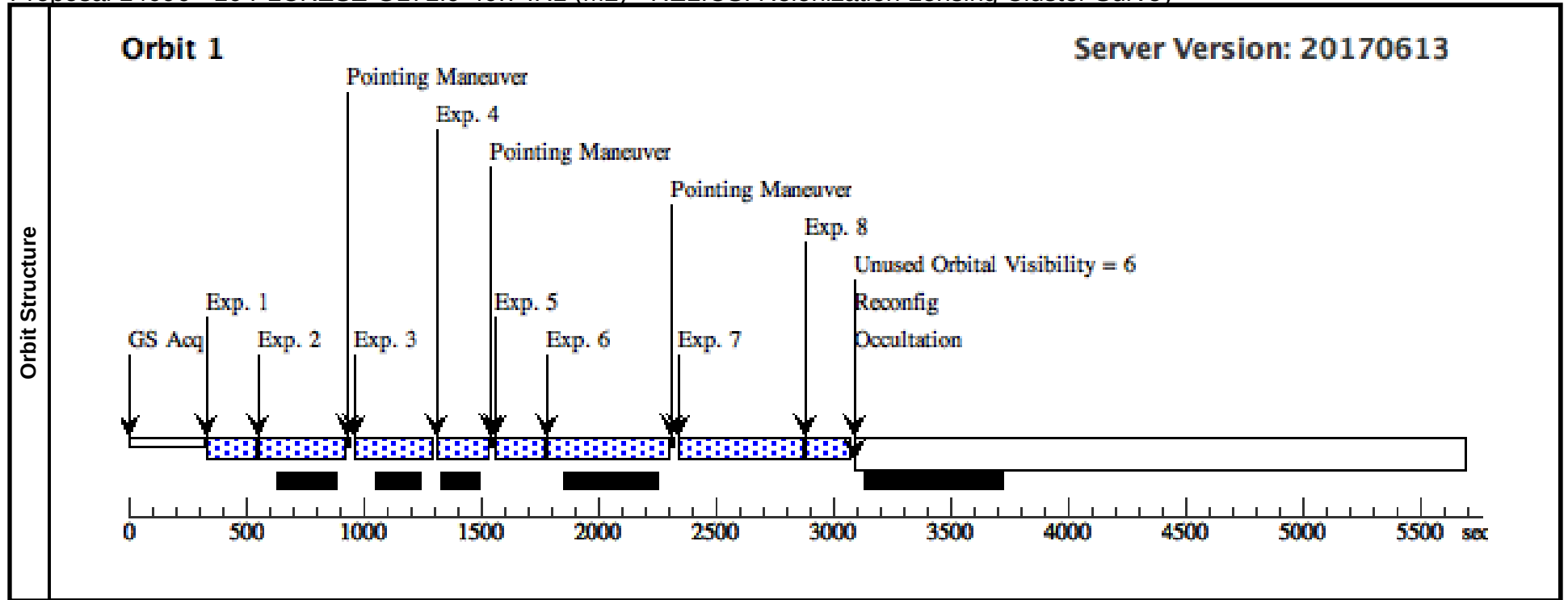
## Orbit 2

Server Version: 20170613



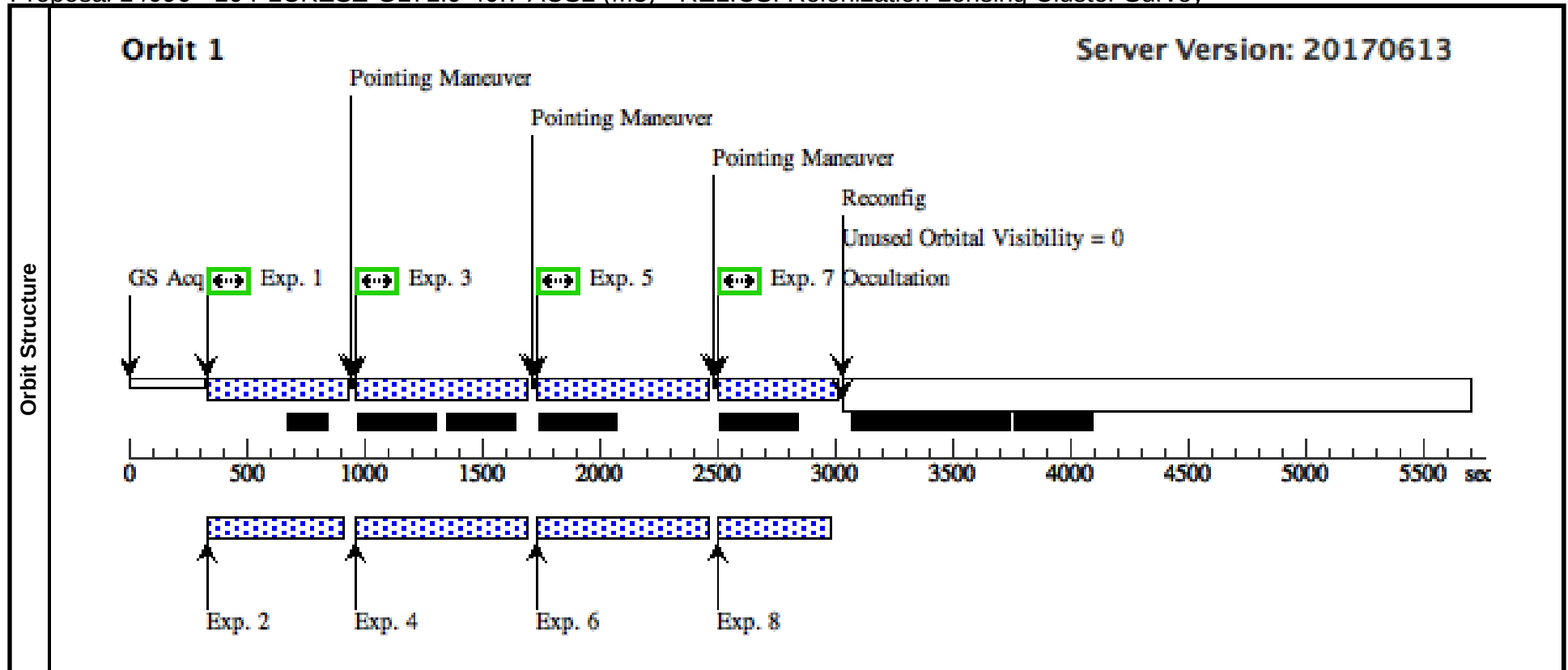
# Proposal 14096 - 10 PLCKESZ-G171.9-40.7 IR1 (M2) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                     |                                                                                   |                             |               |                                   |                              |        |                                         |                         |                              |
|---------------|---------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------|--------|-----------------------------------------|-------------------------|------------------------------|
| Visit         | Proposal 14096, 10 PLCKESZ-G171.9-40.7 IR1 (M2), completed                                        |                     |                                                                                   |                             |               |                                   |                              |        |                                         |                         | Mon Aug 07 18:08:10 GMT 2017 |
|               | Diagnostic Status: No Diagnostics                                                                 |                     |                                                                                   |                             |               |                                   |                              |        |                                         |                         |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |                     |                                                                                   |                             |               |                                   |                              |        |                                         |                         |                              |
|               | Special Requirements: SCHED 70%; SAME ORIENT AS M1; AFTER M1 BY 2 Orbits TO 2.1 Orbits            |                     |                                                                                   |                             |               |                                   |                              |        |                                         |                         |                              |
| Fixed Targets | #                                                                                                 | Name                | Target Coordinates                                                                |                             |               | Targ. Coord. Corrections          |                              | Fluxes |                                         | Miscellaneous           |                              |
|               | (10)                                                                                              | PLCKESZ-G171.9-40.7 | RA: 03 12 56.9000 (48.2370833d)<br>Dec: +08 22 19.20 (8.37200d)<br>Equinox: J2000 |                             |               |                                   |                              | V=18   |                                         | Reference Frame: SIMBAD |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                     |                                                                                   |                             |               |                                   |                              |        |                                         |                         |                              |
|               |                                                                                                   |                     |                                                                                   |                             |               |                                   |                              |        |                                         |                         |                              |
| Exposures     | #                                                                                                 | Label               | Target                                                                            | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         |                         | Orbit                        |
|               | 1                                                                                                 | F140W               | (10) PLCKESZ-G171.9-40.7                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                              |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 2                                                                                                 | F105W               | (10) PLCKESZ-G171.9-40.7                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|               | 3                                                                                                 | F105W               | (10) PLCKESZ-G171.9-40.7                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |        | 302.934997 Secs (302.935 Secs)<br>[==>] |                         | [1]                          |
|               | 4                                                                                                 | F140W               | (10) PLCKESZ-G171.9-40.7                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                         | [1]                          |
|               | 5                                                                                                 | F125W               | (10) PLCKESZ-G171.9-40.7                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 6                                                                                                 | F160W               | (10) PLCKESZ-G171.9-40.7                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |
|               | 7                                                                                                 | F160W               | (10) PLCKESZ-G171.9-40.7                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |
|               | 8                                                                                                 | F125W               | (10) PLCKESZ-G171.9-40.7                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |



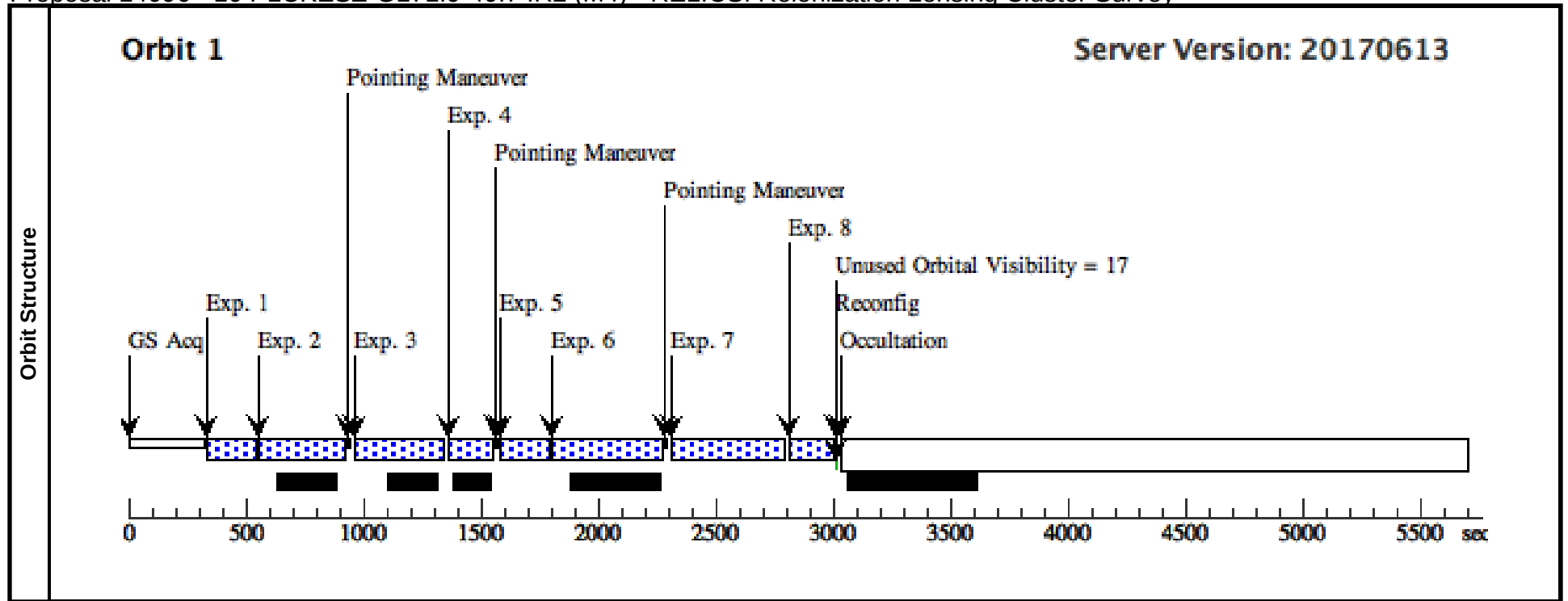
# Proposal 14096 - 10 PLCKESZ-G171.9-40.7 ACS2 (M3) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                     |                                                                                   |                             |               |                                   |                            |                                                                |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|----------------------------|----------------------------------------------------------------|-----------------------------------------|-------|
| Visit         | Proposal 14096, 10 PLCKESZ-G171.9-40.7 ACS2 (M3), completed                                       |                     |                                                                                   |                             |               |                                   |                            |                                                                | Mon Aug 07 18:08:11 GMT 2017            |       |
|               | Diagnostic Status: No Diagnostics                                                                 |                     |                                                                                   |                             |               |                                   |                            |                                                                |                                         |       |
|               | Scientific Instruments: WFC3/IR, ACS/WFC                                                          |                     |                                                                                   |                             |               |                                   |                            |                                                                |                                         |       |
|               | Special Requirements: SCHED 80%; SAME ORIENT AS M1; AFTER M1 BY 40 D TO 60 D                      |                     |                                                                                   |                             |               |                                   |                            |                                                                |                                         |       |
| Fixed Targets | #                                                                                                 | Name                | Target Coordinates                                                                | Targ. Coord. Corrections    |               | Fluxes                            |                            | Miscellaneous                                                  |                                         |       |
|               | (10)                                                                                              | PLCKESZ-G171.9-40.7 | RA: 03 12 56.9000 (48.2370833d)<br>Dec: +08 22 19.20 (8.37200d)<br>Equinox: J2000 |                             |               | V=18                              |                            | Reference Frame: SIMBAD                                        |                                         |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                     |                                                                                   |                             |               |                                   |                            |                                                                |                                         |       |
|               |                                                                                                   |                     |                                                                                   |                             |               |                                   |                            |                                                                |                                         |       |
| Exposures     | #                                                                                                 | Label               | Target                                                                            | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.              | Groups                                                         | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                 |                     | (10) PLCKESZ-G171.9-40.7                                                          | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   |                            | Prime + Parallel Group 1-2 in 10 PLCKESZ-G171.9-40.7 ACS2 (M3) | 391 Secs (391 Secs)<br>[==>]            | [1]   |
|               | 2                                                                                                 |                     | ANY                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Group 1-2 in 10 PLCKESZ-G171.9-40.7 ACS2 (M3) | 552.937252 Secs (552.937 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                 |                     | (10) PLCKESZ-G171.9-40.7                                                          | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   | POS TARG 0.0741,2<br>.970  | Prime + Parallel Group 3-4 in 10 PLCKESZ-G171.9-40.7 ACS2 (M3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 4                                                                                                 |                     | ANY                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Group 3-4 in 10 PLCKESZ-G171.9-40.7 ACS2 (M3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                 |                     | (10) PLCKESZ-G171.9-40.7                                                          | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   | POS TARG 0.1976,5<br>.9687 | Prime + Parallel Group 5-6 in 10 PLCKESZ-G171.9-40.7 ACS2 (M3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 6                                                                                                 |                     | ANY                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Group 5-6 in 10 PLCKESZ-G171.9-40.7 ACS2 (M3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                 |                     | (10) PLCKESZ-G171.9-40.7                                                          | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   | POS TARG 0.2717,8<br>.9367 | Prime + Parallel Group 7-8 in 10 PLCKESZ-G171.9-40.7 ACS2 (M3) | 390 Secs (390 Secs)<br>[==>]            | [1]   |
|               | 8                                                                                                 |                     | ANY                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Group 7-8 in 10 PLCKESZ-G171.9-40.7 ACS2 (M3) | 452.93635 Secs (452.936 Secs)<br>[==>]  | [1]   |



# Proposal 14096 - 10 PLCKESZ-G171.9-40.7 IR2 (M4) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                     |                                                                                   |                             |  |                          |                                |                           |        |                                         |                              |       |
|---------------|---------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------|-----------------------------|--|--------------------------|--------------------------------|---------------------------|--------|-----------------------------------------|------------------------------|-------|
| Visit         | Proposal 14096, 10 PLCKESZ-G171.9-40.7 IR2 (M4), completed                                        |                     |                                                                                   |                             |  |                          |                                |                           |        |                                         | Mon Aug 07 18:08:11 GMT 2017 |       |
|               | Diagnostic Status: No Diagnostics                                                                 |                     |                                                                                   |                             |  |                          |                                |                           |        |                                         |                              |       |
|               | Scientific Instruments: WFC3/IR                                                                   |                     |                                                                                   |                             |  |                          |                                |                           |        |                                         |                              |       |
|               | Special Requirements: SCHED 80%; SAME ORIENT AS M1; AFTER M3 BY 1 Orbits TO 1.1 Orbits            |                     |                                                                                   |                             |  |                          |                                |                           |        |                                         |                              |       |
| Fixed Targets | #                                                                                                 | Name                | Target Coordinates                                                                |                             |  | Targ. Coord. Corrections |                                | Fluxes                    |        | Miscellaneous                           |                              |       |
|               | (10)                                                                                              | PLCKESZ-G171.9-40.7 | RA: 03 12 56.9000 (48.2370833d)<br>Dec: +08 22 19.20 (8.37200d)<br>Equinox: J2000 |                             |  |                          |                                | V=18                      |        | Reference Frame: SIMBAD                 |                              |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                     |                                                                                   |                             |  |                          |                                |                           |        |                                         |                              |       |
|               |                                                                                                   |                     |                                                                                   |                             |  |                          |                                |                           |        |                                         |                              |       |
| Exposures     | #                                                                                                 | Label               | Target                                                                            | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                   | Special Reqs.             | Groups | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |
|               | 1                                                                                                 | F140W               | (10) PLCKESZ-G17 1.9-40.7                                                         | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 7.317,0.90825    |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |
|               | 2                                                                                                 | F105W               | (10) PLCKESZ-G17 1.9-40.7                                                         | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | SAME POS AS 1             |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |
|               | 3                                                                                                 | F105W               | (10) PLCKESZ-G17 1.9-40.7                                                         | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0.47425, 0.6055  |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |
|               | 4                                                                                                 | F140W               | (10) PLCKESZ-G17 1.9-40.7                                                         | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 3             |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |
|               | 5                                                                                                 | F125W               | (10) PLCKESZ-G17 1.9-40.7                                                         | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0              |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |
|               | 6                                                                                                 | F160W               | (10) PLCKESZ-G17 1.9-40.7                                                         | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=10;<br>SAMP-SEQ=SPAR S50 | SAME POS AS 5             |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |                              | [1]   |
|               | 7                                                                                                 | F160W               | (10) PLCKESZ-G17 1.9-40.7                                                         | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=10;<br>SAMP-SEQ=SPAR S50 | POS TARG 6.48275, 0.30275 |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |                              | [1]   |
|               | 8                                                                                                 | F125W               | (10) PLCKESZ-G17 1.9-40.7                                                         | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 7             |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |



# Proposal 14096 - 11 RXCJ2211.7-0349 ACS1 (N1) - RELICS: Reionization Lensing Cluster Survey

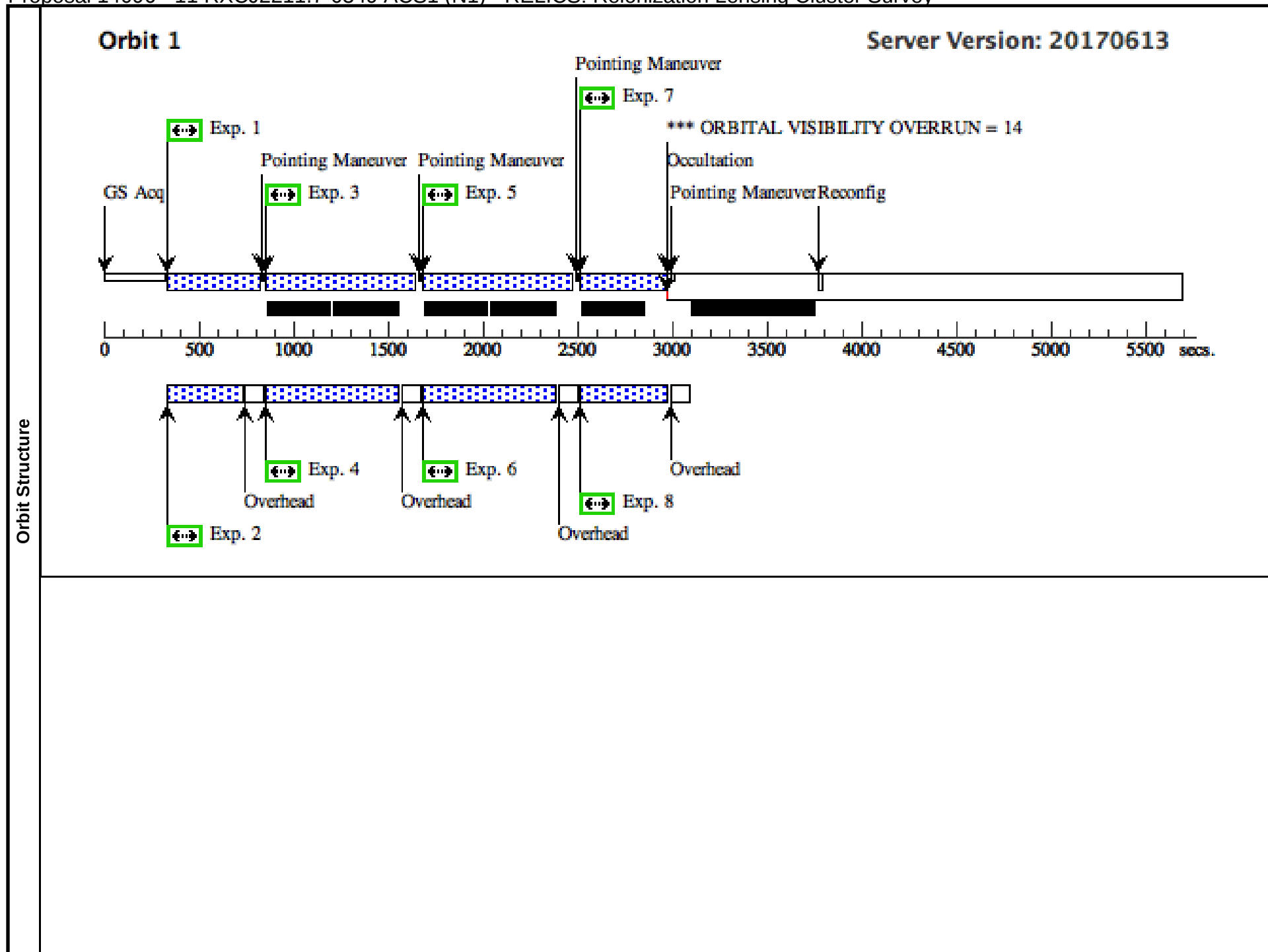
|               |                                                                                                   |                 |                                                                                     |                          |        |                              |
|---------------|---------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|--------------------------|--------|------------------------------|
| Visit         | Proposal 14096, 11 RXCJ2211.7-0349 ACS1 (N1), completed                                           |                 |                                                                                     |                          |        | Mon Aug 07 18:08:11 GMT 2017 |
|               | Diagnostic Status: Warning                                                                        |                 |                                                                                     |                          |        |                              |
|               | Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC                                               |                 |                                                                                     |                          |        |                              |
|               | Special Requirements: SCHED 100%                                                                  |                 |                                                                                     |                          |        |                              |
| Diagnostics   | (11 RXCJ2211.7-0349 ACS1 (N1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                |                 |                                                                                     |                          |        |                              |
|               | (11 RXCJ2211.7-0349 ACS1 (N1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                |                 |                                                                                     |                          |        |                              |
| Fixed Targets | #                                                                                                 | Name            | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes | Miscellaneous                |
|               | (11)                                                                                              | RXCJ2211.7-0349 | RA: 22 11 45.9150 (332.9413125d)<br>Dec: -03 49 44.73 (-3.82909d)<br>Equinox: J2000 |                          | V=18   | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                 |                                                                                     |                          |        |                              |
|               |                                                                                                   |                 |                                                                                     |                          |        |                              |

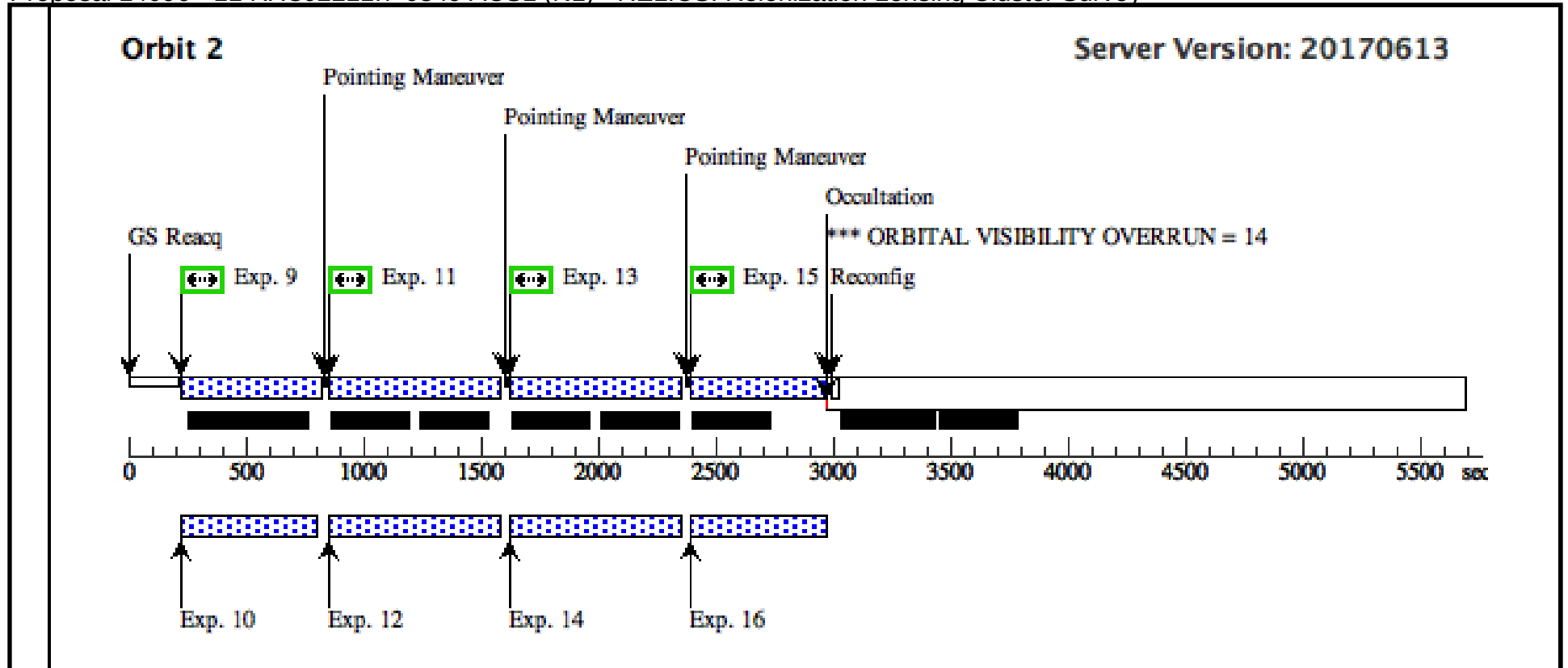
# Proposal 14096 - 11 RXCJ2211.7-0349 ACS1 (N1) - RELICS: Reionization Lensing Cluster Survey

| Exposures | #  | Label | Target               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.           | Groups                                                       | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|----|-------|----------------------|-----------------------------|---------------|--------------------------------|-------------------------|--------------------------------------------------------------|-----------------------------------------|-------|
|           | 1  |       | (11) RXCJ2211.7-0349 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                |                         | Prime + Parallel Group 1-2 in 11 RXCJ2211.7-0349 ACS1 (N1)   | 282 Secs (282 Secs)<br>[==>]            | [1]   |
|           | 2  |       | ANY                  | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 1-2 in 11 RXCJ2211.7-0349 ACS1 (N1)   | 366 Secs (366 Secs)<br>[==>]            | [1]   |
|           | 3  |       | (11) RXCJ2211.7-0349 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group 3-4 in 11 RXCJ2211.7-0349 ACS1 (N1)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 4  |       | ANY                  | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 3-4 in 11 RXCJ2211.7-0349 ACS1 (N1)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 5  |       | (11) RXCJ2211.7-0349 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 5-6 in 11 RXCJ2211.7-0349 ACS1 (N1)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 6  |       | ANY                  | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 5-6 in 11 RXCJ2211.7-0349 ACS1 (N1)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 7  |       | (11) RXCJ2211.7-0349 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 7-8 in 11 RXCJ2211.7-0349 ACS1 (N1)   | 337 Secs (337 Secs)<br>[==>]            | [1]   |
|           | 8  |       | ANY                  | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 7-8 in 11 RXCJ2211.7-0349 ACS1 (N1)   | 463 Secs (463 Secs)<br>[==>]            | [1]   |
|           | 9  |       | (11) RXCJ2211.7-0349 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                |                         | Prime + Parallel Group 9-10 in 11 RXCJ2211.7-0349 ACS1 (N1)  | 453 Secs (453 Secs)<br>[==>]            | [2]   |
|           | 10 |       | ANY                  | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=12;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 9-10 in 11 RXCJ2211.7-0349 ACS1 (N1)  | 552.937252 Secs (552.937 Secs)<br>[==>] | [2]   |
|           | 11 |       | (11) RXCJ2211.7-0349 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group 11-12 in 11 RXCJ2211.7-0349 ACS1 (N1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 12 |       | ANY                  | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 11-12 in 11 RXCJ2211.7-0349 ACS1 (N1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |
|           | 13 |       | (11) RXCJ2211.7-0349 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 13-14 in 11 RXCJ2211.7-0349 ACS1 (N1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 14 |       | ANY                  | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 13-14 in 11 RXCJ2211.7-0349 ACS1 (N1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |

Proposal 14096 - 11 RXCJ2211.7-0349 ACS1 (N1) - RELICS: Reionization Lensing Cluster Survey

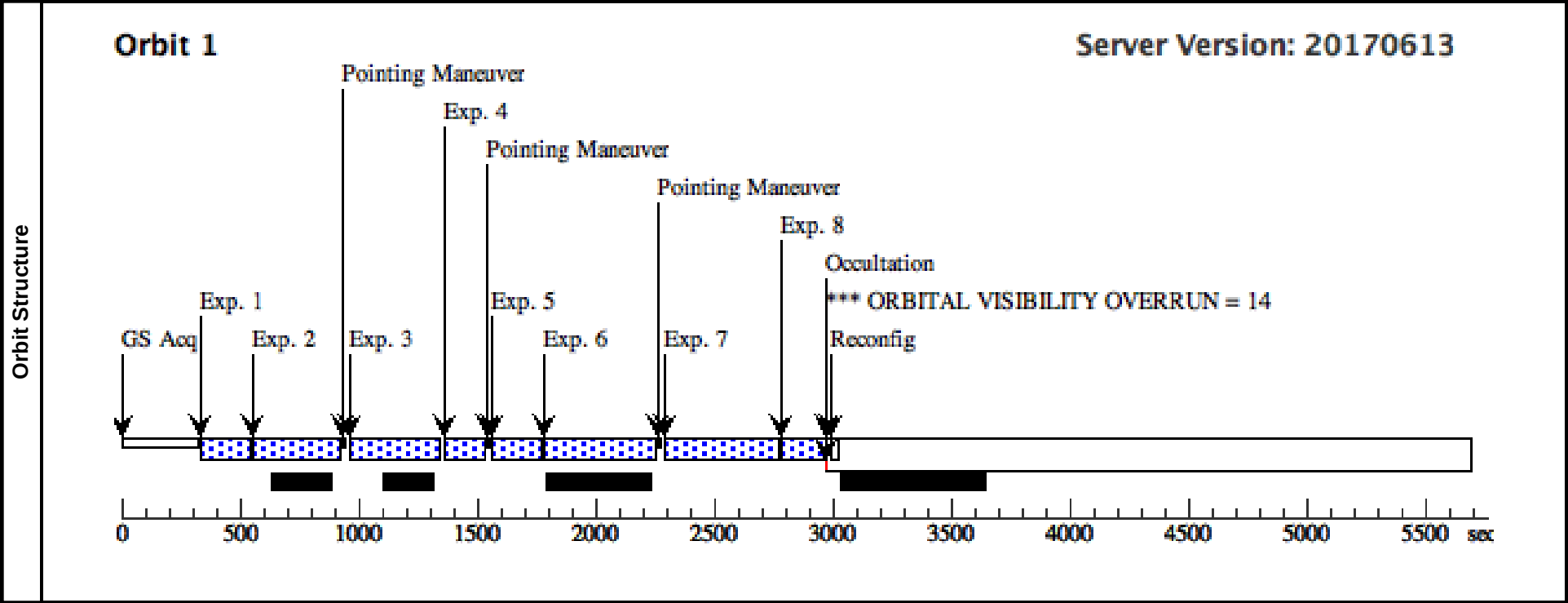
|  |    |                                                     |                             |                                                               |                                |     |
|--|----|-----------------------------------------------------|-----------------------------|---------------------------------------------------------------|--------------------------------|-----|
|  | 15 | (11) RXCJ2211.7-0349 ACS/WFC, ACCUM, WFCENTER F814W | POS TARG 0.2717,8 .9367     | Prime + Parallel Group 15-16 in 11 RXCJ 2211.7-0349 ACS1 (N1) | 457 Secs (457 Secs)            |     |
|  |    |                                                     |                             |                                                               | [==>]                          | [2] |
|  | 16 | ANY WFC3/IR, MULTIACCUM, IR-FIX F125W               | NSAMP=12; SAMP-SEQ=SPAR S50 | Prime + Parallel Group 15-16 in 11 RXCJ 2211.7-0349 ACS1 (N1) | 552.937252 Secs (552.937 Secs) |     |
|  |    |                                                     |                             |                                                               | [==>]                          | [2] |





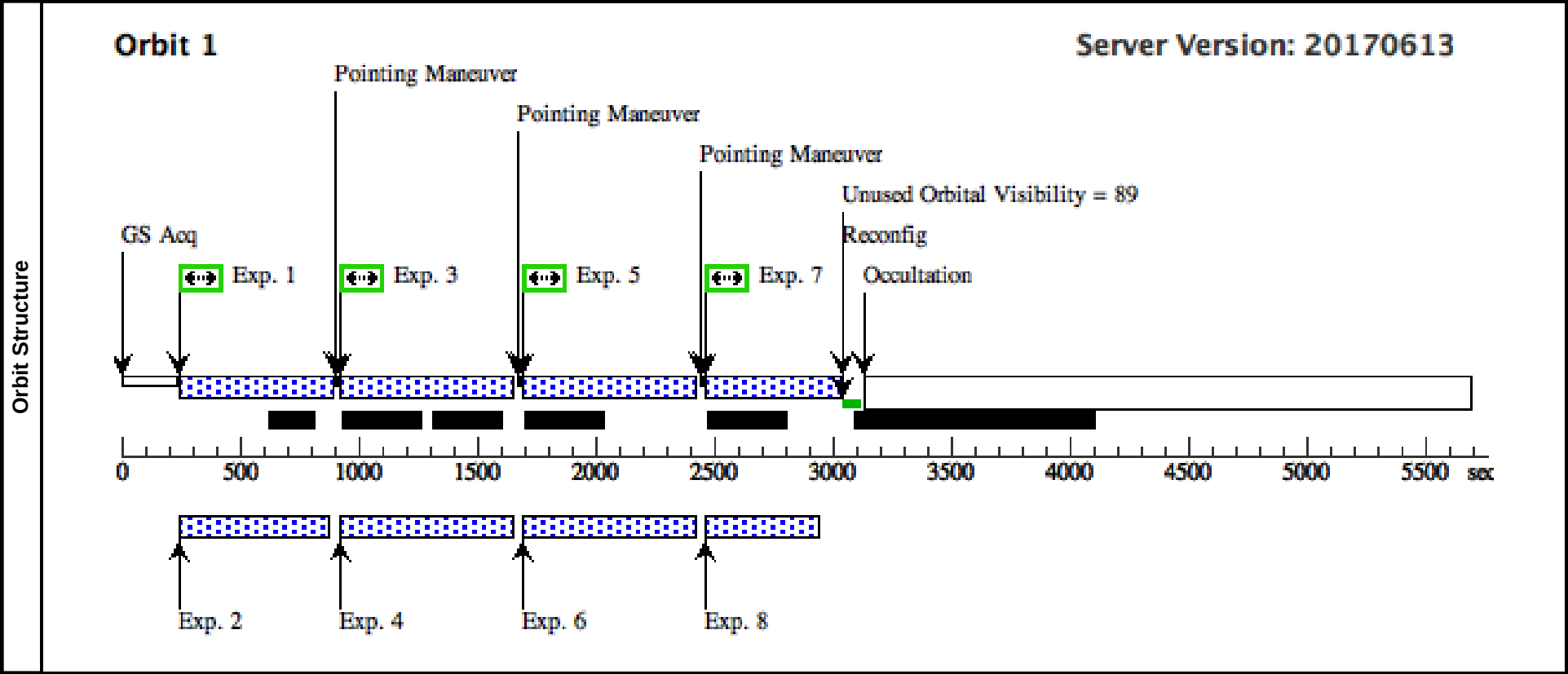
# Proposal 14096 - 11 RXCJ2211.7-0349 IR1 (N2) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                         |                 |                                                                                     |                             |                          |                                   |                              |        |                                         |  |                              |  |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|-----------------------------|--------------------------|-----------------------------------|------------------------------|--------|-----------------------------------------|--|------------------------------|--|
| Visit                                                                                             | Proposal 14096, 11 RXCJ2211.7-0349 IR1 (N2), completed                                  |                 |                                                                                     |                             |                          |                                   |                              |        |                                         |  | Mon Aug 07 18:08:11 GMT 2017 |  |
|                                                                                                   | Diagnostic Status: Warning                                                              |                 |                                                                                     |                             |                          |                                   |                              |        |                                         |  |                              |  |
|                                                                                                   | Scientific Instruments: WFC3/IR                                                         |                 |                                                                                     |                             |                          |                                   |                              |        |                                         |  |                              |  |
|                                                                                                   | Special Requirements: SCHED 100%; SAME ORIENT AS N1; AFTER N1 BY 2 Orbits TO 2.1 Orbits |                 |                                                                                     |                             |                          |                                   |                              |        |                                         |  |                              |  |
| Diagnostics                                                                                       | (11 RXCJ2211.7-0349 IR1 (N2)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN       |                 |                                                                                     |                             |                          |                                   |                              |        |                                         |  |                              |  |
|                                                                                                   |                                                                                         |                 |                                                                                     |                             |                          |                                   |                              |        |                                         |  |                              |  |
| Fixed Targets                                                                                     | #                                                                                       | Name            | Target Coordinates                                                                  |                             | Targ. Coord. Corrections |                                   | Fluxes                       |        | Miscellaneous                           |  |                              |  |
|                                                                                                   | (11)                                                                                    | RXCJ2211.7-0349 | RA: 22 11 45.9150 (332.9413125d)<br>Dec: -03 49 44.73 (-3.82909d)<br>Equinox: J2000 |                             |                          |                                   | V=18                         |        | Reference Frame: SIMBAD                 |  |                              |  |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                         |                 |                                                                                     |                             |                          |                                   |                              |        |                                         |  |                              |  |
| Exposures                                                                                         | #                                                                                       | Label           | Target                                                                              | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |
|                                                                                                   | 1                                                                                       | F140W           | (11) RXCJ2211.7-0349                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                              |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |
|                                                                                                   | 2                                                                                       | F105W           | (11) RXCJ2211.7-0349                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |
|                                                                                                   | 3                                                                                       | F105W           | (11) RXCJ2211.7-0349                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |
|                                                                                                   | 4                                                                                       | F140W           | (11) RXCJ2211.7-0349                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |  |
|                                                                                                   | 5                                                                                       | F125W           | (11) RXCJ2211.7-0349                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |
|                                                                                                   | 6                                                                                       | F160W           | (11) RXCJ2211.7-0349                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |  | [1]                          |  |
|                                                                                                   | 7                                                                                       | F160W           | (11) RXCJ2211.7-0349                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |  | [1]                          |  |
|                                                                                                   | 8                                                                                       | F125W           | (11) RXCJ2211.7-0349                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |
|                                                                                                   |                                                                                         |                 |                                                                                     |                             |                          |                                   |                              |        |                                         |  |                              |  |



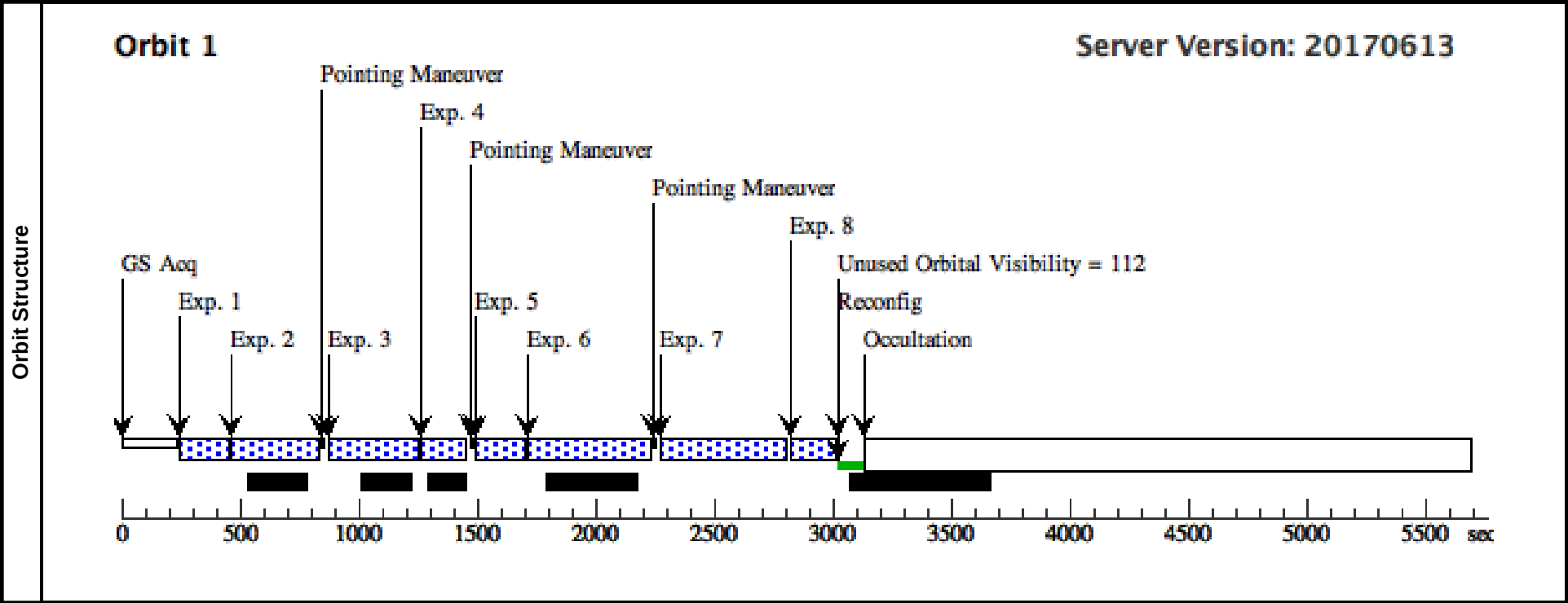
# Proposal 14096 - 11 RXCJ2211.7-0349 ACS2 (N3) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                 |                                                                                     |                             |               |                                |                         |                                                            |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|-------------------------|------------------------------------------------------------|-----------------------------------------|-------|
| Visit         | Proposal 14096, 11 RXCJ2211.7-0349 ACS2 (N3), completed                                           |                 |                                                                                     |                             |               |                                |                         |                                                            | Mon Aug 07 18:08:11 GMT 2017            |       |
|               | Diagnostic Status: No Diagnostics                                                                 |                 |                                                                                     |                             |               |                                |                         |                                                            |                                         |       |
|               | Scientific Instruments: WFC3/IR, ACS/WFC                                                          |                 |                                                                                     |                             |               |                                |                         |                                                            |                                         |       |
|               | Special Requirements: SCHED 50%; SAME ORIENT AS N1; AFTER N1 BY 40 D TO 60 D                      |                 |                                                                                     |                             |               |                                |                         |                                                            |                                         |       |
| Fixed Targets | #                                                                                                 | Name            | Target Coordinates                                                                  | Targ. Coord. Corrections    |               | Fluxes                         |                         | Miscellaneous                                              |                                         |       |
|               | (11)                                                                                              | RXCJ2211.7-0349 | RA: 22 11 45.9150 (332.9413125d)<br>Dec: -03 49 44.73 (-3.82909d)<br>Equinox: J2000 |                             |               | V=18                           |                         | Reference Frame: SIMBAD                                    |                                         |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                 |                                                                                     |                             |               |                                |                         |                                                            |                                         |       |
|               |                                                                                                   |                 |                                                                                     |                             |               |                                |                         |                                                            |                                         |       |
| Exposures     | #                                                                                                 | Label           | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.           | Groups                                                     | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                 |                 | (11) RXCJ2211.7-0349                                                                | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                | GS ACQ SCENARIO SINGLE  | Prime + Parallel Group 1-2 in 11 RXCJ2211.7-0349 ACS2 (N3) | 444 Secs (444 Secs)<br>[==>]            | [1]   |
|               | 2                                                                                                 |                 | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=13;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 1-2 in 11 RXCJ2211.7-0349 ACS2 (N3) | 602.937703 Secs (602.938 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                 |                 | (11) RXCJ2211.7-0349                                                                | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group 3-4 in 11 RXCJ2211.7-0349 ACS2 (N3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 4                                                                                                 |                 | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 3-4 in 11 RXCJ2211.7-0349 ACS2 (N3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                 |                 | (11) RXCJ2211.7-0349                                                                | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 5-6 in 11 RXCJ2211.7-0349 ACS2 (N3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 6                                                                                                 |                 | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 5-6 in 11 RXCJ2211.7-0349 ACS2 (N3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                 |                 | (11) RXCJ2211.7-0349                                                                | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 7-8 in 11 RXCJ2211.7-0349 ACS2 (N3) | 443 Secs (443 Secs)<br>[==>]            | [1]   |
|               | 8                                                                                                 |                 | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=10;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 7-8 in 11 RXCJ2211.7-0349 ACS2 (N3) | 452.93635 Secs (452.936 Secs)<br>[==>]  | [1]   |



# Proposal 14096 - 11 RXCJ2211.7-0349 IR2 (N4) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                                                                                       |                 |                                                                                                                                                                                                 |                             |               |                                   |                                                   |        |                                         |       |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|---------------------------------------------------|--------|-----------------------------------------|-------|
| Visit         | <b>Proposal 14096, 11 RXCJ2211.7-0349 IR2 (N4), completed</b> <span>Mon Aug 07 18:08:11 GMT 2017</span>                                                               |                 |                                                                                                                                                                                                 |                             |               |                                   |                                                   |        |                                         |       |
|               | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 50%; SAME ORIENT AS N1; AFTER N3 BY 1 Orbits TO 1.1 Orbits |                 |                                                                                                                                                                                                 |                             |               |                                   |                                                   |        |                                         |       |
| Fixed Targets | #                                                                                                                                                                     | Name            | Target Coordinates                                                                                                                                                                              | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                     |                                                   |        |                                         |       |
|               | (11)                                                                                                                                                                  | RXCJ2211.7-0349 | RA: 22 11 45.9150 (332.9413125d)<br>Dec: -03 49 44.73 (-3.82909d)<br>Equinox: J2000<br><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> |                             | V=18          | Reference Frame: SIMBAD           |                                                   |        |                                         |       |
| Exposures     | #                                                                                                                                                                     | Label           | Target                                                                                                                                                                                          | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                                     | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                                                     | F140W           | (11) RXCJ2211.7-0349                                                                                                                                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.90825;<br>GS ACQ SCENARIO SINGLE |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                                                                                     | F105W           | (11) RXCJ2211.7-0349                                                                                                                                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                                     |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                                                     | F105W           | (11) RXCJ2211.7-0349                                                                                                                                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,0.6055                           |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                                                                                     | F140W           | (11) RXCJ2211.7-0349                                                                                                                                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                                     |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                                                     | F125W           | (11) RXCJ2211.7-0349                                                                                                                                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0                                      |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                                                                                     | F160W           | (11) RXCJ2211.7-0349                                                                                                                                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                                     |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                                                                                     | F160W           | (11) RXCJ2211.7-0349                                                                                                                                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,0.30275                          |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                                                                                     | F125W           | (11) RXCJ2211.7-0349                                                                                                                                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                                     |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |



# Proposal 14096 - 12 PLCKESZ-G004.5-19.5 ACS1 (O1) - RELICS: Reionization Lensing Cluster Survey

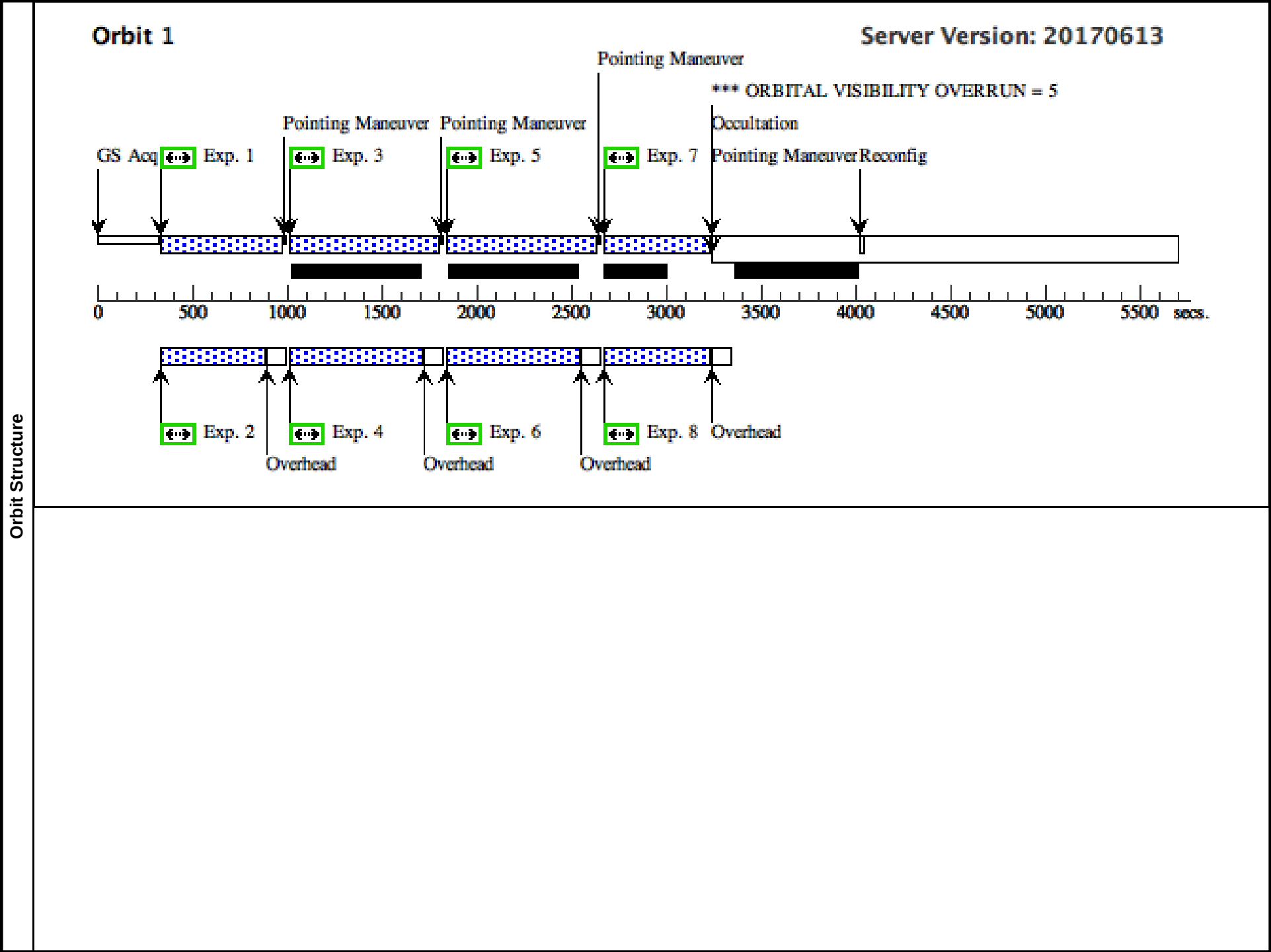
|                                                                                                   |                                                                                                                                                                                  |                         |                                                                                     |                          |        |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------|--------------------------|--------|
| Visit                                                                                             | <b>Proposal 14096, 12 PLCKESZ-G004.5-19.5 ACS1 (O1), completed</b> <span>Mon Aug 07 18:08:11 GMT 2017</span>                                                                     |                         |                                                                                     |                          |        |
|                                                                                                   | <b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC<br>Special Requirements: SCHED 30%; ORIENT 85D TO 85 D                                  |                         |                                                                                     |                          |        |
| Diagnostics                                                                                       | (12 PLCKESZ-G004.5-19.5 ACS1 (O1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(12 PLCKESZ-G004.5-19.5 ACS1 (O1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |                         |                                                                                     |                          |        |
|                                                                                                   |                                                                                                                                                                                  |                         |                                                                                     |                          |        |
| Fixed Targets                                                                                     | #                                                                                                                                                                                | Name                    | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes |
|                                                                                                   | (121)                                                                                                                                                                            | PLCKESZ-G004.5-19.5-ACS | RA: 19 17 5.1951 (289.2716463d)<br>Dec: -33 31 24.06 (-33.52335d)<br>Equinox: J2000 |                          | V=18   |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                                                                                                                  |                         |                                                                                     |                          |        |
|                                                                                                   |                                                                                                                                                                                  |                         |                                                                                     |                          |        |

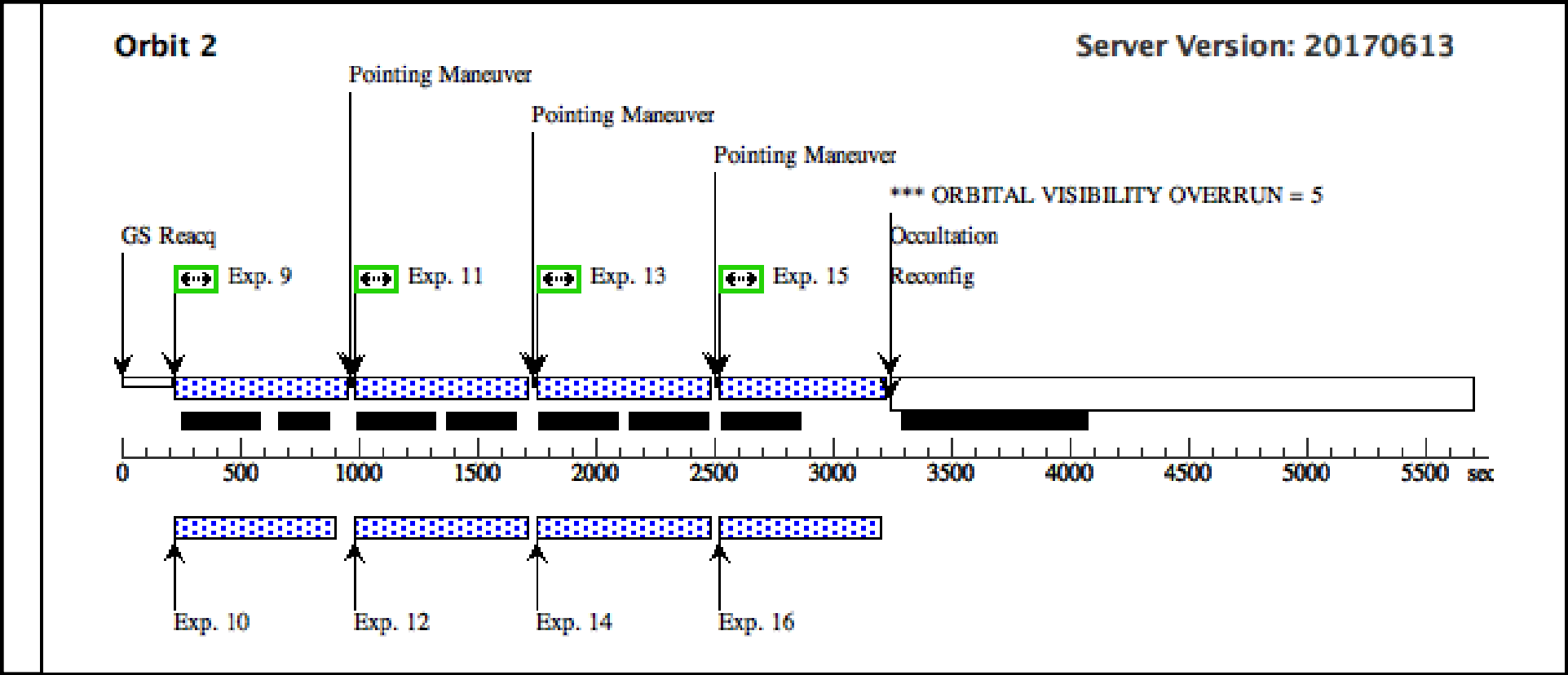
# Proposal 14096 - 12 PLCKESZ-G004.5-19.5 ACS1 (O1) - RELICS: Reionization Lensing Cluster Survey

| Exposures | #  | Label | Target                            | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.              | Groups                                                                      | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|----|-------|-----------------------------------|-----------------------------|---------------|-----------------------------------|----------------------------|-----------------------------------------------------------------------------|-----------------------------------------|-------|
|           | 1  |       | (121) PLCKESZ-G0<br>04.5-19.5-ACS | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   |                            | Prime + Parallel Gro<br>up 1-2 in 12 PLCKE<br>SZ-G004.5-19.5 AC<br>S1 (O1)  | 436 Secs (436 Secs)<br>[==>]            | [1]   |
|           | 2  |       | ANY                               | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                            | Prime + Parallel Gro<br>up 1-2 in 12 PLCKE<br>SZ-G004.5-19.5 AC<br>S1 (O1)  | 520 Secs (520 Secs)<br>[==>]            | [1]   |
|           | 3  |       | (121) PLCKESZ-G0<br>04.5-19.5-ACS | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.0741,2<br>.970  | Prime + Parallel Gro<br>up 3-4 in 12 PLCKE<br>SZ-G004.5-19.5 AC<br>S1 (O1)  | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 4  |       | ANY                               | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                            | Prime + Parallel Gro<br>up 3-4 in 12 PLCKE<br>SZ-G004.5-19.5 AC<br>S1 (O1)  | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 5  |       | (121) PLCKESZ-G0<br>04.5-19.5-ACS | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.1976,5<br>.9687 | Prime + Parallel Gro<br>up 5-6 in 12 PLCKE<br>SZ-G004.5-19.5 AC<br>S1 (O1)  | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 6  |       | ANY                               | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                            | Prime + Parallel Gro<br>up 5-6 in 12 PLCKE<br>SZ-G004.5-19.5 AC<br>S1 (O1)  | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 7  |       | (121) PLCKESZ-G0<br>04.5-19.5-ACS | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.2717,8<br>.9367 | Prime + Parallel Gro<br>up 7-8 in 12 PLCKE<br>SZ-G004.5-19.5 AC<br>S1 (O1)  | 436 Secs (436 Secs)<br>[==>]            | [1]   |
|           | 8  |       | ANY                               | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                            | Prime + Parallel Gro<br>up 7-8 in 12 PLCKE<br>SZ-G004.5-19.5 AC<br>S1 (O1)  | 562 Secs (562 Secs)<br>[==>]            | [1]   |
|           | 9  |       | (121) PLCKESZ-G0<br>04.5-19.5-ACS | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   |                            | Prime + Parallel Gro<br>up 9-10 in 12 PLCK<br>ESZ-G004.5-19.5 A<br>CS1 (O1) | 582 Secs (582 Secs)<br>[==>]            | [2]   |
|           | 10 |       | ANY                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Gro<br>up 9-10 in 12 PLCK<br>ESZ-G004.5-19.5 A<br>CS1 (O1) | 652.938154 Secs (652.938 Secs)<br>[==>] | [2]   |
|           | 11 |       | (121) PLCKESZ-G0<br>04.5-19.5-ACS | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   | POS TARG 0.0741,2<br>.970  | Prime + Parallel Gro<br>up 11-12 in 12 PLC<br>KESZ-G004.5-19.5<br>ACS1 (O1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 12 |       | ANY                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Gro<br>up 11-12 in 12 PLC<br>KESZ-G004.5-19.5<br>ACS1 (O1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |
|           | 13 |       | (121) PLCKESZ-G0<br>04.5-19.5-ACS | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   | POS TARG 0.1976,5<br>.9687 | Prime + Parallel Gro<br>up 13-14 in 12 PLC<br>KESZ-G004.5-19.5<br>ACS1 (O1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 14 |       | ANY                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Gro<br>up 13-14 in 12 PLC<br>KESZ-G004.5-19.5<br>ACS1 (O1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |

# Proposal 14096 - 12 PLCKESZ-G004.5-19.5 ACS1 (O1) - RELICS: Reionization Lensing Cluster Survey

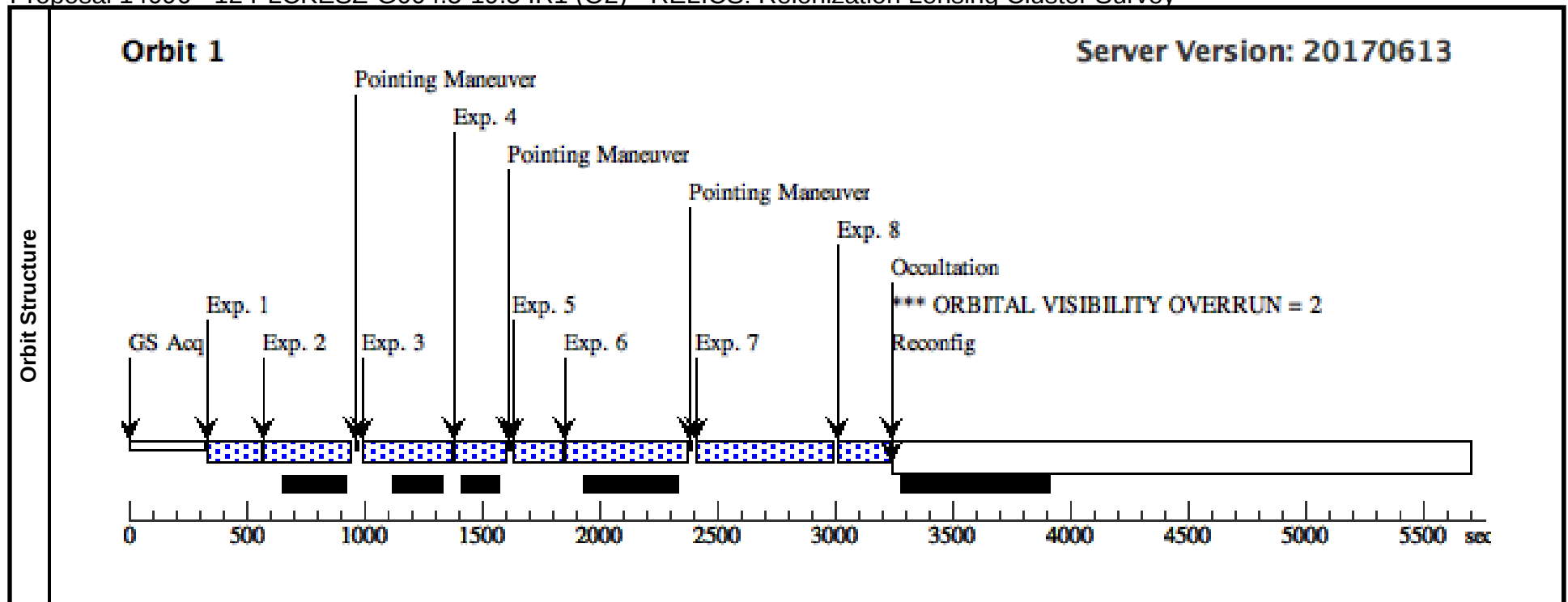
|  |    |                                |                                   |                             |                                                                  |                                |       |     |
|--|----|--------------------------------|-----------------------------------|-----------------------------|------------------------------------------------------------------|--------------------------------|-------|-----|
|  | 15 | (121) PLCKESZ-G0 04.5-19.5-ACS | ACS/WFC, ACCUM, WFCENTER F814W    | POS TARG 0.2717,8 .9367     | Prime + Parallel Group 15-16 in 12 PLCKESZ-G004.5-19.5 ACS1 (O1) | 581 Secs (581 Secs)            | [==>] | [2] |
|  | 16 | ANY                            | WFC3/IR, MULTIACCUM, IR-FIX F125W | NSAMP=14; SAMP-SEQ=SPAR S50 | Prime + Parallel Group 15-16 in 12 PLCKESZ-G004.5-19.5 ACS1 (O1) | 652.938154 Secs (652.938 Secs) | [==>] | [2] |





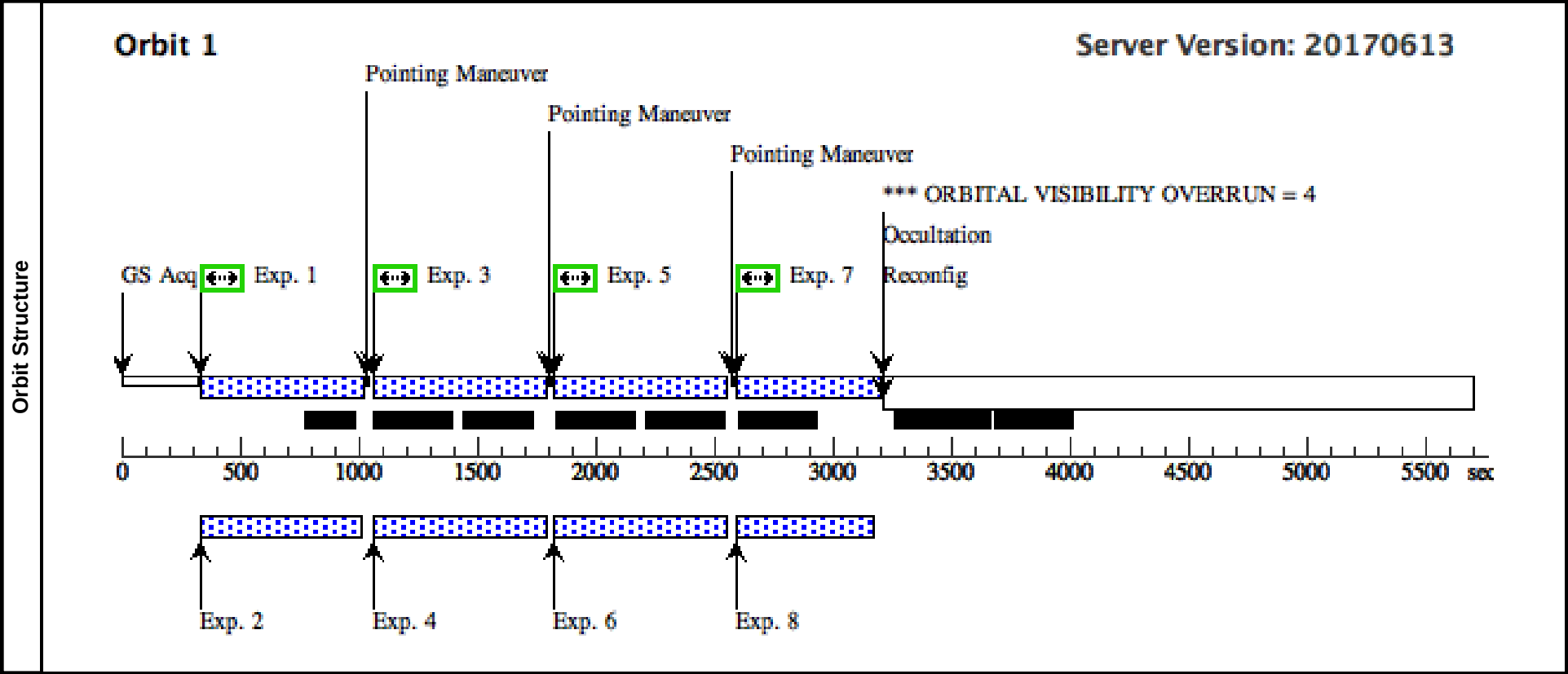
# Proposal 14096 - 12 PLCKESZ-G004.5-19.5 IR1 (O2) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                        |                        |                                                                                     |                             |  |                          |                                |        |                           |                         |                                         |  |       |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|-----------------------------|--|--------------------------|--------------------------------|--------|---------------------------|-------------------------|-----------------------------------------|--|-------|
| Visit                                                                                             | Proposal 14096, 12 PLCKESZ-G004.5-19.5 IR1 (O2), completed                             |                        |                                                                                     |                             |  |                          |                                |        |                           |                         | Mon Aug 07 18:08:11 GMT 2017            |  |       |
|                                                                                                   | Diagnostic Status: Warning                                                             |                        |                                                                                     |                             |  |                          |                                |        |                           |                         |                                         |  |       |
|                                                                                                   | Scientific Instruments: WFC3/IR                                                        |                        |                                                                                     |                             |  |                          |                                |        |                           |                         |                                         |  |       |
|                                                                                                   | Special Requirements: SCHED 30%; SAME ORIENT AS O1; AFTER O1 BY 2 Orbits TO 2.1 Orbits |                        |                                                                                     |                             |  |                          |                                |        |                           |                         |                                         |  |       |
| Diagnostics                                                                                       | (12 PLCKESZ-G004.5-19.5 IR1 (O2)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN  |                        |                                                                                     |                             |  |                          |                                |        |                           |                         |                                         |  |       |
|                                                                                                   |                                                                                        |                        |                                                                                     |                             |  |                          |                                |        |                           |                         |                                         |  |       |
| Fixed Targets                                                                                     | #                                                                                      | Name                   | Target Coordinates                                                                  |                             |  | Targ. Coord. Corrections |                                | Fluxes |                           | Miscellaneous           |                                         |  |       |
|                                                                                                   | (122)                                                                                  | PLCKESZ-G004.5-19.5-IR | RA: 19 17 4.5127 (289.2688029d)<br>Dec: -33 31 28.53 (-33.52459d)<br>Equinox: J2000 |                             |  |                          |                                | V=18   |                           | Reference Frame: SIMBAD |                                         |  |       |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                        |                        |                                                                                     |                             |  |                          |                                |        |                           |                         |                                         |  |       |
| Exposures                                                                                         | #                                                                                      | Label                  | Target                                                                              | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                   |        | Special Reqs.             | Groups                  | Exp. Time (Total)/[Actual Dur.]         |  | Orbit |
|                                                                                                   | 1                                                                                      | F140W                  | (122) PLCKESZ-G0 04.5-19.5-IR                                                       | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=9;<br>SAMP-SEQ=SPAR S25  |        |                           |                         | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]   |
|                                                                                                   | 2                                                                                      | F105W                  | (122) PLCKESZ-G0 04.5-19.5-IR                                                       | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S50  |        | SAME POS AS 1             |                         | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]   |
|                                                                                                   | 3                                                                                      | F105W                  | (122) PLCKESZ-G0 04.5-19.5-IR                                                       | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S50  |        | POS TARG 6.84275, 0.30275 |                         | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]   |
|                                                                                                   | 4                                                                                      | F140W                  | (122) PLCKESZ-G0 04.5-19.5-IR                                                       | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=9;<br>SAMP-SEQ=SPAR S25  |        | SAME POS AS 3             |                         | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]   |
|                                                                                                   | 5                                                                                      | F125W                  | (122) PLCKESZ-G0 04.5-19.5-IR                                                       | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  |        | POS TARG 7.317,0.90825    |                         | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]   |
|                                                                                                   | 6                                                                                      | F160W                  | (122) PLCKESZ-G0 04.5-19.5-IR                                                       | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR S50 |        | SAME POS AS 5             |                         | 502.936801 Secs (502.937 Secs)<br>[==>] |  | [1]   |
|                                                                                                   | 7                                                                                      | F160W                  | (122) PLCKESZ-G0 04.5-19.5-IR                                                       | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=12;<br>SAMP-SEQ=SPAR S50 |        | POS TARG 0.47425, 0.6055  |                         | 552.937252 Secs (552.937 Secs)<br>[==>] |  | [1]   |
|                                                                                                   | 8                                                                                      | F125W                  | (122) PLCKESZ-G0 04.5-19.5-IR                                                       | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=9;<br>SAMP-SEQ=SPAR S25  |        | SAME POS AS 7             |                         | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]   |



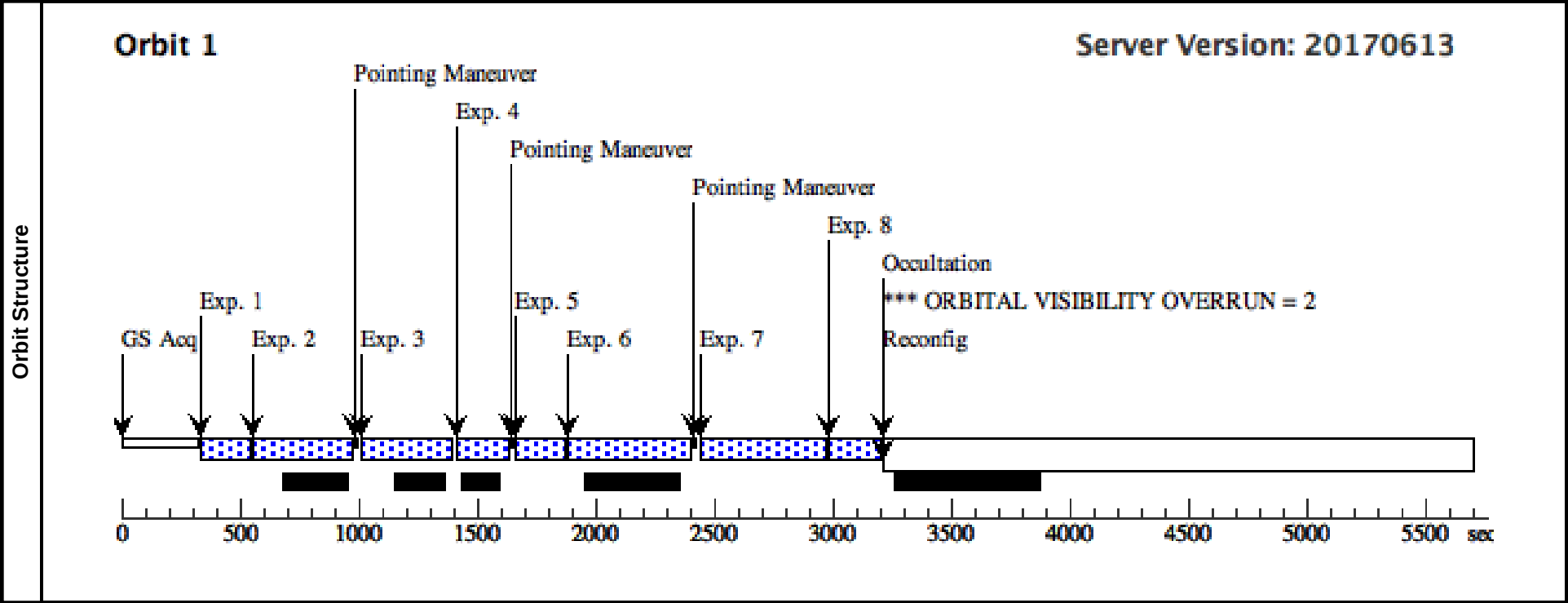
# Proposal 14096 - 12 PLCKESZ-G004.5-19.5 ACS2 (O3) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                         |                                                                                     |                             |               |                                |                         |                                                                   |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|-------------------------|-------------------------------------------------------------------|-----------------------------------------|-------|
| Visit         | Proposal 14096, 12 PLCKESZ-G004.5-19.5 ACS2 (O3), completed                                       |                         |                                                                                     |                             |               |                                |                         |                                                                   | Mon Aug 07 18:08:11 GMT 2017            |       |
|               | Diagnostic Status: Warning                                                                        |                         |                                                                                     |                             |               |                                |                         |                                                                   |                                         |       |
|               | Scientific Instruments: WFC3/IR, ACS/WFC                                                          |                         |                                                                                     |                             |               |                                |                         |                                                                   |                                         |       |
|               | Special Requirements: SCHED 40%; SAME ORIENT AS O1; AFTER O1 BY 40 D TO 60 D                      |                         |                                                                                     |                             |               |                                |                         |                                                                   |                                         |       |
| Diagnostics   | (12 PLCKESZ-G004.5-19.5 ACS2 (O3)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN            |                         |                                                                                     |                             |               |                                |                         |                                                                   |                                         |       |
| Fixed Targets | #                                                                                                 | Name                    | Target Coordinates                                                                  | Targ. Coord. Corrections    |               | Fluxes                         |                         | Miscellaneous                                                     |                                         |       |
|               | (121)                                                                                             | PLCKESZ-G004.5-19.5-ACS | RA: 19 17 5.1951 (289.2716463d)<br>Dec: -33 31 24.06 (-33.52335d)<br>Equinox: J2000 |                             |               | V=18                           |                         | Reference Frame: SIMBAD                                           |                                         |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                         |                                                                                     |                             |               |                                |                         |                                                                   |                                         |       |
| Exposures     | #                                                                                                 | Label                   | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.           | Groups                                                            | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                 |                         | (121) PLCKESZ-G004.5-19.5-ACS                                                       | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                |                         | Prime + Parallel Group up 1-2 in 12 PLCKESZ-G004.5-19.5 ACS2 (O3) | 483 Secs (483 Secs)<br>[==>]            | [1]   |
|               | 2                                                                                                 |                         | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=14;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group up 1-2 in 12 PLCKESZ-G004.5-19.5 ACS2 (O3) | 652.938154 Secs (652.938 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                 |                         | (121) PLCKESZ-G004.5-19.5-ACS                                                       | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group up 3-4 in 12 PLCKESZ-G004.5-19.5 ACS2 (O3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 4                                                                                                 |                         | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group up 3-4 in 12 PLCKESZ-G004.5-19.5 ACS2 (O3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                 |                         | (121) PLCKESZ-G004.5-19.5-ACS                                                       | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group up 5-6 in 12 PLCKESZ-G004.5-19.5 ACS2 (O3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 6                                                                                                 |                         | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group up 5-6 in 12 PLCKESZ-G004.5-19.5 ACS2 (O3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                 |                         | (121) PLCKESZ-G004.5-19.5-ACS                                                       | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                | POS TARG 0.2717,8 .9367 | Prime + Parallel Group up 7-8 in 12 PLCKESZ-G004.5-19.5 ACS2 (O3) | 483 Secs (483 Secs)<br>[==>]            | [1]   |
|               | 8                                                                                                 |                         | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=12;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group up 7-8 in 12 PLCKESZ-G004.5-19.5 ACS2 (O3) | 552.937252 Secs (552.937 Secs)<br>[==>] | [1]   |
|               |                                                                                                   |                         |                                                                                     |                             |               |                                |                         |                                                                   |                                         |       |
|               |                                                                                                   |                         |                                                                                     |                             |               |                                |                         |                                                                   |                                         |       |
|               |                                                                                                   |                         |                                                                                     |                             |               |                                |                         |                                                                   |                                         |       |



# Proposal 14096 - 12 PLCKESZ-G004.5-19.5 IR2 (O4) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                        |                        |                                                                                     |                             |               |                                |                           |        |                                         |                         |                              |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|---------------------------|--------|-----------------------------------------|-------------------------|------------------------------|
| Visit                                                                                             | Proposal 14096, 12 PLCKESZ-G004.5-19.5 IR2 (O4), completed                             |                        |                                                                                     |                             |               |                                |                           |        |                                         |                         | Mon Aug 07 18:08:11 GMT 2017 |
|                                                                                                   | Diagnostic Status: Warning                                                             |                        |                                                                                     |                             |               |                                |                           |        |                                         |                         |                              |
|                                                                                                   | Scientific Instruments: WFC3/IR                                                        |                        |                                                                                     |                             |               |                                |                           |        |                                         |                         |                              |
|                                                                                                   | Special Requirements: SCHED 40%; SAME ORIENT AS O1; AFTER O3 BY 1 Orbits TO 1.1 Orbits |                        |                                                                                     |                             |               |                                |                           |        |                                         |                         |                              |
| Diagnostics                                                                                       | (12 PLCKESZ-G004.5-19.5 IR2 (O4)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN  |                        |                                                                                     |                             |               |                                |                           |        |                                         |                         |                              |
|                                                                                                   |                                                                                        |                        |                                                                                     |                             |               |                                |                           |        |                                         |                         |                              |
| Fixed Targets                                                                                     | #                                                                                      | Name                   | Target Coordinates                                                                  |                             |               | Targ. Coord. Corrections       |                           | Fluxes |                                         | Miscellaneous           |                              |
|                                                                                                   | (122)                                                                                  | PLCKESZ-G004.5-19.5-IR | RA: 19 17 4.5127 (289.2688029d)<br>Dec: -33 31 28.53 (-33.52459d)<br>Equinox: J2000 |                             |               |                                |                           | V=18   |                                         | Reference Frame: SIMBAD |                              |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                        |                        |                                                                                     |                             |               |                                |                           |        |                                         |                         |                              |
| Exposures                                                                                         | #                                                                                      | Label                  | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.             | Groups | Exp. Time (Total)/[Actual Dur.]         |                         | Orbit                        |
|                                                                                                   | 1                                                                                      | F140W                  | (122) PLCKESZ-G0 04.5-19.5-IR                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 7.317,0.90825    |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 2                                                                                      | F105W                  | (122) PLCKESZ-G0 04.5-19.5-IR                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=9;<br>SAMP-SEQ=SPAR S50  | SAME POS AS 1             |        | 402.935899 Secs (402.936 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 3                                                                                      | F105W                  | (122) PLCKESZ-G0 04.5-19.5-IR                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0.47425, 0.6055  |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 4                                                                                      | F140W                  | (122) PLCKESZ-G0 04.5-19.5-IR                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 3             |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 5                                                                                      | F125W                  | (122) PLCKESZ-G0 04.5-19.5-IR                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0              |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 6                                                                                      | F160W                  | (122) PLCKESZ-G0 04.5-19.5-IR                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | SAME POS AS 5             |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 7                                                                                      | F160W                  | (122) PLCKESZ-G0 04.5-19.5-IR                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | POS TARG 6.48275, 0.30275 |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 8                                                                                      | F125W                  | (122) PLCKESZ-G0 04.5-19.5-IR                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 7             |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   |                                                                                        |                        |                                                                                     |                             |               |                                |                           |        |                                         |                         |                              |



# Proposal 14096 - 13 PLCKESZ-G308.3-20.2 ACS1 (P1) - RELICS: Reionization Lensing Cluster Survey

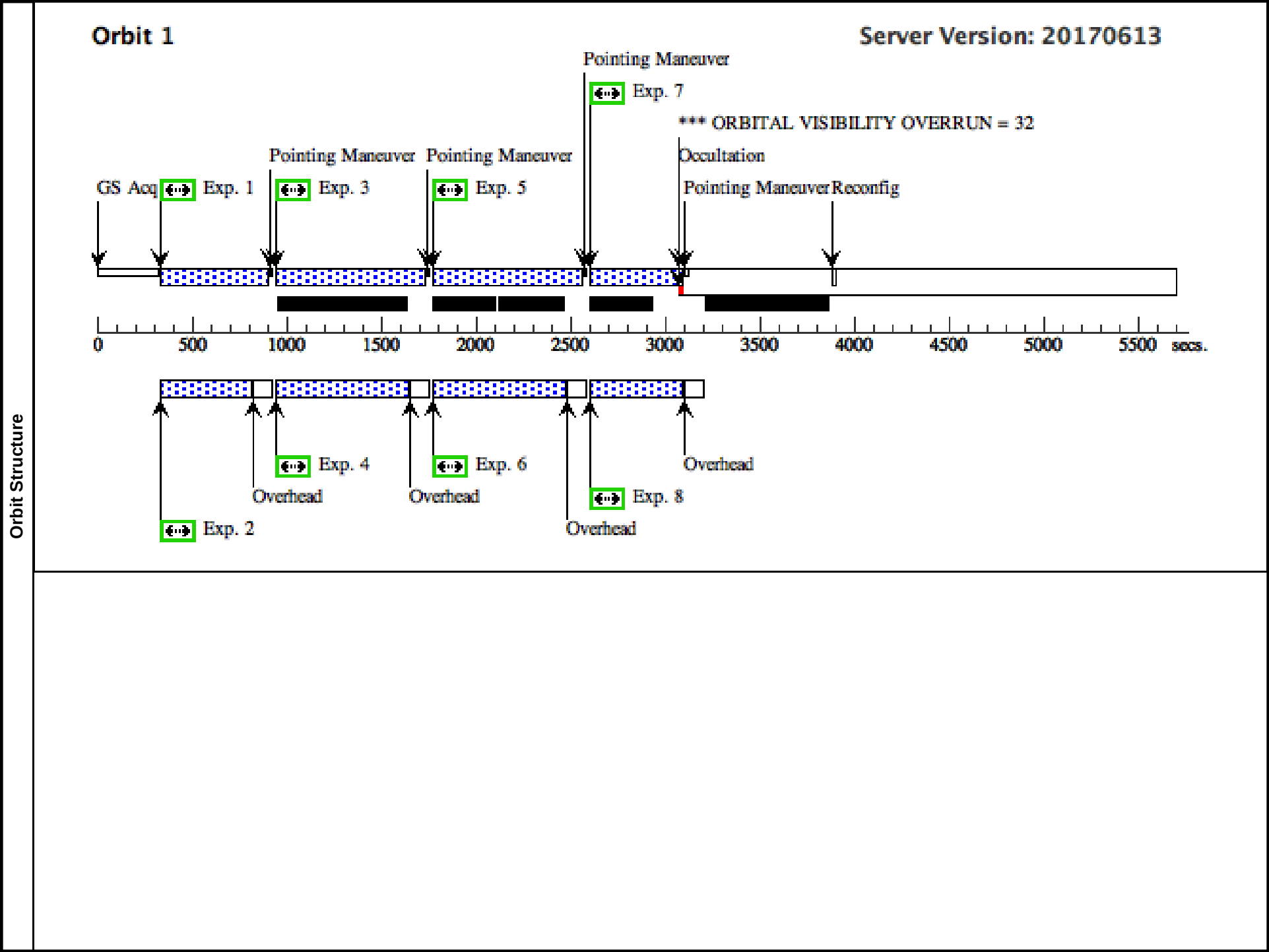
|                                                                                                   |                                                                                                                                                                                  |                     |                                                                                      |                          |        |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------|--------------------------|--------|
| Visit                                                                                             | <b>Proposal 14096, 13 PLCKESZ-G308.3-20.2 ACS1 (P1), completed</b> <span>Mon Aug 07 18:08:11 GMT 2017</span>                                                                     |                     |                                                                                      |                          |        |
|                                                                                                   | <b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC<br>Special Requirements: SCHED 100%                                                     |                     |                                                                                      |                          |        |
| Diagnostics                                                                                       | (13 PLCKESZ-G308.3-20.2 ACS1 (P1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(13 PLCKESZ-G308.3-20.2 ACS1 (P1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |                     |                                                                                      |                          |        |
|                                                                                                   |                                                                                                                                                                                  |                     |                                                                                      |                          |        |
| Fixed Targets                                                                                     | #                                                                                                                                                                                | Name                | Target Coordinates                                                                   | Targ. Coord. Corrections | Fluxes |
|                                                                                                   | (13)                                                                                                                                                                             | PLCKESZ-G308.3-20.2 | RA: 15 18 49.9074 (229.7079475d)<br>Dec: -81 30 33.56 (-81.50932d)<br>Equinox: J2000 |                          | V=18   |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                                                                                                                  |                     |                                                                                      |                          |        |
|                                                                                                   |                                                                                                                                                                                  |                     |                                                                                      |                          |        |

# Proposal 14096 - 13 PLCKESZ-G308.3-20.2 ACS1 (P1) - RELICS: Reionization Lensing Cluster Survey

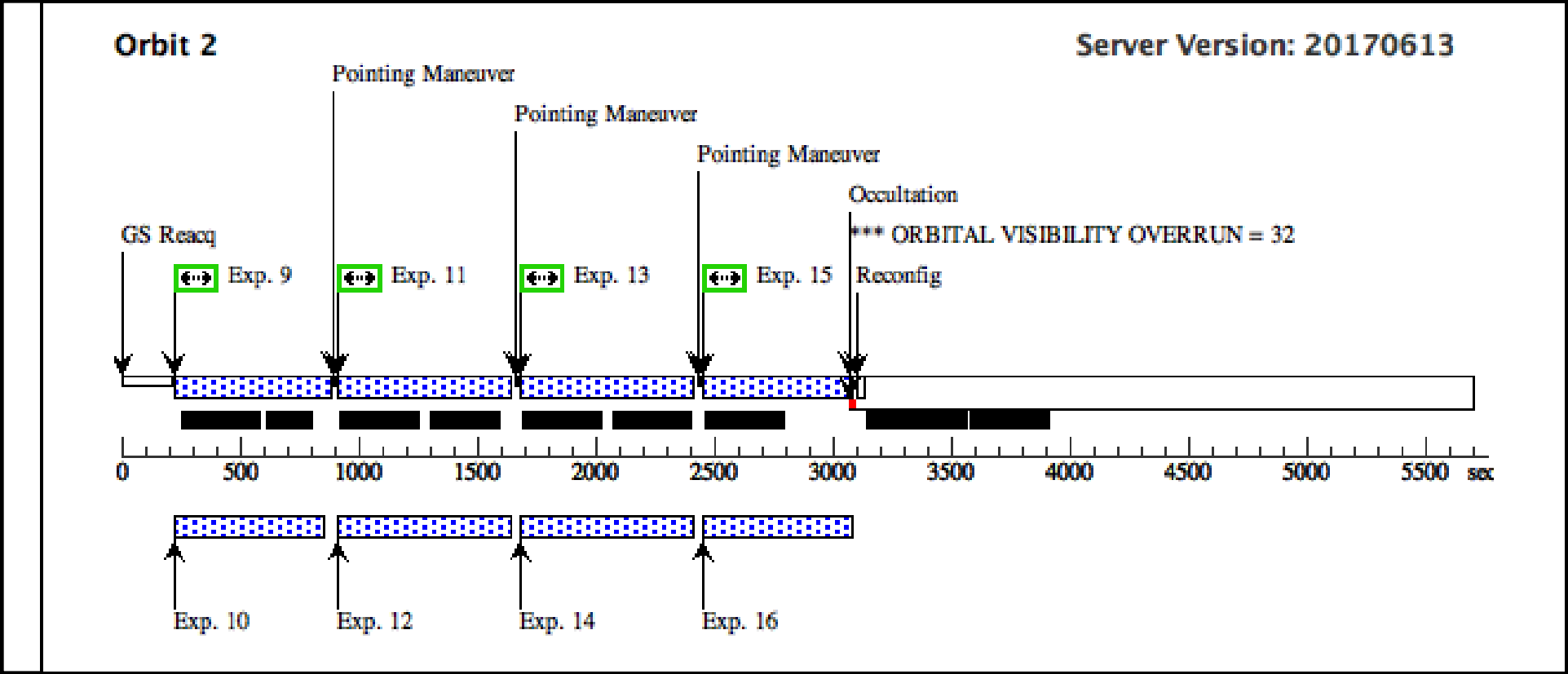
| Exposures | #  | Label | Target                   | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.           | Groups                                                           | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|----|-------|--------------------------|-----------------------------|---------------|--------------------------------|-------------------------|------------------------------------------------------------------|-----------------------------------------|-------|
|           | 1  |       | (13) PLCKESZ-G308.3-20.2 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                |                         | Prime + Parallel Group 1-2 in 13 PLCKESZ-G308.3-20.2 ACS1 (P1)   | 365 Secs (365 Secs)<br>[==>]            | [1]   |
|           | 2  |       | ANY                      | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 1-2 in 13 PLCKESZ-G308.3-20.2 ACS1 (P1)   | 449 Secs (449 Secs)<br>[==>]            | [1]   |
|           | 3  |       | (13) PLCKESZ-G308.3-20.2 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group 3-4 in 13 PLCKESZ-G308.3-20.2 ACS1 (P1)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 4  |       | ANY                      | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 3-4 in 13 PLCKESZ-G308.3-20.2 ACS1 (P1)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 5  |       | (13) PLCKESZ-G308.3-20.2 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 5-6 in 13 PLCKESZ-G308.3-20.2 ACS1 (P1)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 6  |       | ANY                      | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 5-6 in 13 PLCKESZ-G308.3-20.2 ACS1 (P1)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 7  |       | (13) PLCKESZ-G308.3-20.2 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 7-8 in 13 PLCKESZ-G308.3-20.2 ACS1 (P1)   | 365 Secs (365 Secs)<br>[==>]            | [1]   |
|           | 8  |       | ANY                      | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 7-8 in 13 PLCKESZ-G308.3-20.2 ACS1 (P1)   | 491 Secs (491 Secs)<br>[==>]            | [1]   |
|           | 9  |       | (13) PLCKESZ-G308.3-20.2 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                |                         | Prime + Parallel Group 9-10 in 13 PLCKESZ-G308.3-20.2 ACS1 (P1)  | 511 Secs (511 Secs)<br>[==>]            | [2]   |
|           | 10 |       | ANY                      | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=13;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 9-10 in 13 PLCKESZ-G308.3-20.2 ACS1 (P1)  | 602.937703 Secs (602.938 Secs)<br>[==>] | [2]   |
|           | 11 |       | (13) PLCKESZ-G308.3-20.2 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group 11-12 in 13 PLCKESZ-G308.3-20.2 ACS1 (P1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 12 |       | ANY                      | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 11-12 in 13 PLCKESZ-G308.3-20.2 ACS1 (P1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |
|           | 13 |       | (13) PLCKESZ-G308.3-20.2 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 13-14 in 13 PLCKESZ-G308.3-20.2 ACS1 (P1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 14 |       | ANY                      | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 13-14 in 13 PLCKESZ-G308.3-20.2 ACS1 (P1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |

Proposal 14096 - 13 PLCKESZ-G308.3-20.2 ACS1 (P1) - RELICS: Reionization Lensing Cluster Survey

|  |    |                          |                             |       |                                   |                                                                  |                                |       |     |
|--|----|--------------------------|-----------------------------|-------|-----------------------------------|------------------------------------------------------------------|--------------------------------|-------|-----|
|  | 15 | (13) PLCKESZ-G308.3-20.2 | ACS/WFC, ACCUM, WFCENTER    | F814W | POS TARG 0.2717,8<br>.9367        | Prime + Parallel Group 15-16 in 13 PLCKESZ-G308.3-20.2 ACS1 (P1) | 510 Secs (510 Secs)            | [==>] | [2] |
|  | 16 | ANY                      | WFC3/IR, MULTIACCUM, IR-FIX | F125W | NSAMP=13;<br>SAMP-SEQ=SPAR<br>S50 | Prime + Parallel Group 15-16 in 13 PLCKESZ-G308.3-20.2 ACS1 (P1) | 602.937703 Secs (602.938 Secs) | [==>] | [2] |

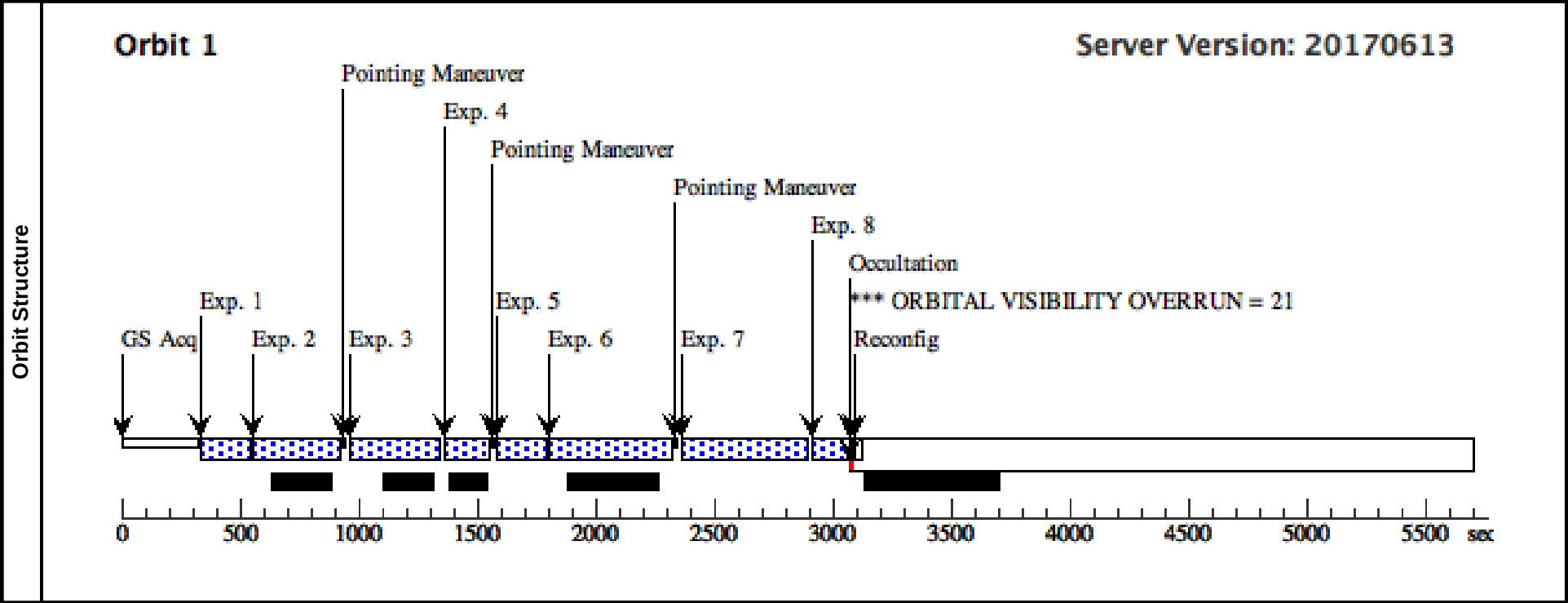


Orbit Structure



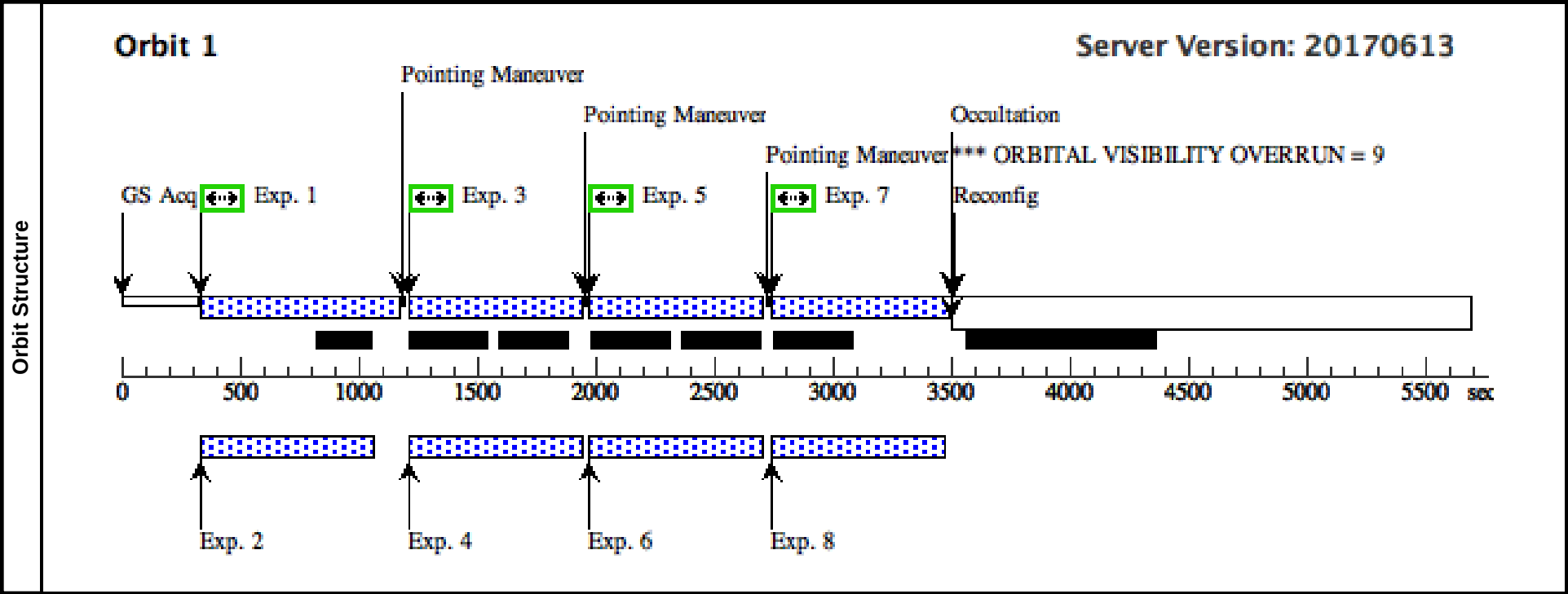
# Proposal 14096 - 13 PLCKESZ-G308.3-20.2 IR1 (P2) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                     |                                                                                      |                             |               |                                   |                           |        |                                         |                         |                              |
|---------------|---------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|---------------------------|--------|-----------------------------------------|-------------------------|------------------------------|
| Visit         | Proposal 14096, 13 PLCKESZ-G308.3-20.2 IR1 (P2), completed                                        |                     |                                                                                      |                             |               |                                   |                           |        |                                         |                         | Mon Aug 07 18:08:11 GMT 2017 |
|               | Diagnostic Status: Warning                                                                        |                     |                                                                                      |                             |               |                                   |                           |        |                                         |                         |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |                     |                                                                                      |                             |               |                                   |                           |        |                                         |                         |                              |
|               | Special Requirements: SCHED 100%; SAME ORIENT AS P1; AFTER P1 BY 2 Orbits TO 2.1 Orbits           |                     |                                                                                      |                             |               |                                   |                           |        |                                         |                         |                              |
| Diagnostics   | (13 PLCKESZ-G308.3-20.2 IR1 (P2)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN             |                     |                                                                                      |                             |               |                                   |                           |        |                                         |                         |                              |
| Fixed Targets | #                                                                                                 | Name                | Target Coordinates                                                                   |                             |               | Targ. Coord. Corrections          |                           | Fluxes |                                         | Miscellaneous           |                              |
|               | (13)                                                                                              | PLCKESZ-G308.3-20.2 | RA: 15 18 49.9074 (229.7079475d)<br>Dec: -81 30 33.56 (-81.50932d)<br>Equinox: J2000 |                             |               |                                   |                           | V=18   |                                         | Reference Frame: SIMBAD |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                     |                                                                                      |                             |               |                                   |                           |        |                                         |                         |                              |
|               |                                                                                                   |                     |                                                                                      |                             |               |                                   |                           |        |                                         |                         |                              |
| Exposures     | #                                                                                                 | Label               | Target                                                                               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.             | Groups | Exp. Time (Total)/[Actual Dur.]         |                         | Orbit                        |
|               | 1                                                                                                 | F140W               | (13) PLCKESZ-G308.3-20.2                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                           |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 2                                                                                                 | F105W               | (13) PLCKESZ-G308.3-20.2                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1             |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|               | 3                                                                                                 | F105W               | (13) PLCKESZ-G308.3-20.2                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275, 0.30275 |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|               | 4                                                                                                 | F140W               | (13) PLCKESZ-G308.3-20.2                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3             |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 5                                                                                                 | F125W               | (13) PLCKESZ-G308.3-20.2                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.90825    |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 6                                                                                                 | F160W               | (13) PLCKESZ-G308.3-20.2                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5             |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |
|               | 7                                                                                                 | F160W               | (13) PLCKESZ-G308.3-20.2                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425, 0.6055  |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |
|               | 8                                                                                                 | F125W               | (13) PLCKESZ-G308.3-20.2                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7             |        | 152.935381 Secs (152.935 Secs)<br>[==>] |                         | [1]                          |
|               |                                                                                                   |                     |                                                                                      |                             |               |                                   |                           |        |                                         |                         |                              |
|               |                                                                                                   |                     |                                                                                      |                             |               |                                   |                           |        |                                         |                         |                              |



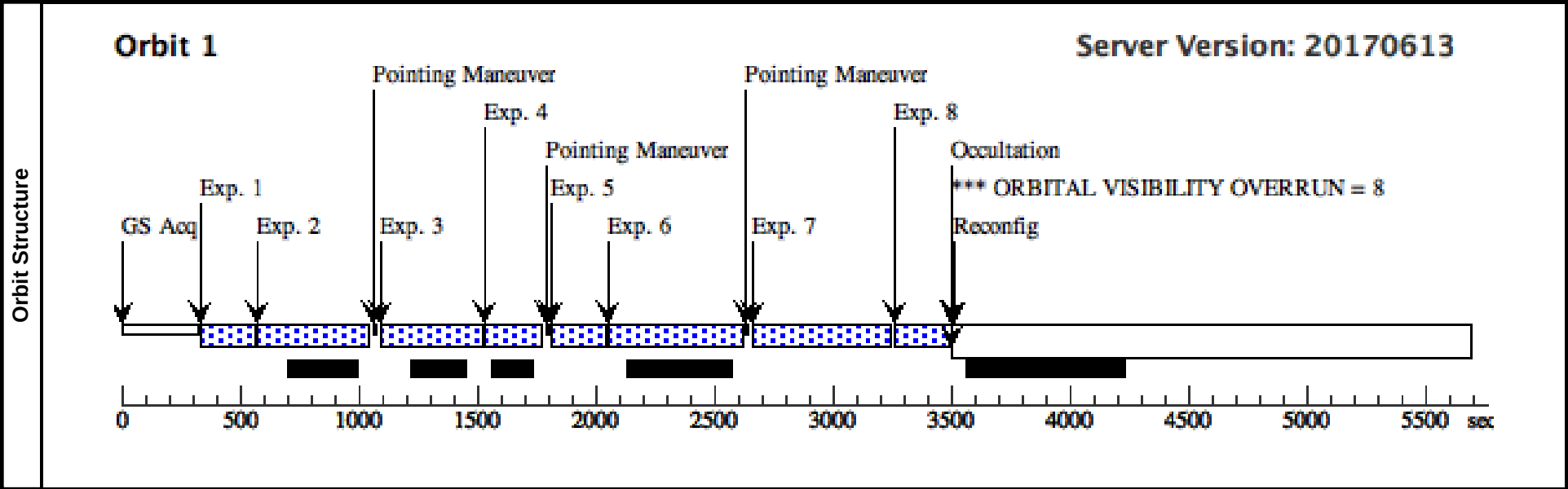
# Proposal 14096 - 13 PLCKESZ-G308.3-20.2 ACS2 (P3) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                     |                                                                                      |                             |               |                               |                         |                                                                |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------|-----------------------------|---------------|-------------------------------|-------------------------|----------------------------------------------------------------|-----------------------------------------|-------|
| Visit         | Proposal 14096, 13 PLCKESZ-G308.3-20.2 ACS2 (P3), completed                                       |                     |                                                                                      |                             |               |                               |                         |                                                                | Mon Aug 07 18:08:11 GMT 2017            |       |
|               | Diagnostic Status: Warning                                                                        |                     |                                                                                      |                             |               |                               |                         |                                                                |                                         |       |
|               | Scientific Instruments: WFC3/IR, ACS/WFC                                                          |                     |                                                                                      |                             |               |                               |                         |                                                                |                                         |       |
|               | Special Requirements: SCHED 40%; SAME ORIENT AS P1; AFTER P1 BY 40 D TO 60 D                      |                     |                                                                                      |                             |               |                               |                         |                                                                |                                         |       |
| Diagnostics   | (13 PLCKESZ-G308.3-20.2 ACS2 (P3)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN            |                     |                                                                                      |                             |               |                               |                         |                                                                |                                         |       |
| Fixed Targets | #                                                                                                 | Name                | Target Coordinates                                                                   | Targ. Coord. Corrections    |               | Fluxes                        |                         | Miscellaneous                                                  |                                         |       |
|               | (13)                                                                                              | PLCKESZ-G308.3-20.2 | RA: 15 18 49.9074 (229.7079475d)<br>Dec: -81 30 33.56 (-81.50932d)<br>Equinox: J2000 |                             |               | V=18                          |                         | Reference Frame: SIMBAD                                        |                                         |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                     |                                                                                      |                             |               |                               |                         |                                                                |                                         |       |
|               |                                                                                                   |                     |                                                                                      |                             |               |                               |                         |                                                                |                                         |       |
| Exposures     | #                                                                                                 | Label               | Target                                                                               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                  | Special Reqs.           | Groups                                                         | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                 |                     | (13) PLCKESZ-G308.3-20.2                                                             | ACS/WFC, ACCUM, WFCENTER    | F606W         |                               |                         | Prime + Parallel Group 1-2 in 13 PLCKESZ-G308.3-20.2 ACS2 (P3) | 633 Secs (633 Secs)<br>[==>]            | [1]   |
|               | 2                                                                                                 |                     | ANY                                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=15;<br>SAMP-SEQ=SPARS50 |                         | Prime + Parallel Group 1-2 in 13 PLCKESZ-G308.3-20.2 ACS2 (P3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                 |                     | (13) PLCKESZ-G308.3-20.2                                                             | ACS/WFC, ACCUM, WFCENTER    | F606W         |                               | POS TARG 0.0741,2 .970  | Prime + Parallel Group 3-4 in 13 PLCKESZ-G308.3-20.2 ACS2 (P3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 4                                                                                                 |                     | ANY                                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPARS50 |                         | Prime + Parallel Group 3-4 in 13 PLCKESZ-G308.3-20.2 ACS2 (P3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                 |                     | (13) PLCKESZ-G308.3-20.2                                                             | ACS/WFC, ACCUM, WFCENTER    | F606W         |                               | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 5-6 in 13 PLCKESZ-G308.3-20.2 ACS2 (P3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 6                                                                                                 |                     | ANY                                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPARS50 |                         | Prime + Parallel Group 5-6 in 13 PLCKESZ-G308.3-20.2 ACS2 (P3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                 |                     | (13) PLCKESZ-G308.3-20.2                                                             | ACS/WFC, ACCUM, WFCENTER    | F606W         |                               | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 7-8 in 13 PLCKESZ-G308.3-20.2 ACS2 (P3) | 632 Secs (632 Secs)<br>[==>]            | [1]   |
|               | 8                                                                                                 |                     | ANY                                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=15;<br>SAMP-SEQ=SPARS50 |                         | Prime + Parallel Group 7-8 in 13 PLCKESZ-G308.3-20.2 ACS2 (P3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               |                                                                                                   |                     |                                                                                      |                             |               |                               |                         |                                                                |                                         |       |
|               |                                                                                                   |                     |                                                                                      |                             |               |                               |                         |                                                                |                                         |       |
|               |                                                                                                   |                     |                                                                                      |                             |               |                               |                         |                                                                |                                         |       |
|               |                                                                                                   |                     |                                                                                      |                             |               |                               |                         |                                                                |                                         |       |
|               |                                                                                                   |                     |                                                                                      |                             |               |                               |                         |                                                                |                                         |       |
|               |                                                                                                   |                     |                                                                                      |                             |               |                               |                         |                                                                |                                         |       |



# Proposal 14096 - 13 PLCKESZ-G308.3-20.2 IR2 (P4) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                     |                                                                                      |                             |               |                                   |                          |        |                                         |                         |                              |
|---------------|---------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|--------------------------|--------|-----------------------------------------|-------------------------|------------------------------|
| Visit         | Proposal 14096, 13 PLCKESZ-G308.3-20.2 IR2 (P4), completed                                        |                     |                                                                                      |                             |               |                                   |                          |        |                                         |                         | Mon Aug 07 18:08:11 GMT 2017 |
|               | Diagnostic Status: Warning                                                                        |                     |                                                                                      |                             |               |                                   |                          |        |                                         |                         |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |                     |                                                                                      |                             |               |                                   |                          |        |                                         |                         |                              |
|               | Special Requirements: SCHED 40%; SAME ORIENT AS P1; AFTER P3 BY 1 Orbits TO 1.1 Orbits            |                     |                                                                                      |                             |               |                                   |                          |        |                                         |                         |                              |
| Diagnostics   | (13 PLCKESZ-G308.3-20.2 IR2 (P4)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN             |                     |                                                                                      |                             |               |                                   |                          |        |                                         |                         |                              |
| Fixed Targets | #                                                                                                 | Name                | Target Coordinates                                                                   |                             |               | Targ. Coord. Corrections          |                          | Fluxes |                                         | Miscellaneous           |                              |
|               | (13)                                                                                              | PLCKESZ-G308.3-20.2 | RA: 15 18 49.9074 (229.7079475d)<br>Dec: -81 30 33.56 (-81.50932d)<br>Equinox: J2000 |                             |               |                                   |                          | V=18   |                                         | Reference Frame: SIMBAD |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                     |                                                                                      |                             |               |                                   |                          |        |                                         |                         |                              |
|               |                                                                                                   |                     |                                                                                      |                             |               |                                   |                          |        |                                         |                         |                              |
| Exposures     | #                                                                                                 | Label               | Target                                                                               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.            | Groups | Exp. Time (Total)/[Actual Dur.]         |                         | Orbit                        |
|               | 1                                                                                                 | F140W               | (13) PLCKESZ-G308.3-20.2                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.90825   |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                         | [1]                          |
|               | 2                                                                                                 | F105W               | (13) PLCKESZ-G308.3-20.2                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 1            |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |                         | [1]                          |
|               | 3                                                                                                 | F105W               | (13) PLCKESZ-G308.3-20.2                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,0.6055  |        | 402.935899 Secs (402.936 Secs)<br>[==>] |                         | [1]                          |
|               | 4                                                                                                 | F140W               | (13) PLCKESZ-G308.3-20.2                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S25 | SAME POS AS 3            |        | 227.936926 Secs (227.937 Secs)<br>[==>] |                         | [1]                          |
|               | 5                                                                                                 | F125W               | (13) PLCKESZ-G308.3-20.2                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0             |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                         | [1]                          |
|               | 6                                                                                                 | F160W               | (13) PLCKESZ-G308.3-20.2                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5            |        | 552.937252 Secs (552.937 Secs)<br>[==>] |                         | [1]                          |
|               | 7                                                                                                 | F160W               | (13) PLCKESZ-G308.3-20.2                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,0.30275 |        | 552.937252 Secs (552.937 Secs)<br>[==>] |                         | [1]                          |
|               | 8                                                                                                 | F125W               | (13) PLCKESZ-G308.3-20.2                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S25 | SAME POS AS 7            |        | 227.936926 Secs (227.937 Secs)<br>[==>] |                         | [1]                          |
|               |                                                                                                   |                     |                                                                                      |                             |               |                                   |                          |        |                                         |                         |                              |
|               |                                                                                                   |                     |                                                                                      |                             |               |                                   |                          |        |                                         |                         |                              |

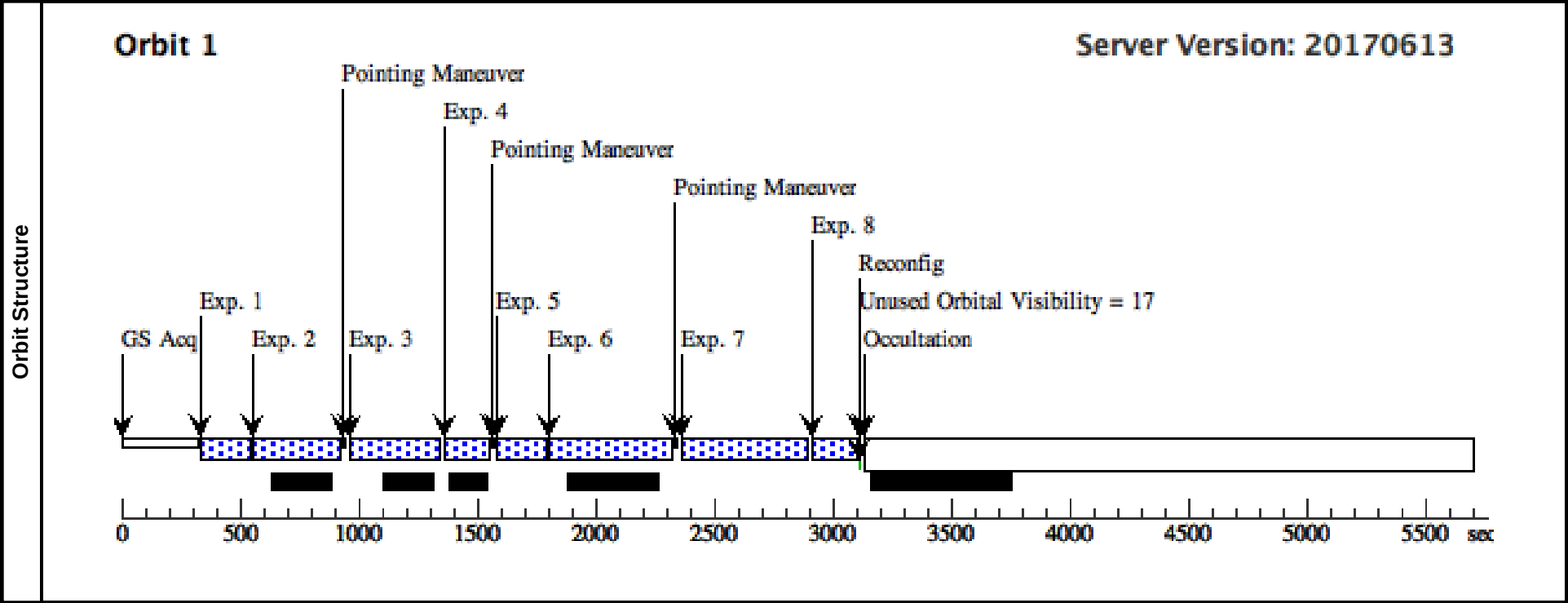


# Proposal 14096 - 14 CLG-0016+16 ACS1 (Q1) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                                                                                                                         |             |                                                                                  |                          |               |                         |                              |        |                                 |       |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------|--------------------------|---------------|-------------------------|------------------------------|--------|---------------------------------|-------|
| Visit                                                                                             | Proposal 14096, 14 CLG-0016+16 ACS1 (Q1), completed                                                                                                                                     |             |                                                                                  |                          |               |                         | Mon Aug 07 18:08:11 GMT 2017 |        |                                 |       |
|                                                                                                   | Diagnostic Status: Warning                                                                                                                                                              |             |                                                                                  |                          |               |                         |                              |        |                                 |       |
|                                                                                                   | Scientific Instruments: ACS/WFC                                                                                                                                                         |             |                                                                                  |                          |               |                         |                              |        |                                 |       |
|                                                                                                   | Special Requirements: SCHED 50%; ORIENT 80D TO 80 D                                                                                                                                     |             |                                                                                  |                          |               |                         |                              |        |                                 |       |
| Diagnostics                                                                                       | (14 CLG-0016+16 ACS1 (Q1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                          |             |                                                                                  |                          |               |                         |                              |        |                                 |       |
| Fixed Targets                                                                                     | #                                                                                                                                                                                       | Name        | Target Coordinates                                                               | Targ. Coord. Corrections | Fluxes        | Miscellaneous           |                              |        |                                 |       |
|                                                                                                   | (14)                                                                                                                                                                                    | CLG-0016+16 | RA: 00 18 32.5585 (4.6356604d)<br>Dec: +16 26 8.42 (16.43567d)<br>Equinox: J2000 |                          | V=18          | Reference Frame: SIMBAD |                              |        |                                 |       |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                                                                                                                         |             |                                                                                  |                          |               |                         |                              |        |                                 |       |
| Exposures                                                                                         | #                                                                                                                                                                                       | Label       | Target                                                                           | Config,Mode,Aperture     | Spectral Els. | Opt. Params.            | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|                                                                                                   | 1                                                                                                                                                                                       |             | (14) CLG-0016+16                                                                 | ACS/WFC, ACCUM, WFCENTER | F435W         |                         |                              |        | 525 Secs (525 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                         |             |                                                                                  |                          |               |                         |                              |        | [==>]                           | [1]   |
|                                                                                                   | 2                                                                                                                                                                                       |             | (14) CLG-0016+16                                                                 | ACS/WFC, ACCUM, WFCENTER | F435W         |                         | POS TARG 0.0741,2<br>.970    |        | 525 Secs (525 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                         |             |                                                                                  |                          |               |                         |                              |        | [==>]                           | [1]   |
|                                                                                                   | 3                                                                                                                                                                                       |             | (14) CLG-0016+16                                                                 | ACS/WFC, ACCUM, WFCENTER | F435W         |                         | POS TARG 0.1976,5<br>.9687   |        | 524 Secs (524 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                         |             |                                                                                  |                          |               |                         |                              |        | [==>]                           | [1]   |
|                                                                                                   | 4                                                                                                                                                                                       |             | (14) CLG-0016+16                                                                 | ACS/WFC, ACCUM, WFCENTER | F435W         |                         | POS TARG 0.2717,8<br>.9367   |        | 524 Secs (524 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                         |             |                                                                                  |                          |               |                         |                              | [==>]  | [1]                             |       |
| Orbit Structure                                                                                   | <div>Orbit 1<div>Server Version: 20170613</div><div>GS Acq<div>Exp. 1</div><div>Exp. 2</div><div>Exp. 3</div><div>Exp. 4</div><div>*** ORBITAL VISIBILITY OVERRUN = 3</div></div></div> |             |                                                                                  |                          |               |                         |                              |        |                                 |       |
|                                                                                                   | <div>05001000150020002500300035004000450050005500sec</div>                                                                                                                              |             |                                                                                  |                          |               |                         |                              |        |                                 |       |

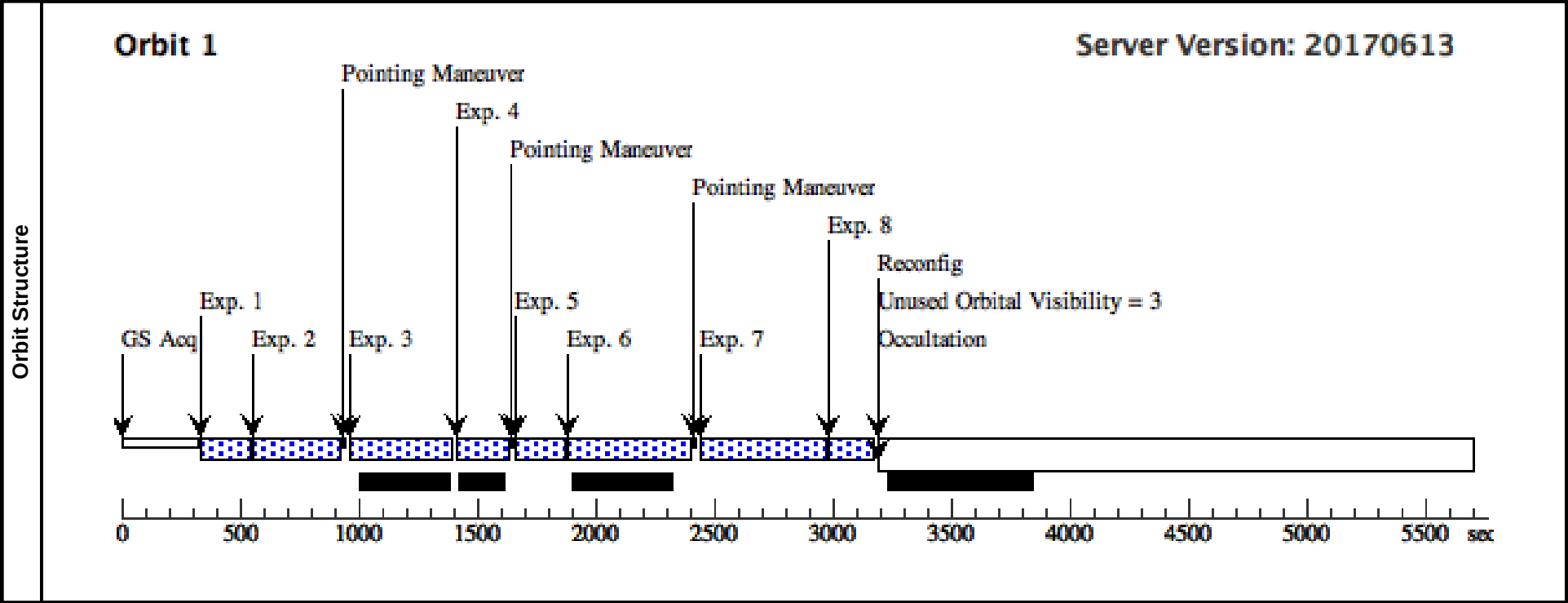
# Proposal 14096 - 14 CLG-0016+16 IR1 (Q2) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |             |                                                                                  |                             |  |                          |                                   |        |                              |                         |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------|-----------------------------|--|--------------------------|-----------------------------------|--------|------------------------------|-------------------------|-----------------------------------------|-------|
| Visit         | Proposal 14096, 14 CLG-0016+16 IR1 (Q2), completed                                                |             |                                                                                  |                             |  |                          |                                   |        |                              |                         | Mon Aug 07 18:08:11 GMT 2017            |       |
|               | Diagnostic Status: No Diagnostics                                                                 |             |                                                                                  |                             |  |                          |                                   |        |                              |                         |                                         |       |
|               | Scientific Instruments: WFC3/IR                                                                   |             |                                                                                  |                             |  |                          |                                   |        |                              |                         |                                         |       |
|               | Special Requirements: SCHED 50%; SAME ORIENT AS Q1; AFTER Q1 BY 0.9 Orbits TO 1.1 Orbits          |             |                                                                                  |                             |  |                          |                                   |        |                              |                         |                                         |       |
| Fixed Targets | #                                                                                                 | Name        | Target Coordinates                                                               |                             |  | Targ. Coord. Corrections |                                   | Fluxes |                              | Miscellaneous           |                                         |       |
|               | (14)                                                                                              | CLG-0016+16 | RA: 00 18 32.5585 (4.6356604d)<br>Dec: +16 26 8.42 (16.43567d)<br>Equinox: J2000 |                             |  |                          |                                   | V=18   |                              | Reference Frame: SIMBAD |                                         |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |             |                                                                                  |                             |  |                          |                                   |        |                              |                         |                                         |       |
|               |                                                                                                   |             |                                                                                  |                             |  |                          |                                   |        |                              |                         |                                         |       |
| Exposures     | #                                                                                                 | Label       | Target                                                                           | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                      |        | Special Reqs.                | Groups                  | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                 | F140W       | (14) CLG-0016+16                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |        |                              |                         | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                 | F105W       | (14) CLG-0016+16                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  |        | SAME POS AS 1                |                         | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                 | F105W       | (14) CLG-0016+16                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  |        | POS TARG 6.84275,<br>0.30275 |                         | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                 | F140W       | (14) CLG-0016+16                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |        | SAME POS AS 3                |                         | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                 | F125W       | (14) CLG-0016+16                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |        | POS TARG 7.317,0.<br>90825   |                         | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                 | F160W       | (14) CLG-0016+16                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 |        | SAME POS AS 5                |                         | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                 | F160W       | (14) CLG-0016+16                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 |        | POS TARG 0.47425,<br>0.6055  |                         | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                 | F125W       | (14) CLG-0016+16                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |        | SAME POS AS 7                |                         | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |



# Proposal 14096 - 14 CLG-0016+16 IR2 (Q4) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |             |                                                                                  |                             |  |                          |                                   |                              |        |                                 |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------|-----------------------------|--|--------------------------|-----------------------------------|------------------------------|--------|---------------------------------|-----------------------------------------|-------|
| Visit         | Proposal 14096, 14 CLG-0016+16 IR2 (Q4), completed                                                |             |                                                                                  |                             |  |                          |                                   |                              |        |                                 | Mon Aug 07 18:08:11 GMT 2017            |       |
|               | Diagnostic Status: No Diagnostics                                                                 |             |                                                                                  |                             |  |                          |                                   |                              |        |                                 |                                         |       |
|               | Scientific Instruments: WFC3/IR                                                                   |             |                                                                                  |                             |  |                          |                                   |                              |        |                                 |                                         |       |
|               | Special Requirements: SCHED 40%; SAME ORIENT AS Q1; AFTER Q2 BY 40 D TO 60 D                      |             |                                                                                  |                             |  |                          |                                   |                              |        |                                 |                                         |       |
| Fixed Targets | #                                                                                                 | Name        | Target Coordinates                                                               |                             |  | Targ. Coord. Corrections |                                   | Fluxes                       |        | Miscellaneous                   |                                         |       |
|               | (14)                                                                                              | CLG-0016+16 | RA: 00 18 32.5585 (4.6356604d)<br>Dec: +16 26 8.42 (16.43567d)<br>Equinox: J2000 |                             |  |                          |                                   | V=18                         |        | Reference Frame: SIMBAD         |                                         |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |             |                                                                                  |                             |  |                          |                                   |                              |        |                                 |                                         |       |
|               |                                                                                                   |             |                                                                                  |                             |  |                          |                                   |                              |        |                                 |                                         |       |
| Exposures     | #                                                                                                 | Label       | Target                                                                           | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.] |                                         | Orbit |
|               | 1                                                                                                 | F140W       | (14) CLG-0016+16                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                 | F105W       | (14) CLG-0016+16                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        |                                 | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                 | F105W       | (14) CLG-0016+16                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,<br>0.6055  |        |                                 | 402.935899 Secs (402.936 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                 | F140W       | (14) CLG-0016+16                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        |                                 | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                 | F125W       | (14) CLG-0016+16                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0                 |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                 | F160W       | (14) CLG-0016+16                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        |                                 | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                 | F160W       | (14) CLG-0016+16                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,<br>0.30275 |        |                                 | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                 | F125W       | (14) CLG-0016+16                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |



# Proposal 14096 - 15 SPT-CL-J0254-5856 ACS1 (R1) - RELICS: Reionization Lensing Cluster Survey

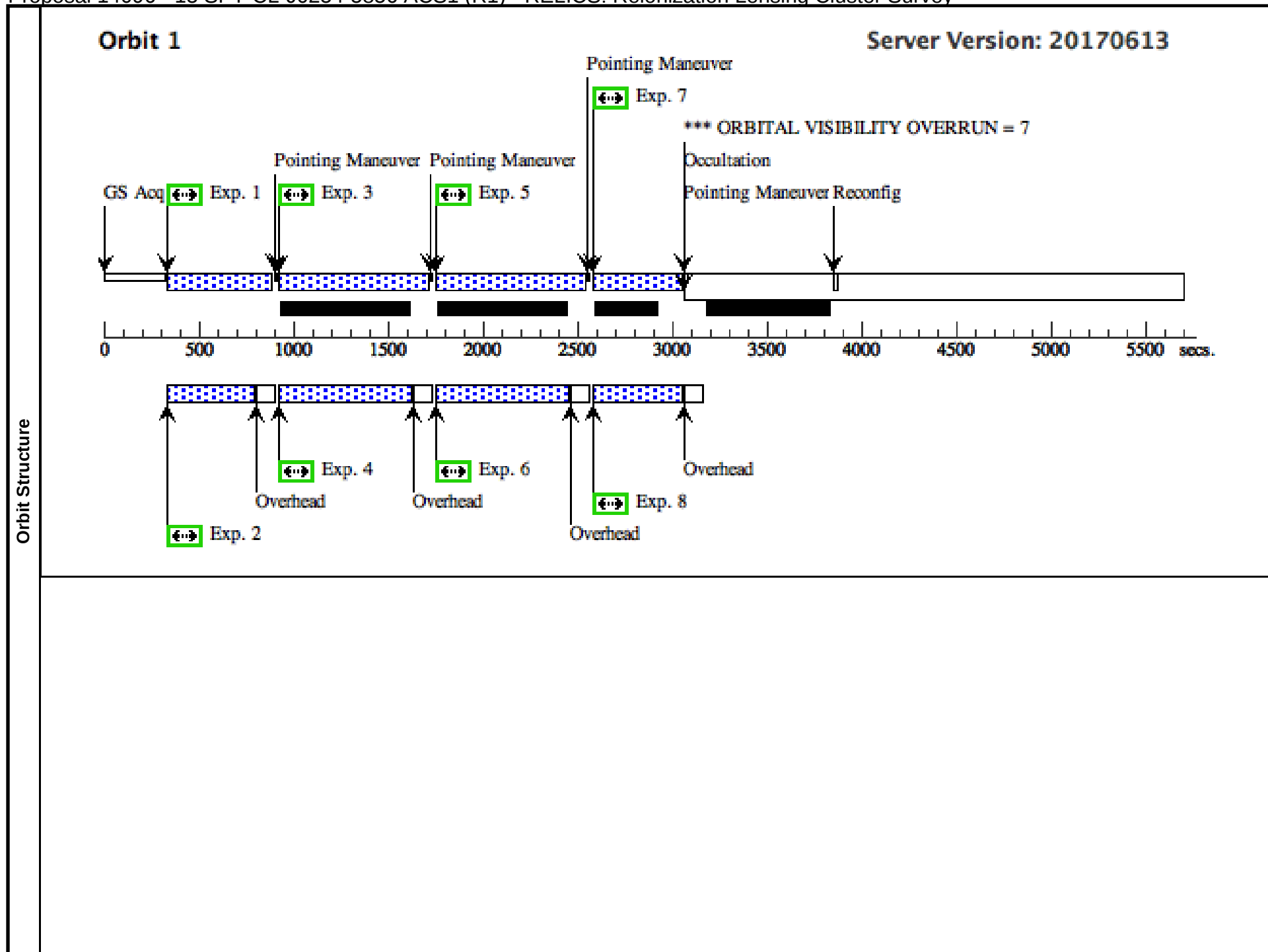
|               |                                                                                                   |                   |                                                                                     |                          |        |                              |
|---------------|---------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------|--------------------------|--------|------------------------------|
| Visit         | Proposal 14096, 15 SPT-CL-J0254-5856 ACS1 (R1), completed                                         |                   |                                                                                     |                          |        | Mon Aug 07 18:08:11 GMT 2017 |
|               | Diagnostic Status: Warning                                                                        |                   |                                                                                     |                          |        |                              |
|               | Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC                                               |                   |                                                                                     |                          |        |                              |
|               | Special Requirements: SCHED 90%                                                                   |                   |                                                                                     |                          |        |                              |
| Diagnostics   | (15 SPT-CL-J0254-5856 ACS1 (R1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN              |                   |                                                                                     |                          |        |                              |
|               | (15 SPT-CL-J0254-5856 ACS1 (R1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN              |                   |                                                                                     |                          |        |                              |
| Fixed Targets | #                                                                                                 | Name              | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes | Miscellaneous                |
|               | (15)                                                                                              | SPT-CL-J0254-5856 | RA: 02 54 16.0000 (43.5666667d)<br>Dec: -58 57 11.00 (-58.95306d)<br>Equinox: J2000 |                          | V=18   | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                   |                                                                                     |                          |        |                              |

# Proposal 14096 - 15 SPT-CL-J0254-5856 ACS1 (R1) - RELICS: Reionization Lensing Cluster Survey

| Exposures | #  | Label | Target                 | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.           | Groups                                                         | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|----|-------|------------------------|-----------------------------|---------------|--------------------------------|-------------------------|----------------------------------------------------------------|-----------------------------------------|-------|
|           | 1  |       | (15) SPT-CL-J0254-5856 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                |                         | Prime + Parallel Group 1-2 in 15 SPT-CL-J0254-5856 ACS1 (R1)   | 347 Secs (347 Secs)<br>[==>]            | [1]   |
|           | 2  |       | ANY                    | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 1-2 in 15 SPT-CL-J0254-5856 ACS1 (R1)   | 431 Secs (431 Secs)<br>[==>]            | [1]   |
|           | 3  |       | (15) SPT-CL-J0254-5856 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group 3-4 in 15 SPT-CL-J0254-5856 ACS1 (R1)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 4  |       | ANY                    | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 3-4 in 15 SPT-CL-J0254-5856 ACS1 (R1)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 5  |       | (15) SPT-CL-J0254-5856 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 5-6 in 15 SPT-CL-J0254-5856 ACS1 (R1)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 6  |       | ANY                    | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 5-6 in 15 SPT-CL-J0254-5856 ACS1 (R1)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 7  |       | (15) SPT-CL-J0254-5856 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 7-8 in 15 SPT-CL-J0254-5856 ACS1 (R1)   | 347 Secs (347 Secs)<br>[==>]            | [1]   |
|           | 8  |       | ANY                    | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 7-8 in 15 SPT-CL-J0254-5856 ACS1 (R1)   | 473 Secs (473 Secs)<br>[==>]            | [1]   |
|           | 9  |       | (15) SPT-CL-J0254-5856 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                |                         | Prime + Parallel Group 9-10 in 15 SPT-CL-J0254-5856 ACS1 (R1)  | 493 Secs (493 Secs)<br>[==>]            | [2]   |
|           | 10 |       | ANY                    | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=13;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 9-10 in 15 SPT-CL-J0254-5856 ACS1 (R1)  | 602.937703 Secs (602.938 Secs)<br>[==>] | [2]   |
|           | 11 |       | (15) SPT-CL-J0254-5856 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group 11-12 in 15 SPT-CL-J0254-5856 ACS1 (R1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 12 |       | ANY                    | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 11-12 in 15 SPT-CL-J0254-5856 ACS1 (R1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |
|           | 13 |       | (15) SPT-CL-J0254-5856 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 13-14 in 15 SPT-CL-J0254-5856 ACS1 (R1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 14 |       | ANY                    | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 13-14 in 15 SPT-CL-J0254-5856 ACS1 (R1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |

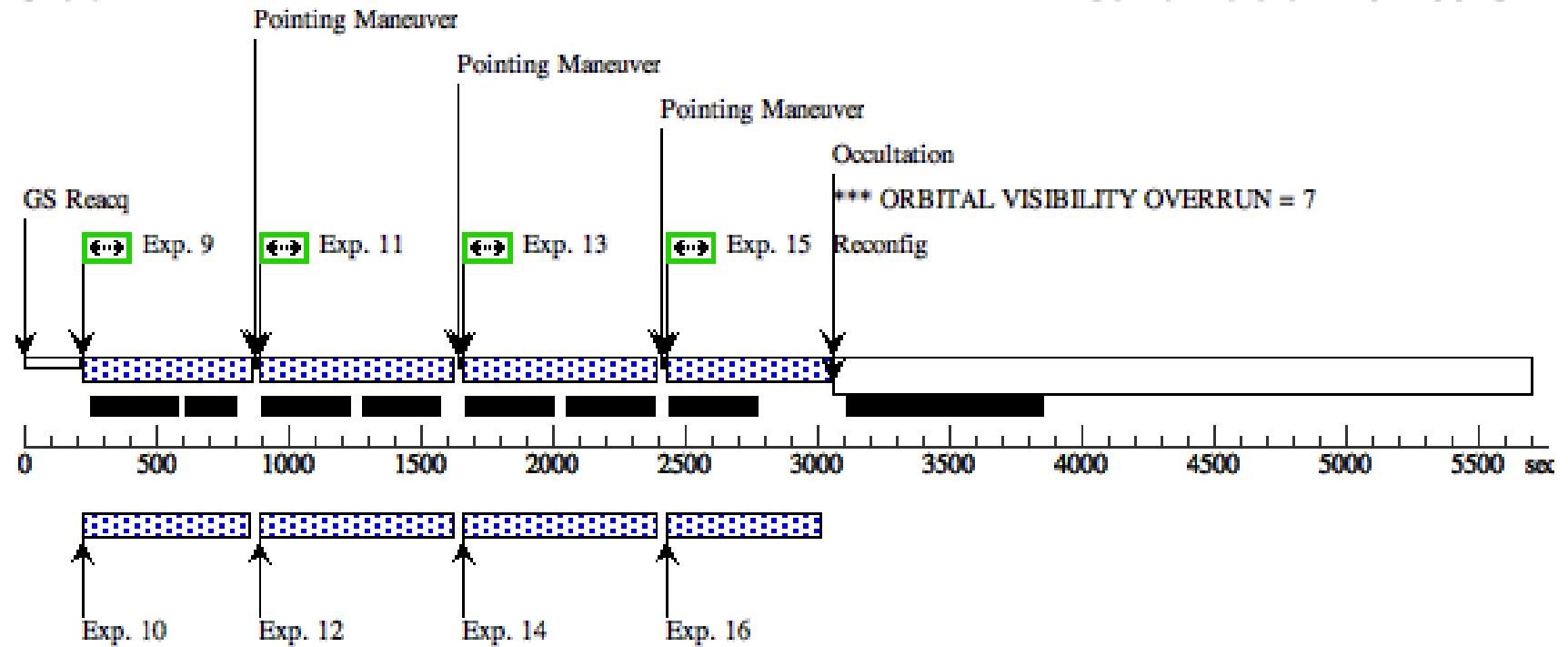
# Proposal 14096 - 15 SPT-CL-J0254-5856 ACS1 (R1) - RELICS: Reionization Lensing Cluster Survey

|  |    |                        |                             |       |                                   |                                                                 |                                |       |     |
|--|----|------------------------|-----------------------------|-------|-----------------------------------|-----------------------------------------------------------------|--------------------------------|-------|-----|
|  | 15 | (15) SPT-CL-J0254-5856 | ACS/WFC, ACCUM, WFCENTER    | F814W | POS TARG 0.2717,8 .9367           | Prime + Parallel Group 15-16 in 15 SPT-CL-J0254-5856 ACS 1 (R1) | 492 Secs (492 Secs)            | [==>] | [2] |
|  | 16 | ANY                    | WFC3/IR, MULTIACCUM, IR-FIX | F125W | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | Prime + Parallel Group 15-16 in 15 SPT-CL-J0254-5856 ACS 1 (R1) | 552.937252 Secs (552.937 Secs) | [==>] | [2] |



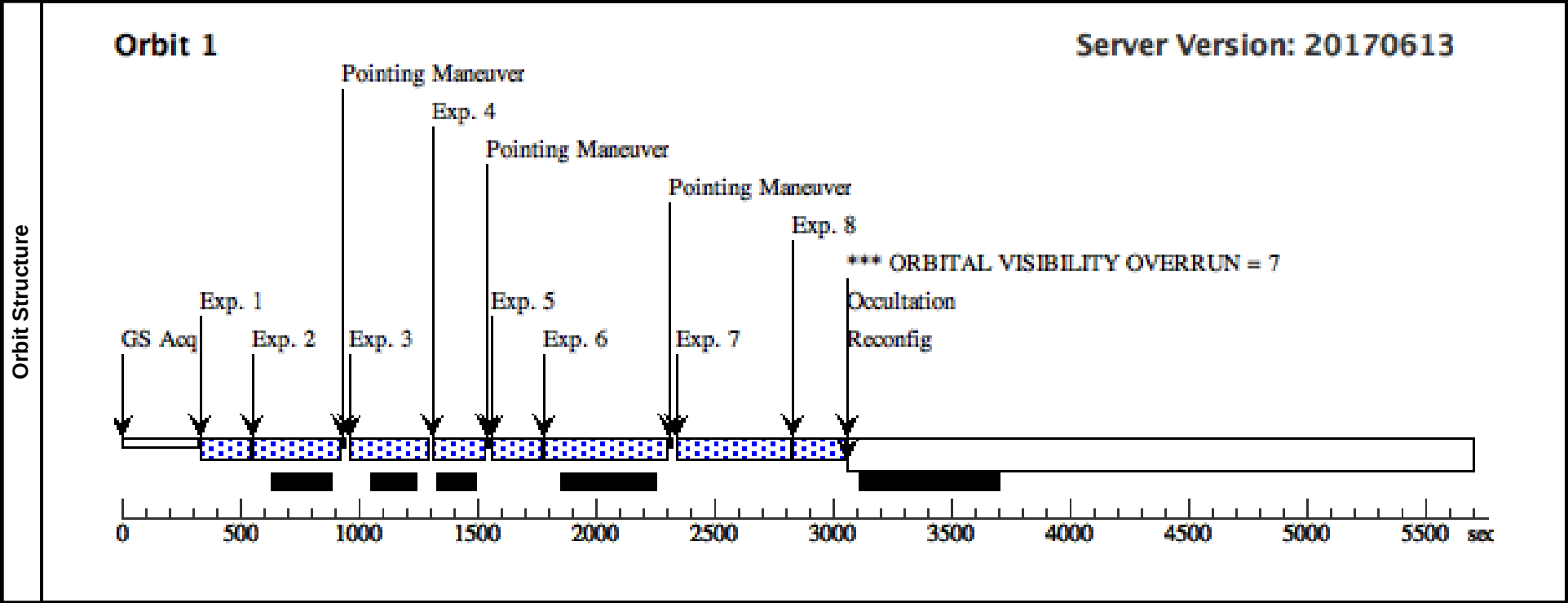
## Orbit 2

Server Version: 20170613



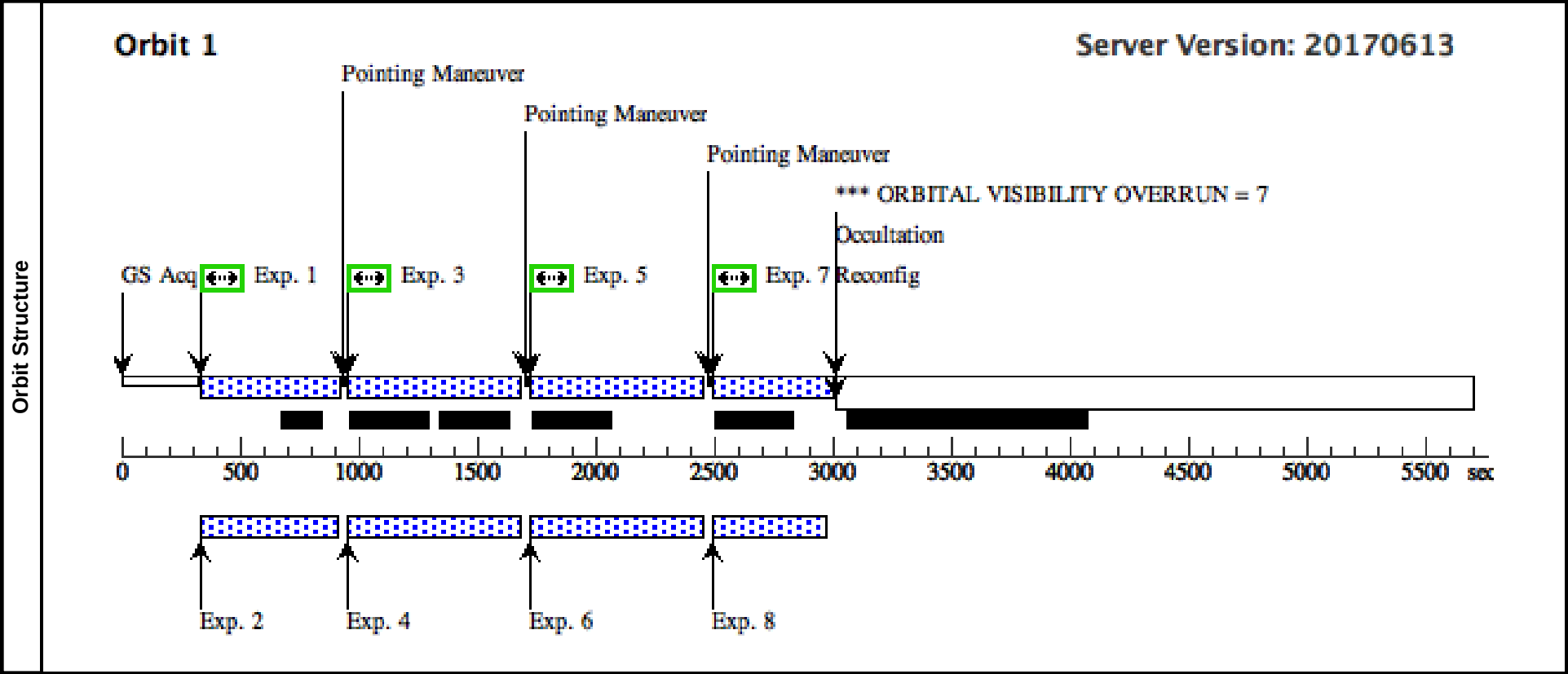
# Proposal 14096 - 15 SPT-CL-J0254-5856 IR1 (R2) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                   |                                                                                     |                             |               |                                   |                              |                         |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------|-------------------------|-----------------------------------------|-------|
| Visit         | Proposal 14096, 15 SPT-CL-J0254-5856 IR1 (R2), completed                                          |                   |                                                                                     |                             |               |                                   |                              |                         | Mon Aug 07 18:08:11 GMT 2017            |       |
|               | Diagnostic Status: Warning                                                                        |                   |                                                                                     |                             |               |                                   |                              |                         |                                         |       |
|               | Scientific Instruments: WFC3/IR                                                                   |                   |                                                                                     |                             |               |                                   |                              |                         |                                         |       |
|               | Special Requirements: SCHED 90%; SAME ORIENT AS R1; AFTER R1 BY 1.9 Orbits TO 2.1 Orbits          |                   |                                                                                     |                             |               |                                   |                              |                         |                                         |       |
| Diagnostics   | (15 SPT-CL-J0254-5856 IR1 (R2)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN               |                   |                                                                                     |                             |               |                                   |                              |                         |                                         |       |
| Fixed Targets | #                                                                                                 | Name              | Target Coordinates                                                                  | Targ. Coord. Corrections    |               | Fluxes                            |                              | Miscellaneous           |                                         |       |
|               | (15)                                                                                              | SPT-CL-J0254-5856 | RA: 02 54 16.0000 (43.5666667d)<br>Dec: -58 57 11.00 (-58.95306d)<br>Equinox: J2000 |                             |               | V=18                              |                              | Reference Frame: SIMBAD |                                         |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                   |                                                                                     |                             |               |                                   |                              |                         |                                         |       |
|               |                                                                                                   |                   |                                                                                     |                             |               |                                   |                              |                         |                                         |       |
| Exposures     | #                                                                                                 | Label             | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                | Groups                  | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                 | F140W             | (15) SPT-CL-J0254-5856                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                              |                         | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                 | F105W             | (15) SPT-CL-J0254-5856                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |                         | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                 | F105W             | (15) SPT-CL-J0254-5856                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |                         | 302.934997 Secs (302.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                 | F140W             | (15) SPT-CL-J0254-5856                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |                         | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                 | F125W             | (15) SPT-CL-J0254-5856                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |                         | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                 | F160W             | (15) SPT-CL-J0254-5856                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |                         | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                 | F160W             | (15) SPT-CL-J0254-5856                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |                         | 452.93635 Secs (452.936 Secs)<br>[==>]  | [1]   |
|               | 8                                                                                                 | F125W             | (15) SPT-CL-J0254-5856                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |                         | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               |                                                                                                   |                   |                                                                                     |                             |               |                                   |                              |                         |                                         |       |



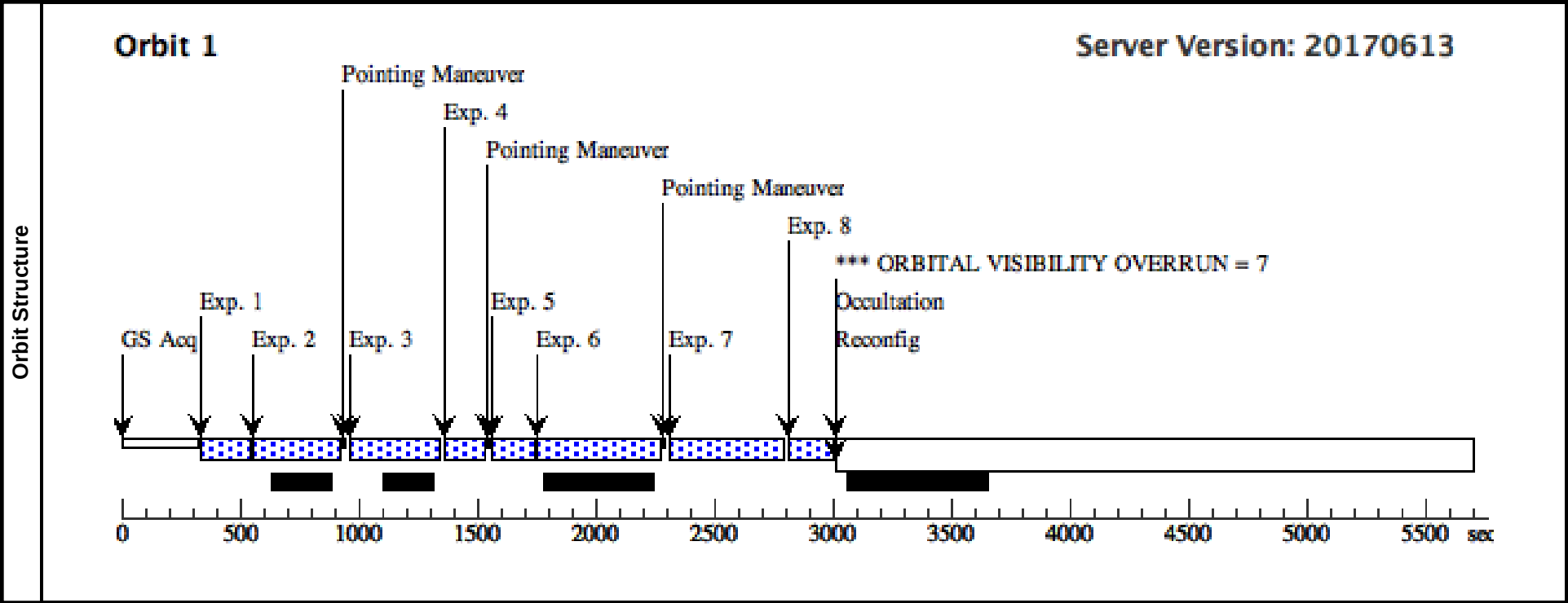
# Proposal 14096 - 15 SPT-CL-J0254-5856 ACS2 (R3) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                      |                   |                                                                                     |                             |               |                                |                         |                                                              |                                         |  |                              |  |  |  |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|-------------------------|--------------------------------------------------------------|-----------------------------------------|--|------------------------------|--|--|--|
| Visit                                                                                             | Proposal 14096, 15 SPT-CL-J0254-5856 ACS2 (R3), completed                            |                   |                                                                                     |                             |               |                                |                         |                                                              |                                         |  | Mon Aug 07 18:08:11 GMT 2017 |  |  |  |
|                                                                                                   | Diagnostic Status: Warning                                                           |                   |                                                                                     |                             |               |                                |                         |                                                              |                                         |  |                              |  |  |  |
|                                                                                                   | Scientific Instruments: WFC3/IR, ACS/WFC                                             |                   |                                                                                     |                             |               |                                |                         |                                                              |                                         |  |                              |  |  |  |
|                                                                                                   | Special Requirements: SCHED 100%; SAME ORIENT AS R1; AFTER R1 BY 40 D TO 60 D        |                   |                                                                                     |                             |               |                                |                         |                                                              |                                         |  |                              |  |  |  |
| Diagnostics                                                                                       | (15 SPT-CL-J0254-5856 ACS2 (R3)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |                   |                                                                                     |                             |               |                                |                         |                                                              |                                         |  |                              |  |  |  |
| Fixed Targets                                                                                     | #                                                                                    | Name              | Target Coordinates                                                                  | Targ. Coord. Corrections    |               |                                | Fluxes                  |                                                              | Miscellaneous                           |  |                              |  |  |  |
|                                                                                                   | (15)                                                                                 | SPT-CL-J0254-5856 | RA: 02 54 16.0000 (43.5666667d)<br>Dec: -58 57 11.00 (-58.95306d)<br>Equinox: J2000 |                             |               |                                | V=18                    |                                                              | Reference Frame: SIMBAD                 |  |                              |  |  |  |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                      |                   |                                                                                     |                             |               |                                |                         |                                                              |                                         |  |                              |  |  |  |
| Exposures                                                                                         | #                                                                                    | Label             | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.           | Groups                                                       | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |  |  |
|                                                                                                   | 1                                                                                    |                   | (15) SPT-CL-J0254-5856                                                              | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                |                         | Prime + Parallel Group 1-2 in 15 SPT-CL-J0254-5856 ACS2 (R3) | 382 Secs (382 Secs)<br>[==>]            |  | [1]                          |  |  |  |
|                                                                                                   | 2                                                                                    |                   | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=12;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 1-2 in 15 SPT-CL-J0254-5856 ACS2 (R3) | 552.937252 Secs (552.937 Secs)<br>[==>] |  | [1]                          |  |  |  |
|                                                                                                   | 3                                                                                    |                   | (15) SPT-CL-J0254-5856                                                              | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group 3-4 in 15 SPT-CL-J0254-5856 ACS2 (R3) | 607 Secs (607 Secs)<br>[==>]            |  | [1]                          |  |  |  |
|                                                                                                   | 4                                                                                    |                   | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 3-4 in 15 SPT-CL-J0254-5856 ACS2 (R3) | 702.938605 Secs (702.939 Secs)<br>[==>] |  | [1]                          |  |  |  |
|                                                                                                   | 5                                                                                    |                   | (15) SPT-CL-J0254-5856                                                              | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 5-6 in 15 SPT-CL-J0254-5856 ACS2 (R3) | 607 Secs (607 Secs)<br>[==>]            |  | [1]                          |  |  |  |
|                                                                                                   | 6                                                                                    |                   | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 5-6 in 15 SPT-CL-J0254-5856 ACS2 (R3) | 702.938605 Secs (702.939 Secs)<br>[==>] |  | [1]                          |  |  |  |
|                                                                                                   | 7                                                                                    |                   | (15) SPT-CL-J0254-5856                                                              | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 7-8 in 15 SPT-CL-J0254-5856 ACS2 (R3) | 382 Secs (382 Secs)<br>[==>]            |  | [1]                          |  |  |  |
|                                                                                                   | 8                                                                                    |                   | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=10;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 7-8 in 15 SPT-CL-J0254-5856 ACS2 (R3) | 452.93635 Secs (452.936 Secs)<br>[==>]  |  | [1]                          |  |  |  |



# Proposal 14096 - 15 SPT-CL-J0254-5856 IR2 (R4) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                   |                                                                                     |                             |               |                                |                          |        |                                         |                         |                              |
|---------------|---------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|--------------------------|--------|-----------------------------------------|-------------------------|------------------------------|
| Visit         | Proposal 14096, 15 SPT-CL-J0254-5856 IR2 (R4), completed                                          |                   |                                                                                     |                             |               |                                |                          |        |                                         |                         | Mon Aug 07 18:08:11 GMT 2017 |
|               | Diagnostic Status: Warning                                                                        |                   |                                                                                     |                             |               |                                |                          |        |                                         |                         |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |                   |                                                                                     |                             |               |                                |                          |        |                                         |                         |                              |
|               | Special Requirements: SCHED 100%; SAME ORIENT AS R1; AFTER R3 BY 0.9 Orbits TO 1.1 Orbits         |                   |                                                                                     |                             |               |                                |                          |        |                                         |                         |                              |
| Diagnostics   | (15 SPT-CL-J0254-5856 IR2 (R4)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN               |                   |                                                                                     |                             |               |                                |                          |        |                                         |                         |                              |
| Fixed Targets | #                                                                                                 | Name              | Target Coordinates                                                                  |                             |               | Targ. Coord. Corrections       |                          | Fluxes |                                         | Miscellaneous           |                              |
|               | (15)                                                                                              | SPT-CL-J0254-5856 | RA: 02 54 16.0000 (43.5666667d)<br>Dec: -58 57 11.00 (-58.95306d)<br>Equinox: J2000 |                             |               |                                |                          | V=18   |                                         | Reference Frame: SIMBAD |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                   |                                                                                     |                             |               |                                |                          |        |                                         |                         |                              |
|               |                                                                                                   |                   |                                                                                     |                             |               |                                |                          |        |                                         |                         |                              |
| Exposures     | #                                                                                                 | Label             | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.            | Groups | Exp. Time (Total)/[Actual Dur.]         |                         | Orbit                        |
|               | 1                                                                                                 | F140W             | (15) SPT-CL-J0254-5856                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 7.317,0.90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 2                                                                                                 | F105W             | (15) SPT-CL-J0254-5856                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | SAME POS AS 1            |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|               | 3                                                                                                 | F105W             | (15) SPT-CL-J0254-5856                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0.47425,0.6055  |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|               | 4                                                                                                 | F140W             | (15) SPT-CL-J0254-5856                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 3            |        | 152.935381 Secs (152.935 Secs)<br>[==>] |                         | [1]                          |
|               | 5                                                                                                 | F125W             | (15) SPT-CL-J0254-5856                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0             |        | 152.935381 Secs (152.935 Secs)<br>[==>] |                         | [1]                          |
|               | 6                                                                                                 | F160W             | (15) SPT-CL-J0254-5856                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | SAME POS AS 5            |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |
|               | 7                                                                                                 | F160W             | (15) SPT-CL-J0254-5856                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR S50 | POS TARG 6.48275,0.30275 |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |                         | [1]                          |
|               | 8                                                                                                 | F125W             | (15) SPT-CL-J0254-5856                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 7            |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               |                                                                                                   |                   |                                                                                     |                             |               |                                |                          |        |                                         |                         |                              |



# Proposal 14096 - 16 PSZ2-G138.61-10.84 ACS1 (S1) - RELICS: Reionization Lensing Cluster Survey

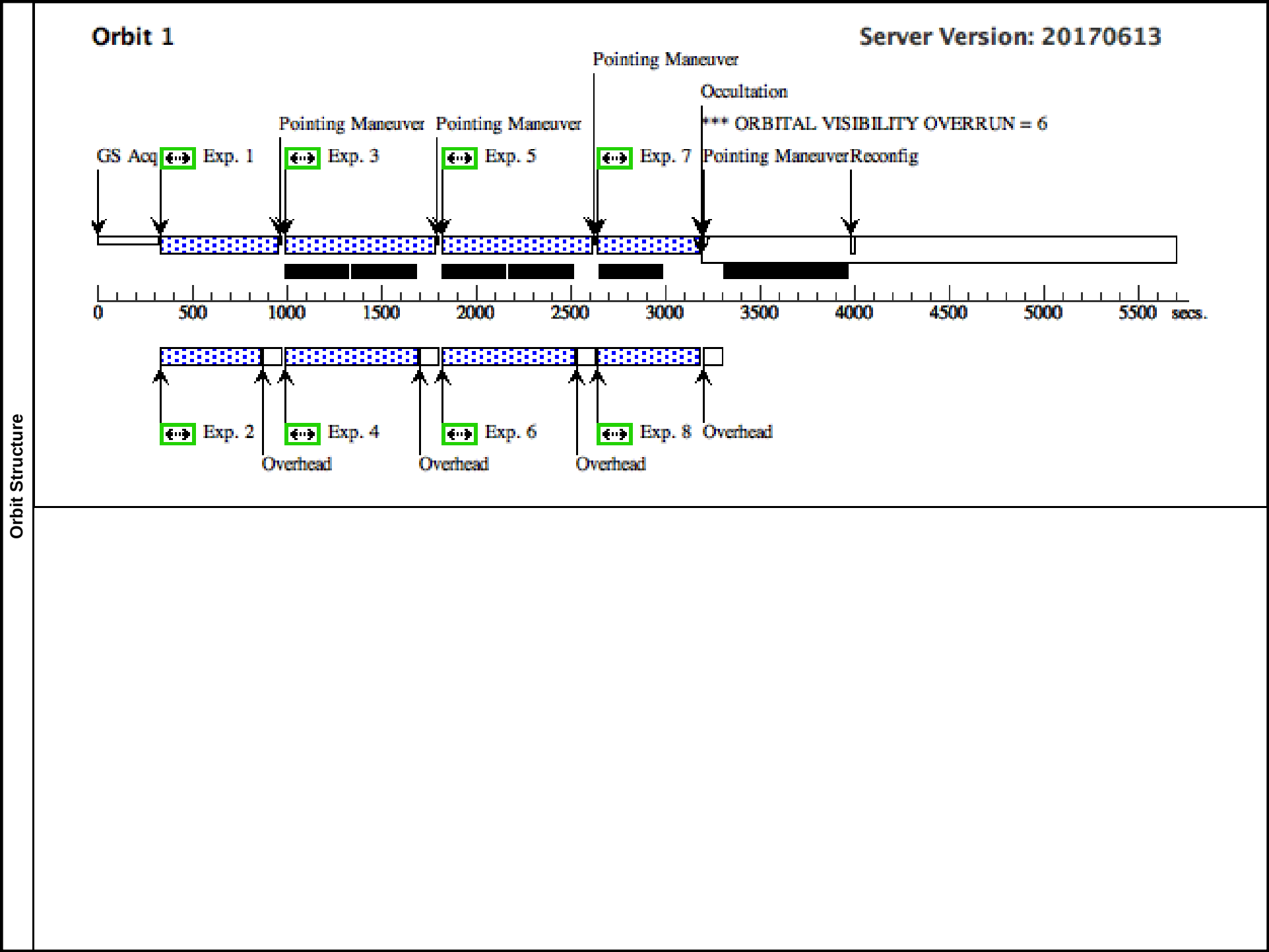
|               |                                                                                                                                                                                |                    |                                                                                   |                          |                               |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------|--------------------------|-------------------------------|
| Visit         | <b>Proposal 14096, 16 PSZ2-G138.61-10.84 ACS1 (S1), completed</b> <span>Mon Aug 07 18:08:11 GMT 2017</span>                                                                    |                    |                                                                                   |                          |                               |
|               | <b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC<br>Special Requirements: SCHED 60%                                                    |                    |                                                                                   |                          |                               |
| Diagnostics   | (16 PSZ2-G138.61-10.84 ACS1 (S1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(16 PSZ2-G138.61-10.84 ACS1 (S1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |                    |                                                                                   |                          |                               |
|               |                                                                                                                                                                                |                    |                                                                                   |                          |                               |
| Fixed Targets | #                                                                                                                                                                              | Name               | Target Coordinates                                                                | Targ. Coord. Corrections | Fluxes                        |
|               | (16)                                                                                                                                                                           | PSZ2-G138.61-10.84 | RA: 02 27 6.6000 (36.7775000d)<br>Dec: +49 00 29.90 (49.00831d)<br>Equinox: J2000 |                          | V=18<br>Reference Frame: ICRS |

# Proposal 14096 - 16 PSZ2-G138.61-10.84 ACS1 (S1) - RELICS: Reionization Lensing Cluster Survey

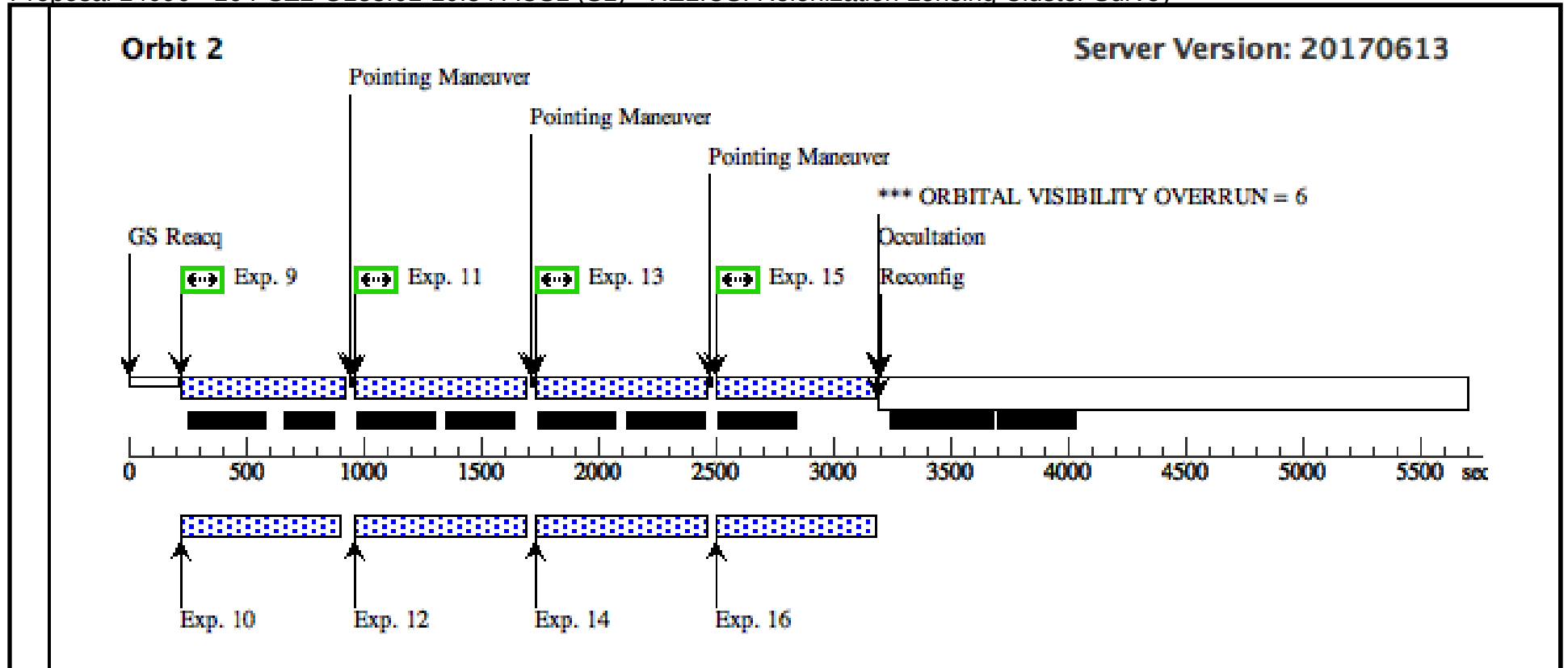
| Exposures | #  | Label | Target                  | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.           | Groups                                                          | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|----|-------|-------------------------|-----------------------------|---------------|--------------------------------|-------------------------|-----------------------------------------------------------------|-----------------------------------------|-------|
|           | 1  |       | (16) PSZ2-G138.61-10.84 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                |                         | Prime + Parallel Group 1-2 in 16 PSZ2-G138.61-10.84 ACS1 (S1)   | 414 Secs (414 Secs)<br>[==>]            | [1]   |
|           | 2  |       | ANY                     | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 1-2 in 16 PSZ2-G138.61-10.84 ACS1 (S1)   | 498 Secs (498 Secs)<br>[==>]            | [1]   |
|           | 3  |       | (16) PSZ2-G138.61-10.84 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group 3-4 in 16 PSZ2-G138.61-10.84 ACS1 (S1)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 4  |       | ANY                     | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 3-4 in 16 PSZ2-G138.61-10.84 ACS1 (S1)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 5  |       | (16) PSZ2-G138.61-10.84 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 5-6 in 16 PSZ2-G138.61-10.84 ACS1 (S1)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 6  |       | ANY                     | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 5-6 in 16 PSZ2-G138.61-10.84 ACS1 (S1)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 7  |       | (16) PSZ2-G138.61-10.84 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 7-8 in 16 PSZ2-G138.61-10.84 ACS1 (S1)   | 413 Secs (413 Secs)<br>[==>]            | [1]   |
|           | 8  |       | ANY                     | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 7-8 in 16 PSZ2-G138.61-10.84 ACS1 (S1)   | 539 Secs (539 Secs)<br>[==>]            | [1]   |
|           | 9  |       | (16) PSZ2-G138.61-10.84 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                |                         | Prime + Parallel Group 9-10 in 16 PSZ2-G138.61-10.84 ACS1 (S1)  | 559 Secs (559 Secs)<br>[==>]            | [2]   |
|           | 10 |       | ANY                     | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=14;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 9-10 in 16 PSZ2-G138.61-10.84 ACS1 (S1)  | 652.938154 Secs (652.938 Secs)<br>[==>] | [2]   |
|           | 11 |       | (16) PSZ2-G138.61-10.84 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group 11-12 in 16 PSZ2-G138.61-10.84 ACS1 (S1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 12 |       | ANY                     | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 11-12 in 16 PSZ2-G138.61-10.84 ACS1 (S1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |
|           | 13 |       | (16) PSZ2-G138.61-10.84 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 13-14 in 16 PSZ2-G138.61-10.84 ACS1 (S1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 14 |       | ANY                     | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 13-14 in 16 PSZ2-G138.61-10.84 ACS1 (S1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |

Proposal 14096 - 16 PSZ2-G138.61-10.84 ACS1 (S1) - RELICS: Reionization Lensing Cluster Survey

|  |    |                         |                             |       |                                   |                                                                 |                                |     |
|--|----|-------------------------|-----------------------------|-------|-----------------------------------|-----------------------------------------------------------------|--------------------------------|-----|
|  | 15 | (16) PSZ2-G138.61-10.84 | ACS/WFC, ACCUM, WFCENTER    | F814W | POS TARG 0.2717,8<br>.9367        | Prime + Parallel Group 15-16 in 16 PSZ2-G138.61-10.84 ACS1 (S1) | 559 Secs (559 Secs)            |     |
|  |    |                         |                             |       |                                   |                                                                 | [==>]                          | [2] |
|  | 16 | ANY                     | WFC3/IR, MULTIACCUM, IR-FIX | F125W | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S50 | Prime + Parallel Group 15-16 in 16 PSZ2-G138.61-10.84 ACS1 (S1) | 652.938154 Secs (652.938 Secs) |     |
|  |    |                         |                             |       |                                   |                                                                 | [==>]                          | [2] |

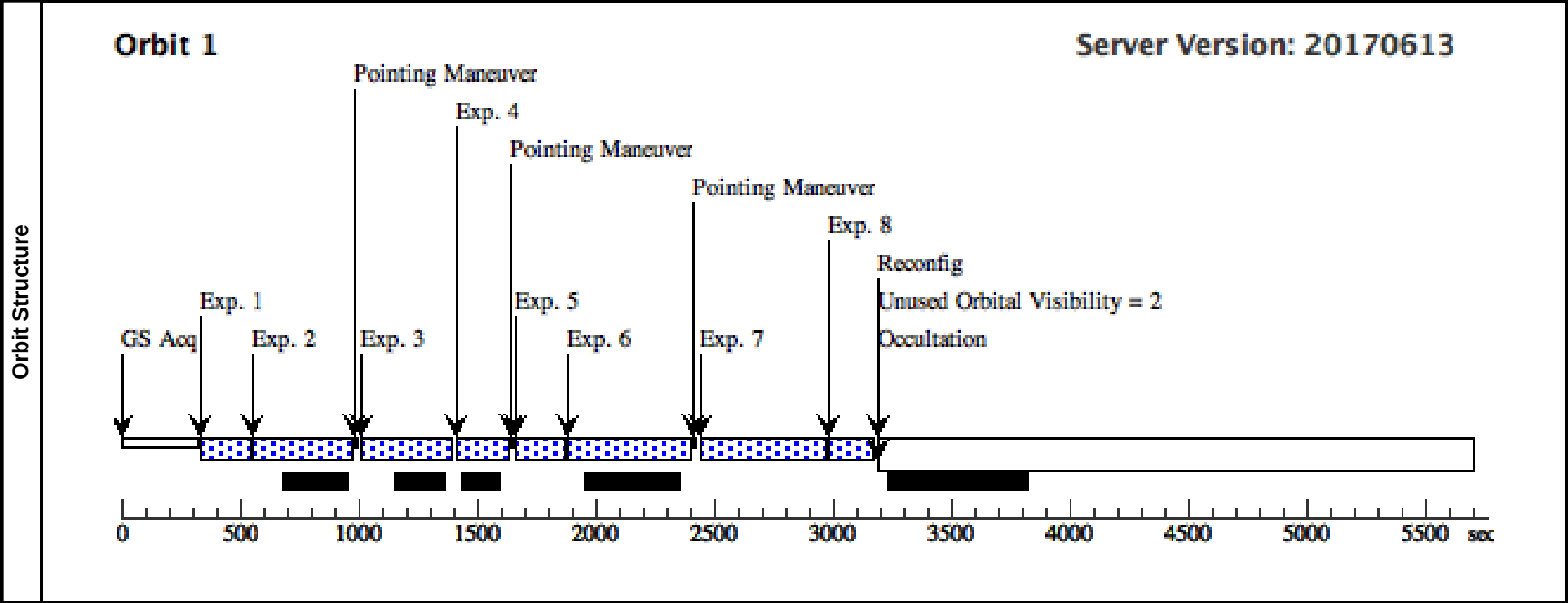


Orbit Structure



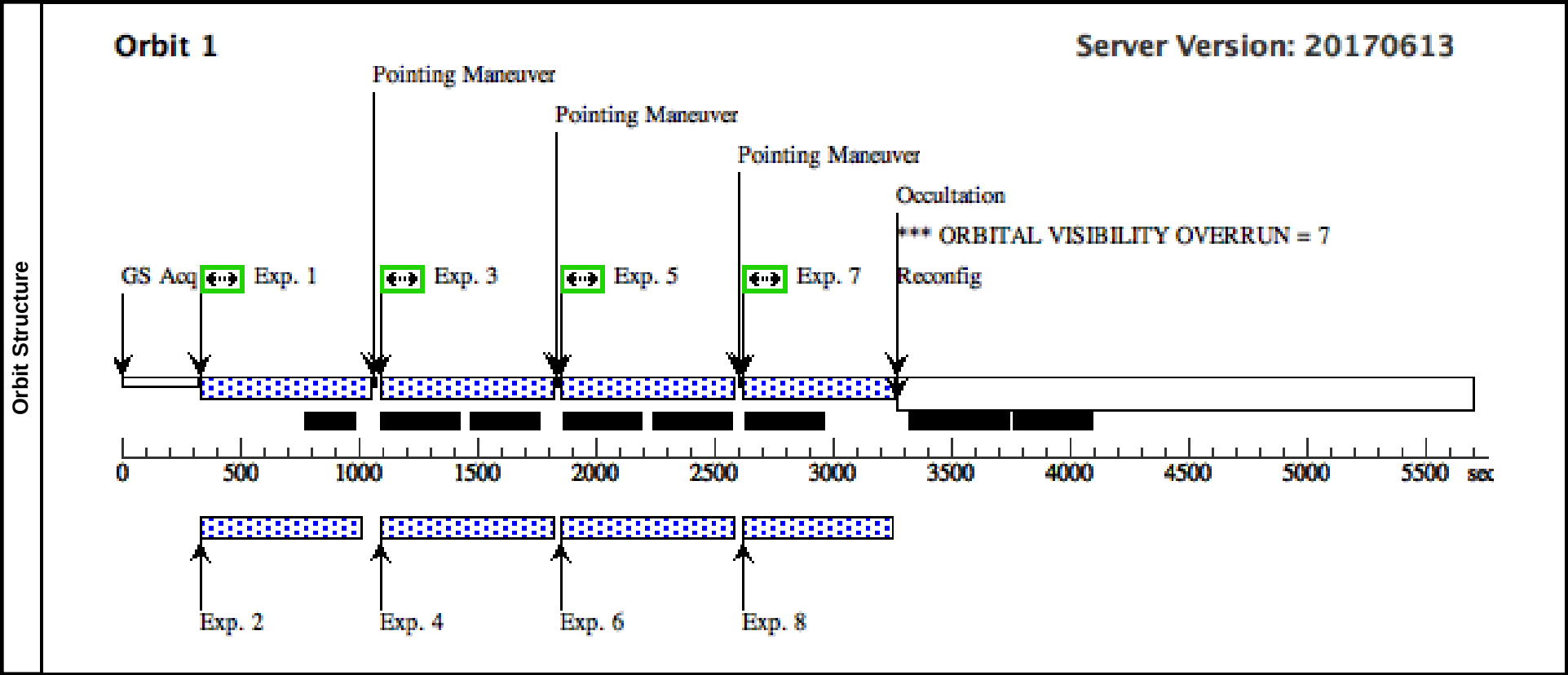
# Proposal 14096 - 16 PSZ2-G138.61-10.84 IR1 (S2) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                                                                                       |                    |                                                                                   |                             |               |                                   |                              |        |                                         |       |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------|--------|-----------------------------------------|-------|
| Visit         | <b>Proposal 14096, 16 PSZ2-G138.61-10.84 IR1 (S2), completed</b> <span>Mon Aug 07 18:08:11 GMT 2017</span>                                                            |                    |                                                                                   |                             |               |                                   |                              |        |                                         |       |
|               | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 60%; SAME ORIENT AS S1; AFTER S1 BY 2 Orbits TO 2.1 Orbits |                    |                                                                                   |                             |               |                                   |                              |        |                                         |       |
| Fixed Targets | #                                                                                                                                                                     | Name               | Target Coordinates                                                                | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                     |                              |        |                                         |       |
|               | (16)                                                                                                                                                                  | PSZ2-G138.61-10.84 | RA: 02 27 6.6000 (36.7775000d)<br>Dec: +49 00 29.90 (49.00831d)<br>Equinox: J2000 |                             | V=18          | Reference Frame: ICRS             |                              |        |                                         |       |
| Exposures     | #                                                                                                                                                                     | Label              | Target                                                                            | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                                                     | F140W              | (16) PSZ2-G138.61-10.84                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                              |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                                                                                     | F105W              | (16) PSZ2-G138.61-10.84                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 402.935899 Secs (402.936 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                                                     | F105W              | (16) PSZ2-G138.61-10.84                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                                                                                     | F140W              | (16) PSZ2-G138.61-10.84                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                                                     | F125W              | (16) PSZ2-G138.61-10.84                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                                                                                     | F160W              | (16) PSZ2-G138.61-10.84                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                                                                                     | F160W              | (16) PSZ2-G138.61-10.84                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                                                                                     | F125W              | (16) PSZ2-G138.61-10.84                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |



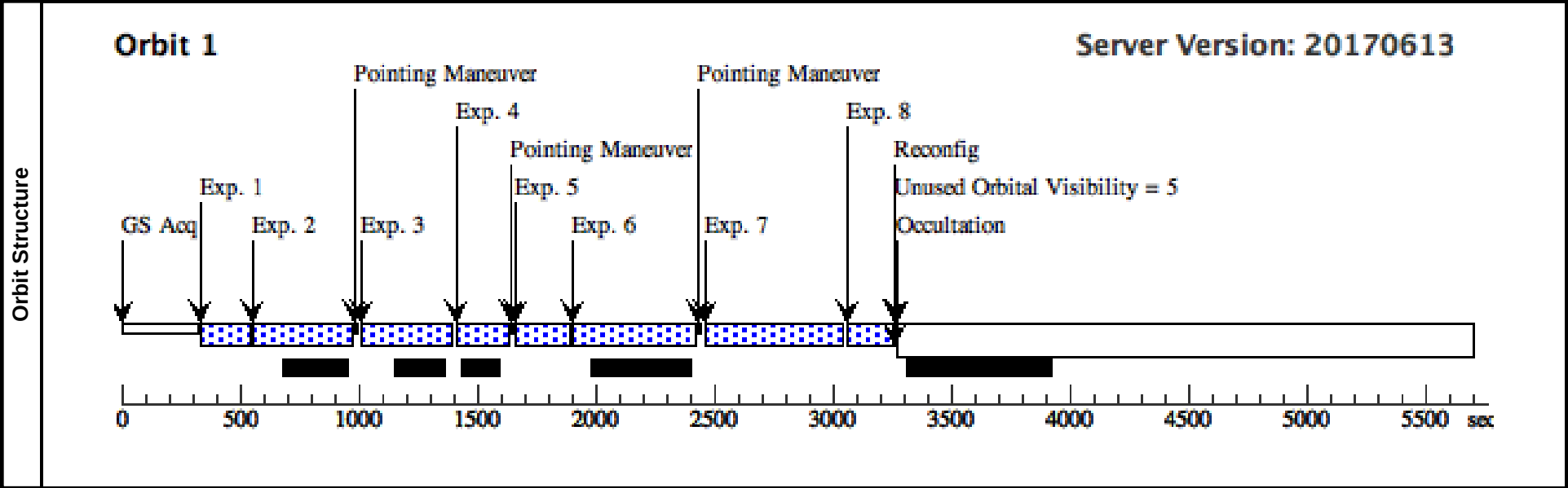
# Proposal 14096 - 16 PSZ2-G138.61-10.84 ACS2 (S3) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                                                                               |                    |                                                                                   |                             |               |                                |                         |                                                               |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|-------------------------|---------------------------------------------------------------|-----------------------------------------|-------|
| Visit         | <b>Proposal 14096, 16 PSZ2-G138.61-10.84 ACS2 (S3), completed</b> <span>Mon Aug 07 18:08:11 GMT 2017</span>                                                   |                    |                                                                                   |                             |               |                                |                         |                                                               |                                         |       |
|               | <b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/IR, ACS/WFC<br>Special Requirements: SCHED 40%; SAME ORIENT AS S1; AFTER S1 BY 40 D TO 60 D |                    |                                                                                   |                             |               |                                |                         |                                                               |                                         |       |
| Diagnostics   | (16 PSZ2-G138.61-10.84 ACS2 (S3)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                         |                    |                                                                                   |                             |               |                                |                         |                                                               |                                         |       |
|               |                                                                                                                                                               |                    |                                                                                   |                             |               |                                |                         |                                                               |                                         |       |
| Fixed Targets | #                                                                                                                                                             | Name               | Target Coordinates                                                                | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                  |                         |                                                               |                                         |       |
|               | (16)                                                                                                                                                          | PSZ2-G138.61-10.84 | RA: 02 27 6.6000 (36.7775000d)<br>Dec: +49 00 29.90 (49.00831d)<br>Equinox: J2000 |                             | V=18          | Reference Frame: ICRS          |                         |                                                               |                                         |       |
| Exposures     | #                                                                                                                                                             | Label              | Target                                                                            | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.           | Groups                                                        | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                                             |                    | (16) PSZ2-G138.61-10.84                                                           | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                |                         | Prime + Parallel Group 1-2 in 16 PSZ2-G138.61-10.84 ACS2 (S3) | 513 Secs (513 Secs)<br>[==>]            | [1]   |
|               | 2                                                                                                                                                             |                    | ANY                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=14;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 1-2 in 16 PSZ2-G138.61-10.84 ACS2 (S3) | 652.938154 Secs (652.938 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                                             |                    | (16) PSZ2-G138.61-10.84                                                           | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group 3-4 in 16 PSZ2-G138.61-10.84 ACS2 (S3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 4                                                                                                                                                             |                    | ANY                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 3-4 in 16 PSZ2-G138.61-10.84 ACS2 (S3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                                             |                    | (16) PSZ2-G138.61-10.84                                                           | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 5-6 in 16 PSZ2-G138.61-10.84 ACS2 (S3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 6                                                                                                                                                             |                    | ANY                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 5-6 in 16 PSZ2-G138.61-10.84 ACS2 (S3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                                                                             |                    | (16) PSZ2-G138.61-10.84                                                           | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 7-8 in 16 PSZ2-G138.61-10.84 ACS2 (S3) | 513 Secs (513 Secs)<br>[==>]            | [1]   |
|               | 8                                                                                                                                                             |                    | ANY                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=13;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 7-8 in 16 PSZ2-G138.61-10.84 ACS2 (S3) | 602.937703 Secs (602.938 Secs)<br>[==>] | [1]   |



# Proposal 14096 - 16 PSZ2-G138.61-10.84 IR2 (S4) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                                                                                       |                    |                                                                                   |                             |               |                                   |                           |        |                                         |       |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|---------------------------|--------|-----------------------------------------|-------|
| Visit         | <b>Proposal 14096, 16 PSZ2-G138.61-10.84 IR2 (S4), completed</b> <span style="float: right;">Mon Aug 07 18:08:11 GMT 2017</span>                                      |                    |                                                                                   |                             |               |                                   |                           |        |                                         |       |
|               | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 40%; SAME ORIENT AS S1; AFTER S3 BY 1 Orbits TO 1.1 Orbits |                    |                                                                                   |                             |               |                                   |                           |        |                                         |       |
| Fixed Targets | #                                                                                                                                                                     | Name               | Target Coordinates                                                                | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                     |                           |        |                                         |       |
|               | (16)                                                                                                                                                                  | PSZ2-G138.61-10.84 | RA: 02 27 6.6000 (36.7775000d)<br>Dec: +49 00 29.90 (49.00831d)<br>Equinox: J2000 |                             | V=18          | Reference Frame: ICRS             |                           |        |                                         |       |
| Exposures     | #                                                                                                                                                                     | Label              | Target                                                                            | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.             | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                                                     | F140W              | (16) PSZ2-G138.61-10.84                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.90825    |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                                                                                     | F105W              | (16) PSZ2-G138.61-10.84                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1             |        | 402.935899 Secs (402.936 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                                                     | F105W              | (16) PSZ2-G138.61-10.84                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425, 0.6055  |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                                                                                     | F140W              | (16) PSZ2-G138.61-10.84                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3             |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                                                     | F125W              | (16) PSZ2-G138.61-10.84                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0              |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                                                                                     | F160W              | (16) PSZ2-G138.61-10.84                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5             |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                                                                                     | F160W              | (16) PSZ2-G138.61-10.84                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275, 0.30275 |        | 552.937252 Secs (552.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                                                                                     | F125W              | (16) PSZ2-G138.61-10.84                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7             |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |



# Proposal 14096 - 17 CIZA-J0142.9+4438 ACS1 (T1) - RELICS: Reionization Lensing Cluster Survey

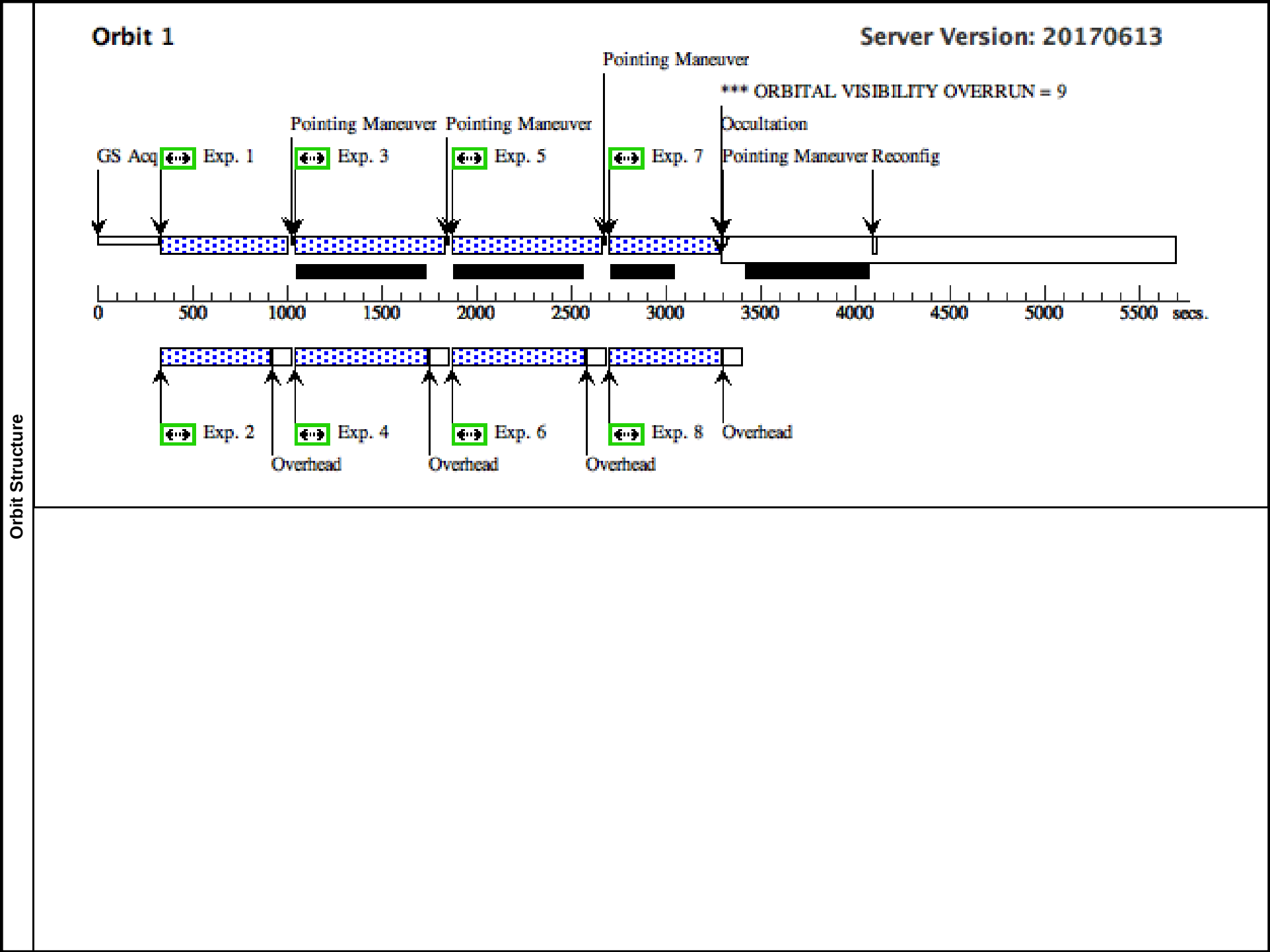
|                                                                                                          |                                                                                                                                                                              |                   |                                                                                   |                          |        |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------|--------------------------|--------|
| Visit                                                                                                    | Proposal 14096, 17 CIZA-J0142.9+4438 ACS1 (T1), completed <span>Mon Aug 07 18:08:11 GMT 2017</span>                                                                          |                   |                                                                                   |                          |        |
|                                                                                                          | <b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC<br>Special Requirements: SCHED 30%                                                  |                   |                                                                                   |                          |        |
| Diagnostics                                                                                              | (17 CIZA-J0142.9+4438 ACS1 (T1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(17 CIZA-J0142.9+4438 ACS1 (T1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |                   |                                                                                   |                          |        |
|                                                                                                          |                                                                                                                                                                              |                   |                                                                                   |                          |        |
| Fixed Targets                                                                                            | #                                                                                                                                                                            | Name              | Target Coordinates                                                                | Targ. Coord. Corrections | Fluxes |
|                                                                                                          | (17)                                                                                                                                                                         | CIZA-J0142.9+4438 | RA: 01 42 55.1692 (25.7298717d)<br>Dec: +44 38 4.30 (44.63453d)<br>Equinox: J2000 |                          | V=18   |
| Miscellaneous: Reference Frame: SIMBAD                                                                   |                                                                                                                                                                              |                   |                                                                                   |                          |        |
| <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> |                                                                                                                                                                              |                   |                                                                                   |                          |        |

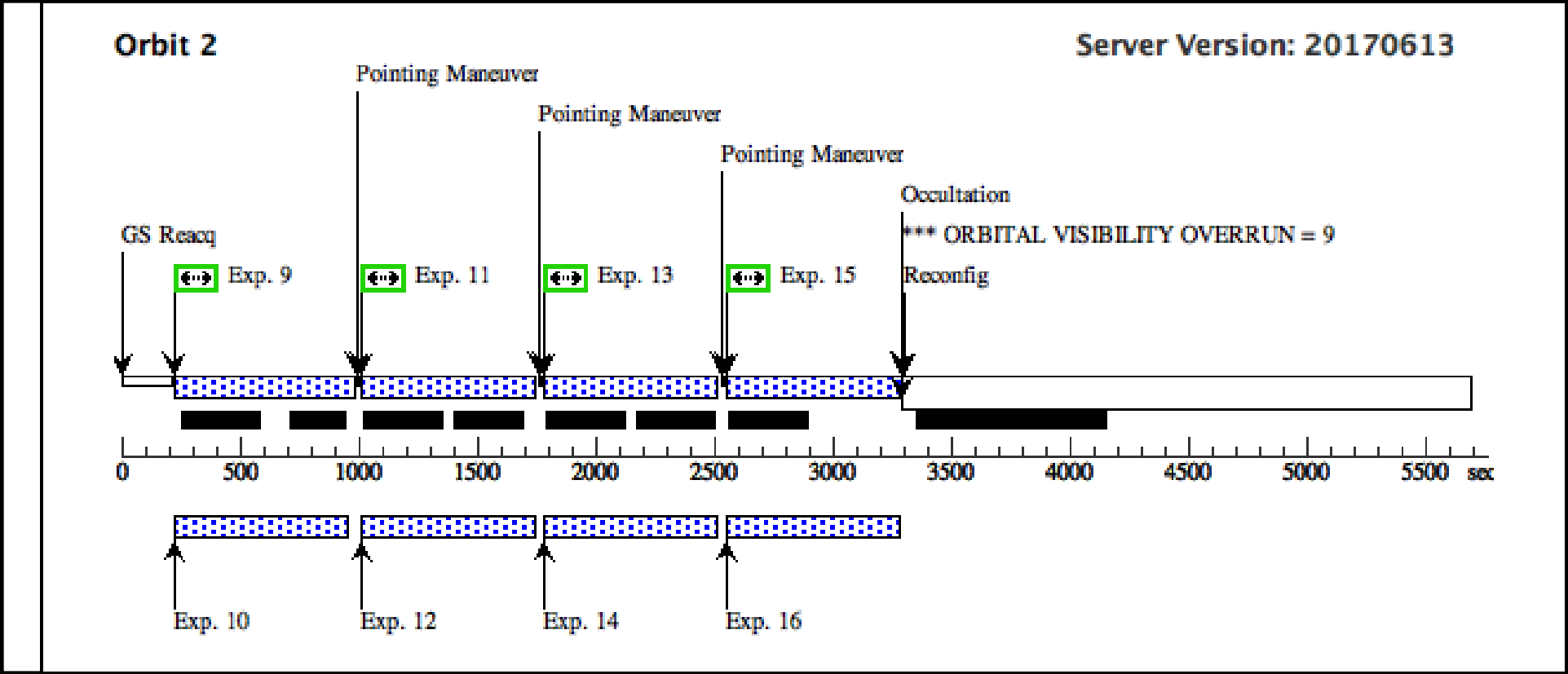
# Proposal 14096 - 17 CIZA-J0142.9+4438 ACS1 (T1) - RELICS: Reionization Lensing Cluster Survey

| Exposures | #  | Label | Target                 | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.           | Groups                                                         | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|----|-------|------------------------|-----------------------------|---------------|--------------------------------|-------------------------|----------------------------------------------------------------|-----------------------------------------|-------|
|           | 1  |       | (17) CIZA-J0142.9+4438 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                |                         | Prime + Parallel Group 1-2 in 17 CIZA-J0142.9+4438 ACS1 (T1)   | 467 Secs (467 Secs)<br>[==>]            | [1]   |
|           | 2  |       | ANY                    | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 1-2 in 17 CIZA-J0142.9+4438 ACS1 (T1)   | 551 Secs (551 Secs)<br>[==>]            | [1]   |
|           | 3  |       | (17) CIZA-J0142.9+4438 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group 3-4 in 17 CIZA-J0142.9+4438 ACS1 (T1)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 4  |       | ANY                    | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 3-4 in 17 CIZA-J0142.9+4438 ACS1 (T1)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 5  |       | (17) CIZA-J0142.9+4438 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 5-6 in 17 CIZA-J0142.9+4438 ACS1 (T1)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 6  |       | ANY                    | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 5-6 in 17 CIZA-J0142.9+4438 ACS1 (T1)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 7  |       | (17) CIZA-J0142.9+4438 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 7-8 in 17 CIZA-J0142.9+4438 ACS1 (T1)   | 467 Secs (467 Secs)<br>[==>]            | [1]   |
|           | 8  |       | ANY                    | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 7-8 in 17 CIZA-J0142.9+4438 ACS1 (T1)   | 593 Secs (593 Secs)<br>[==>]            | [1]   |
|           | 9  |       | (17) CIZA-J0142.9+4438 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                |                         | Prime + Parallel Group 9-10 in 17 CIZA-J0142.9+4438 ACS1 (T1)  | 613 Secs (613 Secs)<br>[==>]            | [2]   |
|           | 10 |       | ANY                    | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 9-10 in 17 CIZA-J0142.9+4438 ACS1 (T1)  | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |
|           | 11 |       | (17) CIZA-J0142.9+4438 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group 11-12 in 17 CIZA-J0142.9+4438 ACS1 (T1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 12 |       | ANY                    | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 11-12 in 17 CIZA-J0142.9+4438 ACS1 (T1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |
|           | 13 |       | (17) CIZA-J0142.9+4438 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 13-14 in 17 CIZA-J0142.9+4438 ACS1 (T1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 14 |       | ANY                    | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 13-14 in 17 CIZA-J0142.9+4438 ACS1 (T1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |

# Proposal 14096 - 17 CIZA-J0142.9+4438 ACS1 (T1) - RELICS: Reionization Lensing Cluster Survey

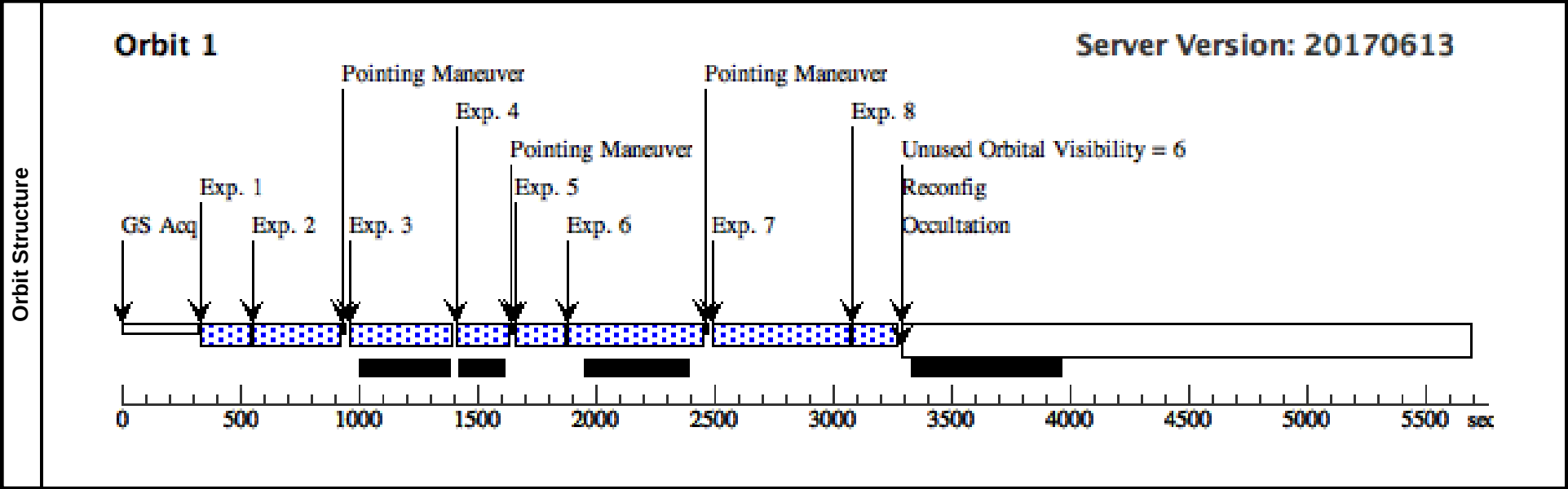
|  |    |                        |                             |       |                                   |                                                                |                                |     |
|--|----|------------------------|-----------------------------|-------|-----------------------------------|----------------------------------------------------------------|--------------------------------|-----|
|  | 15 | (17) CIZA-J0142.9+4438 | ACS/WFC, ACCUM, WFCENTER    | F814W | POS TARG 0.2717,8 .9367           | Prime + Parallel Group 15-16 in 17 CIZA-J0142.9+4438 ACS1 (T1) | 612 Secs (612 Secs)            |     |
|  |    |                        |                             |       |                                   |                                                                | [==>]                          | [2] |
|  | 16 | ANY                    | WFC3/IR, MULTIACCUM, IR-FIX | F125W | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 | Prime + Parallel Group 15-16 in 17 CIZA-J0142.9+4438 ACS1 (T1) | 702.938605 Secs (702.939 Secs) |     |
|  |    |                        |                             |       |                                   |                                                                | [==>]                          | [2] |





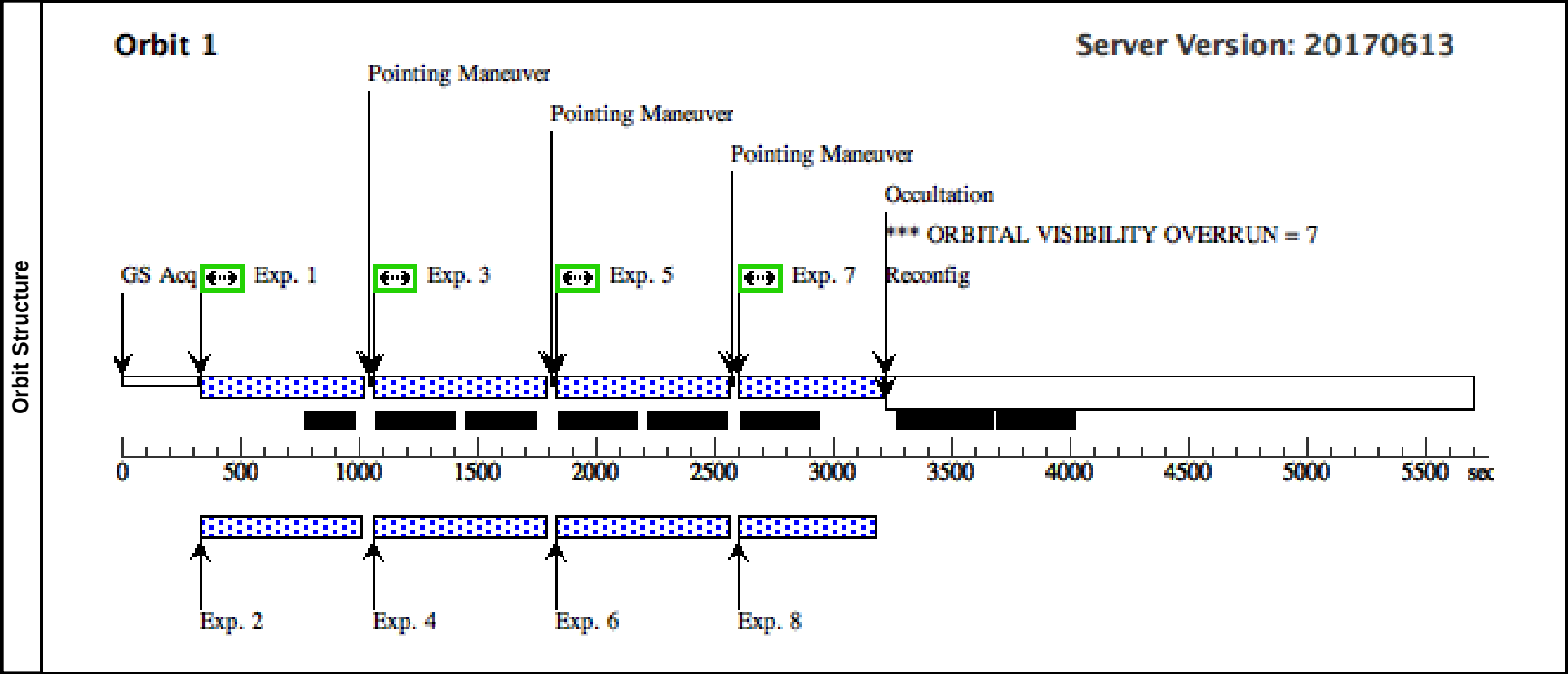
# Proposal 14096 - 17 CIZA-J0142.9+4438 IR1 (T2) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                   |                                                                                   |                             |                          |                                   |                              |        |                                         |                              |       |
|---------------|---------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------|-----------------------------|--------------------------|-----------------------------------|------------------------------|--------|-----------------------------------------|------------------------------|-------|
| Visit         | Proposal 14096, 17 CIZA-J0142.9+4438 IR1 (T2), completed                                          |                   |                                                                                   |                             |                          |                                   |                              |        |                                         | Mon Aug 07 18:08:11 GMT 2017 |       |
|               | Diagnostic Status: No Diagnostics                                                                 |                   |                                                                                   |                             |                          |                                   |                              |        |                                         |                              |       |
|               | Scientific Instruments: WFC3/IR                                                                   |                   |                                                                                   |                             |                          |                                   |                              |        |                                         |                              |       |
|               | Special Requirements: SCHED 30%; SAME ORIENT AS T1; AFTER T1 BY 2 Orbits TO 2.1 Orbits            |                   |                                                                                   |                             |                          |                                   |                              |        |                                         |                              |       |
| Fixed Targets | #                                                                                                 | Name              | Target Coordinates                                                                |                             | Targ. Coord. Corrections |                                   | Fluxes                       |        | Miscellaneous                           |                              |       |
|               | (17)                                                                                              | CIZA-J0142.9+4438 | RA: 01 42 55.1692 (25.7298717d)<br>Dec: +44 38 4.30 (44.63453d)<br>Equinox: J2000 |                             |                          |                                   | V=18                         |        | Reference Frame: SIMBAD                 |                              |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                   |                                                                                   |                             |                          |                                   |                              |        |                                         |                              |       |
|               |                                                                                                   |                   |                                                                                   |                             |                          |                                   |                              |        |                                         |                              |       |
| Exposures     | #                                                                                                 | Label             | Target                                                                            | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |
|               | 1                                                                                                 | F140W             | (17) CIZA-J0142.9+4438                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                              |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |
|               | 2                                                                                                 | F105W             | (17) CIZA-J0142.9+4438                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |
|               | 3                                                                                                 | F105W             | (17) CIZA-J0142.9+4438                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |        | 402.935899 Secs (402.936 Secs)<br>[==>] |                              | [1]   |
|               | 4                                                                                                 | F140W             | (17) CIZA-J0142.9+4438                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |
|               | 5                                                                                                 | F125W             | (17) CIZA-J0142.9+4438                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |
|               | 6                                                                                                 | F160W             | (17) CIZA-J0142.9+4438                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 552.937252 Secs (552.937 Secs)<br>[==>] |                              | [1]   |
|               | 7                                                                                                 | F160W             | (17) CIZA-J0142.9+4438                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |        | 552.937252 Secs (552.937 Secs)<br>[==>] |                              | [1]   |
|               | 8                                                                                                 | F125W             | (17) CIZA-J0142.9+4438                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |



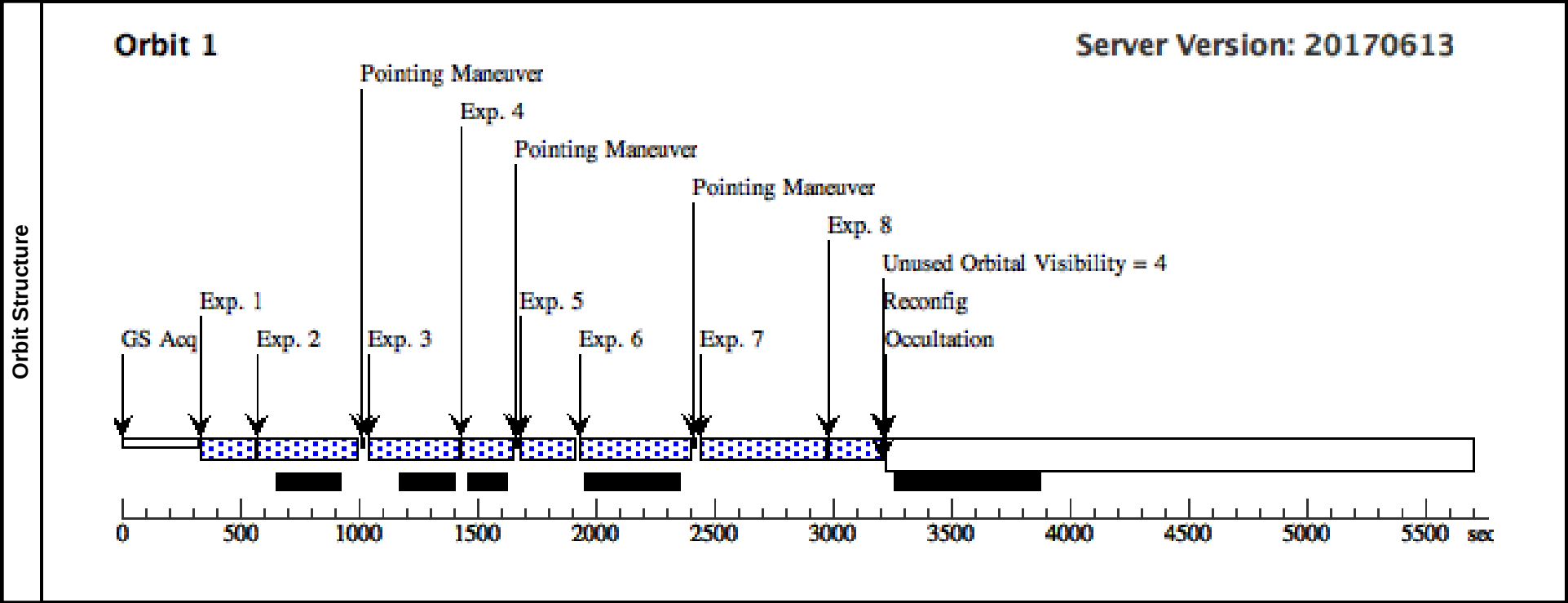
# Proposal 14096 - 17 CIZA-J0142.9+4438 ACS2 (T3) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                      |                   |                                                                                   |                             |               |                                   |                            |                                                                 |                                         |       |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|----------------------------|-----------------------------------------------------------------|-----------------------------------------|-------|
| Visit                                                                                             | Proposal 14096, 17 CIZA-J0142.9+4438 ACS2 (T3), completed                            |                   |                                                                                   |                             |               |                                   |                            |                                                                 | Mon Aug 07 18:08:11 GMT 2017            |       |
|                                                                                                   | Diagnostic Status: Warning                                                           |                   |                                                                                   |                             |               |                                   |                            |                                                                 |                                         |       |
|                                                                                                   | Scientific Instruments: WFC3/IR, ACS/WFC                                             |                   |                                                                                   |                             |               |                                   |                            |                                                                 |                                         |       |
|                                                                                                   | Special Requirements: SCHED 50%; SAME ORIENT AS T1; AFTER T1 BY 40 D TO 60 D         |                   |                                                                                   |                             |               |                                   |                            |                                                                 |                                         |       |
| Diagnostics                                                                                       | (17 CIZA-J0142.9+4438 ACS2 (T3)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |                   |                                                                                   |                             |               |                                   |                            |                                                                 |                                         |       |
| Fixed Targets                                                                                     | #                                                                                    | Name              | Target Coordinates                                                                | Targ. Coord. Corrections    |               | Fluxes                            |                            | Miscellaneous                                                   |                                         |       |
|                                                                                                   | (17)                                                                                 | CIZA-J0142.9+4438 | RA: 01 42 55.1692 (25.7298717d)<br>Dec: +44 38 4.30 (44.63453d)<br>Equinox: J2000 |                             |               | V=18                              |                            | Reference Frame: SIMBAD                                         |                                         |       |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                      |                   |                                                                                   |                             |               |                                   |                            |                                                                 |                                         |       |
| Exposures                                                                                         | #                                                                                    | Label             | Target                                                                            | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.              | Groups                                                          | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|                                                                                                   | 1                                                                                    |                   | (17) CIZA-J0142.9+4438                                                            | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   |                            | Prime + Parallel Group up 1-2 in 17 CIZA-J0142.9+4438 ACS2 (T3) | 488 Secs (488 Secs)<br>[==>]            | [1]   |
|                                                                                                   | 2                                                                                    |                   | ANY                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Group up 1-2 in 17 CIZA-J0142.9+4438 ACS2 (T3) | 652.938154 Secs (652.938 Secs)<br>[==>] | [1]   |
|                                                                                                   | 3                                                                                    |                   | (17) CIZA-J0142.9+4438                                                            | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   | POS TARG 0.0741,2<br>.970  | Prime + Parallel Group up 3-4 in 17 CIZA-J0142.9+4438 ACS2 (T3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|                                                                                                   | 4                                                                                    |                   | ANY                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Group up 3-4 in 17 CIZA-J0142.9+4438 ACS2 (T3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|                                                                                                   | 5                                                                                    |                   | (17) CIZA-J0142.9+4438                                                            | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   | POS TARG 0.1976,5<br>.9687 | Prime + Parallel Group up 5-6 in 17 CIZA-J0142.9+4438 ACS2 (T3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|                                                                                                   | 6                                                                                    |                   | ANY                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Group up 5-6 in 17 CIZA-J0142.9+4438 ACS2 (T3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|                                                                                                   | 7                                                                                    |                   | (17) CIZA-J0142.9+4438                                                            | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   | POS TARG 0.2717,8<br>.9367 | Prime + Parallel Group up 7-8 in 17 CIZA-J0142.9+4438 ACS2 (T3) | 487 Secs (487 Secs)<br>[==>]            | [1]   |
|                                                                                                   | 8                                                                                    |                   | ANY                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Group up 7-8 in 17 CIZA-J0142.9+4438 ACS2 (T3) | 552.937252 Secs (552.937 Secs)<br>[==>] | [1]   |
|                                                                                                   |                                                                                      |                   |                                                                                   |                             |               |                                   |                            |                                                                 |                                         |       |
|                                                                                                   |                                                                                      |                   |                                                                                   |                             |               |                                   |                            |                                                                 |                                         |       |
|                                                                                                   |                                                                                      |                   |                                                                                   |                             |               |                                   |                            |                                                                 |                                         |       |



# Proposal 14096 - 17 CIZA-J0142.9+4438 IR2 (T4) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                                                                                       |                   |                                                                                                                                                                                               |                             |               |                                   |                          |        |                                         |       |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|--------------------------|--------|-----------------------------------------|-------|
| Visit         | <b>Proposal 14096, 17 CIZA-J0142.9+4438 IR2 (T4), completed</b> <span>Mon Aug 07 18:08:11 GMT 2017</span>                                                             |                   |                                                                                                                                                                                               |                             |               |                                   |                          |        |                                         |       |
|               | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 50%; SAME ORIENT AS T1; AFTER T3 BY 1 Orbits TO 1.1 Orbits |                   |                                                                                                                                                                                               |                             |               |                                   |                          |        |                                         |       |
| Fixed Targets | #                                                                                                                                                                     | Name              | Target Coordinates                                                                                                                                                                            | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                     |                          |        |                                         |       |
|               | (17)                                                                                                                                                                  | CIZA-J0142.9+4438 | RA: 01 42 55.1692 (25.7298717d)<br>Dec: +44 38 4.30 (44.63453d)<br>Equinox: J2000<br><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> |                             | V=18          | Reference Frame: SIMBAD           |                          |        |                                         |       |
| Exposures     | #                                                                                                                                                                     | Label             | Target                                                                                                                                                                                        | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.            | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                                                     | F140W             | (17) CIZA-J0142.9+4438                                                                                                                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.90825   |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                                                                                     | F105W             | (17) CIZA-J0142.9+4438                                                                                                                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1            |        | 402.935899 Secs (402.936 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                                                     | F105W             | (17) CIZA-J0142.9+4438                                                                                                                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,0.6055  |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                                                                                     | F140W             | (17) CIZA-J0142.9+4438                                                                                                                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3            |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                                                     | F125W             | (17) CIZA-J0142.9+4438                                                                                                                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0             |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                                                                                     | F160W             | (17) CIZA-J0142.9+4438                                                                                                                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5            |        | 452.93635 Secs (452.936 Secs)<br>[==>]  | [1]   |
|               | 7                                                                                                                                                                     | F160W             | (17) CIZA-J0142.9+4438                                                                                                                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,0.30275 |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                                                                                     | F125W             | (17) CIZA-J0142.9+4438                                                                                                                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7            |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |

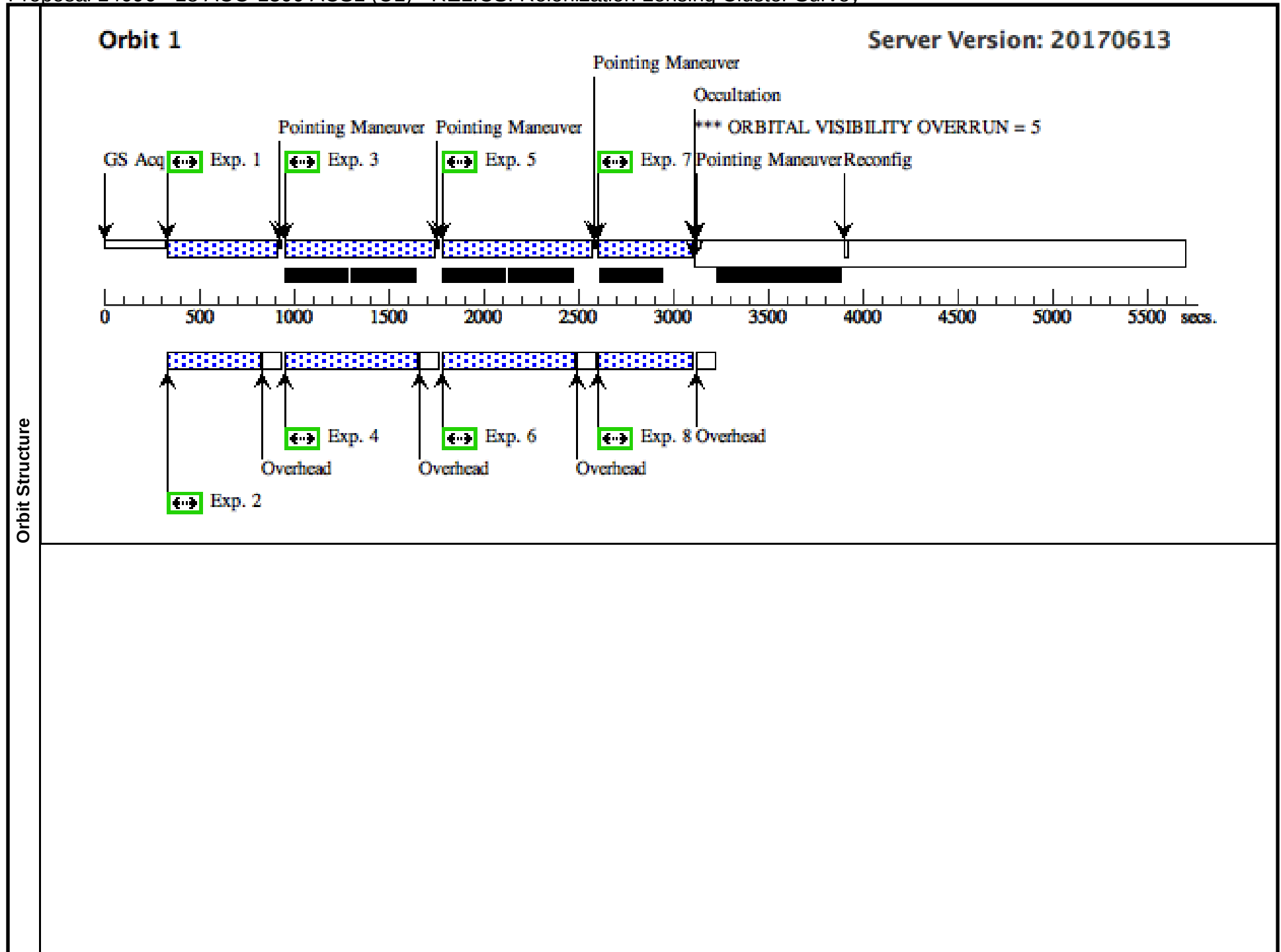


# Proposal 14096 - 18 ACO-1300 ACS1 (U1) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                                                                   |                                                                                                                                                            |          |                                                                                      |                          |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------|--------------------------|--------|
| Visit                                                                                                                                             | <b>Proposal 14096, 18 ACO-1300 ACS1 (U1), completed</b> <span style="float: right;">Mon Aug 07 18:08:11 GMT 2017</span>                                    |          |                                                                                      |                          |        |
|                                                                                                                                                   | <b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC<br>Special Requirements: SCHED 60%                                |          |                                                                                      |                          |        |
| Diagnostics                                                                                                                                       | (18 ACO-1300 ACS1 (U1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(18 ACO-1300 ACS1 (U1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |          |                                                                                      |                          |        |
|                                                                                                                                                   |                                                                                                                                                            |          |                                                                                      |                          |        |
| Fixed Targets                                                                                                                                     | #                                                                                                                                                          | Name     | Target Coordinates                                                                   | Targ. Coord. Corrections | Fluxes |
|                                                                                                                                                   | (18)                                                                                                                                                       | ACO-1300 | RA: 11 31 54.0737 (172.9753071d)<br>Dec: -19 55 23.38 (-19.92316d)<br>Equinox: J2000 |                          | V=18   |
| Miscellaneous<br>Reference Frame: SIMBAD<br><br>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                                                                                            |          |                                                                                      |                          |        |

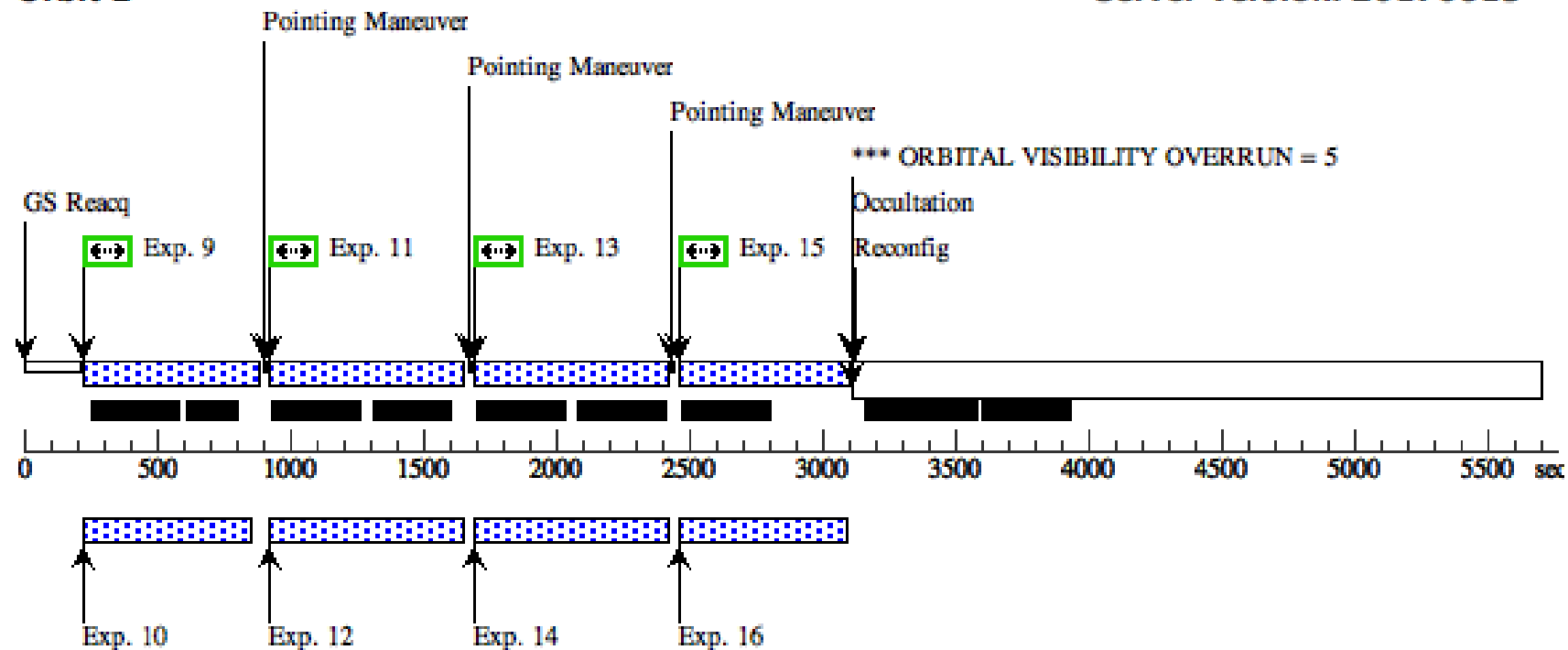
# Proposal 14096 - 18 ACO-1300 ACS1 (U1) - RELICS: Reionization Lensing Cluster Survey

| Exposures | #  | Label | Target        | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.           | Groups                                                | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|----|-------|---------------|-----------------------------|---------------|-----------------------------------|-------------------------|-------------------------------------------------------|-----------------------------------------|-------|
|           | 1  |       | (18) ACO-1300 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   |                         | Prime + Parallel Group 1-2 in 18 ACO-1300 ACS1 (U1)   | 374 Secs (374 Secs)<br>[==>]            | [1]   |
|           | 2  |       | ANY           | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                         | Prime + Parallel Group 1-2 in 18 ACO-1300 ACS1 (U1)   | 458 Secs (458 Secs)<br>[==>]            | [1]   |
|           | 3  |       | (18) ACO-1300 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.0741,2 .970  | Prime + Parallel Group 3-4 in 18 ACO-1300 ACS1 (U1)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 4  |       | ANY           | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                         | Prime + Parallel Group 3-4 in 18 ACO-1300 ACS1 (U1)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 5  |       | (18) ACO-1300 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 5-6 in 18 ACO-1300 ACS1 (U1)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 6  |       | ANY           | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                         | Prime + Parallel Group 5-6 in 18 ACO-1300 ACS1 (U1)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 7  |       | (18) ACO-1300 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 7-8 in 18 ACO-1300 ACS1 (U1)   | 373 Secs (373 Secs)<br>[==>]            | [1]   |
|           | 8  |       | ANY           | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                         | Prime + Parallel Group 7-8 in 18 ACO-1300 ACS1 (U1)   | 499 Secs (499 Secs)<br>[==>]            | [1]   |
|           | 9  |       | (18) ACO-1300 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   |                         | Prime + Parallel Group 9-10 in 18 ACO-1300 ACS1 (U1)  | 519 Secs (519 Secs)<br>[==>]            | [2]   |
|           | 10 |       | ANY           | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=13;<br>SAMP-SEQ=SPAR<br>S50 |                         | Prime + Parallel Group 9-10 in 18 ACO-1300 ACS1 (U1)  | 602.937703 Secs (602.938 Secs)<br>[==>] | [2]   |
|           | 11 |       | (18) ACO-1300 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   | POS TARG 0.0741,2 .970  | Prime + Parallel Group 11-12 in 18 ACO-1300 ACS1 (U1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 12 |       | ANY           | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                         | Prime + Parallel Group 11-12 in 18 ACO-1300 ACS1 (U1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |
|           | 13 |       | (18) ACO-1300 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 13-14 in 18 ACO-1300 ACS1 (U1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 14 |       | ANY           | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                         | Prime + Parallel Group 13-14 in 18 ACO-1300 ACS1 (U1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |
|           | 15 |       | (18) ACO-1300 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 15-16 in 18 ACO-1300 ACS1 (U1) | 519 Secs (519 Secs)<br>[==>]            | [2]   |
|           | 16 |       | ANY           | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=13;<br>SAMP-SEQ=SPAR<br>S50 |                         | Prime + Parallel Group 15-16 in 18 ACO-1300 ACS1 (U1) | 602.937703 Secs (602.938 Secs)<br>[==>] | [2]   |



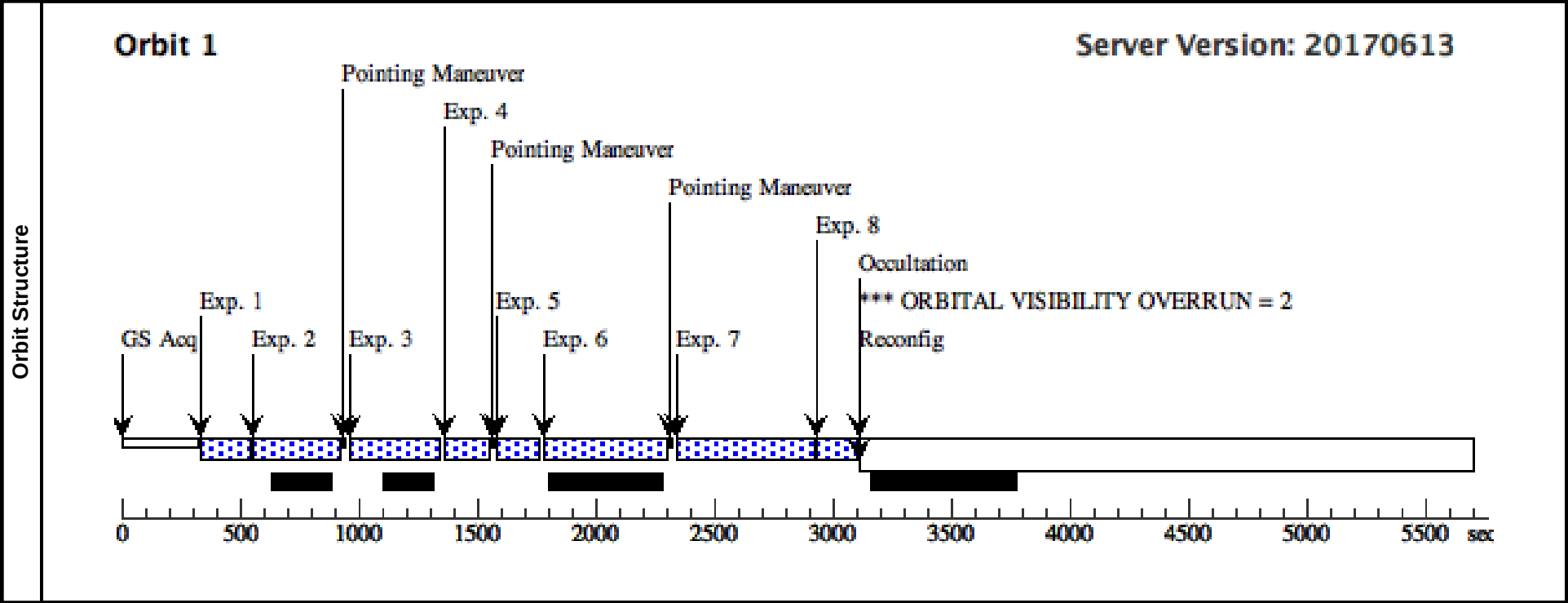
## Orbit 2

Server Version: 20170613



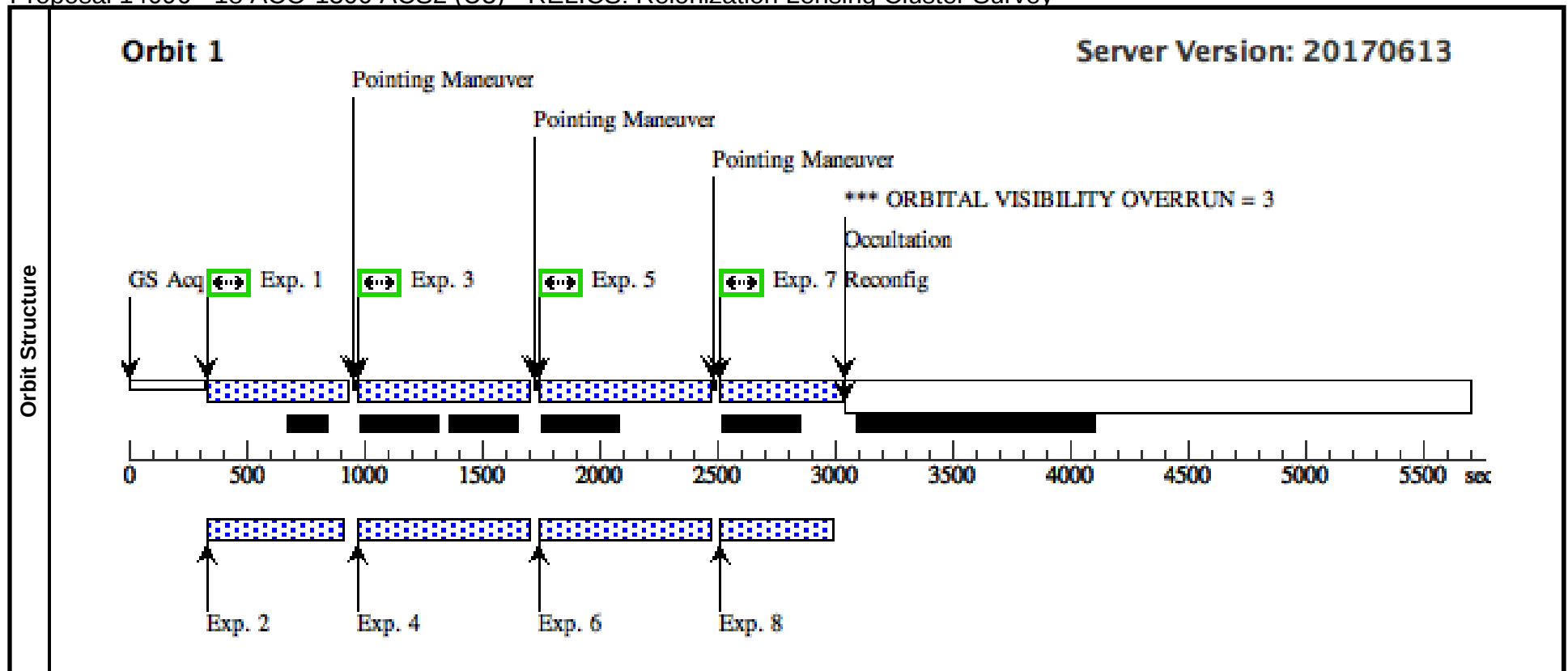
# Proposal 14096 - 18 ACO-1300 IR1 (U2) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |          |                                                                                      |                             |  |                          |                                   |        |                              |                         |                                         |  |       |  |
|---------------|---------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------|-----------------------------|--|--------------------------|-----------------------------------|--------|------------------------------|-------------------------|-----------------------------------------|--|-------|--|
| Visit         | Proposal 14096, 18 ACO-1300 IR1 (U2), completed                                                   |          |                                                                                      |                             |  |                          |                                   |        |                              |                         | Mon Aug 07 18:08:12 GMT 2017            |  |       |  |
|               | Diagnostic Status: Warning                                                                        |          |                                                                                      |                             |  |                          |                                   |        |                              |                         |                                         |  |       |  |
|               | Scientific Instruments: WFC3/IR                                                                   |          |                                                                                      |                             |  |                          |                                   |        |                              |                         |                                         |  |       |  |
|               | Special Requirements: SCHED 60%; SAME ORIENT AS U1; AFTER U1 BY 2 Orbits TO 2.1 Orbits            |          |                                                                                      |                             |  |                          |                                   |        |                              |                         |                                         |  |       |  |
| Diagnostics   | (18 ACO-1300 IR1 (U2)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                        |          |                                                                                      |                             |  |                          |                                   |        |                              |                         |                                         |  |       |  |
| Fixed Targets | #                                                                                                 | Name     | Target Coordinates                                                                   |                             |  | Targ. Coord. Corrections |                                   | Fluxes |                              | Miscellaneous           |                                         |  |       |  |
|               | (18)                                                                                              | ACO-1300 | RA: 11 31 54.0737 (172.9753071d)<br>Dec: -19 55 23.38 (-19.92316d)<br>Equinox: J2000 |                             |  |                          |                                   | V=18   |                              | Reference Frame: SIMBAD |                                         |  |       |  |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |          |                                                                                      |                             |  |                          |                                   |        |                              |                         |                                         |  |       |  |
|               |                                                                                                   |          |                                                                                      |                             |  |                          |                                   |        |                              |                         |                                         |  |       |  |
| Exposures     | #                                                                                                 | Label    | Target                                                                               | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                      |        | Special Reqs.                | Groups                  | Exp. Time (Total)/[Actual Dur.]         |  | Orbit |  |
|               | 1                                                                                                 | F140W    | (18) ACO-1300                                                                        | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |        |                              |                         | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]   |  |
|               | 2                                                                                                 | F105W    | (18) ACO-1300                                                                        | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  |        | SAME POS AS 1                |                         | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]   |  |
|               | 3                                                                                                 | F105W    | (18) ACO-1300                                                                        | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  |        | POS TARG 6.84275,<br>0.30275 |                         | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]   |  |
|               | 4                                                                                                 | F140W    | (18) ACO-1300                                                                        | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |        | SAME POS AS 3                |                         | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]   |  |
|               | 5                                                                                                 | F125W    | (18) ACO-1300                                                                        | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  |        | POS TARG 7.317,0.<br>90825   |                         | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]   |  |
|               | 6                                                                                                 | F160W    | (18) ACO-1300                                                                        | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 |        | SAME POS AS 5                |                         | 502.936801 Secs (502.937 Secs)<br>[==>] |  | [1]   |  |
|               | 7                                                                                                 | F160W    | (18) ACO-1300                                                                        | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 |        | POS TARG 0.47425,<br>0.6055  |                         | 552.937252 Secs (552.937 Secs)<br>[==>] |  | [1]   |  |
|               | 8                                                                                                 | F125W    | (18) ACO-1300                                                                        | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  |        | SAME POS AS 7                |                         | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]   |  |
|               |                                                                                                   |          |                                                                                      |                             |  |                          |                                   |        |                              |                         |                                         |  |       |  |



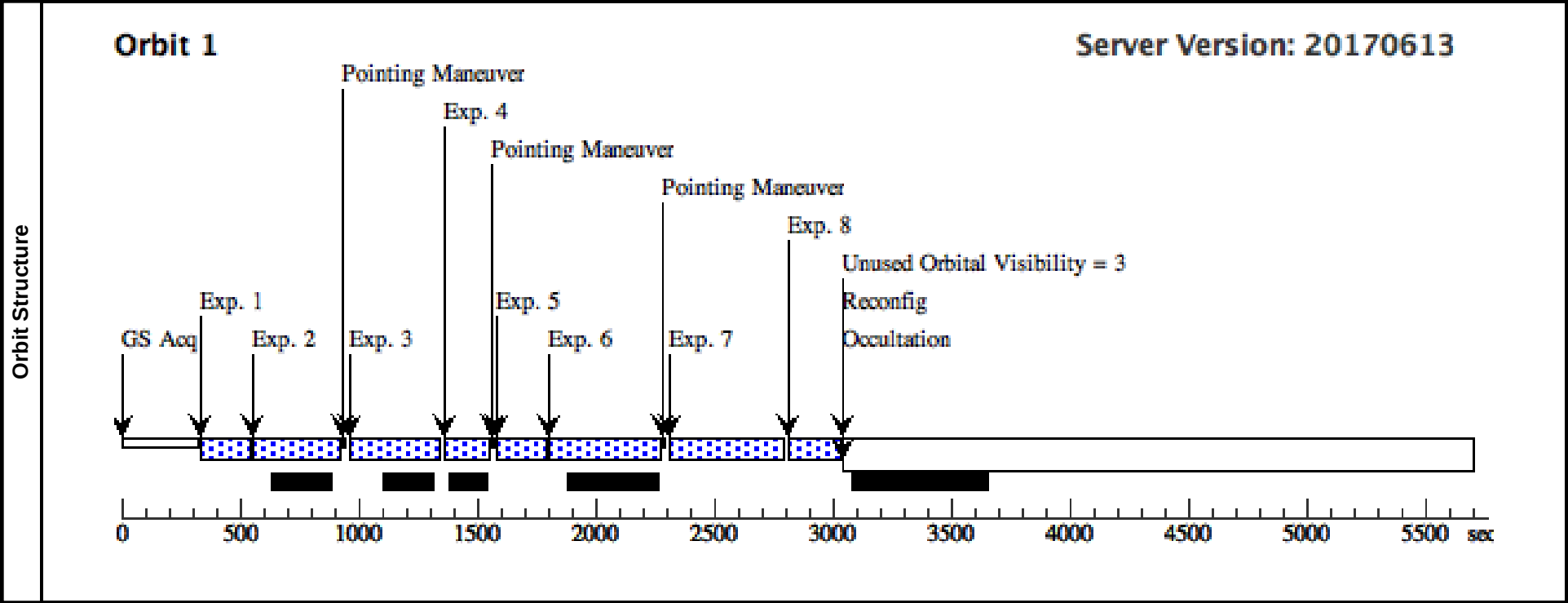
# Proposal 14096 - 18 ACO-1300 ACS2 (U3) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |          |                                                                                      |                             |               |                                   |                            |                                                             |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|----------------------------|-------------------------------------------------------------|-----------------------------------------|-------|
| Visit         | Proposal 14096, 18 ACO-1300 ACS2 (U3), completed                                                  |          |                                                                                      |                             |               |                                   |                            |                                                             | Mon Aug 07 18:08:12 GMT 2017            |       |
|               | Diagnostic Status: Warning                                                                        |          |                                                                                      |                             |               |                                   |                            |                                                             |                                         |       |
|               | Scientific Instruments: WFC3/IR, ACS/WFC                                                          |          |                                                                                      |                             |               |                                   |                            |                                                             |                                         |       |
|               | Special Requirements: SCHED 80%; SAME ORIENT AS U1; AFTER U1 BY 40 D TO 60 D                      |          |                                                                                      |                             |               |                                   |                            |                                                             |                                         |       |
| Diagnostics   | (18 ACO-1300 ACS2 (U3)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                       |          |                                                                                      |                             |               |                                   |                            |                                                             |                                         |       |
| Fixed Targets | #                                                                                                 | Name     | Target Coordinates                                                                   | Targ. Coord. Corrections    |               | Fluxes                            |                            | Miscellaneous                                               |                                         |       |
|               | (18)                                                                                              | ACO-1300 | RA: 11 31 54.0737 (172.9753071d)<br>Dec: -19 55 23.38 (-19.92316d)<br>Equinox: J2000 |                             |               | V=18                              |                            | Reference Frame: SIMBAD                                     |                                         |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |          |                                                                                      |                             |               |                                   |                            |                                                             |                                         |       |
|               |                                                                                                   |          |                                                                                      |                             |               |                                   |                            |                                                             |                                         |       |
| Exposures     | #                                                                                                 | Label    | Target                                                                               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.              | Groups                                                      | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                 |          | (18) ACO-1300                                                                        | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   |                            | Prime + Parallel Gro<br>up 1-2 in 18 ACO-13<br>00 ACS2 (U3) | 398 Secs (398 Secs)<br>[==>]            | [1]   |
|               | 2                                                                                                 |          | ANY                                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Gro<br>up 1-2 in 18 ACO-13<br>00 ACS2 (U3) | 552.937252 Secs (552.937 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                 |          | (18) ACO-1300                                                                        | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   | POS TARG 0.0741,2<br>.970  | Prime + Parallel Gro<br>up 3-4 in 18 ACO-13<br>00 ACS2 (U3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 4                                                                                                 |          | ANY                                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Gro<br>up 3-4 in 18 ACO-13<br>00 ACS2 (U3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                 |          | (18) ACO-1300                                                                        | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   | POS TARG 0.1976,5<br>.9687 | Prime + Parallel Gro<br>up 5-6 in 18 ACO-13<br>00 ACS2 (U3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 6                                                                                                 |          | ANY                                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Gro<br>up 5-6 in 18 ACO-13<br>00 ACS2 (U3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                 |          | (18) ACO-1300                                                                        | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   | POS TARG 0.2717,8<br>.9367 | Prime + Parallel Gro<br>up 7-8 in 18 ACO-13<br>00 ACS2 (U3) | 397 Secs (397 Secs)<br>[==>]            | [1]   |
|               | 8                                                                                                 |          | ANY                                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Gro<br>up 7-8 in 18 ACO-13<br>00 ACS2 (U3) | 452.93635 Secs (452.936 Secs)<br>[==>]  | [1]   |



# Proposal 14096 - 18 ACO-1300 IR2 (U4) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |          |                                                                                      |                             |               |                                   |                              |        |                                         |  |                              |
|---------------|---------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------|--------|-----------------------------------------|--|------------------------------|
| Visit         | Proposal 14096, 18 ACO-1300 IR2 (U4), completed                                                   |          |                                                                                      |                             |               |                                   |                              |        |                                         |  | Mon Aug 07 18:08:12 GMT 2017 |
|               | Diagnostic Status: No Diagnostics                                                                 |          |                                                                                      |                             |               |                                   |                              |        |                                         |  |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |          |                                                                                      |                             |               |                                   |                              |        |                                         |  |                              |
|               | Special Requirements: SCHED 80%; SAME ORIENT AS U1; AFTER U3 BY 1 Orbits TO 1.1 Orbits            |          |                                                                                      |                             |               |                                   |                              |        |                                         |  |                              |
| Fixed Targets | #                                                                                                 | Name     | Target Coordinates                                                                   |                             |               | Targ. Coord. Corrections          |                              | Fluxes | Miscellaneous                           |  |                              |
|               | (18)                                                                                              | ACO-1300 | RA: 11 31 54.0737 (172.9753071d)<br>Dec: -19 55 23.38 (-19.92316d)<br>Equinox: J2000 |                             |               |                                   |                              | V=18   | Reference Frame: SIMBAD                 |  |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |          |                                                                                      |                             |               |                                   |                              |        |                                         |  |                              |
|               |                                                                                                   |          |                                                                                      |                             |               |                                   |                              |        |                                         |  |                              |
| Exposures     | #                                                                                                 | Label    | Target                                                                               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |
|               | 1                                                                                                 | F140W    | (18) ACO-1300                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|               | 2                                                                                                 | F105W    | (18) ACO-1300                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |
|               | 3                                                                                                 | F105W    | (18) ACO-1300                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,<br>0.6055  |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |
|               | 4                                                                                                 | F140W    | (18) ACO-1300                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|               | 5                                                                                                 | F125W    | (18) ACO-1300                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0                 |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|               | 6                                                                                                 | F160W    | (18) ACO-1300                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |  | [1]                          |
|               | 7                                                                                                 | F160W    | (18) ACO-1300                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,<br>0.30275 |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |  | [1]                          |
|               | 8                                                                                                 | F125W    | (18) ACO-1300                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |



Proposal 14096 - 19 WHL-J24.3324-8.477 ACS1 (V1) - RELICS: Reionization Lensing Cluster Survey

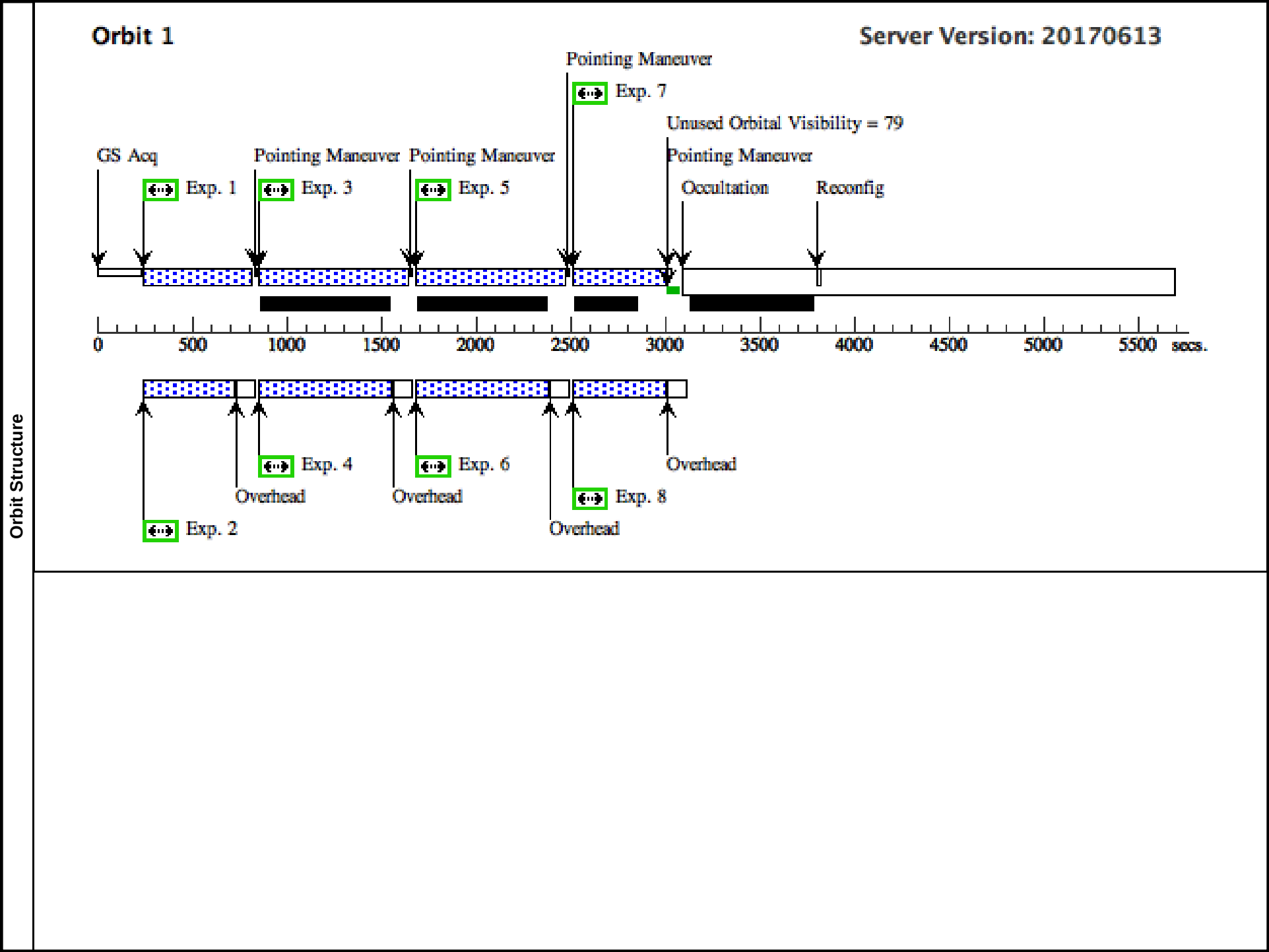
|               |                                                                                                                             |                    |                                                                                    |                          |                               |
|---------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------|--------------------------|-------------------------------|
| Visit         | Proposal 14096, 19 WHL-J24.3324-8.477 ACS1 (V1), completed <span>Mon Aug 07 18:08:12 GMT 2017</span>                        |                    |                                                                                    |                          |                               |
|               | Diagnostic Status: No Diagnostics<br>Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC<br>Special Requirements: SCHED 70% |                    |                                                                                    |                          |                               |
| Fixed Targets | #                                                                                                                           | Name               | Target Coordinates                                                                 | Targ. Coord. Corrections | Fluxes                        |
|               | (19)                                                                                                                        | WHL-J24.3324-8.477 | RA: 01 37 25.0000 (24.3541667d)<br>Dec: -08 27 25.00 (-8.45694d)<br>Equinox: J2000 |                          | V=18<br>Reference Frame: ICRS |

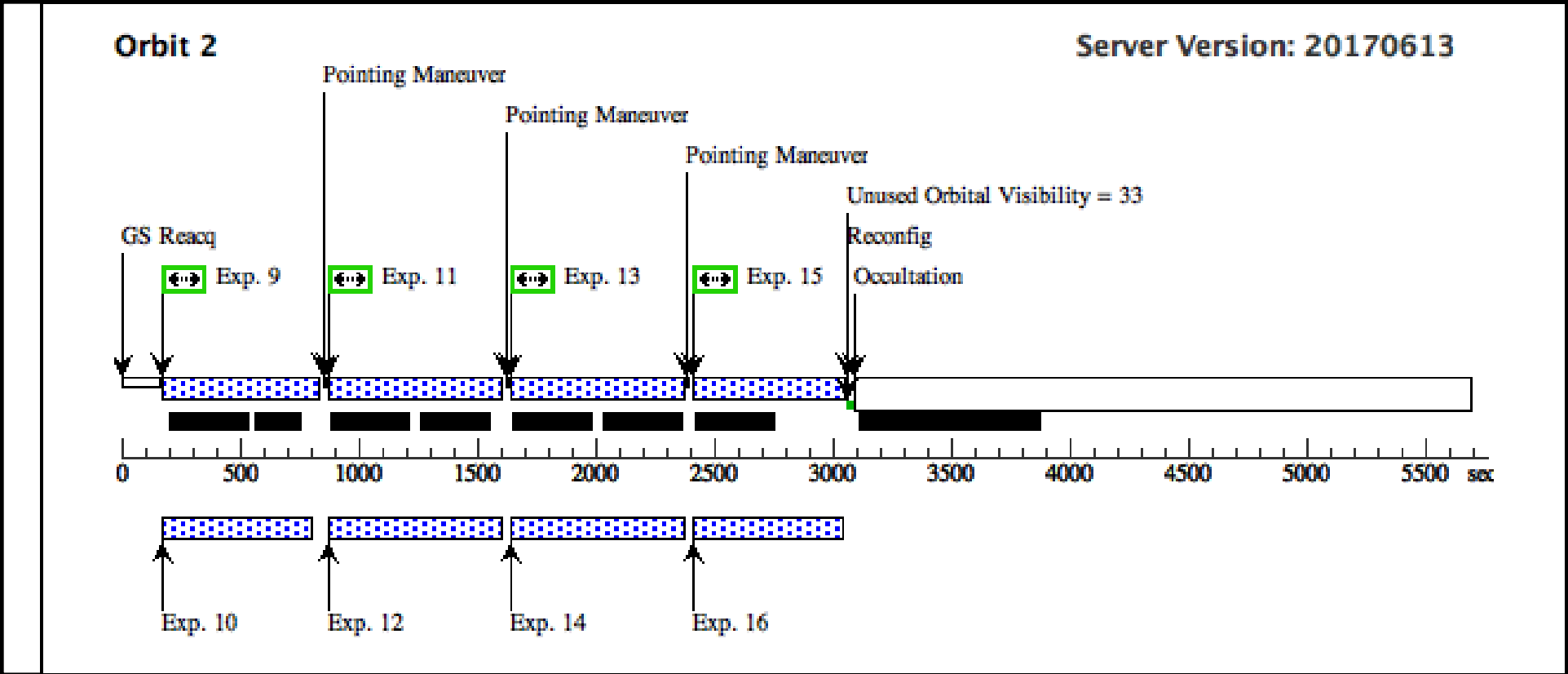
Proposal 14096 - 19 WHL-J24.3324-8.477 ACS1 (V1) - RELICS: Reionization Lensing Cluster Survey

| Exposures | #  | Label | Target                  | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.              | Groups                                                          | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|----|-------|-------------------------|-----------------------------|---------------|-----------------------------------|----------------------------|-----------------------------------------------------------------|-----------------------------------------|-------|
|           | 1  |       | (19) WHL-J24.3324-8.477 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | GS ACQ SCENARI<br>O SINGLE | Prime + Parallel Group 1-2 in 19 WHL-J24.3324-8.477 ACS1 (V1)   | 369 Secs (369 Secs)<br>[==>]            | [1]   |
|           | 2  |       | ANY                     | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                            | Prime + Parallel Group 1-2 in 19 WHL-J24.3324-8.477 ACS1 (V1)   | 453 Secs (453 Secs)<br>[==>]            | [1]   |
|           | 3  |       | (19) WHL-J24.3324-8.477 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.0741,2<br>.970  | Prime + Parallel Group 3-4 in 19 WHL-J24.3324-8.477 ACS1 (V1)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 4  |       | ANY                     | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                            | Prime + Parallel Group 3-4 in 19 WHL-J24.3324-8.477 ACS1 (V1)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 5  |       | (19) WHL-J24.3324-8.477 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.1976,5<br>.9687 | Prime + Parallel Group 5-6 in 19 WHL-J24.3324-8.477 ACS1 (V1)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 6  |       | ANY                     | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                            | Prime + Parallel Group 5-6 in 19 WHL-J24.3324-8.477 ACS1 (V1)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 7  |       | (19) WHL-J24.3324-8.477 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.2717,8<br>.9367 | Prime + Parallel Group 7-8 in 19 WHL-J24.3324-8.477 ACS1 (V1)   | 369 Secs (369 Secs)<br>[==>]            | [1]   |
|           | 8  |       | ANY                     | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                            | Prime + Parallel Group 7-8 in 19 WHL-J24.3324-8.477 ACS1 (V1)   | 495 Secs (495 Secs)<br>[==>]            | [1]   |
|           | 9  |       | (19) WHL-J24.3324-8.477 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   |                            | Prime + Parallel Group 9-10 in 19 WHL-J24.3324-8.477 ACS1 (V1)  | 515 Secs (515 Secs)<br>[==>]            | [2]   |
|           | 10 |       | ANY                     | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=13;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Group 9-10 in 19 WHL-J24.3324-8.477 ACS1 (V1)  | 602.937703 Secs (602.938 Secs)<br>[==>] | [2]   |
|           | 11 |       | (19) WHL-J24.3324-8.477 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   | POS TARG 0.0741,2<br>.970  | Prime + Parallel Group 11-12 in 19 WHL-J24.3324-8.477 ACS1 (V1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 12 |       | ANY                     | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Group 11-12 in 19 WHL-J24.3324-8.477 ACS1 (V1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |
|           | 13 |       | (19) WHL-J24.3324-8.477 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   | POS TARG 0.1976,5<br>.9687 | Prime + Parallel Group 13-14 in 19 WHL-J24.3324-8.477 ACS1 (V1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 14 |       | ANY                     | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Group 13-14 in 19 WHL-J24.3324-8.477 ACS1 (V1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |

Proposal 14096 - 19 WHL-J24.3324-8.477 ACS1 (V1) - RELICS: Reionization Lensing Cluster Survey

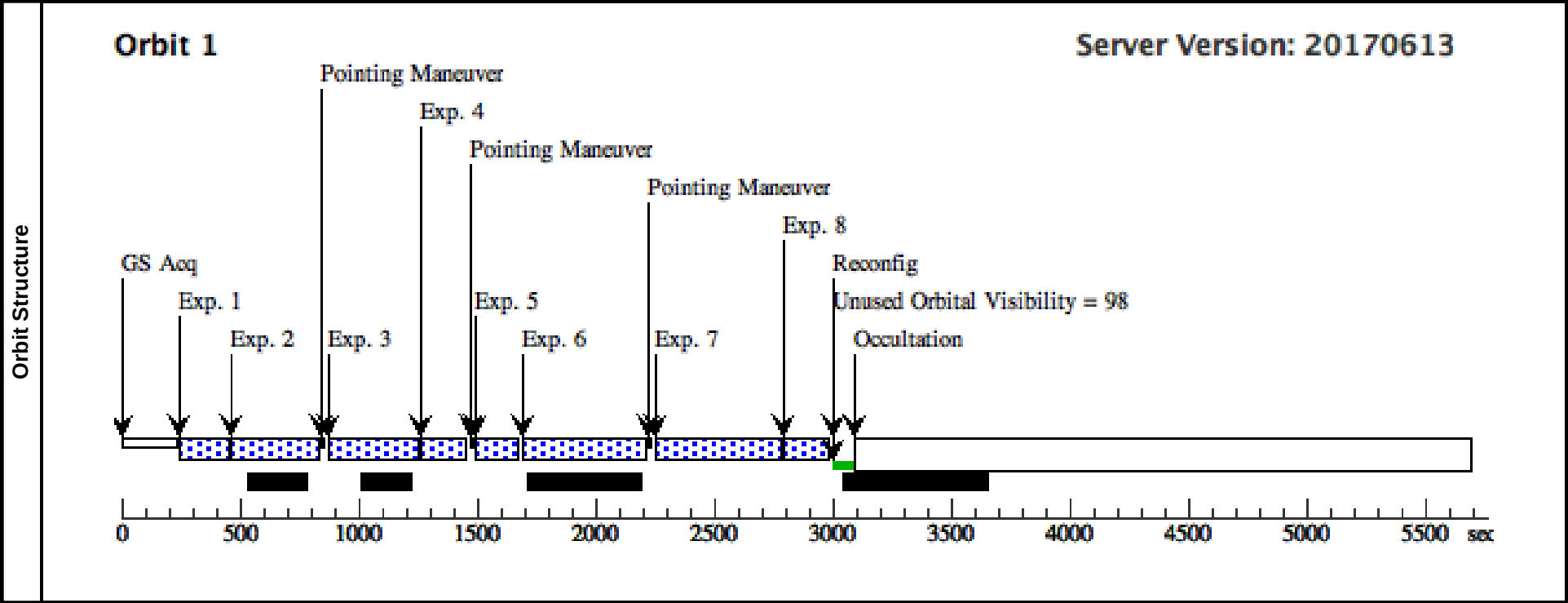
|  |    |                         |                             |       |                                   |                                                                 |                                |       |     |
|--|----|-------------------------|-----------------------------|-------|-----------------------------------|-----------------------------------------------------------------|--------------------------------|-------|-----|
|  | 15 | (19) WHL-J24.3324-8.477 | ACS/WFC, ACCUM, WFCENTER    | F814W | POS TARG 0.2717,8 .9367           | Prime + Parallel Group 15-16 in 19 WHL-J24.3324-8.477 ACS1 (V1) | 514 Secs (514 Secs)            | [==>] | [2] |
|  | 16 | ANY                     | WFC3/IR, MULTIACCUM, IR-FIX | F125W | NSAMP=13;<br>SAMP-SEQ=SPAR<br>S50 | Prime + Parallel Group 15-16 in 19 WHL-J24.3324-8.477 ACS1 (V1) | 602.937703 Secs (602.938 Secs) | [==>] | [2] |





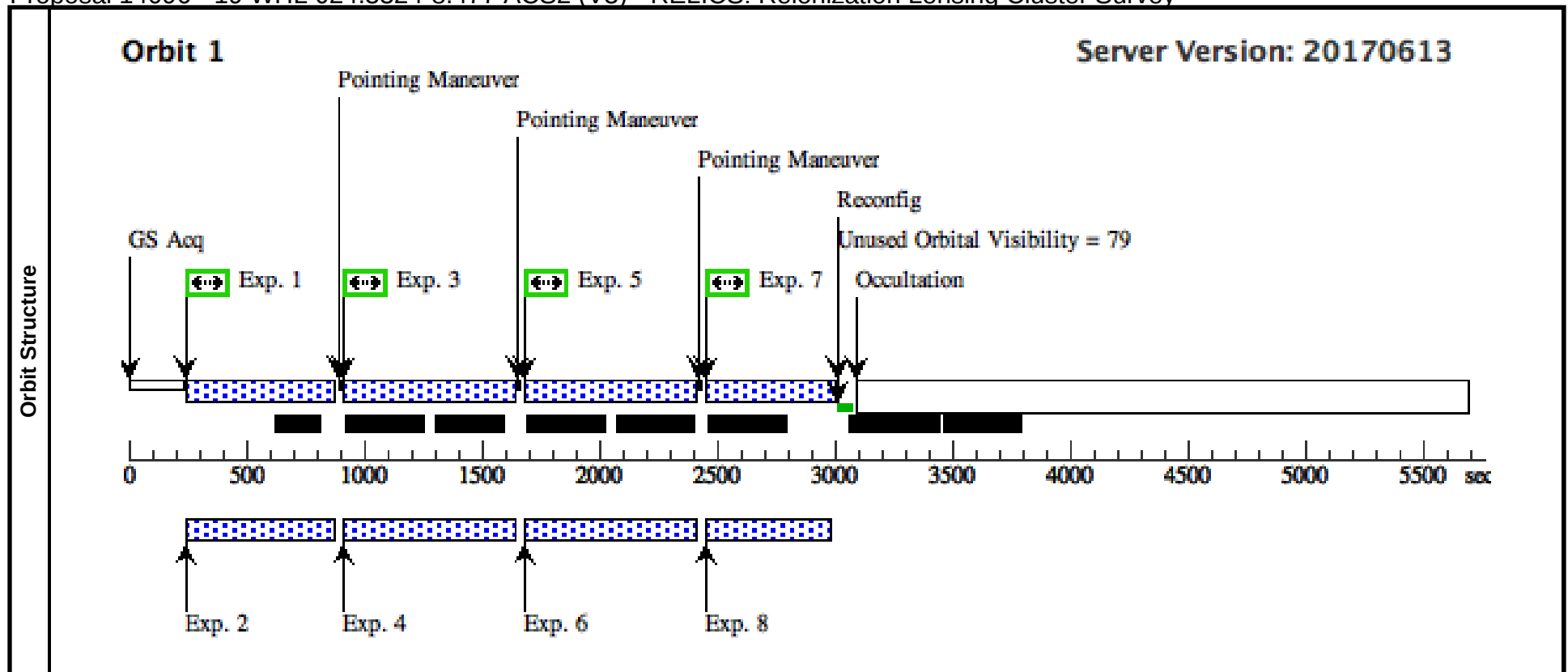
# Proposal 14096 - 19 WHL-J24.3324-8.477 IR1 (V2) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                                                                                       |                    |                                                                                    |                             |               |                                   |                              |        |                                         |       |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------|--------|-----------------------------------------|-------|
| Visit         | <b>Proposal 14096, 19 WHL-J24.3324-8.477 IR1 (V2), completed</b> <span>Mon Aug 07 18:08:12 GMT 2017</span>                                                            |                    |                                                                                    |                             |               |                                   |                              |        |                                         |       |
|               | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 70%; SAME ORIENT AS V1; AFTER V1 BY 2 Orbits TO 2.1 Orbits |                    |                                                                                    |                             |               |                                   |                              |        |                                         |       |
| Fixed Targets | #                                                                                                                                                                     | Name               | Target Coordinates                                                                 | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                     |                              |        |                                         |       |
|               | (19)                                                                                                                                                                  | WHL-J24.3324-8.477 | RA: 01 37 25.0000 (24.3541667d)<br>Dec: -08 27 25.00 (-8.45694d)<br>Equinox: J2000 |                             | V=18          | Reference Frame: ICRS             |                              |        |                                         |       |
| Exposures     | #                                                                                                                                                                     | Label              | Target                                                                             | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                                                     | F140W              | (19) WHL-J24.3324-8.477                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | GS ACQ SCENARI<br>O SINGLE   |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                                                                                     | F105W              | (19) WHL-J24.3324-8.477                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                                                     | F105W              | (19) WHL-J24.3324-8.477                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                                                                                     | F140W              | (19) WHL-J24.3324-8.477                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                                                     | F125W              | (19) WHL-J24.3324-8.477                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                                                                                     | F160W              | (19) WHL-J24.3324-8.477                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                                                                                     | F160W              | (19) WHL-J24.3324-8.477                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                                                                                     | F125W              | (19) WHL-J24.3324-8.477                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |



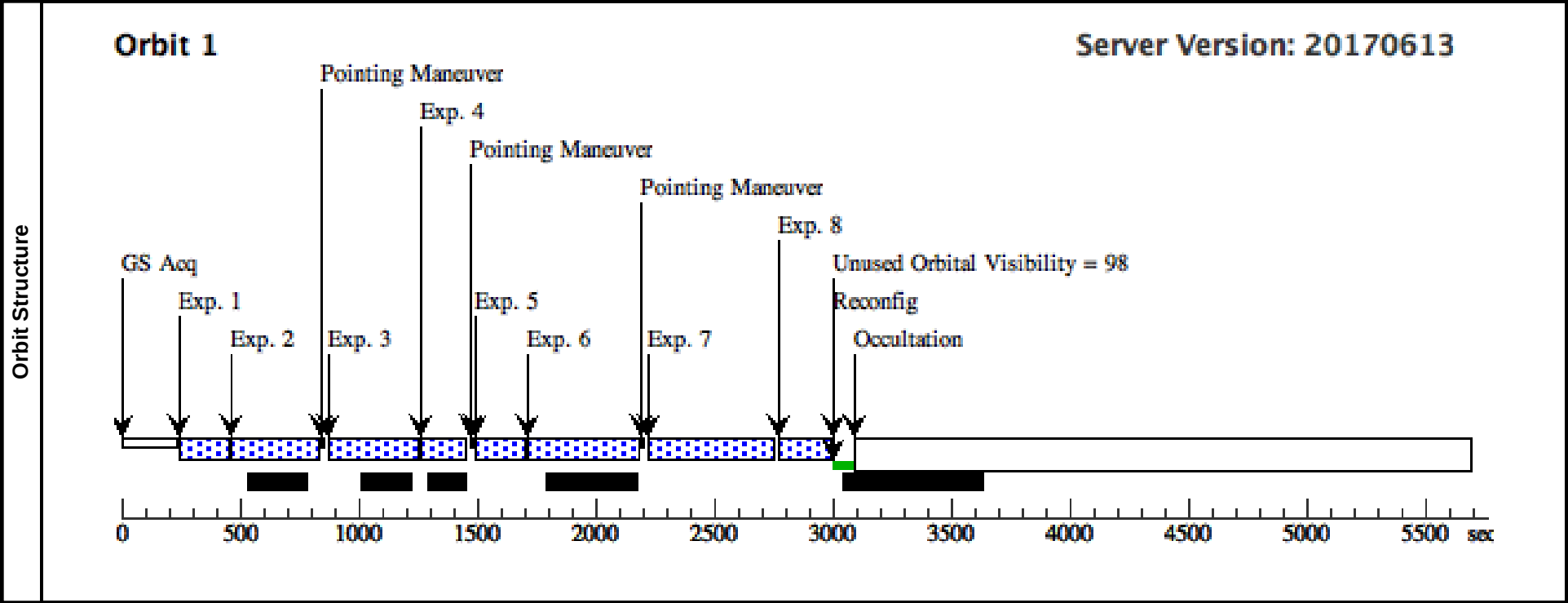
# Proposal 14096 - 19 WHL-J24.3324-8.477 ACS2 (V3) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                                                                                      |                    |                                                                                    |                             |               |                                   |                            |                                                               |                                         |       |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|----------------------------|---------------------------------------------------------------|-----------------------------------------|-------|
| Visit         | <b>Proposal 14096, 19 WHL-J24.3324-8.477 ACS2 (V3), completed</b> <span style="float: right;">Mon Aug 07 18:08:12 GMT 2017</span>                                    |                    |                                                                                    |                             |               |                                   |                            |                                                               |                                         |       |
|               | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR, ACS/WFC<br>Special Requirements: SCHED 70%; SAME ORIENT AS V1; AFTER V1 BY 40 D TO 60 D |                    |                                                                                    |                             |               |                                   |                            |                                                               |                                         |       |
| Fixed Targets | #                                                                                                                                                                    | Name               | Target Coordinates                                                                 | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                     |                            |                                                               |                                         |       |
|               | (19)                                                                                                                                                                 | WHL-J24.3324-8.477 | RA: 01 37 25.0000 (24.3541667d)<br>Dec: -08 27 25.00 (-8.45694d)<br>Equinox: J2000 |                             | V=18          | Reference Frame: ICRS             |                            |                                                               |                                         |       |
| Exposures     | #                                                                                                                                                                    | Label              | Target                                                                             | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.              | Groups                                                        | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                                                    |                    | (19) WHL-J24.3324-8.477                                                            | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   | GS ACQ SCENARI<br>O SINGLE | Prime + Parallel Group 1-2 in 19 WHL-J24.3324-8.477 ACS2 (V3) | 429 Secs (429 Secs)<br>[==>]            | [1]   |
|               | 2                                                                                                                                                                    |                    | ANY                                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=13;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Group 1-2 in 19 WHL-J24.3324-8.477 ACS2 (V3) | 602.937703 Secs (602.938 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                                                    |                    | (19) WHL-J24.3324-8.477                                                            | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   | POS TARG 0.0741,2<br>.970  | Prime + Parallel Group 3-4 in 19 WHL-J24.3324-8.477 ACS2 (V3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 4                                                                                                                                                                    |                    | ANY                                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Group 3-4 in 19 WHL-J24.3324-8.477 ACS2 (V3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                                                    |                    | (19) WHL-J24.3324-8.477                                                            | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   | POS TARG 0.1976,5<br>.9687 | Prime + Parallel Group 5-6 in 19 WHL-J24.3324-8.477 ACS2 (V3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 6                                                                                                                                                                    |                    | ANY                                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Group 5-6 in 19 WHL-J24.3324-8.477 ACS2 (V3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                                                                                    |                    | (19) WHL-J24.3324-8.477                                                            | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   | POS TARG 0.2717,8<br>.9367 | Prime + Parallel Group 7-8 in 19 WHL-J24.3324-8.477 ACS2 (V3) | 429 Secs (429 Secs)<br>[==>]            | [1]   |
|               | 8                                                                                                                                                                    |                    | ANY                                                                                | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Group 7-8 in 19 WHL-J24.3324-8.477 ACS2 (V3) | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |



# Proposal 14096 - 19 WHL-J24.3324-8.477 IR2 (V4) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                                                                                       |                    |                                                                                    |                             |               |                                   |                                                   |        |                                         |       |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|---------------------------------------------------|--------|-----------------------------------------|-------|
| Visit         | <b>Proposal 14096, 19 WHL-J24.3324-8.477 IR2 (V4), completed</b> <span>Mon Aug 07 18:08:12 GMT 2017</span>                                                            |                    |                                                                                    |                             |               |                                   |                                                   |        |                                         |       |
|               | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 70%; SAME ORIENT AS V1; AFTER V3 BY 1 Orbits TO 1.1 Orbits |                    |                                                                                    |                             |               |                                   |                                                   |        |                                         |       |
| Fixed Targets | #                                                                                                                                                                     | Name               | Target Coordinates                                                                 | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                     |                                                   |        |                                         |       |
|               | (19)                                                                                                                                                                  | WHL-J24.3324-8.477 | RA: 01 37 25.0000 (24.3541667d)<br>Dec: -08 27 25.00 (-8.45694d)<br>Equinox: J2000 |                             | V=18          | Reference Frame: ICRS             |                                                   |        |                                         |       |
| Exposures     | #                                                                                                                                                                     | Label              | Target                                                                             | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                                     | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                                                     | F140W              | (19) WHL-J24.3324-8.477                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.90825;<br>GS ACQ SCENARIO SINGLE |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                                                                                     | F105W              | (19) WHL-J24.3324-8.477                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                                     |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                                                     | F105W              | (19) WHL-J24.3324-8.477                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,0.6055                           |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                                                                                     | F140W              | (19) WHL-J24.3324-8.477                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                                     |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                                                     | F125W              | (19) WHL-J24.3324-8.477                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0                                      |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                                                                                     | F160W              | (19) WHL-J24.3324-8.477                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                                     |        | 452.93635 Secs (452.936 Secs)<br>[==>]  | [1]   |
|               | 7                                                                                                                                                                     | F160W              | (19) WHL-J24.3324-8.477                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,0.30275                          |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                                                                                     | F125W              | (19) WHL-J24.3324-8.477                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                                     |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |



# Proposal 14096 - 20 PLCKESZ-G346.59+35.04 ACS1 (W1) - RELICS: Reionization Lensing Cluster Survey

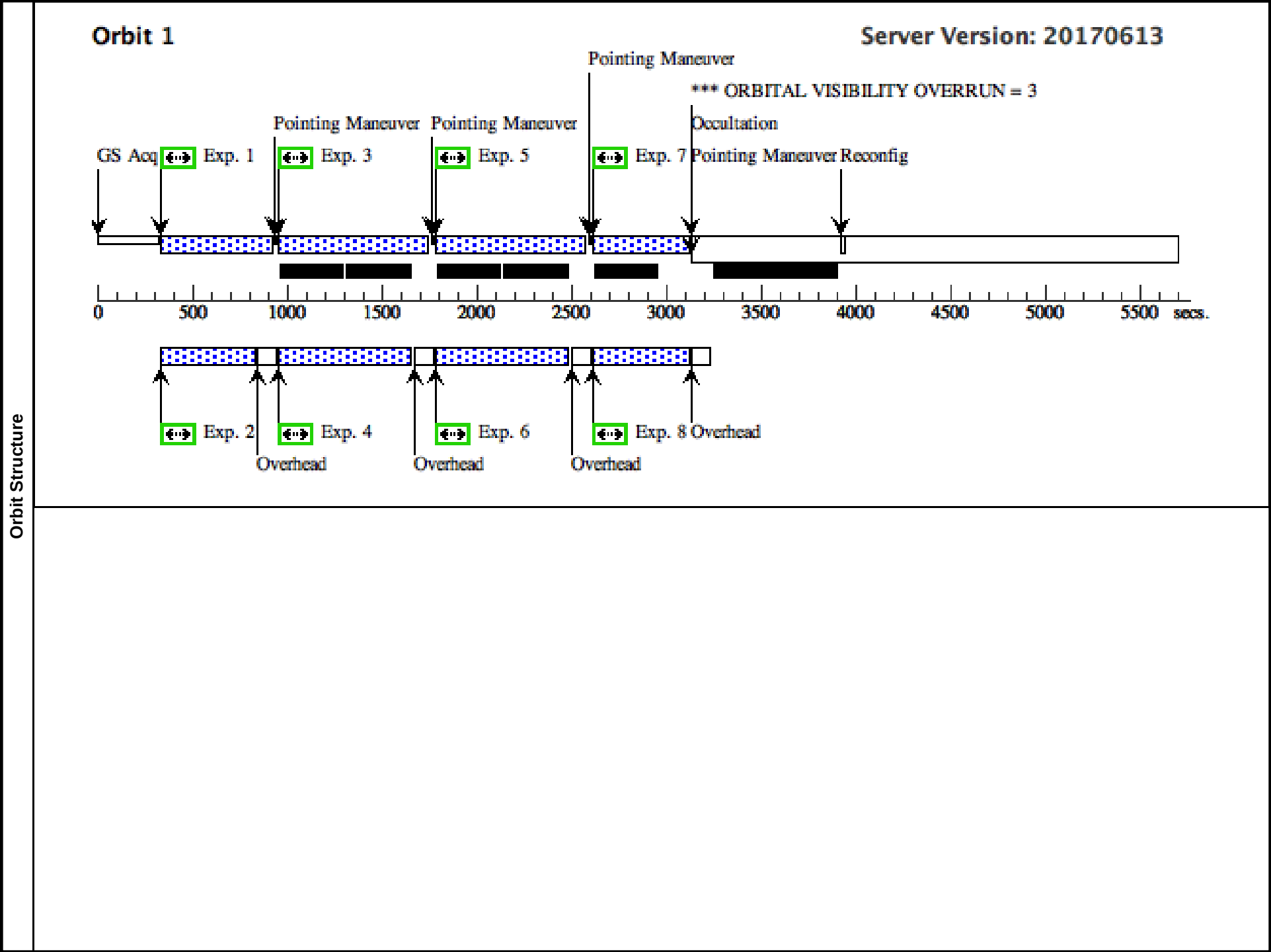
|               |                                                                                                   |                       |                                                                                     |                          |        |                              |
|---------------|---------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------|--------------------------|--------|------------------------------|
| Visit         | Proposal 14096, 20 PLCKESZ-G346.59+35.04 ACS1 (W1), completed                                     |                       |                                                                                     |                          |        | Mon Aug 07 18:08:12 GMT 2017 |
|               | Diagnostic Status: Warning                                                                        |                       |                                                                                     |                          |        |                              |
|               | Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC                                               |                       |                                                                                     |                          |        |                              |
|               | Special Requirements: SCHED 50%; ORIENT 302D TO 302 D                                             |                       |                                                                                     |                          |        |                              |
| Diagnostics   | (20 PLCKESZ-G346.59+35.04 ACS1 (W1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN          |                       |                                                                                     |                          |        |                              |
|               | (20 PLCKESZ-G346.59+35.04 ACS1 (W1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN          |                       |                                                                                     |                          |        |                              |
| Fixed Targets | #                                                                                                 | Name                  | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes | Miscellaneous                |
|               | (20)                                                                                              | PLCKESZ-G346.59+35.04 | RA: 15 15 0.7284 (228.7530350d)<br>Dec: -15 22 46.67 (-15.37963d)<br>Equinox: J2000 |                          | V=18   | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                       |                                                                                     |                          |        |                              |

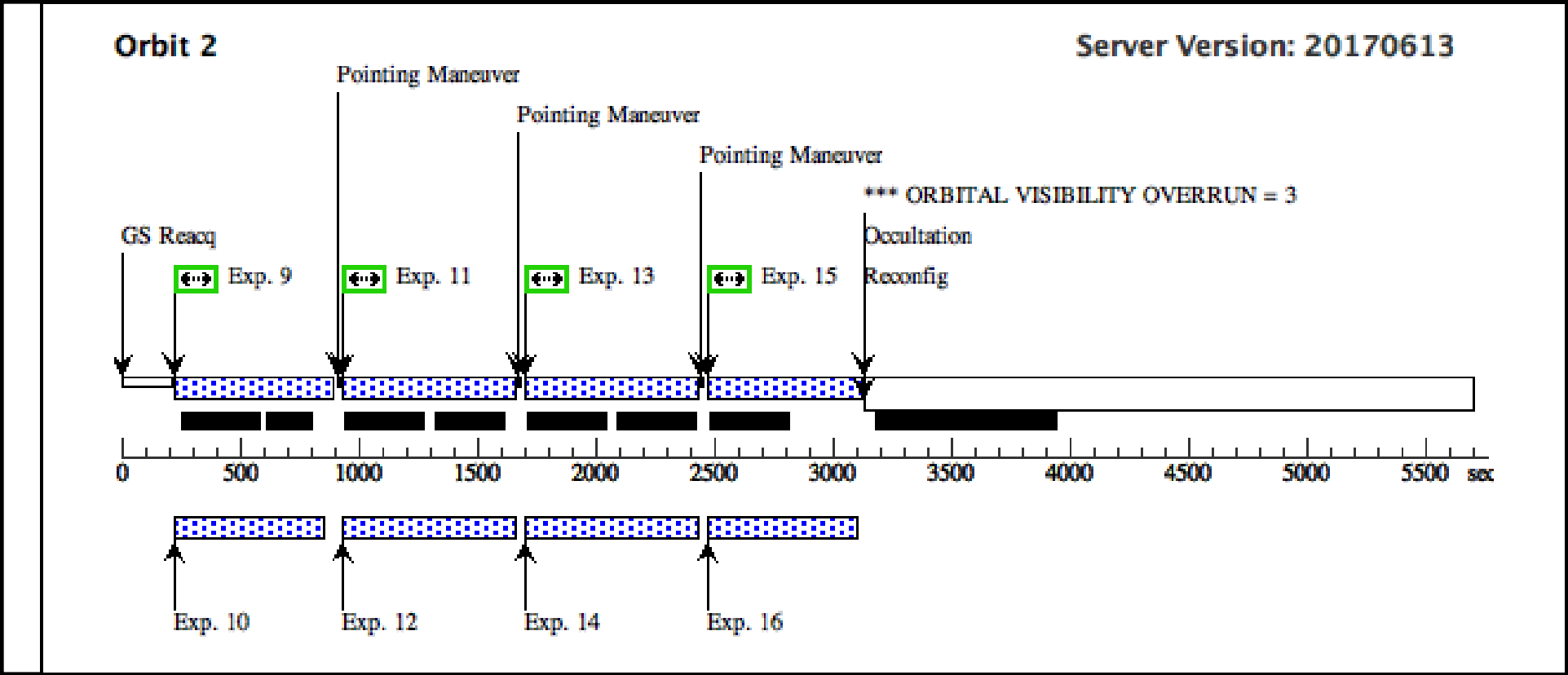
# Proposal 14096 - 20 PLCKESZ-G346.59+35.04 ACS1 (W1) - RELICS: Reionization Lensing Cluster Survey

| Exposures | #  | Label | Target                         | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.               | Groups                                                                         | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|----|-------|--------------------------------|-----------------------------|---------------|-----------------------------------|-----------------------------|--------------------------------------------------------------------------------|-----------------------------------------|-------|
|           | 1  |       | (20) PLCKESZ-G34<br>6.59+35.04 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | GS ACQ SCENARI<br>O BASE1B3 | Prime + Parallel Gro<br>up 1-2 in 20 PLCKE<br>SZ-G346.59+35.04<br>ACS1 (W1)    | 382 Secs (382 Secs)<br>[==>]            | [1]   |
|           | 2  |       | ANY                            | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                             | Prime + Parallel Gro<br>up 1-2 in 20 PLCKE<br>SZ-G346.59+35.04<br>ACS1 (W1)    | 466 Secs (466 Secs)<br>[==>]            | [1]   |
|           | 3  |       | (20) PLCKESZ-G34<br>6.59+35.04 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.0741,2<br>.970   | Prime + Parallel Gro<br>up 3-4 in 20 PLCKE<br>SZ-G346.59+35.04<br>ACS1 (W1)    | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 4  |       | ANY                            | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                             | Prime + Parallel Gro<br>up 3-4 in 20 PLCKE<br>SZ-G346.59+35.04<br>ACS1 (W1)    | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 5  |       | (20) PLCKESZ-G34<br>6.59+35.04 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.1976,5<br>.9687  | Prime + Parallel Gro<br>up 5-6 in 20 PLCKE<br>SZ-G346.59+35.04<br>ACS1 (W1)    | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 6  |       | ANY                            | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                             | Prime + Parallel Gro<br>up 5-6 in 20 PLCKE<br>SZ-G346.59+35.04<br>ACS1 (W1)    | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 7  |       | (20) PLCKESZ-G34<br>6.59+35.04 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.2717,8<br>.9367  | Prime + Parallel Gro<br>up 7-8 in 20 PLCKE<br>SZ-G346.59+35.04<br>ACS1 (W1)    | 382 Secs (382 Secs)<br>[==>]            | [1]   |
|           | 8  |       | ANY                            | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                             | Prime + Parallel Gro<br>up 7-8 in 20 PLCKE<br>SZ-G346.59+35.04<br>ACS1 (W1)    | 508 Secs (508 Secs)<br>[==>]            | [1]   |
|           | 9  |       | (20) PLCKESZ-G34<br>6.59+35.04 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   |                             | Prime + Parallel Gro<br>up 9-10 in 20 PLCK<br>ESZ-G346.59+35.04<br>ACS1 (W1)   | 528 Secs (528 Secs)<br>[==>]            | [2]   |
|           | 10 |       | ANY                            | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=13;<br>SAMP-SEQ=SPAR<br>S50 |                             | Prime + Parallel Gro<br>up 9-10 in 20 PLCK<br>ESZ-G346.59+35.04<br>ACS1 (W1)   | 602.937703 Secs (602.938 Secs)<br>[==>] | [2]   |
|           | 11 |       | (20) PLCKESZ-G34<br>6.59+35.04 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   | POS TARG 0.0741,2<br>.970   | Prime + Parallel Gro<br>up 11-12 in 20 PLC<br>KESZ-G346.59+35.<br>04 ACS1 (W1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 12 |       | ANY                            | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                             | Prime + Parallel Gro<br>up 11-12 in 20 PLC<br>KESZ-G346.59+35.<br>04 ACS1 (W1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |
|           | 13 |       | (20) PLCKESZ-G34<br>6.59+35.04 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   | POS TARG 0.1976,5<br>.9687  | Prime + Parallel Gro<br>up 13-14 in 20 PLC<br>KESZ-G346.59+35.<br>04 ACS1 (W1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 14 |       | ANY                            | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                             | Prime + Parallel Gro<br>up 13-14 in 20 PLC<br>KESZ-G346.59+35.<br>04 ACS1 (W1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |

Proposal 14096 - 20 PLCKESZ-G346.59+35.04 ACS1 (W1) - RELICS: Reionization Lensing Cluster Survey

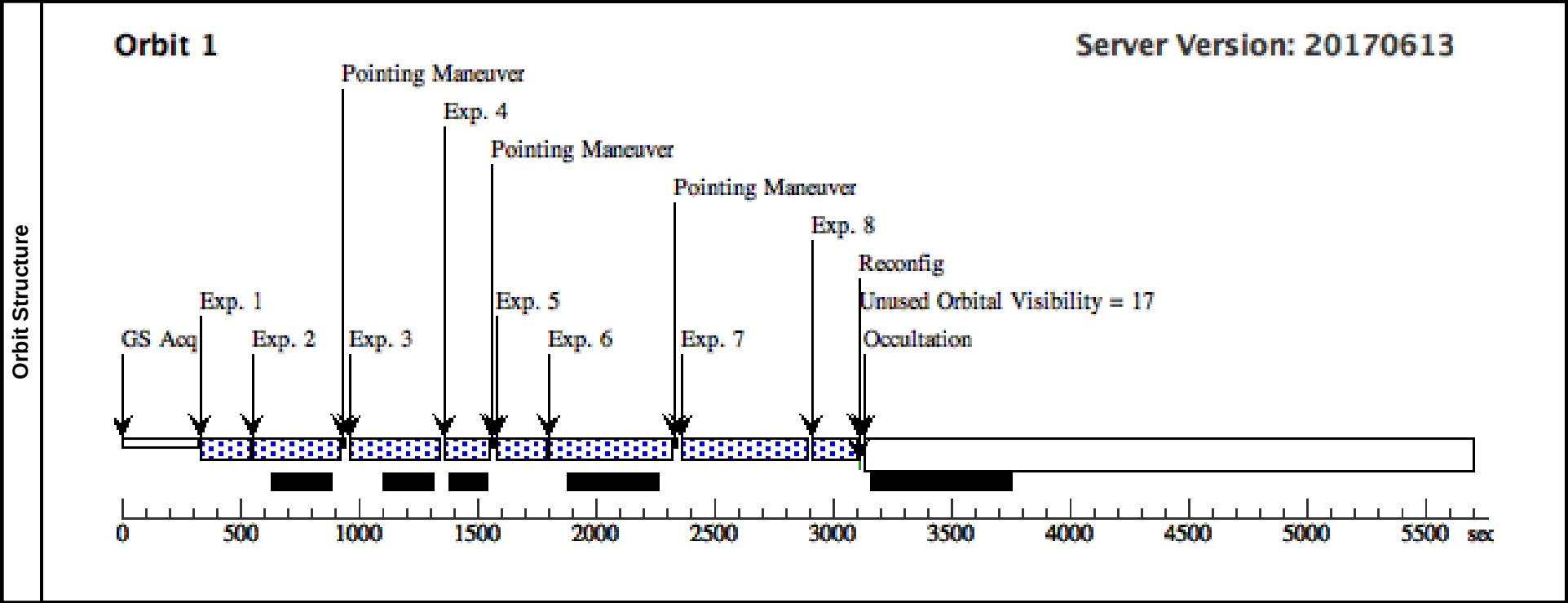
|  |    |                            |                             |       |                                   |                                                                    |                                |     |
|--|----|----------------------------|-----------------------------|-------|-----------------------------------|--------------------------------------------------------------------|--------------------------------|-----|
|  | 15 | (20) PLCKESZ-G346.59+35.04 | ACS/WFC, ACCUM, WFCENTER    | F814W | POS TARG 0.2717,8<br>.9367        | Prime + Parallel Group 15-16 in 20 PLCKESZ-G346.59+35.04 ACS1 (W1) | 527 Secs (527 Secs)            |     |
|  |    |                            |                             |       |                                   |                                                                    | [==>]                          | [2] |
|  | 16 | ANY                        | WFC3/IR, MULTIACCUM, IR-FIX | F125W | NSAMP=13;<br>SAMP-SEQ=SPAR<br>S50 | Prime + Parallel Group 15-16 in 20 PLCKESZ-G346.59+35.04 ACS1 (W1) | 602.937703 Secs (602.938 Secs) |     |
|  |    |                            |                             |       |                                   |                                                                    | [==>]                          | [2] |





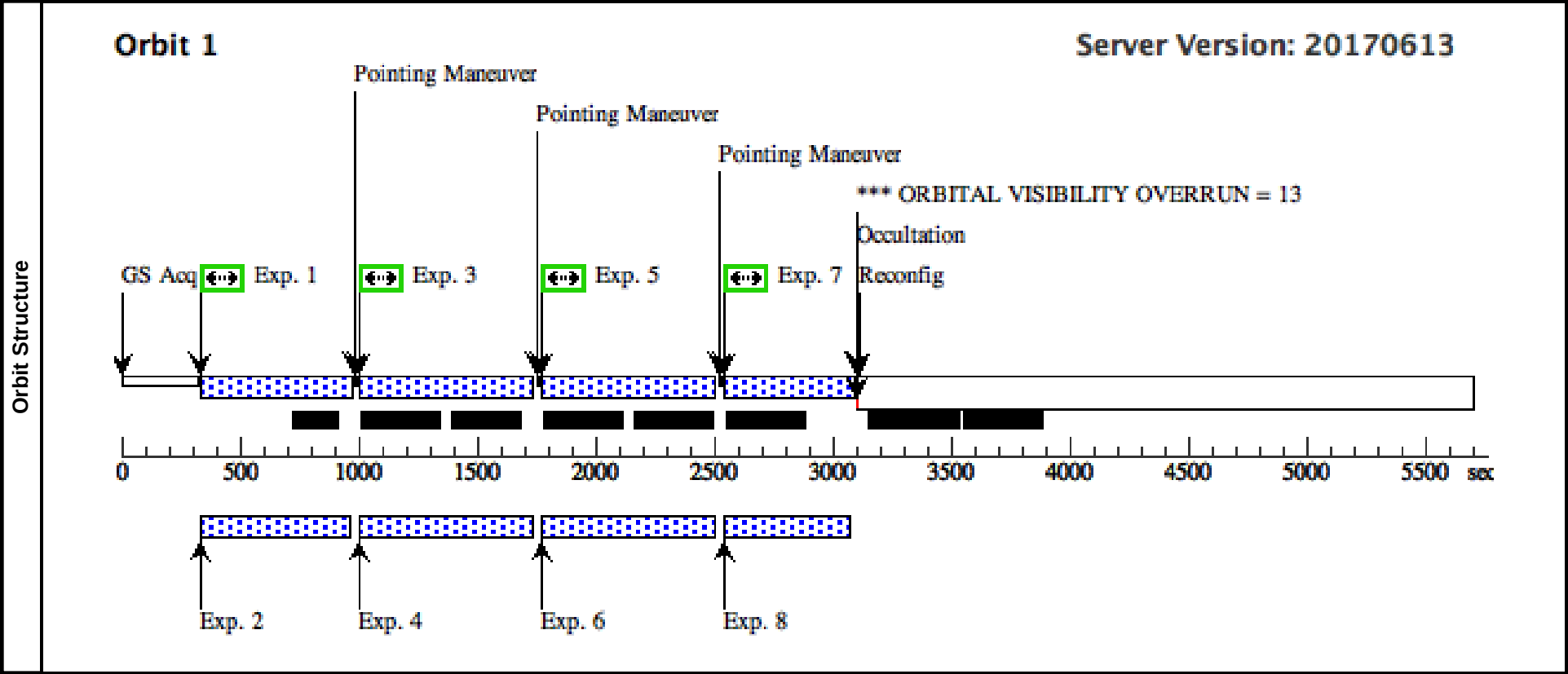
# Proposal 14096 - 20 PLCKESZ-G346.59+35.04 IR1 (W2) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                       |                                                                                     |                             |                          |                                |                           |        |                                         |  |       |
|---------------|---------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------|-----------------------------|--------------------------|--------------------------------|---------------------------|--------|-----------------------------------------|--|-------|
| Visit         | Proposal 14096, 20 PLCKESZ-G346.59+35.04 IR1 (W2), completed                                      |                       |                                                                                     |                             |                          |                                |                           |        | Mon Aug 07 18:08:12 GMT 2017            |  |       |
|               | Diagnostic Status: No Diagnostics                                                                 |                       |                                                                                     |                             |                          |                                |                           |        |                                         |  |       |
|               | Scientific Instruments: WFC3/IR                                                                   |                       |                                                                                     |                             |                          |                                |                           |        |                                         |  |       |
|               | Special Requirements: SCHED 50%; SAME ORIENT AS W1; AFTER W1 BY 1.9 Orbits TO 2.1 Orbits          |                       |                                                                                     |                             |                          |                                |                           |        |                                         |  |       |
| Fixed Targets | #                                                                                                 | Name                  | Target Coordinates                                                                  |                             | Targ. Coord. Corrections |                                | Fluxes                    |        | Miscellaneous                           |  |       |
|               | (20)                                                                                              | PLCKESZ-G346.59+35.04 | RA: 15 15 0.7284 (228.7530350d)<br>Dec: -15 22 46.67 (-15.37963d)<br>Equinox: J2000 |                             |                          |                                | V=18                      |        | Reference Frame: SIMBAD                 |  |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                       |                                                                                     |                             |                          |                                |                           |        |                                         |  |       |
|               |                                                                                                   |                       |                                                                                     |                             |                          |                                |                           |        |                                         |  |       |
| Exposures     | #                                                                                                 | Label                 | Target                                                                              | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.                   | Special Reqs.             | Groups | Exp. Time (Total)/[Actual Dur.]         |  | Orbit |
|               | 1                                                                                                 | F140W                 | (20) PLCKESZ-G346.59+35.04                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | GS ACQ SCENARIO BASE1B3   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]   |
|               | 2                                                                                                 | F105W                 | (20) PLCKESZ-G346.59+35.04                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | SAME POS AS 1             |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]   |
|               | 3                                                                                                 | F105W                 | (20) PLCKESZ-G346.59+35.04                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 6.84275, 0.30275 |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]   |
|               | 4                                                                                                 | F140W                 | (20) PLCKESZ-G346.59+35.04                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 3             |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]   |
|               | 5                                                                                                 | F125W                 | (20) PLCKESZ-G346.59+35.04                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 7.317,0.90825    |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]   |
|               | 6                                                                                                 | F160W                 | (20) PLCKESZ-G346.59+35.04                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | SAME POS AS 5             |        | 502.936801 Secs (502.937 Secs)<br>[==>] |  | [1]   |
|               | 7                                                                                                 | F160W                 | (20) PLCKESZ-G346.59+35.04                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | POS TARG 0.47425, 0.6055  |        | 502.936801 Secs (502.937 Secs)<br>[==>] |  | [1]   |
|               | 8                                                                                                 | F125W                 | (20) PLCKESZ-G346.59+35.04                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 7             |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]   |



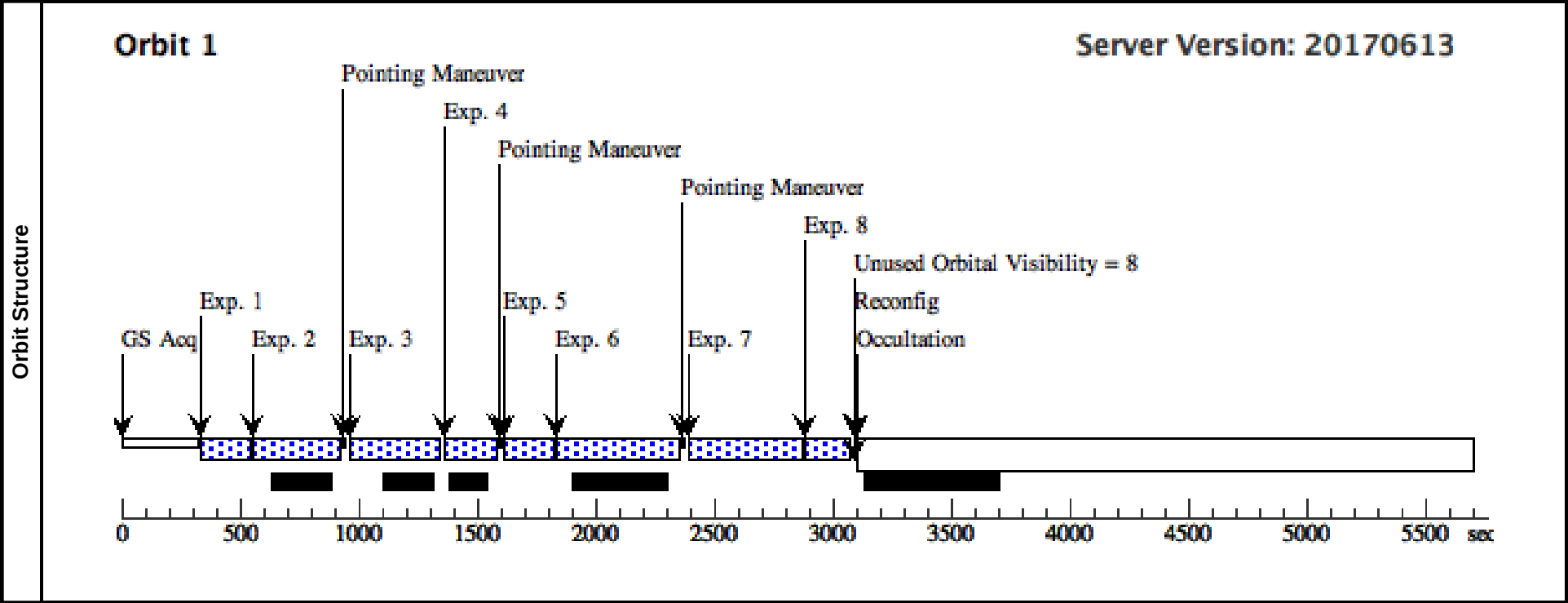
# Proposal 14096 - 20 PLCKESZ-G346.59+35.04 ACS2 (W3) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                          |                       |                                                                                     |                             |               |                               |                         |                                                                     |                                         |       |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------|-----------------------------|---------------|-------------------------------|-------------------------|---------------------------------------------------------------------|-----------------------------------------|-------|
| Visit                                                                                             | Proposal 14096, 20 PLCKESZ-G346.59+35.04 ACS2 (W3), completed                            |                       |                                                                                     |                             |               |                               |                         |                                                                     | Mon Aug 07 18:08:12 GMT 2017            |       |
|                                                                                                   | Diagnostic Status: Warning                                                               |                       |                                                                                     |                             |               |                               |                         |                                                                     |                                         |       |
|                                                                                                   | Scientific Instruments: WFC3/IR, ACS/WFC                                                 |                       |                                                                                     |                             |               |                               |                         |                                                                     |                                         |       |
|                                                                                                   | Special Requirements: SCHED 70%; SAME ORIENT AS W1; AFTER W1 BY 40 D TO 60 D             |                       |                                                                                     |                             |               |                               |                         |                                                                     |                                         |       |
| Diagnostics                                                                                       | (20 PLCKESZ-G346.59+35.04 ACS2 (W3)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |                       |                                                                                     |                             |               |                               |                         |                                                                     |                                         |       |
| Fixed Targets                                                                                     | #                                                                                        | Name                  | Target Coordinates                                                                  | Targ. Coord. Corrections    |               | Fluxes                        |                         | Miscellaneous                                                       |                                         |       |
|                                                                                                   | (20)                                                                                     | PLCKESZ-G346.59+35.04 | RA: 15 15 0.7284 (228.7530350d)<br>Dec: -15 22 46.67 (-15.37963d)<br>Equinox: J2000 |                             |               | V=18                          |                         | Reference Frame: SIMBAD                                             |                                         |       |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                          |                       |                                                                                     |                             |               |                               |                         |                                                                     |                                         |       |
| Exposures                                                                                         | #                                                                                        | Label                 | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                  | Special Reqs.           | Groups                                                              | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|                                                                                                   | 1                                                                                        |                       | (20) PLCKESZ-G346.59+35.04                                                          | ACS/WFC, ACCUM, WFCENTER    | F606W         |                               | GS ACQ SCENARIO BASE1B3 | Prime + Parallel Group up 1-2 in 20 PLCKESZ-G346.59+35.04 ACS2 (W3) | 430 Secs (430 Secs)<br>[==>]            | [1]   |
|                                                                                                   | 2                                                                                        |                       | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=13;<br>SAMP-SEQ=SPARS50 |                         | Prime + Parallel Group up 1-2 in 20 PLCKESZ-G346.59+35.04 ACS2 (W3) | 602.937703 Secs (602.938 Secs)<br>[==>] | [1]   |
|                                                                                                   | 3                                                                                        |                       | (20) PLCKESZ-G346.59+35.04                                                          | ACS/WFC, ACCUM, WFCENTER    | F606W         |                               | POS TARG 0.0741,2 .970  | Prime + Parallel Group up 3-4 in 20 PLCKESZ-G346.59+35.04 ACS2 (W3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|                                                                                                   | 4                                                                                        |                       | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPARS50 |                         | Prime + Parallel Group up 3-4 in 20 PLCKESZ-G346.59+35.04 ACS2 (W3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|                                                                                                   | 5                                                                                        |                       | (20) PLCKESZ-G346.59+35.04                                                          | ACS/WFC, ACCUM, WFCENTER    | F606W         |                               | POS TARG 0.1976,5 .9687 | Prime + Parallel Group up 5-6 in 20 PLCKESZ-G346.59+35.04 ACS2 (W3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|                                                                                                   | 6                                                                                        |                       | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPARS50 |                         | Prime + Parallel Group up 5-6 in 20 PLCKESZ-G346.59+35.04 ACS2 (W3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|                                                                                                   | 7                                                                                        |                       | (20) PLCKESZ-G346.59+35.04                                                          | ACS/WFC, ACCUM, WFCENTER    | F606W         |                               | POS TARG 0.2717,8 .9367 | Prime + Parallel Group up 7-8 in 20 PLCKESZ-G346.59+35.04 ACS2 (W3) | 430 Secs (430 Secs)<br>[==>]            | [1]   |
|                                                                                                   | 8                                                                                        |                       | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=11;<br>SAMP-SEQ=SPARS50 |                         | Prime + Parallel Group up 7-8 in 20 PLCKESZ-G346.59+35.04 ACS2 (W3) | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |



# Proposal 14096 - 20 PLCKESZ-G346.59+35.04 IR2 (W4) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                       |                                                                                     |                             |               |                                |                                                    |        |                                         |                         |                              |
|---------------|---------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|----------------------------------------------------|--------|-----------------------------------------|-------------------------|------------------------------|
| Visit         | Proposal 14096, 20 PLCKESZ-G346.59+35.04 IR2 (W4), completed                                      |                       |                                                                                     |                             |               |                                |                                                    |        |                                         |                         | Mon Aug 07 18:08:12 GMT 2017 |
|               | Diagnostic Status: No Diagnostics                                                                 |                       |                                                                                     |                             |               |                                |                                                    |        |                                         |                         |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |                       |                                                                                     |                             |               |                                |                                                    |        |                                         |                         |                              |
|               | Special Requirements: SCHED 70%; SAME ORIENT AS W1; AFTER W3 BY 0.9 Orbits TO 1.1 Orbits          |                       |                                                                                     |                             |               |                                |                                                    |        |                                         |                         |                              |
| Fixed Targets | #                                                                                                 | Name                  | Target Coordinates                                                                  |                             |               | Targ. Coord. Corrections       |                                                    | Fluxes |                                         | Miscellaneous           |                              |
|               | (20)                                                                                              | PLCKESZ-G346.59+35.04 | RA: 15 15 0.7284 (228.7530350d)<br>Dec: -15 22 46.67 (-15.37963d)<br>Equinox: J2000 |                             |               |                                |                                                    | V=18   |                                         | Reference Frame: SIMBAD |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                       |                                                                                     |                             |               |                                |                                                    |        |                                         |                         |                              |
|               |                                                                                                   |                       |                                                                                     |                             |               |                                |                                                    |        |                                         |                         |                              |
| Exposures     | #                                                                                                 | Label                 | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                                      | Groups | Exp. Time (Total)/[Actual Dur.]         |                         | Orbit                        |
|               | 1                                                                                                 | F140W                 | (20) PLCKESZ-G346.59+35.04                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 7.317,0.90825;<br>GS ACQ SCENARIO BASE1B3 |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 2                                                                                                 | F105W                 | (20) PLCKESZ-G346.59+35.04                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | SAME POS AS 1                                      |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|               | 3                                                                                                 | F105W                 | (20) PLCKESZ-G346.59+35.04                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0.47425,0.6055                            |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|               | 4                                                                                                 | F140W                 | (20) PLCKESZ-G346.59+35.04                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 3                                      |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                         | [1]                          |
|               | 5                                                                                                 | F125W                 | (20) PLCKESZ-G346.59+35.04                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0                                       |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 6                                                                                                 | F160W                 | (20) PLCKESZ-G346.59+35.04                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | SAME POS AS 5                                      |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |
|               | 7                                                                                                 | F160W                 | (20) PLCKESZ-G346.59+35.04                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR S50 | POS TARG 6.48275,0.30275                           |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |                         | [1]                          |
|               | 8                                                                                                 | F125W                 | (20) PLCKESZ-G346.59+35.04                                                          | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 7                                      |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               |                                                                                                   |                       |                                                                                     |                             |               |                                |                                                    |        |                                         |                         |                              |

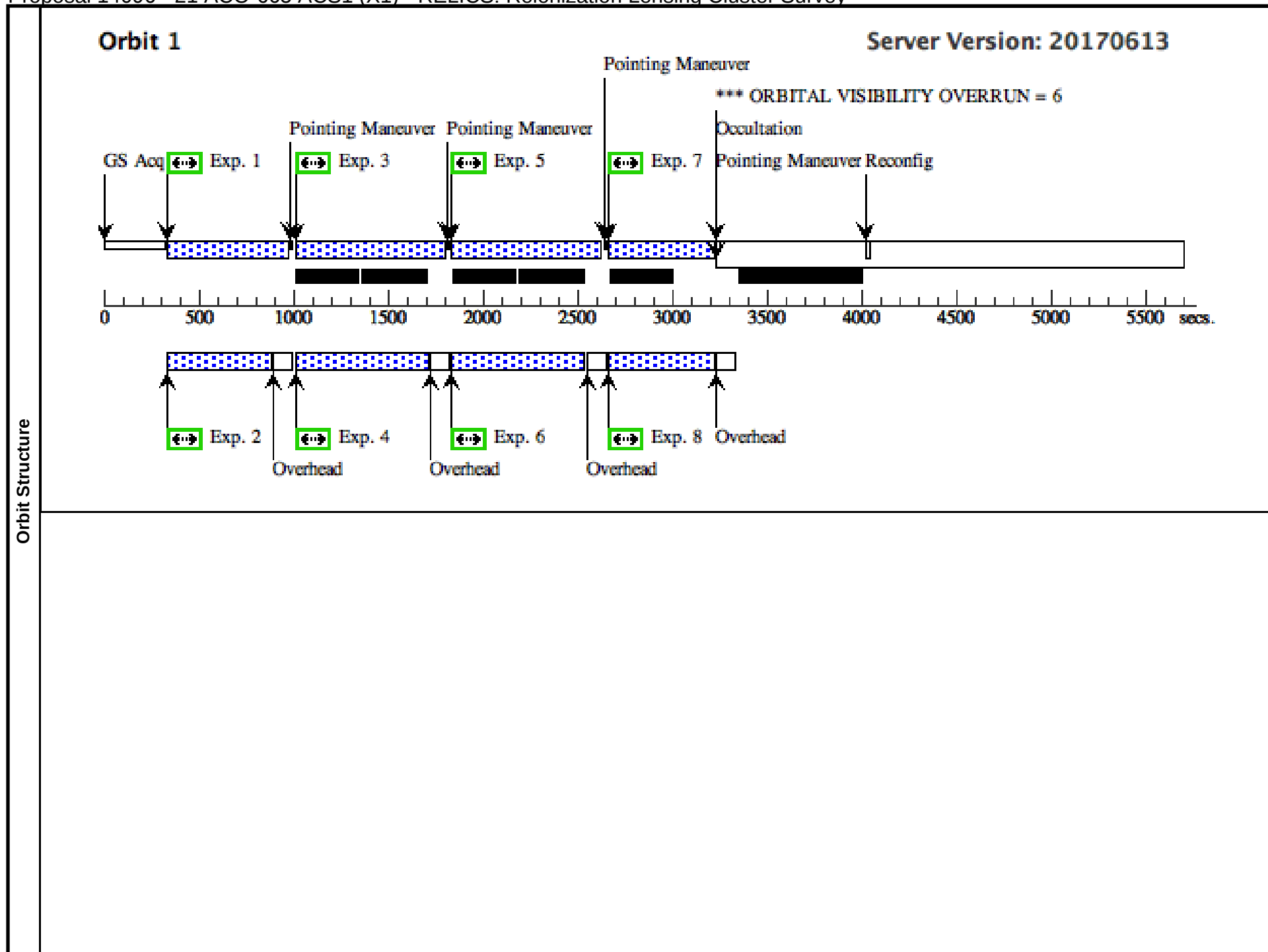


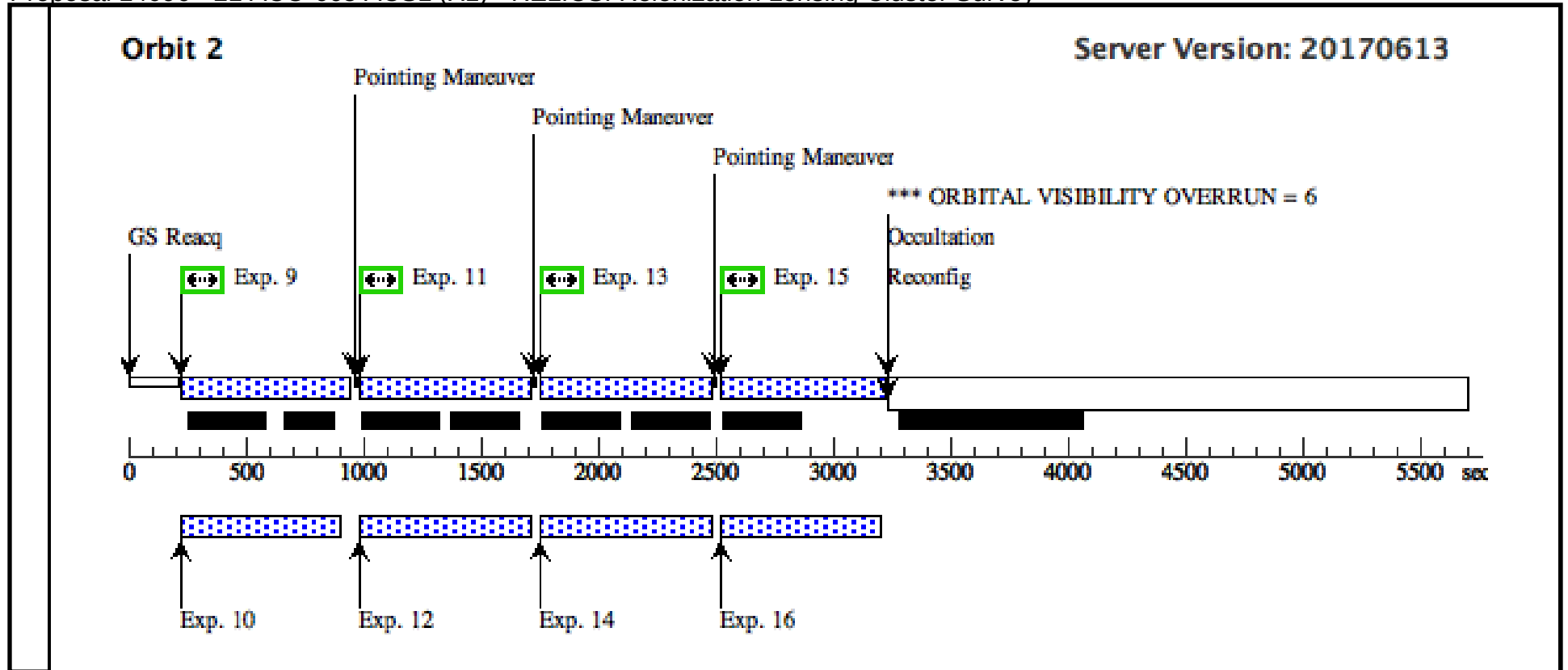
# Proposal 14096 - 21 ACO-665 ACS1 (X1) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                                                                                          |         |                                                                                     |                          |        |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|--------------------------|--------|
| Visit                                                                                             | <b>Proposal 14096, 21 ACO-665 ACS1 (X1), completed</b> <span>Mon Aug 07 18:08:12 GMT 2017</span>                                                         |         |                                                                                     |                          |        |
|                                                                                                   | <b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC<br>Special Requirements: SCHED 70%                              |         |                                                                                     |                          |        |
| Diagnostics                                                                                       | (21 ACO-665 ACS1 (X1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(21 ACO-665 ACS1 (X1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |         |                                                                                     |                          |        |
|                                                                                                   |                                                                                                                                                          |         |                                                                                     |                          |        |
| Fixed Targets                                                                                     | #                                                                                                                                                        | Name    | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes |
|                                                                                                   | (21)                                                                                                                                                     | ACO-665 | RA: 08 30 57.3500 (127.7389583d)<br>Dec: +65 50 31.00 (65.84194d)<br>Equinox: J2000 |                          | V=18   |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                                                                                          |         |                                                                                     |                          |        |
|                                                                                                   |                                                                                                                                                          |         |                                                                                     |                          |        |

# Proposal 14096 - 21 ACO-665 ACS1 (X1) - RELICS: Reionization Lensing Cluster Survey

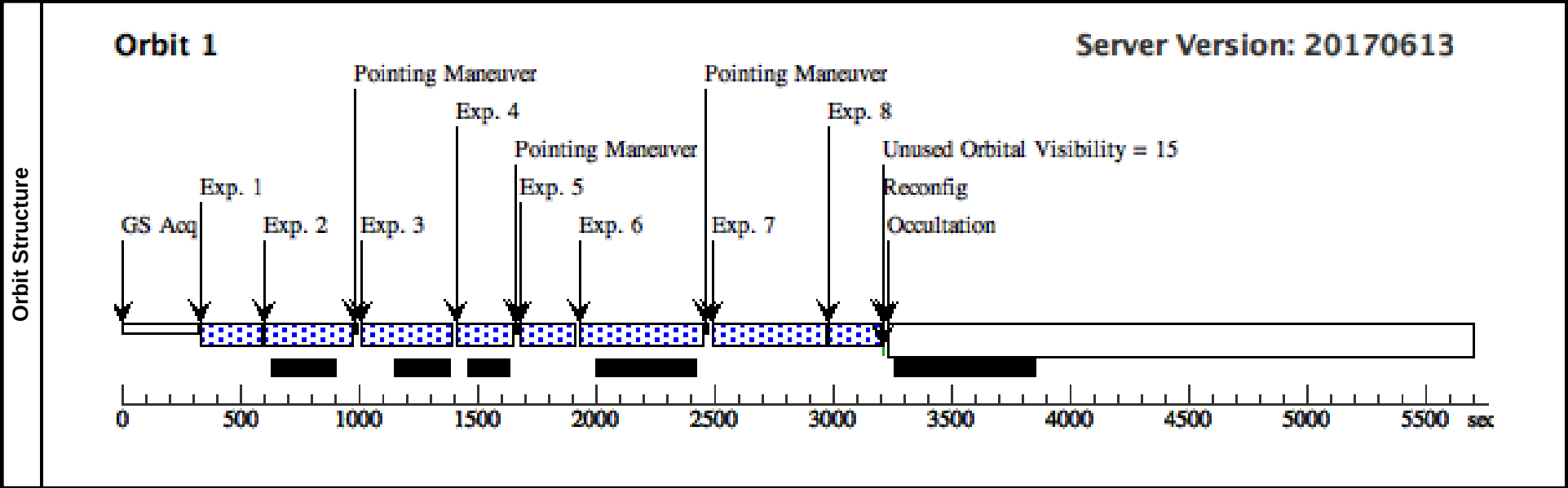
| Exposures | #  | Label | Target       | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.           | Groups                                               | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|----|-------|--------------|-----------------------------|---------------|-----------------------------------|-------------------------|------------------------------------------------------|-----------------------------------------|-------|
|           | 1  |       | (21) ACO-665 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   |                         | Prime + Parallel Group 1-2 in 21 ACO-665 ACS1 (X1)   | 433 Secs (433 Secs)<br>[==>]            | [1]   |
|           | 2  |       | ANY          | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                         | Prime + Parallel Group 1-2 in 21 ACO-665 ACS1 (X1)   | 517 Secs (517 Secs)<br>[==>]            | [1]   |
|           | 3  |       | (21) ACO-665 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.0741,2 .970  | Prime + Parallel Group 3-4 in 21 ACO-665 ACS1 (X1)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 4  |       | ANY          | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                         | Prime + Parallel Group 3-4 in 21 ACO-665 ACS1 (X1)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 5  |       | (21) ACO-665 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 5-6 in 21 ACO-665 ACS1 (X1)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 6  |       | ANY          | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                         | Prime + Parallel Group 5-6 in 21 ACO-665 ACS1 (X1)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 7  |       | (21) ACO-665 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 7-8 in 21 ACO-665 ACS1 (X1)   | 432 Secs (432 Secs)<br>[==>]            | [1]   |
|           | 8  |       | ANY          | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                         | Prime + Parallel Group 7-8 in 21 ACO-665 ACS1 (X1)   | 558 Secs (558 Secs)<br>[==>]            | [1]   |
|           | 9  |       | (21) ACO-665 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   |                         | Prime + Parallel Group 9-10 in 21 ACO-665 ACS1 (X1)  | 578 Secs (578 Secs)<br>[==>]            | [2]   |
|           | 10 |       | ANY          | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S50 |                         | Prime + Parallel Group 9-10 in 21 ACO-665 ACS1 (X1)  | 652.938154 Secs (652.938 Secs)<br>[==>] | [2]   |
|           | 11 |       | (21) ACO-665 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   | POS TARG 0.0741,2 .970  | Prime + Parallel Group 11-12 in 21 ACO-665 ACS1 (X1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 12 |       | ANY          | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                         | Prime + Parallel Group 11-12 in 21 ACO-665 ACS1 (X1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |
|           | 13 |       | (21) ACO-665 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 13-14 in 21 ACO-665 ACS1 (X1) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 14 |       | ANY          | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                         | Prime + Parallel Group 13-14 in 21 ACO-665 ACS1 (X1) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |
|           | 15 |       | (21) ACO-665 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 15-16 in 21 ACO-665 ACS1 (X1) | 578 Secs (578 Secs)<br>[==>]            | [2]   |
|           | 16 |       | ANY          | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S50 |                         | Prime + Parallel Group 15-16 in 21 ACO-665 ACS1 (X1) | 652.938154 Secs (652.938 Secs)<br>[==>] | [2]   |





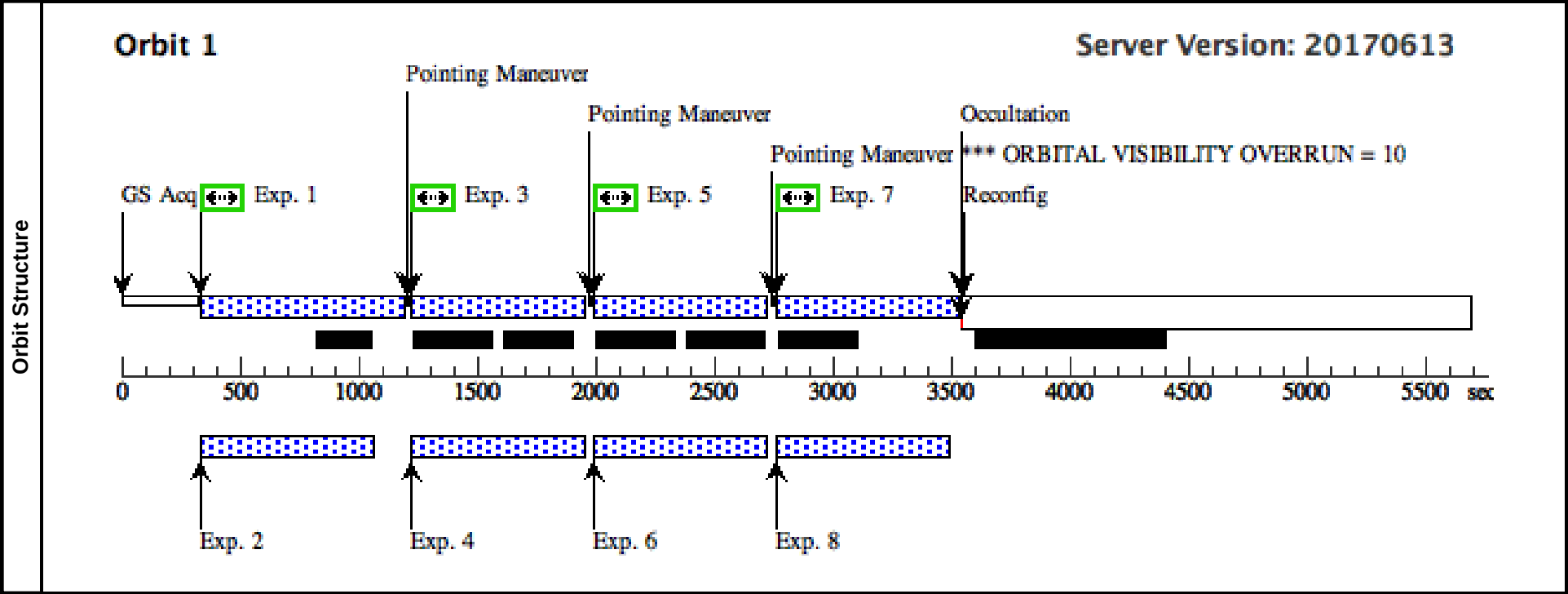
# Proposal 14096 - 21 ACO-665 IR1 (X2) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |         |                                                                                     |                             |               |                                   |                              |        |                                         |  |                              |
|---------------|---------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------|--------|-----------------------------------------|--|------------------------------|
| Visit         | Proposal 14096, 21 ACO-665 IR1 (X2), completed                                                    |         |                                                                                     |                             |               |                                   |                              |        |                                         |  | Mon Aug 07 18:08:12 GMT 2017 |
|               | Diagnostic Status: No Diagnostics                                                                 |         |                                                                                     |                             |               |                                   |                              |        |                                         |  |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |         |                                                                                     |                             |               |                                   |                              |        |                                         |  |                              |
|               | Special Requirements: SCHED 70%; SAME ORIENT AS X1; AFTER X1 BY 1.9 Orbits TO 2.1 Orbits          |         |                                                                                     |                             |               |                                   |                              |        |                                         |  |                              |
| Fixed Targets | #                                                                                                 | Name    | Target Coordinates                                                                  | Targ. Coord. Corrections    |               |                                   | Fluxes                       |        | Miscellaneous                           |  |                              |
|               | (21)                                                                                              | ACO-665 | RA: 08 30 57.3500 (127.7389583d)<br>Dec: +65 50 31.00 (65.84194d)<br>Equinox: J2000 |                             |               |                                   | V=18                         |        | Reference Frame: SIMBAD                 |  |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |         |                                                                                     |                             |               |                                   |                              |        |                                         |  |                              |
|               |                                                                                                   |         |                                                                                     |                             |               |                                   |                              |        |                                         |  |                              |
| Exposures     | #                                                                                                 | Label   | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |
|               | 1                                                                                                 | F140W   | (21) ACO-665                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S25 |                              |        | 227.936926 Secs (227.937 Secs)<br>[==>] |  | [1]                          |
|               | 2                                                                                                 | F105W   | (21) ACO-665                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |
|               | 3                                                                                                 | F105W   | (21) ACO-665                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |
|               | 4                                                                                                 | F140W   | (21) ACO-665                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S25 | SAME POS AS 3                |        | 227.936926 Secs (227.937 Secs)<br>[==>] |  | [1]                          |
|               | 5                                                                                                 | F125W   | (21) ACO-665                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |
|               | 6                                                                                                 | F160W   | (21) ACO-665                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 502.936801 Secs (502.937 Secs)<br>[==>] |  | [1]                          |
|               | 7                                                                                                 | F160W   | (21) ACO-665                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |  | [1]                          |
|               | 8                                                                                                 | F125W   | (21) ACO-665                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |
|               |                                                                                                   |         |                                                                                     |                             |               |                                   |                              |        |                                         |  |                              |



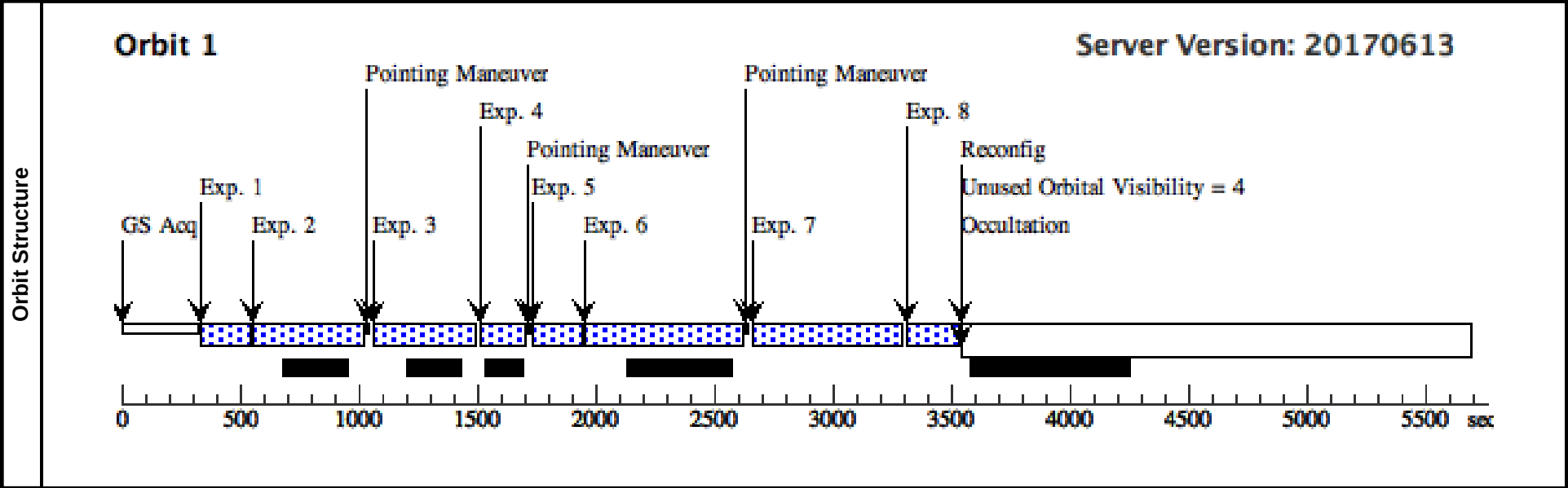
# Proposal 14096 - 21 ACO-665 ACS2 (X3) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |         |                                                                                     |                             |               |                                   |                            |                                                            |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|----------------------------|------------------------------------------------------------|-----------------------------------------|-------|
| Visit         | Proposal 14096, 21 ACO-665 ACS2 (X3), completed                                                   |         |                                                                                     |                             |               |                                   |                            |                                                            | Mon Aug 07 18:08:12 GMT 2017            |       |
|               | Diagnostic Status: Warning                                                                        |         |                                                                                     |                             |               |                                   |                            |                                                            |                                         |       |
|               | Scientific Instruments: WFC3/IR, ACS/WFC                                                          |         |                                                                                     |                             |               |                                   |                            |                                                            |                                         |       |
|               | Special Requirements: SCHED 30%; SAME ORIENT AS X1; AFTER X1 BY 40 D TO 60 D                      |         |                                                                                     |                             |               |                                   |                            |                                                            |                                         |       |
| Diagnostics   | (21 ACO-665 ACS2 (X3)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                        |         |                                                                                     |                             |               |                                   |                            |                                                            |                                         |       |
| Fixed Targets | #                                                                                                 | Name    | Target Coordinates                                                                  | Targ. Coord. Corrections    |               |                                   | Fluxes                     | Miscellaneous                                              |                                         |       |
|               | (21)                                                                                              | ACO-665 | RA: 08 30 57.3500 (127.7389583d)<br>Dec: +65 50 31.00 (65.84194d)<br>Equinox: J2000 |                             |               |                                   | V=18                       | Reference Frame: SIMBAD                                    |                                         |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |         |                                                                                     |                             |               |                                   |                            |                                                            |                                         |       |
|               |                                                                                                   |         |                                                                                     |                             |               |                                   |                            |                                                            |                                         |       |
| Exposures     | #                                                                                                 | Label   | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.              | Groups                                                     | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                 |         | (21) ACO-665                                                                        | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   |                            | Prime + Parallel Gro<br>up 1-2 in 21 ACO-66<br>5 ACS2 (X3) | 652 Secs (652 Secs)<br>[==>]            | [1]   |
|               | 2                                                                                                 |         | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Gro<br>up 1-2 in 21 ACO-66<br>5 ACS2 (X3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                 |         | (21) ACO-665                                                                        | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   | POS TARG 0.0741,2<br>.970  | Prime + Parallel Gro<br>up 3-4 in 21 ACO-66<br>5 ACS2 (X3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 4                                                                                                 |         | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Gro<br>up 3-4 in 21 ACO-66<br>5 ACS2 (X3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                 |         | (21) ACO-665                                                                        | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   | POS TARG 0.1976,5<br>.9687 | Prime + Parallel Gro<br>up 5-6 in 21 ACO-66<br>5 ACS2 (X3) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 6                                                                                                 |         | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Gro<br>up 5-6 in 21 ACO-66<br>5 ACS2 (X3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                 |         | (21) ACO-665                                                                        | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   | POS TARG 0.2717,8<br>.9367 | Prime + Parallel Gro<br>up 7-8 in 21 ACO-66<br>5 ACS2 (X3) | 651 Secs (651 Secs)<br>[==>]            | [1]   |
|               | 8                                                                                                 |         | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Gro<br>up 7-8 in 21 ACO-66<br>5 ACS2 (X3) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               |                                                                                                   |         |                                                                                     |                             |               |                                   |                            |                                                            |                                         |       |
|               |                                                                                                   |         |                                                                                     |                             |               |                                   |                            |                                                            |                                         |       |
|               |                                                                                                   |         |                                                                                     |                             |               |                                   |                            |                                                            |                                         |       |
|               |                                                                                                   |         |                                                                                     |                             |               |                                   |                            |                                                            |                                         |       |
|               |                                                                                                   |         |                                                                                     |                             |               |                                   |                            |                                                            |                                         |       |
|               |                                                                                                   |         |                                                                                     |                             |               |                                   |                            |                                                            |                                         |       |



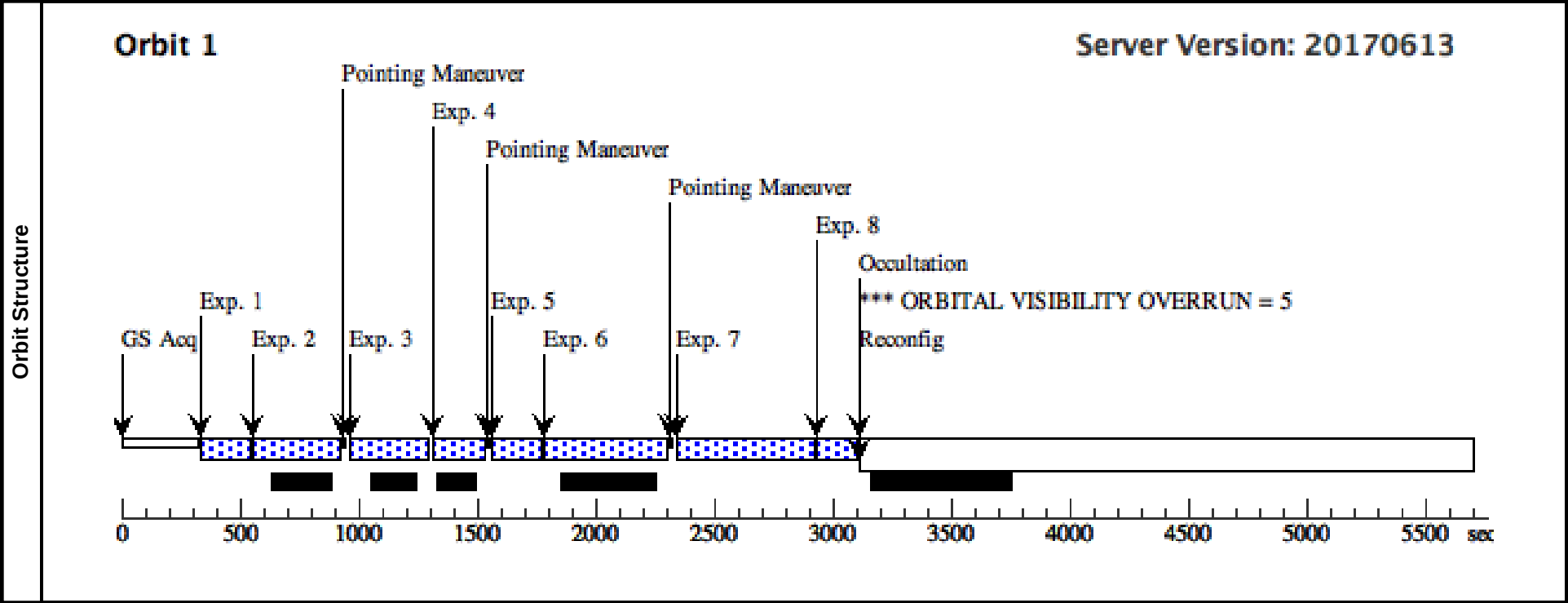
# Proposal 14096 - 21 ACO-665 IR2 (X4) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |         |                                                                                     |                             |                          |                                   |                              |        |                                         |                              |       |
|---------------|---------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|-----------------------------|--------------------------|-----------------------------------|------------------------------|--------|-----------------------------------------|------------------------------|-------|
| Visit         | Proposal 14096, 21 ACO-665 IR2 (X4), completed                                                    |         |                                                                                     |                             |                          |                                   |                              |        |                                         | Mon Aug 07 18:08:12 GMT 2017 |       |
|               | Diagnostic Status: No Diagnostics                                                                 |         |                                                                                     |                             |                          |                                   |                              |        |                                         |                              |       |
|               | Scientific Instruments: WFC3/IR                                                                   |         |                                                                                     |                             |                          |                                   |                              |        |                                         |                              |       |
|               | Special Requirements: SCHED 30%; SAME ORIENT AS X1; AFTER X3 BY 0.9 Orbits TO 1.1 Orbits          |         |                                                                                     |                             |                          |                                   |                              |        |                                         |                              |       |
| Fixed Targets | #                                                                                                 | Name    | Target Coordinates                                                                  |                             | Targ. Coord. Corrections |                                   | Fluxes                       |        | Miscellaneous                           |                              |       |
|               | (21)                                                                                              | ACO-665 | RA: 08 30 57.3500 (127.7389583d)<br>Dec: +65 50 31.00 (65.84194d)<br>Equinox: J2000 |                             |                          |                                   | V=18                         |        | Reference Frame: SIMBAD                 |                              |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |         |                                                                                     |                             |                          |                                   |                              |        |                                         |                              |       |
|               |                                                                                                   |         |                                                                                     |                             |                          |                                   |                              |        |                                         |                              |       |
| Exposures     | #                                                                                                 | Label   | Target                                                                              | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |
|               | 1                                                                                                 | F140W   | (21) ACO-665                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |
|               | 2                                                                                                 | F105W   | (21) ACO-665                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 1                |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |                              | [1]   |
|               | 3                                                                                                 | F105W   | (21) ACO-665                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,<br>0.6055  |        | 402.935899 Secs (402.936 Secs)<br>[==>] |                              | [1]   |
|               | 4                                                                                                 | F140W   | (21) ACO-665                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |
|               | 5                                                                                                 | F125W   | (21) ACO-665                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0                 |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |
|               | 6                                                                                                 | F160W   | (21) ACO-665                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 652.938154 Secs (652.938 Secs)<br>[==>] |                              | [1]   |
|               | 7                                                                                                 | F160W   | (21) ACO-665                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=13;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,<br>0.30275 |        | 602.937703 Secs (602.938 Secs)<br>[==>] |                              | [1]   |
|               | 8                                                                                                 | F125W   | (21) ACO-665                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |



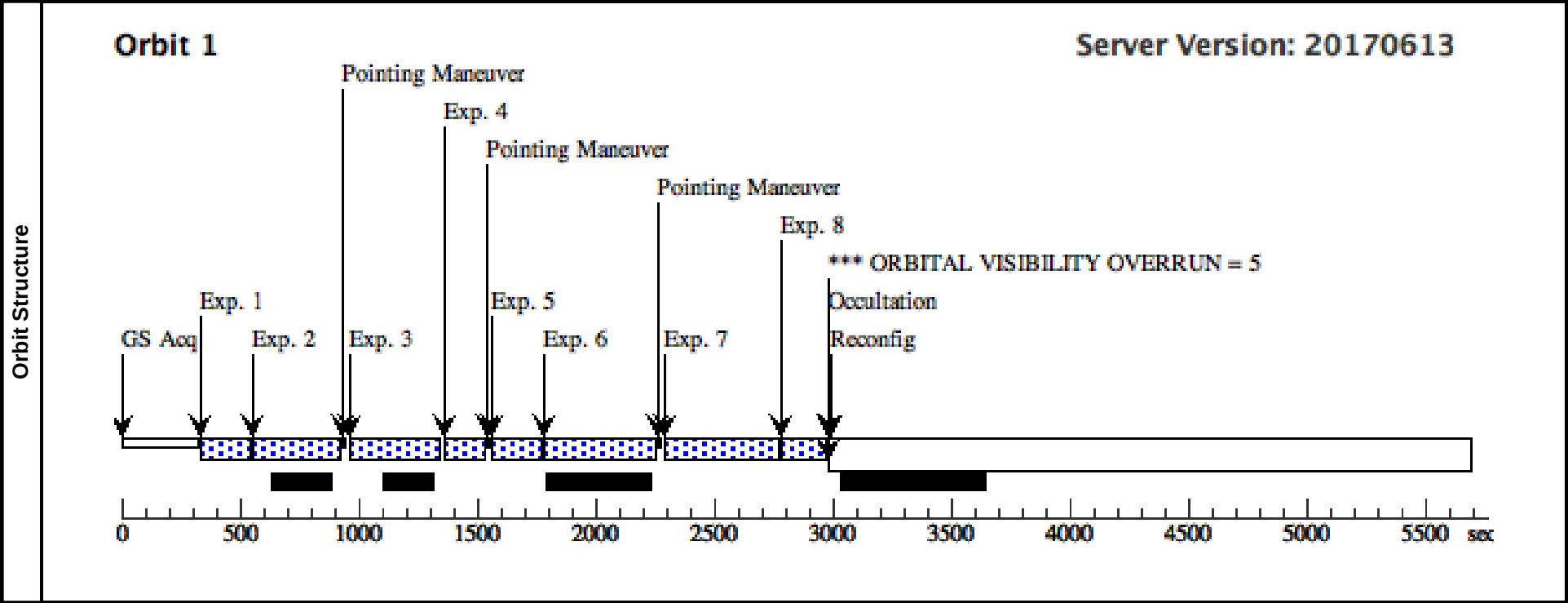
# Proposal 14096 - 22 MCS-J0553.4-3342 IR1 (Y2) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                    |                  |                                                                                     |                             |                          |                                   |                           |        |                                         |  |                              |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|-----------------------------|--------------------------|-----------------------------------|---------------------------|--------|-----------------------------------------|--|------------------------------|
| Visit                                                                                             | Proposal 14096, 22 MCS-J0553.4-3342 IR1 (Y2), completed                            |                  |                                                                                     |                             |                          |                                   |                           |        |                                         |  | Mon Aug 07 18:08:12 GMT 2017 |
|                                                                                                   | Diagnostic Status: Warning                                                         |                  |                                                                                     |                             |                          |                                   |                           |        |                                         |  |                              |
|                                                                                                   | Scientific Instruments: WFC3/IR                                                    |                  |                                                                                     |                             |                          |                                   |                           |        |                                         |  |                              |
|                                                                                                   | Special Requirements: SCHED 70%; ORIENT 334D TO 334 D                              |                  |                                                                                     |                             |                          |                                   |                           |        |                                         |  |                              |
| Diagnostics                                                                                       | (22 MCS-J0553.4-3342 IR1 (Y2)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |                  |                                                                                     |                             |                          |                                   |                           |        |                                         |  |                              |
|                                                                                                   |                                                                                    |                  |                                                                                     |                             |                          |                                   |                           |        |                                         |  |                              |
| Fixed Targets                                                                                     | #                                                                                  | Name             | Target Coordinates                                                                  |                             | Targ. Coord. Corrections |                                   | Fluxes                    |        | Miscellaneous                           |  |                              |
|                                                                                                   | (22)                                                                               | MCS-J0553.4-3342 | RA: 05 53 23.0872 (88.3461967d)<br>Dec: -33 42 29.91 (-33.70831d)<br>Equinox: J2000 |                             |                          |                                   | V=18                      |        | Reference Frame: SIMBAD                 |  |                              |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                    |                  |                                                                                     |                             |                          |                                   |                           |        |                                         |  |                              |
| Exposures                                                                                         | #                                                                                  | Label            | Target                                                                              | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.                      | Special Reqs.             | Groups | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |
|                                                                                                   | 1                                                                                  | F140W            | (22) MCS-J0553.4-3342                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                           |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|                                                                                                   | 2                                                                                  | F105W            | (22) MCS-J0553.4-3342                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1             |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |
|                                                                                                   | 3                                                                                  | F105W            | (22) MCS-J0553.4-3342                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275, 0.30275 |        | 302.934997 Secs (302.935 Secs)<br>[==>] |  | [1]                          |
|                                                                                                   | 4                                                                                  | F140W            | (22) MCS-J0553.4-3342                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3             |        | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |
|                                                                                                   | 5                                                                                  | F125W            | (22) MCS-J0553.4-3342                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.90825    |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|                                                                                                   | 6                                                                                  | F160W            | (22) MCS-J0553.4-3342                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5             |        | 502.936801 Secs (502.937 Secs)<br>[==>] |  | [1]                          |
|                                                                                                   | 7                                                                                  | F160W            | (22) MCS-J0553.4-3342                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425, 0.6055  |        | 552.937252 Secs (552.937 Secs)<br>[==>] |  | [1]                          |
|                                                                                                   | 8                                                                                  | F125W            | (22) MCS-J0553.4-3342                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7             |        | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |



# Proposal 14096 - 22 MCS-J0553.4-3342 IR2 (Y4) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                    |                  |                                                                                     |                             |                          |                                   |                          |        |                                         |  |                              |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|-----------------------------|--------------------------|-----------------------------------|--------------------------|--------|-----------------------------------------|--|------------------------------|
| Visit                                                                                             | Proposal 14096, 22 MCS-J0553.4-3342 IR2 (Y4), completed                            |                  |                                                                                     |                             |                          |                                   |                          |        |                                         |  | Mon Aug 07 18:08:12 GMT 2017 |
|                                                                                                   | Diagnostic Status: Warning                                                         |                  |                                                                                     |                             |                          |                                   |                          |        |                                         |  |                              |
|                                                                                                   | Scientific Instruments: WFC3/IR                                                    |                  |                                                                                     |                             |                          |                                   |                          |        |                                         |  |                              |
|                                                                                                   | Special Requirements: SCHED 100%; SAME ORIENT AS Y2; AFTER Y2 BY 37 D TO 60 D      |                  |                                                                                     |                             |                          |                                   |                          |        |                                         |  |                              |
| Diagnostics                                                                                       | (22 MCS-J0553.4-3342 IR2 (Y4)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |                  |                                                                                     |                             |                          |                                   |                          |        |                                         |  |                              |
| Fixed Targets                                                                                     | #                                                                                  | Name             | Target Coordinates                                                                  |                             | Targ. Coord. Corrections |                                   | Fluxes                   |        | Miscellaneous                           |  |                              |
|                                                                                                   | (22)                                                                               | MCS-J0553.4-3342 | RA: 05 53 23.0872 (88.3461967d)<br>Dec: -33 42 29.91 (-33.70831d)<br>Equinox: J2000 |                             |                          |                                   | V=18                     |        | Reference Frame: SIMBAD                 |  |                              |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                    |                  |                                                                                     |                             |                          |                                   |                          |        |                                         |  |                              |
| Exposures                                                                                         | #                                                                                  | Label            | Target                                                                              | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.                      | Special Reqs.            | Groups | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |
|                                                                                                   | 1                                                                                  | F140W            | (22) MCS-J0553.4-3342                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|                                                                                                   | 2                                                                                  | F105W            | (22) MCS-J0553.4-3342                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1            |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |
|                                                                                                   | 3                                                                                  | F105W            | (22) MCS-J0553.4-3342                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,0.6055  |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |
|                                                                                                   | 4                                                                                  | F140W            | (22) MCS-J0553.4-3342                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3            |        | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |
|                                                                                                   | 5                                                                                  | F125W            | (22) MCS-J0553.4-3342                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0             |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|                                                                                                   | 6                                                                                  | F160W            | (22) MCS-J0553.4-3342                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5            |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |  | [1]                          |
|                                                                                                   | 7                                                                                  | F160W            | (22) MCS-J0553.4-3342                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,0.30275 |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |  | [1]                          |
|                                                                                                   | 8                                                                                  | F125W            | (22) MCS-J0553.4-3342                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7            |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|                                                                                                   |                                                                                    |                  |                                                                                     |                             |                          |                                   |                          |        |                                         |  |                              |

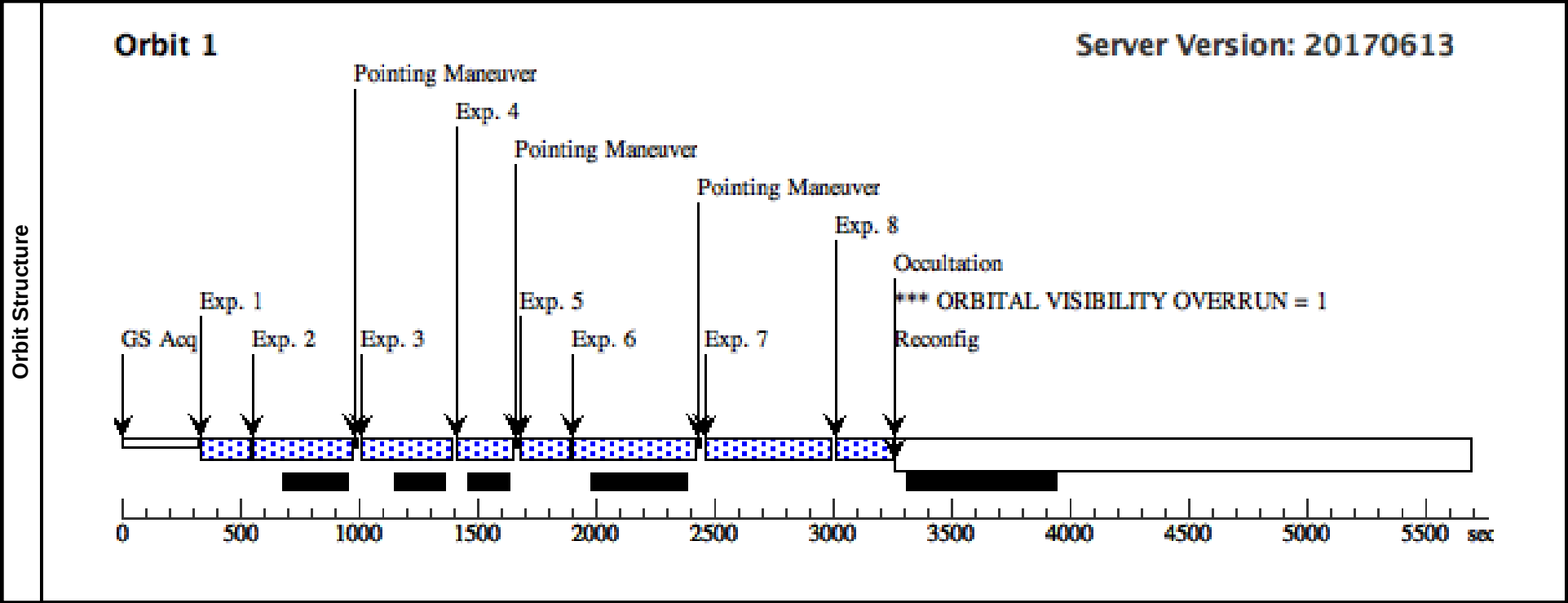


# Proposal 14096 - 23 SMACSJ0723.3-7327 ACS1 (Z1) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                                                                                                                                                                                        |                   |                                                                                      |                          |               |                         |                              |        |                                 |       |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------|--------------------------|---------------|-------------------------|------------------------------|--------|---------------------------------|-------|
| Visit                                                                                             | Proposal 14096, 23 SMACSJ0723.3-7327 ACS1 (Z1), completed                                                                                                                                                                                              |                   |                                                                                      |                          |               |                         | Mon Aug 07 18:08:12 GMT 2017 |        |                                 |       |
|                                                                                                   | Diagnostic Status: Warning                                                                                                                                                                                                                             |                   |                                                                                      |                          |               |                         |                              |        |                                 |       |
|                                                                                                   | Scientific Instruments: ACS/WFC                                                                                                                                                                                                                        |                   |                                                                                      |                          |               |                         |                              |        |                                 |       |
|                                                                                                   | Special Requirements: SCHED 70%; ORIENT 74D TO 74 D                                                                                                                                                                                                    |                   |                                                                                      |                          |               |                         |                              |        |                                 |       |
| Diagnostics                                                                                       | (23 SMACSJ0723.3-7327 ACS1 (Z1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                   |                   |                                                                                      |                          |               |                         |                              |        |                                 |       |
| Fixed Targets                                                                                     | #                                                                                                                                                                                                                                                      | Name              | Target Coordinates                                                                   | Targ. Coord. Corrections | Fluxes        | Miscellaneous           |                              |        |                                 |       |
|                                                                                                   | (23)                                                                                                                                                                                                                                                   | SMACSJ0723.3-7327 | RA: 07 23 19.4541 (110.8310587d)<br>Dec: -73 27 15.63 (-73.45434d)<br>Equinox: J2000 |                          | V=18          | Reference Frame: SIMBAD |                              |        |                                 |       |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                                                                                                                                                                                        |                   |                                                                                      |                          |               |                         |                              |        |                                 |       |
| Exposures                                                                                         | #                                                                                                                                                                                                                                                      | Label             | Target                                                                               | Config,Mode,Aperture     | Spectral Els. | Opt. Params.            | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|                                                                                                   | 1                                                                                                                                                                                                                                                      |                   | (23) SMACSJ0723.3-7327                                                               | ACS/WFC, ACCUM, WFCENTER | F435W         |                         |                              |        | 559 Secs (559 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                                        |                   |                                                                                      |                          |               |                         |                              |        | [==>]                           | [1]   |
|                                                                                                   | 2                                                                                                                                                                                                                                                      |                   | (23) SMACSJ0723.3-7327                                                               | ACS/WFC, ACCUM, WFCENTER | F435W         |                         | POS TARG 0.0741,2            |        | 558 Secs (558 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                                        |                   |                                                                                      |                          |               | .970                    |                              |        | [==>]                           | [1]   |
|                                                                                                   | 3                                                                                                                                                                                                                                                      |                   | (23) SMACSJ0723.3-7327                                                               | ACS/WFC, ACCUM, WFCENTER | F435W         |                         | POS TARG 0.1976,5            |        | 558 Secs (558 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                                        |                   |                                                                                      |                          |               | .9687                   |                              |        | [==>]                           | [1]   |
|                                                                                                   | 4                                                                                                                                                                                                                                                      |                   | (23) SMACSJ0723.3-7327                                                               | ACS/WFC, ACCUM, WFCENTER | F435W         |                         | POS TARG 0.2717,8            |        | 558 Secs (558 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                                        |                   |                                                                                      |                          | .9367         |                         |                              | [==>]  | [1]                             |       |
| Orbit Structure                                                                                   | <div>Orbit 1<div>Server Version: 20170613</div><div>GS Acq Exp. 1<div>Pointing Maneuver</div>Exp. 2<div>Pointing Maneuver</div>Exp. 3<div>Pointing Maneuver</div>Exp. 4<div>Occultation</div><div>*** ORBITAL VISIBILITY OVERRUN = 6</div></div></div> |                   |                                                                                      |                          |               |                         |                              |        |                                 |       |
|                                                                                                   | <div>05001000150020002500300035004000450050005500sec</div>                                                                                                                                                                                             |                   |                                                                                      |                          |               |                         |                              |        |                                 |       |

# Proposal 14096 - 23 SMACSJ0723.3-7327 IR1 (Z2) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                          |                   |                                                                                      |                             |               |                                   |                           |        |                                         |                         |                              |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|---------------------------|--------|-----------------------------------------|-------------------------|------------------------------|
| Visit                                                                                             | Proposal 14096, 23 SMACSJ0723.3-7327 IR1 (Z2), completed                                 |                   |                                                                                      |                             |               |                                   |                           |        |                                         |                         | Mon Aug 07 18:08:12 GMT 2017 |
|                                                                                                   | Diagnostic Status: Warning                                                               |                   |                                                                                      |                             |               |                                   |                           |        |                                         |                         |                              |
|                                                                                                   | Scientific Instruments: WFC3/IR                                                          |                   |                                                                                      |                             |               |                                   |                           |        |                                         |                         |                              |
|                                                                                                   | Special Requirements: SCHED 70%; SAME ORIENT AS Z1; AFTER Z1 BY 0.9 Orbits TO 1.1 Orbits |                   |                                                                                      |                             |               |                                   |                           |        |                                         |                         |                              |
| Diagnostics                                                                                       | (23 SMACSJ0723.3-7327 IR1 (Z2)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN      |                   |                                                                                      |                             |               |                                   |                           |        |                                         |                         |                              |
|                                                                                                   |                                                                                          |                   |                                                                                      |                             |               |                                   |                           |        |                                         |                         |                              |
| Fixed Targets                                                                                     | #                                                                                        | Name              | Target Coordinates                                                                   |                             |               | Targ. Coord. Corrections          |                           | Fluxes |                                         | Miscellaneous           |                              |
|                                                                                                   | (23)                                                                                     | SMACSJ0723.3-7327 | RA: 07 23 19.4541 (110.8310587d)<br>Dec: -73 27 15.63 (-73.45434d)<br>Equinox: J2000 |                             |               |                                   |                           | V=18   |                                         | Reference Frame: SIMBAD |                              |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                          |                   |                                                                                      |                             |               |                                   |                           |        |                                         |                         |                              |
| Exposures                                                                                         | #                                                                                        | Label             | Target                                                                               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.             | Groups | Exp. Time (Total)/[Actual Dur.]         |                         | Orbit                        |
|                                                                                                   | 1                                                                                        | F140W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                           |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 2                                                                                        | F105W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1             |        | 402.935899 Secs (402.936 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 3                                                                                        | F105W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275, 0.30275 |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 4                                                                                        | F140W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S25 | SAME POS AS 3             |        | 227.936926 Secs (227.937 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 5                                                                                        | F125W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.90825    |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 6                                                                                        | F160W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5             |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 7                                                                                        | F160W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425, 0.6055  |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 8                                                                                        | F125W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S25 | SAME POS AS 7             |        | 227.936926 Secs (227.937 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   |                                                                                          |                   |                                                                                      |                             |               |                                   |                           |        |                                         |                         |                              |

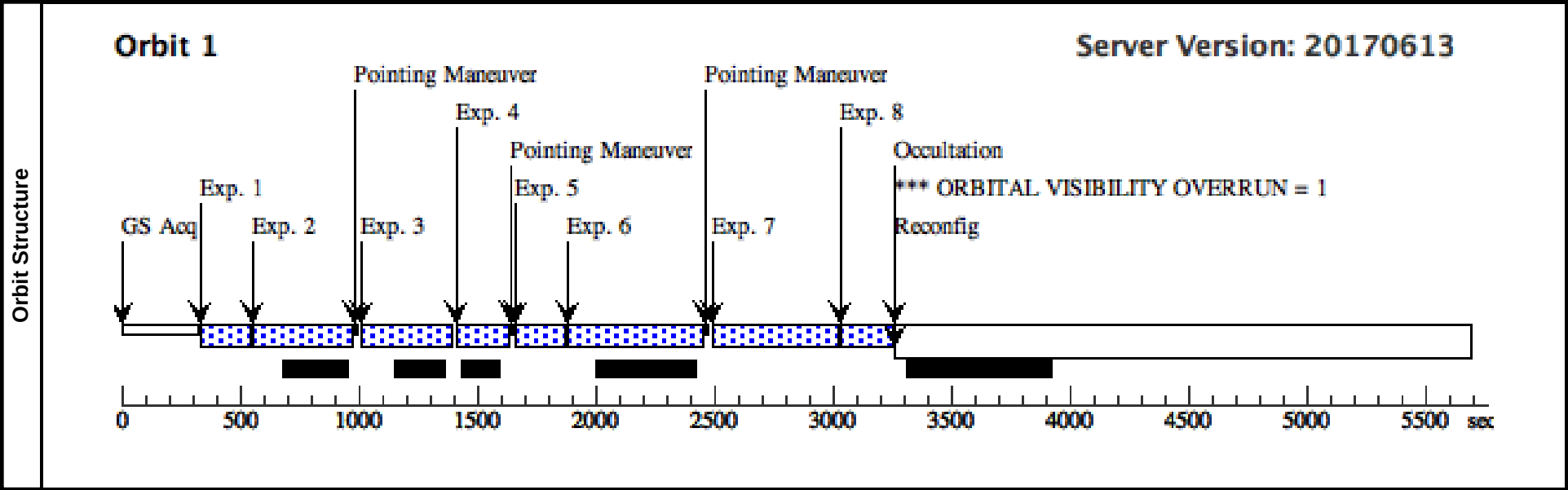


# Proposal 14096 - 23 SMACSJ0723.3-7327 ACS2 (Z3) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                      |                          |               |                              |                            |        |                                 |       |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------|--------------------------|---------------|------------------------------|----------------------------|--------|---------------------------------|-------|
| Visit                                                                                             | Proposal 14096, 23 SMACSJ0723.3-7327 ACS2 (Z3), completed                                                                                                                                                                                                                                                                                                               |                   |                                                                                      |                          |               | Mon Aug 07 18:08:12 GMT 2017 |                            |        |                                 |       |
|                                                                                                   | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                                              |                   |                                                                                      |                          |               |                              |                            |        |                                 |       |
|                                                                                                   | Scientific Instruments: ACS/WFC                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                      |                          |               |                              |                            |        |                                 |       |
|                                                                                                   | Special Requirements: SCHED 70%; SAME ORIENT AS Z1; AFTER Z1 BY 40 D TO 60 D                                                                                                                                                                                                                                                                                            |                   |                                                                                      |                          |               |                              |                            |        |                                 |       |
| Diagnostics                                                                                       | (23 SMACSJ0723.3-7327 ACS2 (Z3)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                                    |                   |                                                                                      |                          |               |                              |                            |        |                                 |       |
| Fixed Targets                                                                                     | #                                                                                                                                                                                                                                                                                                                                                                       | Name              | Target Coordinates                                                                   | Targ. Coord. Corrections | Fluxes        | Miscellaneous                |                            |        |                                 |       |
|                                                                                                   | (23)                                                                                                                                                                                                                                                                                                                                                                    | SMACSJ0723.3-7327 | RA: 07 23 19.4541 (110.8310587d)<br>Dec: -73 27 15.63 (-73.45434d)<br>Equinox: J2000 |                          | V=18          | Reference Frame: SIMBAD      |                            |        |                                 |       |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                      |                          |               |                              |                            |        |                                 |       |
| Exposures                                                                                         | #                                                                                                                                                                                                                                                                                                                                                                       | Label             | Target                                                                               | Config,Mode,Aperture     | Spectral Els. | Opt. Params.                 | Special Reqs.              | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|                                                                                                   | 1                                                                                                                                                                                                                                                                                                                                                                       |                   | (23) SMACSJ0723.3-7327                                                               | ACS/WFC, ACCUM, WFCENTER | F606W         |                              |                            |        | 545 Secs (545 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                      |                          |               |                              |                            |        | [==>]                           | [1]   |
|                                                                                                   | 2                                                                                                                                                                                                                                                                                                                                                                       |                   | (23) SMACSJ0723.3-7327                                                               | ACS/WFC, ACCUM, WFCENTER | F606W         |                              | POS TARG 0.0741,2<br>.9947 |        | 544 Secs (544 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                      |                          |               |                              |                            |        | [==>]                           | [1]   |
|                                                                                                   | 3                                                                                                                                                                                                                                                                                                                                                                       |                   | (23) SMACSJ0723.3-7327                                                               | ACS/WFC, ACCUM, WFCENTER | F814W         |                              | POS TARG 0.1976,5<br>.9687 |        | 545 Secs (545 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                      |                          |               |                              |                            |        | [==>]                           | [1]   |
|                                                                                                   | 4                                                                                                                                                                                                                                                                                                                                                                       |                   | (23) SMACSJ0723.3-7327                                                               | ACS/WFC, ACCUM, WFCENTER | F814W         |                              | POS TARG 0.2717,8<br>.914  |        | 544 Secs (544 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                      |                          |               |                              |                            | [==>]  | [1]                             |       |
| Orbit Structure                                                                                   | <div>Orbit 1<div>Server Version: 20170613</div><div><div>Pointing Maneuver</div><div>Pointing Maneuver</div><div>Pointing Maneuver</div><div>Occultation</div><div>*** ORBITAL VISIBILITY OVERRUN = 6</div><div>GS Acq</div><div>Exp. 1</div><div>Exp. 2</div><div>Exp. 3</div><div>Exp. 4</div><div>05001000150020002500300035004000450050005500 sec</div></div></div> |                   |                                                                                      |                          |               |                              |                            |        |                                 |       |

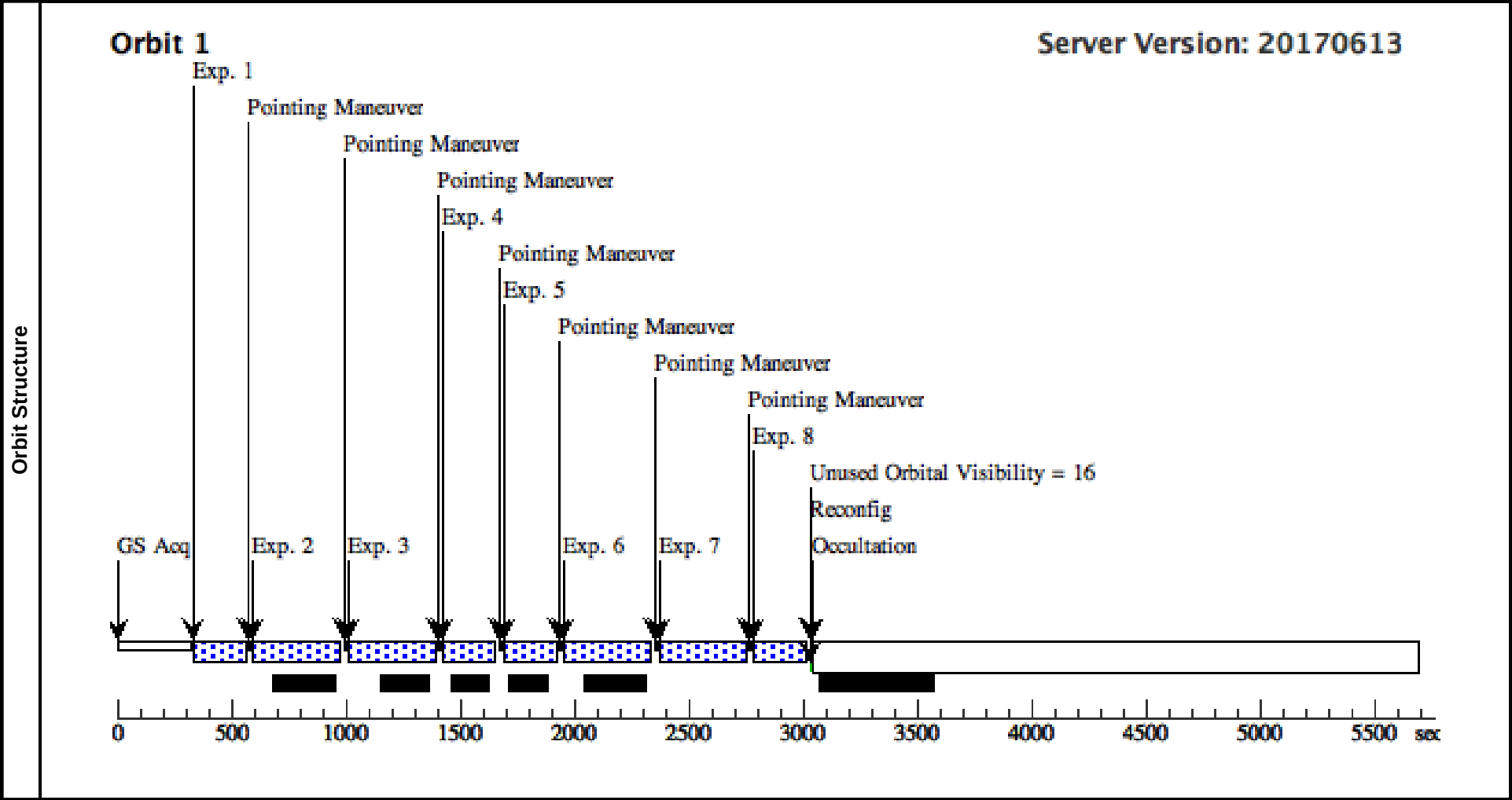
# Proposal 14096 - 23 SMACSJ0723.3-7327 IR2 (Z4) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                          |                   |                                                                                      |                             |               |                                |                          |        |                                         |                         |                              |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|--------------------------|--------|-----------------------------------------|-------------------------|------------------------------|
| Visit                                                                                             | Proposal 14096, 23 SMACSJ0723.3-7327 IR2 (Z4), completed                                 |                   |                                                                                      |                             |               |                                |                          |        |                                         |                         | Mon Aug 07 18:08:12 GMT 2017 |
|                                                                                                   | Diagnostic Status: Warning                                                               |                   |                                                                                      |                             |               |                                |                          |        |                                         |                         |                              |
|                                                                                                   | Scientific Instruments: WFC3/IR                                                          |                   |                                                                                      |                             |               |                                |                          |        |                                         |                         |                              |
|                                                                                                   | Special Requirements: SCHED 70%; SAME ORIENT AS Z1; AFTER Z3 BY 0.9 Orbits TO 1.1 Orbits |                   |                                                                                      |                             |               |                                |                          |        |                                         |                         |                              |
| Diagnos                                                                                           | (23 SMACSJ0723.3-7327 IR2 (Z4)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN      |                   |                                                                                      |                             |               |                                |                          |        |                                         |                         |                              |
| Fixed Targets                                                                                     | #                                                                                        | Name              | Target Coordinates                                                                   |                             |               | Targ. Coord. Corrections       |                          | Fluxes |                                         | Miscellaneous           |                              |
|                                                                                                   | (23)                                                                                     | SMACSJ0723.3-7327 | RA: 07 23 19.4541 (110.8310587d)<br>Dec: -73 27 15.63 (-73.45434d)<br>Equinox: J2000 |                             |               |                                |                          | V=18   |                                         | Reference Frame: SIMBAD |                              |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                          |                   |                                                                                      |                             |               |                                |                          |        |                                         |                         |                              |
| Exposures                                                                                         | #                                                                                        | Label             | Target                                                                               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.            | Groups | Exp. Time (Total)/[Actual Dur.]         |                         | Orbit                        |
|                                                                                                   | 1                                                                                        | F140W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 7.317,0.90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 2                                                                                        | F105W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=9;<br>SAMP-SEQ=SPAR S50  | SAME POS AS 1            |        | 402.935899 Secs (402.936 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 3                                                                                        | F105W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0.47425,0.6055  |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 4                                                                                        | F140W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 3            |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 5                                                                                        | F125W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0             |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 6                                                                                        | F160W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=12;<br>SAMP-SEQ=SPAR S50 | SAME POS AS 5            |        | 552.937252 Secs (552.937 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 7                                                                                        | F160W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | POS TARG 6.48275,0.30275 |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |
|                                                                                                   | 8                                                                                        | F125W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 7            |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                         | [1]                          |



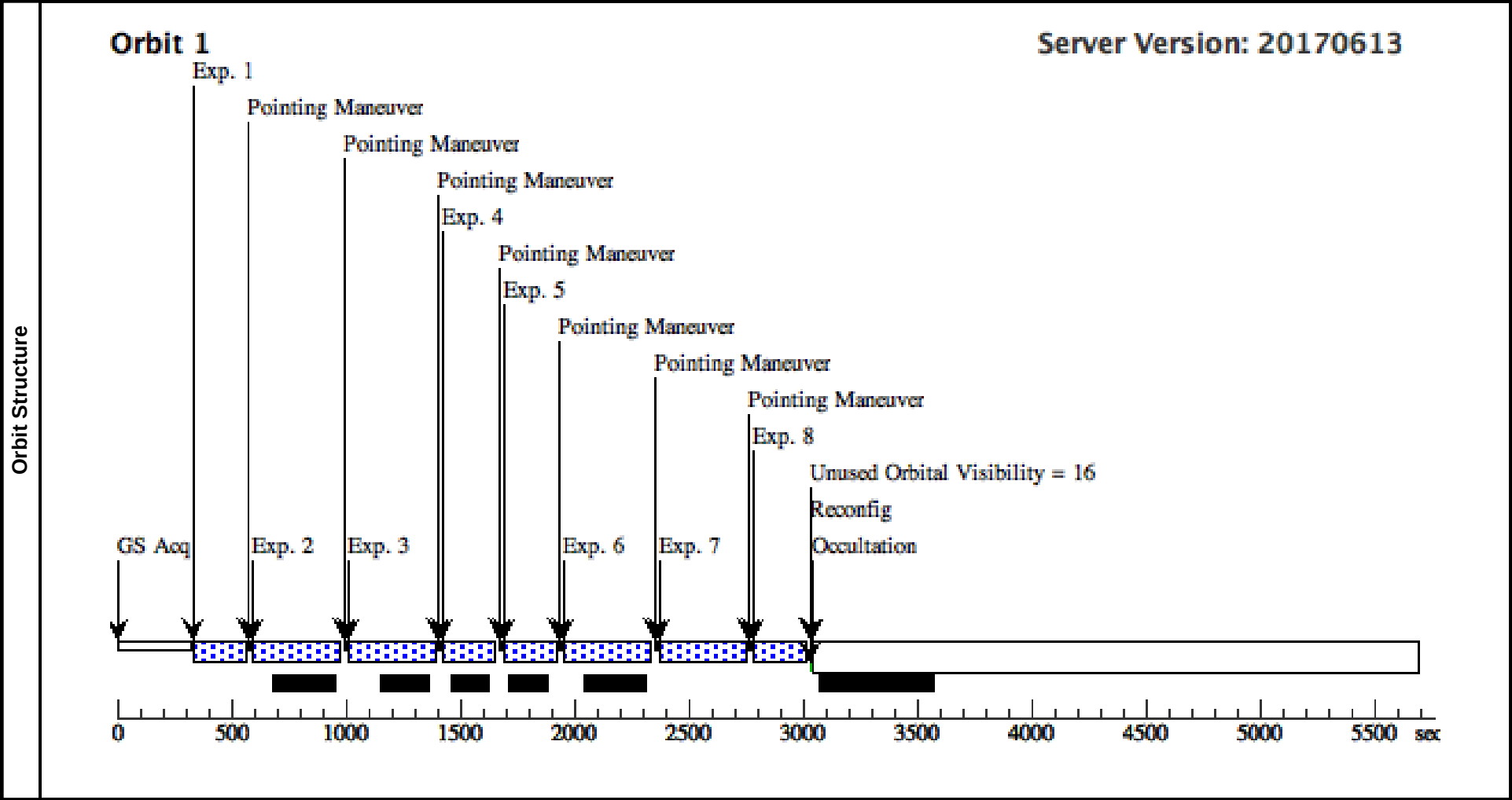
# Proposal 14096 - 23 SMACSJ0723.3-7327 SN1 (Z5) - RELICS: Reionization Lensing Cluster Survey

|                                |                                                                                                   |                   |                                                                                      |                             |               |                                  |                            |        |                                         |                         |                              |
|--------------------------------|---------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------|-----------------------------|---------------|----------------------------------|----------------------------|--------|-----------------------------------------|-------------------------|------------------------------|
| Visit                          | Proposal 14096, 23 SMACSJ0723.3-7327 SN1 (Z5), completed                                          |                   |                                                                                      |                             |               |                                  |                            |        |                                         |                         | Mon Aug 07 18:08:12 GMT 2017 |
|                                | Diagnostic Status: No Diagnostics                                                                 |                   |                                                                                      |                             |               |                                  |                            |        |                                         |                         |                              |
|                                | Scientific Instruments: WFC3/IR                                                                   |                   |                                                                                      |                             |               |                                  |                            |        |                                         |                         |                              |
|                                | Special Requirements: SCHED 100%; BEFORE 09-MAY-2017:00:00:00                                     |                   |                                                                                      |                             |               |                                  |                            |        |                                         |                         |                              |
| Comments: SN follow-up imaging |                                                                                                   |                   |                                                                                      |                             |               |                                  |                            |        |                                         |                         |                              |
| Fixed Targets                  | #                                                                                                 | Name              | Target Coordinates                                                                   |                             |               | Targ. Coord. Corrections         |                            | Fluxes |                                         | Miscellaneous           |                              |
|                                | (23)                                                                                              | SMACSJ0723.3-7327 | RA: 07 23 19.4541 (110.8310587d)<br>Dec: -73 27 15.63 (-73.45434d)<br>Equinox: J2000 |                             |               |                                  |                            | V=18   |                                         | Reference Frame: SIMBAD |                              |
|                                | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                   |                                                                                      |                             |               |                                  |                            |        |                                         |                         |                              |
| Exposures                      | #                                                                                                 | Label             | Target                                                                               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                     | Special Reqs.              | Groups | Exp. Time (Total)/[Actual Dur.]         |                         | Orbit                        |
|                                | 1                                                                                                 | F140W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -0.273,-<br>0.302 |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                         | [1]                          |
|                                | 2                                                                                                 | F140W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG -0.540,0<br>.243  |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|                                | 3                                                                                                 | F105W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG -0.340,-<br>0.301 |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|                                | 4                                                                                                 | F105W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -0.608,0<br>.244  |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                         | [1]                          |
|                                | 5                                                                                                 | F105W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0.273,0.<br>302   |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                         | [1]                          |
|                                | 6                                                                                                 | F105W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.540,-0<br>.243  |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|                                | 7                                                                                                 | F140W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.340,0.<br>301   |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|                                | 8                                                                                                 | F140W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0.608,-0<br>.244  |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                         | [1]                          |



# Proposal 14096 - 23 SMACSJ0723.3-7327 SN2 (Z6) - RELICS: Reionization Lensing Cluster Survey

|                                |                                                                                                   |                   |                                                                                      |                             |               |                                  |                            |        |                                         |                         |                              |
|--------------------------------|---------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------|-----------------------------|---------------|----------------------------------|----------------------------|--------|-----------------------------------------|-------------------------|------------------------------|
| Visit                          | Proposal 14096, 23 SMACSJ0723.3-7327 SN2 (Z6), completed                                          |                   |                                                                                      |                             |               |                                  |                            |        |                                         |                         | Mon Aug 07 18:08:12 GMT 2017 |
|                                | Diagnostic Status: No Diagnostics                                                                 |                   |                                                                                      |                             |               |                                  |                            |        |                                         |                         |                              |
|                                | Scientific Instruments: WFC3/IR                                                                   |                   |                                                                                      |                             |               |                                  |                            |        |                                         |                         |                              |
|                                | Special Requirements: SCHED 100%; AFTER Z5 BY 6 D TO 21 D; BEFORE 17-MAY-2017:00:00:00            |                   |                                                                                      |                             |               |                                  |                            |        |                                         |                         |                              |
| Comments: SN follow-up imaging |                                                                                                   |                   |                                                                                      |                             |               |                                  |                            |        |                                         |                         |                              |
| Fixed Targets                  | #                                                                                                 | Name              | Target Coordinates                                                                   |                             |               | Targ. Coord. Corrections         |                            | Fluxes |                                         | Miscellaneous           |                              |
|                                | (23)                                                                                              | SMACSJ0723.3-7327 | RA: 07 23 19.4541 (110.8310587d)<br>Dec: -73 27 15.63 (-73.45434d)<br>Equinox: J2000 |                             |               |                                  |                            | V=18   |                                         | Reference Frame: SIMBAD |                              |
|                                | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                   |                                                                                      |                             |               |                                  |                            |        |                                         |                         |                              |
| Exposures                      | #                                                                                                 | Label             | Target                                                                               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                     | Special Reqs.              | Groups | Exp. Time (Total)/[Actual Dur.]         |                         | Orbit                        |
|                                | 1                                                                                                 | F140W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -0.273,-<br>0.302 |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                         | [1]                          |
|                                | 2                                                                                                 | F140W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG -0.540,0<br>.243  |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|                                | 3                                                                                                 | F105W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG -0.340,-<br>0.301 |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|                                | 4                                                                                                 | F105W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -0.608,0<br>.244  |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                         | [1]                          |
|                                | 5                                                                                                 | F105W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0.273,0.<br>302   |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                         | [1]                          |
|                                | 6                                                                                                 | F105W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.540,-0<br>.243  |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|                                | 7                                                                                                 | F140W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.340,0.<br>301   |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|                                | 8                                                                                                 | F140W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0.608,-0<br>.244  |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                         | [1]                          |

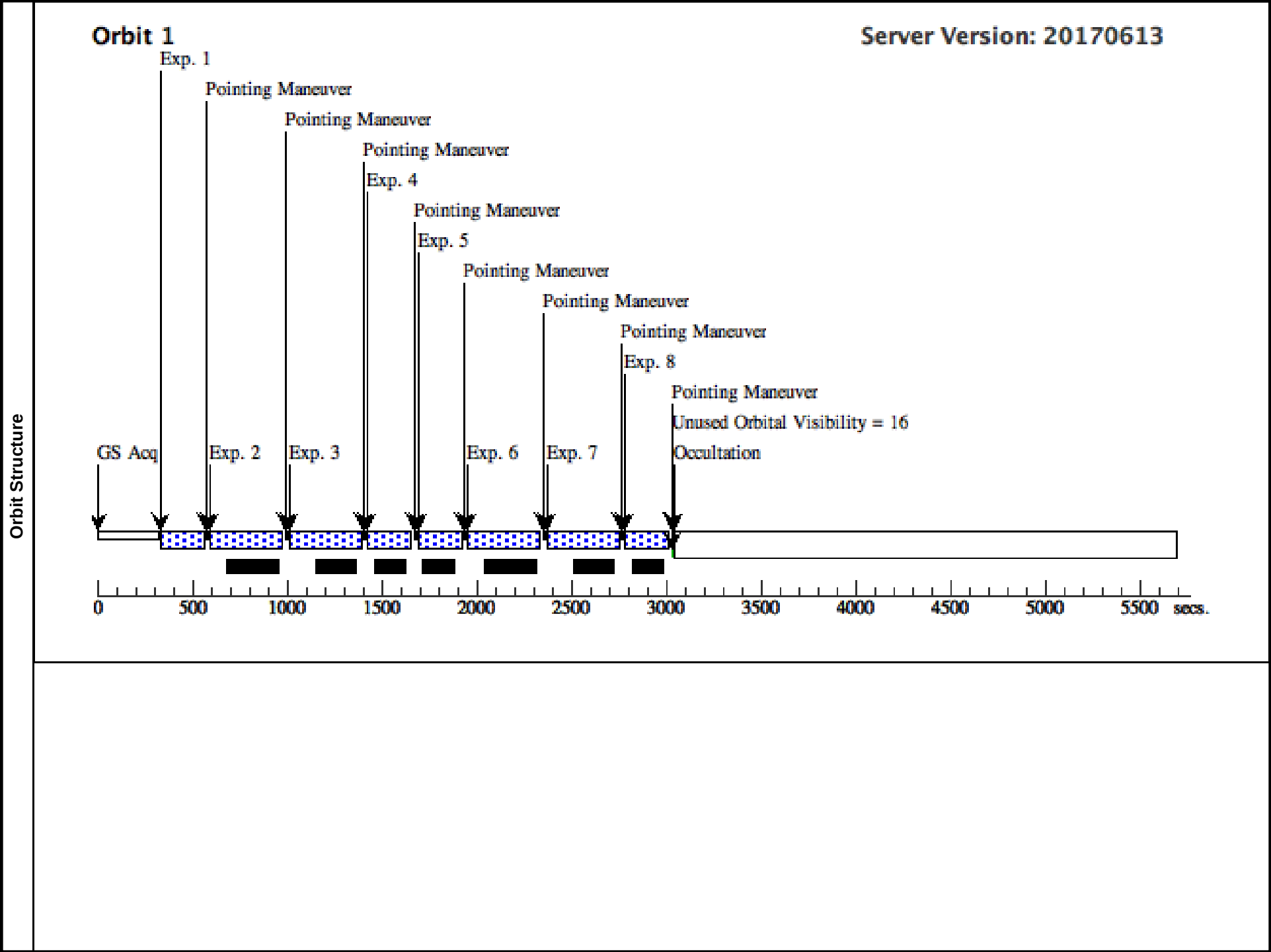


# Proposal 14096 - 23 SMACSJ0723.3-7327 SN3 (Z7) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                          |                                                                                                                                                                                                                |                   |                                                                                      |                          |        |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------|--------------------------|--------|
| Visit                                                                                                    | <b>Proposal 14096, 23 SMACSJ0723.3-7327 SN3 (Z7), completed</b> <span>Mon Aug 07 18:08:12 GMT 2017</span>                                                                                                      |                   |                                                                                      |                          |        |
|                                                                                                          | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 100%; AFTER Z6 BY 6 D TO 21 D; BEFORE 24-MAY-2017:00:00:00<br><i>Comments: SN follow-up imaging</i> |                   |                                                                                      |                          |        |
| Fixed Targets                                                                                            | #                                                                                                                                                                                                              | Name              | Target Coordinates                                                                   | Targ. Coord. Corrections | Fluxes |
|                                                                                                          | (23)                                                                                                                                                                                                           | SMACSJ0723.3-7327 | RA: 07 23 19.4541 (110.8310587d)<br>Dec: -73 27 15.63 (-73.45434d)<br>Equinox: J2000 |                          | V=18   |
| <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> |                                                                                                                                                                                                                |                   |                                                                                      |                          |        |

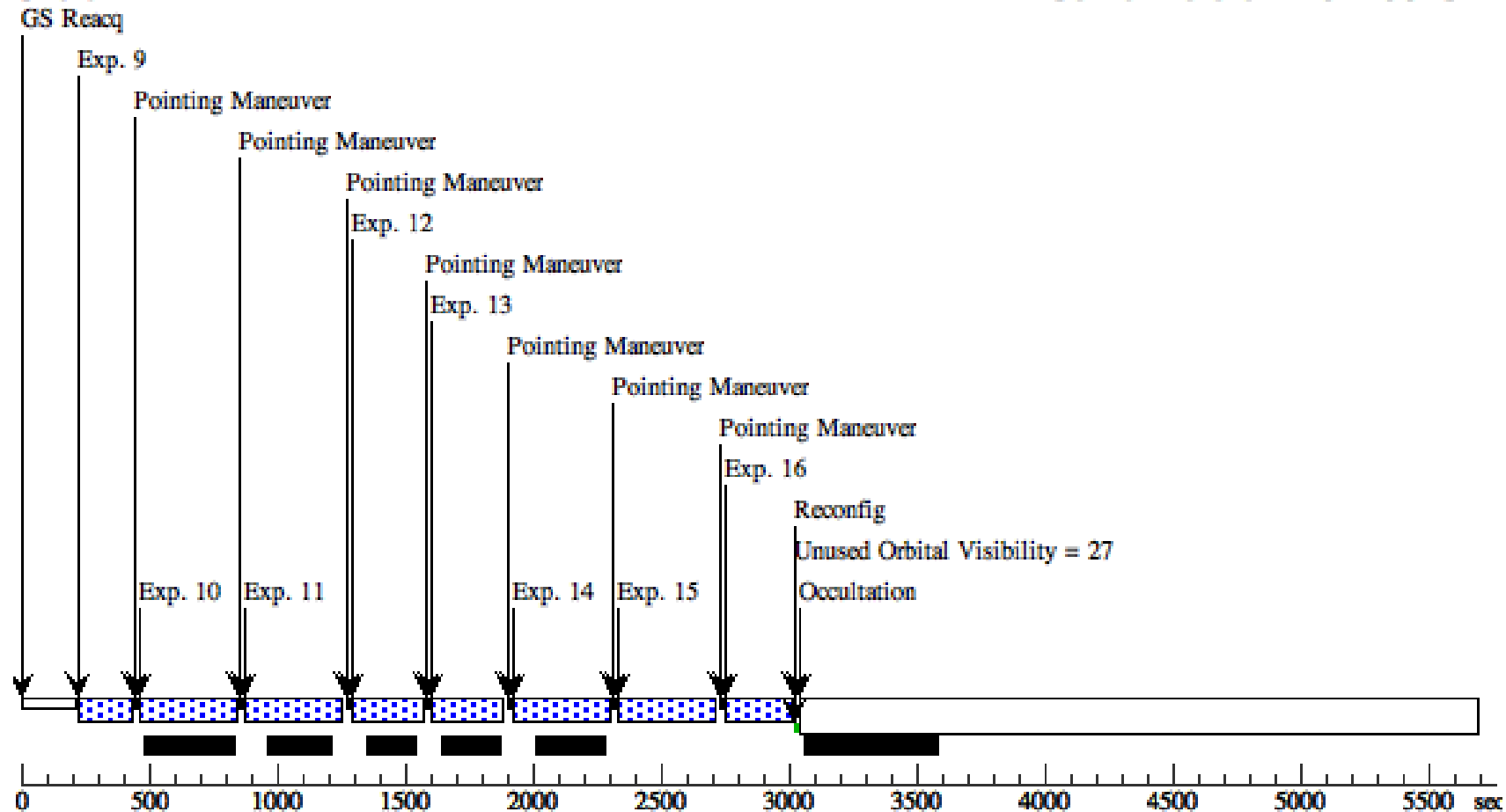
# Proposal 14096 - 23 SMACSJ0723.3-7327 SN3 (Z7) - RELICS: Reionization Lensing Cluster Survey

| Exposures | #  | Label | Target                 | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.              | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|----|-------|------------------------|-----------------------------|---------------|-----------------------------------|----------------------------|--------|-----------------------------------------|-------|
|           | 1  | F140W | (23) SMACSJ0723.3-7327 | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -0.273,-<br>0.302 |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|           | 2  | F140W | (23) SMACSJ0723.3-7327 | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG -0.540,0<br>.243  |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|           | 3  | F105W | (23) SMACSJ0723.3-7327 | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG -0.340,-<br>0.301 |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|           | 4  | F105W | (23) SMACSJ0723.3-7327 | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -0.608,0<br>.244  |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|           | 5  | F105W | (23) SMACSJ0723.3-7327 | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0.273,0.<br>302   |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|           | 6  | F105W | (23) SMACSJ0723.3-7327 | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.540,-<br>0.243  |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|           | 7  | F140W | (23) SMACSJ0723.3-7327 | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.340,0.<br>301   |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|           | 8  | F140W | (23) SMACSJ0723.3-7327 | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0.608,-<br>0.244  |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|           | 9  | F140W | (23) SMACSJ0723.3-7327 | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -0.273,-<br>0.302 |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [2]   |
|           | 10 | F140W | (23) SMACSJ0723.3-7327 | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG -0.540,0<br>.243  |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [2]   |
|           | 11 | F105W | (23) SMACSJ0723.3-7327 | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG -0.340,-<br>0.301 |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [2]   |
|           | 12 | F105W | (23) SMACSJ0723.3-7327 | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG -0.608,0<br>.244  |        | 252.937441 Secs (252.937 Secs)<br>[==>] | [2]   |
|           | 13 | F105W | (23) SMACSJ0723.3-7327 | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0.273,0.<br>302   |        | 252.937441 Secs (252.937 Secs)<br>[==>] | [2]   |
|           | 14 | F105W | (23) SMACSJ0723.3-7327 | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.540,-<br>0.243  |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [2]   |
|           | 15 | F140W | (23) SMACSJ0723.3-7327 | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.340,0.<br>301   |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [2]   |
|           | 16 | F140W | (23) SMACSJ0723.3-7327 | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0.608,-<br>0.244  |        | 227.936926 Secs (227.937 Secs)<br>[==>] | [2]   |



## Orbit 2

Server Version: 20170613

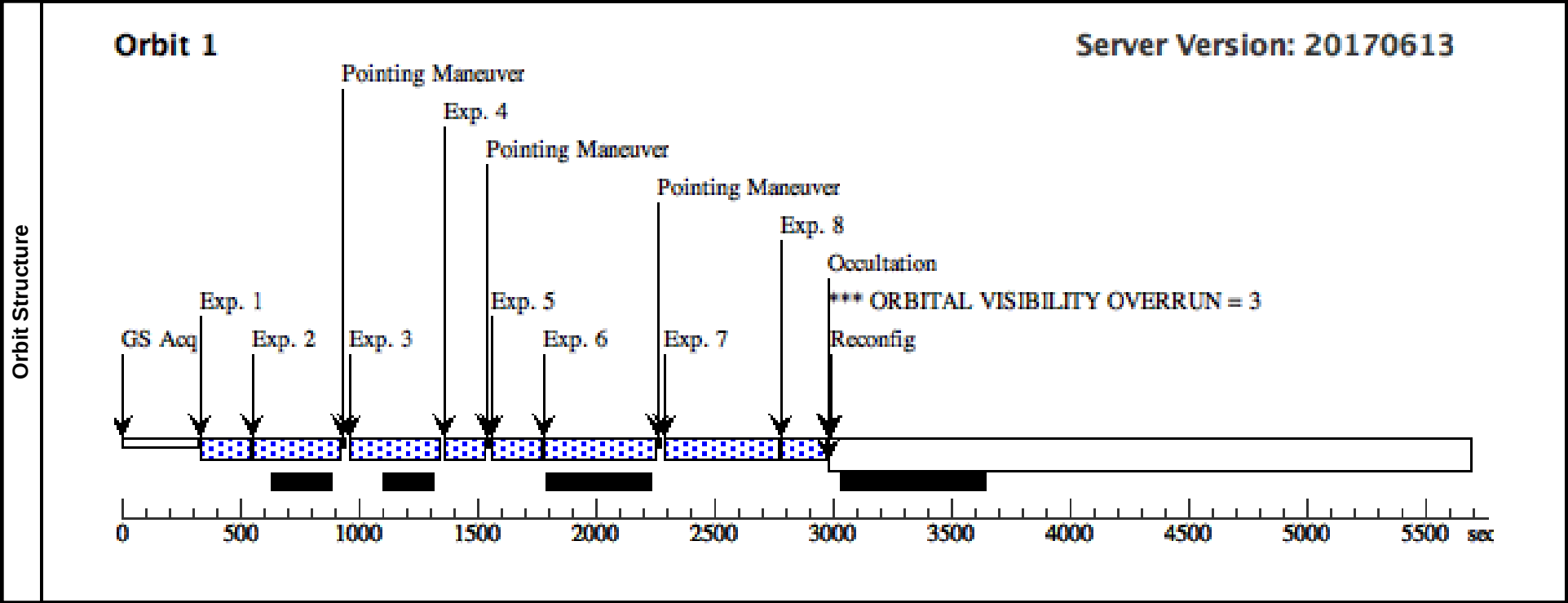


# Proposal 14096 - 24 ZWCL-0947+1723 ACS1 (01) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                              |                |                                                                                     |                          |               |                              |                             |        |                                 |       |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|--------------------------|---------------|------------------------------|-----------------------------|--------|---------------------------------|-------|
| Visit                                                                                             | Proposal 14096, 24 ZWCL-0947+1723 ACS1 (01), completed                                                                                                                                                                                                                                                                                                       |                |                                                                                     |                          |               | Mon Aug 07 18:08:12 GMT 2017 |                             |        |                                 |       |
|                                                                                                   | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                                   |                |                                                                                     |                          |               |                              |                             |        |                                 |       |
|                                                                                                   | Scientific Instruments: ACS/WFC                                                                                                                                                                                                                                                                                                                              |                |                                                                                     |                          |               |                              |                             |        |                                 |       |
|                                                                                                   | Special Requirements: SCHED 100%; ORIENT 297D TO 297 D                                                                                                                                                                                                                                                                                                       |                |                                                                                     |                          |               |                              |                             |        |                                 |       |
| Diagnostics                                                                                       | (24 ZWCL-0947+1723 ACS1 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                            |                |                                                                                     |                          |               |                              |                             |        |                                 |       |
| Fixed Targets                                                                                     | #                                                                                                                                                                                                                                                                                                                                                            | Name           | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes        | Miscellaneous                |                             |        |                                 |       |
|                                                                                                   | (24)                                                                                                                                                                                                                                                                                                                                                         | ZWCL-0947+1723 | RA: 09 49 50.8870 (147.4620292d)<br>Dec: +17 07 15.27 (17.12091d)<br>Equinox: J2000 |                          | V=18          | Reference Frame: SIMBAD      |                             |        |                                 |       |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                                                                                                                                                                                                                                                                                              |                |                                                                                     |                          |               |                              |                             |        |                                 |       |
| Exposures                                                                                         | #                                                                                                                                                                                                                                                                                                                                                            | Label          | Target                                                                              | Config,Mode,Aperture     | Spectral Els. | Opt. Params.                 | Special Reqs.               | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|                                                                                                   | 1                                                                                                                                                                                                                                                                                                                                                            |                | (24) ZWCL-0947+1723                                                                 | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | GS ACQ SCENARI<br>O BASE1B3 |        | 489 Secs (489 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                              |                |                                                                                     |                          |               |                              |                             |        | [==>]                           | [1]   |
|                                                                                                   | 2                                                                                                                                                                                                                                                                                                                                                            |                | (24) ZWCL-0947+1723                                                                 | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | POS TARG 0.0741,2<br>.970   |        | 488 Secs (488 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                              |                |                                                                                     |                          |               |                              |                             |        | [==>]                           | [1]   |
|                                                                                                   | 3                                                                                                                                                                                                                                                                                                                                                            |                | (24) ZWCL-0947+1723                                                                 | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | POS TARG 0.1976,5<br>.9687  |        | 488 Secs (488 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                              |                |                                                                                     |                          |               |                              |                             |        | [==>]                           | [1]   |
|                                                                                                   | 4                                                                                                                                                                                                                                                                                                                                                            |                | (24) ZWCL-0947+1723                                                                 | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | POS TARG 0.2717,8<br>.9367  |        | 488 Secs (488 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                              |                |                                                                                     |                          |               |                              |                             | [==>]  | [1]                             |       |
| Orbit Structure                                                                                   | <div><div>Orbit 1</div><div>Server Version: 20170613</div><p>The diagram shows a timeline from 0 to 5500 seconds. Exposure periods (Exp. 1 to Exp. 4) are marked with green boxes and arrows. Pointing maneuvers are indicated by vertical arrows. An occultation is marked at the end. A text box indicates '*** ORBITAL VISIBILITY OVERRUN = 3'.</p></div> |                |                                                                                     |                          |               |                              |                             |        |                                 |       |

# Proposal 14096 - 24 ZWCL-0947+1723 IR1 (02) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                |                                                                                     |                             |               |                                   |                              |                         |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------|-------------------------|-----------------------------------------|-------|
| Visit         | Proposal 14096, 24 ZWCL-0947+1723 IR1 (02), completed                                             |                |                                                                                     |                             |               |                                   |                              |                         | Mon Aug 07 18:08:12 GMT 2017            |       |
|               | Diagnostic Status: Warning                                                                        |                |                                                                                     |                             |               |                                   |                              |                         |                                         |       |
|               | Scientific Instruments: WFC3/IR                                                                   |                |                                                                                     |                             |               |                                   |                              |                         |                                         |       |
|               | Special Requirements: SCHED 100%; SAME ORIENT AS 01; AFTER 01 BY 1 Orbits TO 1.1 Orbits           |                |                                                                                     |                             |               |                                   |                              |                         |                                         |       |
| Diagnostics   | (24 ZWCL-0947+1723 IR1 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                  |                |                                                                                     |                             |               |                                   |                              |                         |                                         |       |
| Fixed Targets | #                                                                                                 | Name           | Target Coordinates                                                                  | Targ. Coord. Corrections    |               | Fluxes                            |                              | Miscellaneous           |                                         |       |
|               | (24)                                                                                              | ZWCL-0947+1723 | RA: 09 49 50.8870 (147.4620292d)<br>Dec: +17 07 15.27 (17.12091d)<br>Equinox: J2000 |                             |               | V=18                              |                              | Reference Frame: SIMBAD |                                         |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                |                                                                                     |                             |               |                                   |                              |                         |                                         |       |
|               |                                                                                                   |                |                                                                                     |                             |               |                                   |                              |                         |                                         |       |
| Exposures     | #                                                                                                 | Label          | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                | Groups                  | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                 | F140W          | (24) ZWCL-0947+1723                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | GS ACQ SCENARI<br>O BASE1B3  |                         | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                 | F105W          | (24) ZWCL-0947+1723                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |                         | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                 | F105W          | (24) ZWCL-0947+1723                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |                         | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                 | F140W          | (24) ZWCL-0947+1723                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |                         | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                 | F125W          | (24) ZWCL-0947+1723                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |                         | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                 | F160W          | (24) ZWCL-0947+1723                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |                         | 452.93635 Secs (452.936 Secs)<br>[==>]  | [1]   |
|               | 7                                                                                                 | F160W          | (24) ZWCL-0947+1723                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |                         | 452.93635 Secs (452.936 Secs)<br>[==>]  | [1]   |
|               | 8                                                                                                 | F125W          | (24) ZWCL-0947+1723                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |                         | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               |                                                                                                   |                |                                                                                     |                             |               |                                   |                              |                         |                                         |       |

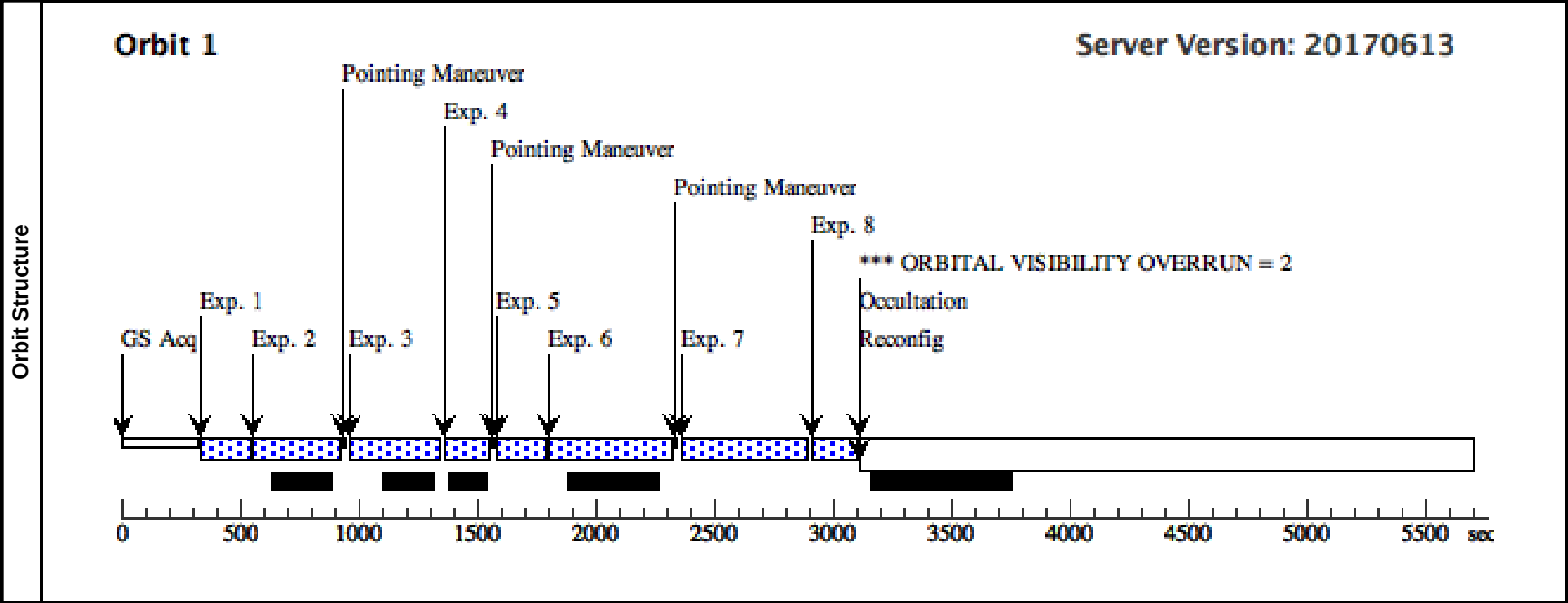


# Proposal 14096 - 24 ZWCL-0947+1723 ACS2 (03) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                   |                |                                                                                     |                          |               |                              |                             |        |                                 |       |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|--------------------------|---------------|------------------------------|-----------------------------|--------|---------------------------------|-------|
| Visit                                                                                             | Proposal 14096, 24 ZWCL-0947+1723 ACS2 (03), completed                            |                |                                                                                     |                          |               | Mon Aug 07 18:08:12 GMT 2017 |                             |        |                                 |       |
|                                                                                                   | Diagnostic Status: Warning                                                        |                |                                                                                     |                          |               |                              |                             |        |                                 |       |
|                                                                                                   | Scientific Instruments: ACS/WFC                                                   |                |                                                                                     |                          |               |                              |                             |        |                                 |       |
|                                                                                                   | Special Requirements: SCHED 60%; SAME ORIENT AS 01; AFTER 01 BY 40 D TO 60 D      |                |                                                                                     |                          |               |                              |                             |        |                                 |       |
| Diagnostics                                                                                       | (24 ZWCL-0947+1723 ACS2 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |                |                                                                                     |                          |               |                              |                             |        |                                 |       |
| Fixed Targets                                                                                     | #                                                                                 | Name           | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes        | Miscellaneous                |                             |        |                                 |       |
|                                                                                                   | (24)                                                                              | ZWCL-0947+1723 | RA: 09 49 50.8870 (147.4620292d)<br>Dec: +17 07 15.27 (17.12091d)<br>Equinox: J2000 |                          | V=18          | Reference Frame: SIMBAD      |                             |        |                                 |       |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                   |                |                                                                                     |                          |               |                              |                             |        |                                 |       |
| Exposures                                                                                         | #                                                                                 | Label          | Target                                                                              | Config,Mode,Aperture     | Spectral Els. | Opt. Params.                 | Special Reqs.               | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|                                                                                                   | 1                                                                                 |                | (24) ZWCL-0947+1723                                                                 | ACS/WFC, ACCUM, WFCENTER | F606W         |                              | GS ACQ SCENARI<br>O BASE1B3 |        | 507 Secs (507 Secs)             |       |
|                                                                                                   |                                                                                   |                |                                                                                     |                          |               |                              |                             |        | [==>]                           | [1]   |
|                                                                                                   | 2                                                                                 |                | (24) ZWCL-0947+1723                                                                 | ACS/WFC, ACCUM, WFCENTER | F606W         |                              | POS TARG 0.0741,2<br>.9947  |        | 506 Secs (506 Secs)             |       |
|                                                                                                   |                                                                                   |                |                                                                                     |                          |               |                              |                             |        | [==>]                           | [1]   |
|                                                                                                   | 3                                                                                 |                | (24) ZWCL-0947+1723                                                                 | ACS/WFC, ACCUM, WFCENTER | F814W         |                              | POS TARG 0.1976,5<br>.9687  |        | 507 Secs (507 Secs)             |       |
|                                                                                                   |                                                                                   |                |                                                                                     |                          |               |                              |                             |        | [==>]                           | [1]   |
|                                                                                                   | 4                                                                                 |                | (24) ZWCL-0947+1723                                                                 | ACS/WFC, ACCUM, WFCENTER | F814W         |                              | POS TARG 0.2717,8<br>.914   |        | 506 Secs (506 Secs)             |       |
|                                                                                                   |                                                                                   |                |                                                                                     |                          |               |                              |                             | [==>]  | [1]                             |       |
| Orbit Structure                                                                                   | <div>Orbit 1<div>Server Version: 20170613</div></div>                             |                |                                                                                     |                          |               |                              |                             |        |                                 |       |

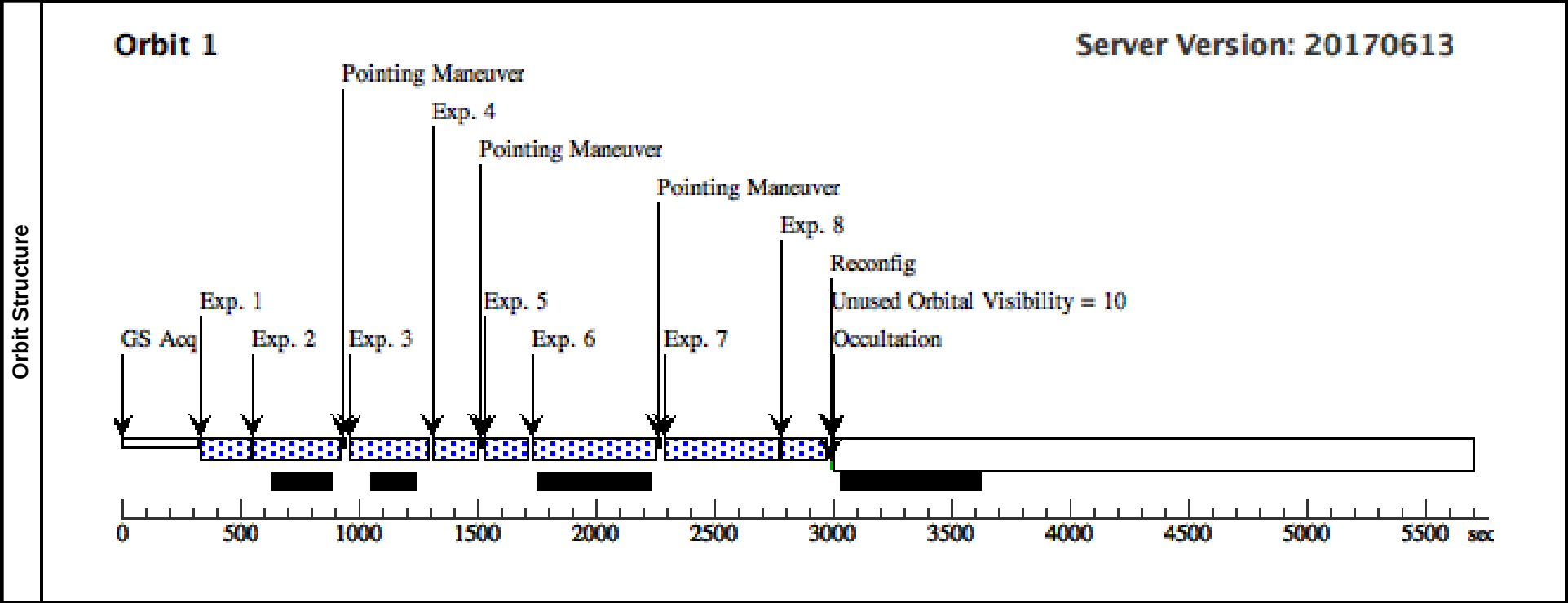
# Proposal 14096 - 24 ZWCL-0947+1723 IR2 (04) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                |                                                                                     |                             |               |                                |                                                    |                         |                                 |       |       |
|---------------|---------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|----------------------------------------------------|-------------------------|---------------------------------|-------|-------|
| Visit         | Proposal 14096, 24 ZWCL-0947+1723 IR2 (04), completed                                             |                |                                                                                     |                             |               |                                |                                                    |                         | Mon Aug 07 18:08:12 GMT 2017    |       |       |
|               | Diagnostic Status: Warning                                                                        |                |                                                                                     |                             |               |                                |                                                    |                         |                                 |       |       |
|               | Scientific Instruments: WFC3/IR                                                                   |                |                                                                                     |                             |               |                                |                                                    |                         |                                 |       |       |
|               | Special Requirements: SCHED 60%; SAME ORIENT AS 01; AFTER 03 BY 1 Orbits TO 1.1 Orbits            |                |                                                                                     |                             |               |                                |                                                    |                         |                                 |       |       |
| Diagnos       | (24 ZWCL-0947+1723 IR2 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                  |                |                                                                                     |                             |               |                                |                                                    |                         |                                 |       |       |
| Fixed Targets | #                                                                                                 | Name           | Target Coordinates                                                                  | Targ. Coord. Corrections    |               |                                | Fluxes                                             | Miscellaneous           |                                 |       |       |
|               | (24)                                                                                              | ZWCL-0947+1723 | RA: 09 49 50.8870 (147.4620292d)<br>Dec: +17 07 15.27 (17.12091d)<br>Equinox: J2000 |                             |               |                                | V=18                                               | Reference Frame: SIMBAD |                                 |       |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                |                                                                                     |                             |               |                                |                                                    |                         |                                 |       |       |
|               |                                                                                                   |                |                                                                                     |                             |               |                                |                                                    |                         |                                 |       |       |
| Exposures     | #                                                                                                 | Label          | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                                      | Groups                  | Exp. Time (Total)/[Actual Dur.] |       | Orbit |
|               | 1                                                                                                 | F140W          | (24) ZWCL-0947+1723                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 7.317,0.90825;<br>GS ACQ SCENARIO BASE1B3 |                         | 177.935896 Secs (177.936 Secs)  | [==>] | [1]   |
|               | 2                                                                                                 | F105W          | (24) ZWCL-0947+1723                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | SAME POS AS 1                                      |                         | 352.935448 Secs (352.935 Secs)  | [==>] | [1]   |
|               | 3                                                                                                 | F105W          | (24) ZWCL-0947+1723                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0.47425,0.6055                            |                         | 352.935448 Secs (352.935 Secs)  | [==>] | [1]   |
|               | 4                                                                                                 | F140W          | (24) ZWCL-0947+1723                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 3                                      |                         | 177.935896 Secs (177.936 Secs)  | [==>] | [1]   |
|               | 5                                                                                                 | F125W          | (24) ZWCL-0947+1723                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0                                       |                         | 177.935896 Secs (177.936 Secs)  | [==>] | [1]   |
|               | 6                                                                                                 | F160W          | (24) ZWCL-0947+1723                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | SAME POS AS 5                                      |                         | 502.936801 Secs (502.937 Secs)  | [==>] | [1]   |
|               | 7                                                                                                 | F160W          | (24) ZWCL-0947+1723                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | POS TARG 6.48275,0.30275                           |                         | 502.936801 Secs (502.937 Secs)  | [==>] | [1]   |
|               | 8                                                                                                 | F125W          | (24) ZWCL-0947+1723                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 7                                      |                         | 177.935896 Secs (177.936 Secs)  | [==>] | [1]   |
|               |                                                                                                   |                |                                                                                     |                             |               |                                |                                                    |                         |                                 |       |       |
|               |                                                                                                   |                |                                                                                     |                             |               |                                |                                                    |                         |                                 |       |       |
|               |                                                                                                   |                |                                                                                     |                             |               |                                |                                                    |                         |                                 |       |       |
|               |                                                                                                   |                |                                                                                     |                             |               |                                |                                                    |                         |                                 |       |       |
|               |                                                                                                   |                |                                                                                     |                             |               |                                |                                                    |                         |                                 |       |       |
|               |                                                                                                   |                |                                                                                     |                             |               |                                |                                                    |                         |                                 |       |       |
|               |                                                                                                   |                |                                                                                     |                             |               |                                |                                                    |                         |                                 |       |       |



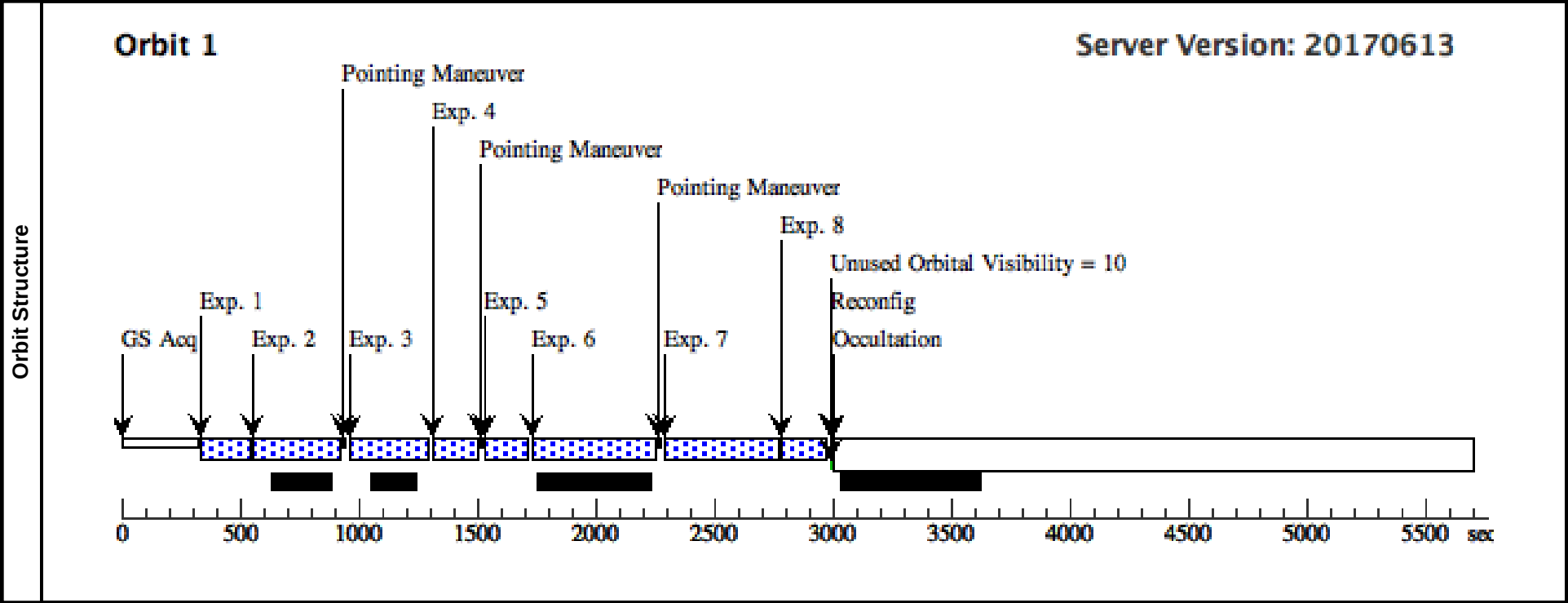
# Proposal 14096 - 25 ACO-1758-NW IR1 (12) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |             |                                                                                     |                             |                          |                                   |                              |                         |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|-----------------------------|--------------------------|-----------------------------------|------------------------------|-------------------------|-----------------------------------------|-------|
| Visit         | Proposal 14096, 25 ACO-1758-NW IR1 (12), completed                                                |             |                                                                                     |                             |                          |                                   |                              |                         | Mon Aug 07 18:08:12 GMT 2017            |       |
|               | Diagnostic Status: No Diagnostics                                                                 |             |                                                                                     |                             |                          |                                   |                              |                         |                                         |       |
|               | Scientific Instruments: WFC3/IR                                                                   |             |                                                                                     |                             |                          |                                   |                              |                         |                                         |       |
|               | Special Requirements: SCHED 100%                                                                  |             |                                                                                     |                             |                          |                                   |                              |                         |                                         |       |
| Fixed Targets | #                                                                                                 | Name        | Target Coordinates                                                                  |                             | Targ. Coord. Corrections |                                   | Fluxes                       | Miscellaneous           |                                         |       |
|               | (251)                                                                                             | ACO-1758-NW | RA: 13 32 38.9761 (203.1624004d)<br>Dec: +50 33 41.77 (50.56160d)<br>Equinox: J2000 |                             |                          |                                   | V=18                         | Reference Frame: SIMBAD |                                         |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |             |                                                                                     |                             |                          |                                   |                              |                         |                                         |       |
|               |                                                                                                   |             |                                                                                     |                             |                          |                                   |                              |                         |                                         |       |
| Exposures     | #                                                                                                 | Label       | Target                                                                              | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.                      | Special Reqs.                | Groups                  | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                 | F140W       | (251) ACO-1758-N<br>W                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | GS ACQ SCENARI<br>O BASE1B3  |                         | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                 | F105W       | (251) ACO-1758-N<br>W                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |                         | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                 | F105W       | (251) ACO-1758-N<br>W                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |                         | 302.934997 Secs (302.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                 | F140W       | (251) ACO-1758-N<br>W                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |                         | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                 | F125W       | (251) ACO-1758-N<br>W                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |                         | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                 | F160W       | (251) ACO-1758-N<br>W                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |                         | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                 | F160W       | (251) ACO-1758-N<br>W                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |                         | 452.93635 Secs (452.936 Secs)<br>[==>]  | [1]   |
|               | 8                                                                                                 | F125W       | (251) ACO-1758-N<br>W                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |                         | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               |                                                                                                   |             |                                                                                     |                             |                          |                                   |                              |                         |                                         |       |



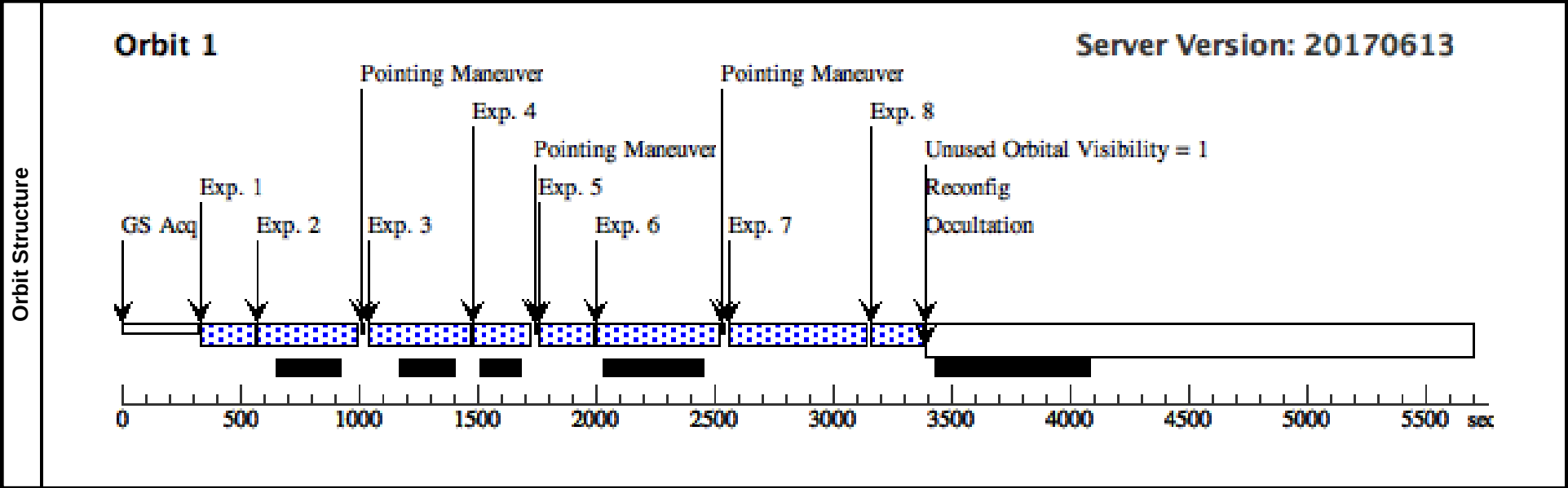
# Proposal 14096 - 25 ACO-1758-SE IR1 (22) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                                                                     |             |                                                                                                                                                                                                 |                             |               |                                   |                              |        |                                         |       |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------|--------|-----------------------------------------|-------|
| Visit         | <b>Proposal 14096, 25 ACO-1758-SE IR1 (22), completed</b> <span>Mon Aug 07 18:08:12 GMT 2017</span>                                                 |             |                                                                                                                                                                                                 |                             |               |                                   |                              |        |                                         |       |
|               | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 100%; AFTER 12 BY 1 Orbits TO 1.1 Orbits |             |                                                                                                                                                                                                 |                             |               |                                   |                              |        |                                         |       |
| Fixed Targets | #                                                                                                                                                   | Name        | Target Coordinates                                                                                                                                                                              | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                     |                              |        |                                         |       |
|               | (252)                                                                                                                                               | ACO-1758-SE | RA: 13 32 53.3561 (203.2223171d)<br>Dec: +50 31 30.97 (50.52527d)<br>Equinox: J2000<br><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> |                             | V=18          | Reference Frame: SIMBAD           |                              |        |                                         |       |
| Exposures     | #                                                                                                                                                   | Label       | Target                                                                                                                                                                                          | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                                   | F140W       | (252) ACO-1758-SE                                                                                                                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | GS ACQ SCENARI<br>O BASE1B3  |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                                                                   | F105W       | (252) ACO-1758-SE                                                                                                                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                                   | F105W       | (252) ACO-1758-SE                                                                                                                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |        | 302.934997 Secs (302.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                                                                   | F140W       | (252) ACO-1758-SE                                                                                                                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                                   | F125W       | (252) ACO-1758-SE                                                                                                                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                                                                   | F160W       | (252) ACO-1758-SE                                                                                                                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                                                                   | F160W       | (252) ACO-1758-SE                                                                                                                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |        | 452.93635 Secs (452.936 Secs)<br>[==>]  | [1]   |
|               | 8                                                                                                                                                   | F125W       | (252) ACO-1758-SE                                                                                                                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |



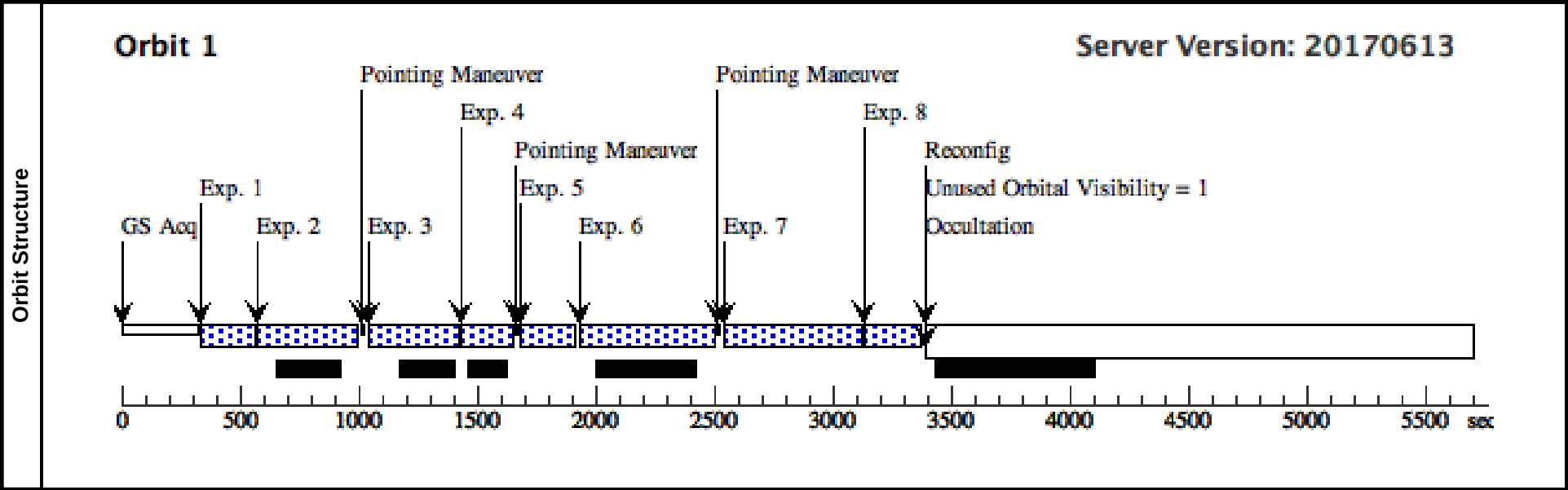
# Proposal 14096 - 25 ACO-1758-NW IR2 (14) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |             |                                                                                     |                             |  |                          |                                   |                                                            |        |                                         |                              |       |
|---------------|---------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|-----------------------------|--|--------------------------|-----------------------------------|------------------------------------------------------------|--------|-----------------------------------------|------------------------------|-------|
| Visit         | Proposal 14096, 25 ACO-1758-NW IR2 (14), completed                                                |             |                                                                                     |                             |  |                          |                                   |                                                            |        |                                         | Mon Aug 07 18:08:12 GMT 2017 |       |
|               | Diagnostic Status: No Diagnostics                                                                 |             |                                                                                     |                             |  |                          |                                   |                                                            |        |                                         |                              |       |
|               | Scientific Instruments: WFC3/IR                                                                   |             |                                                                                     |                             |  |                          |                                   |                                                            |        |                                         |                              |       |
|               | Special Requirements: SCHED 30%; SAME ORIENT AS 12; AFTER 12 BY 40 D TO 60 D                      |             |                                                                                     |                             |  |                          |                                   |                                                            |        |                                         |                              |       |
| Fixed Targets | #                                                                                                 | Name        | Target Coordinates                                                                  |                             |  | Targ. Coord. Corrections |                                   | Fluxes                                                     |        | Miscellaneous                           |                              |       |
|               | (251)                                                                                             | ACO-1758-NW | RA: 13 32 38.9761 (203.1624004d)<br>Dec: +50 33 41.77 (50.56160d)<br>Equinox: J2000 |                             |  |                          |                                   | V=18                                                       |        | Reference Frame: SIMBAD                 |                              |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |             |                                                                                     |                             |  |                          |                                   |                                                            |        |                                         |                              |       |
|               |                                                                                                   |             |                                                                                     |                             |  |                          |                                   |                                                            |        |                                         |                              |       |
| Exposures     | #                                                                                                 | Label       | Target                                                                              | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                      | Special Reqs.                                              | Groups | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |
|               | 1                                                                                                 | F140W       | (251) ACO-1758-N<br>W                                                               | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825;<br>GS ACQ SCENARI<br>O BASE1B3 |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |
|               | 2                                                                                                 | F105W       | (251) ACO-1758-N<br>W                                                               | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                                              |        | 402.935899 Secs (402.936 Secs)<br>[==>] |                              | [1]   |
|               | 3                                                                                                 | F105W       | (251) ACO-1758-N<br>W                                                               | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,<br>0.6055                                |        | 402.935899 Secs (402.936 Secs)<br>[==>] |                              | [1]   |
|               | 4                                                                                                 | F140W       | (251) ACO-1758-N<br>W                                                               | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S25 | SAME POS AS 3                                              |        | 227.936926 Secs (227.937 Secs)<br>[==>] |                              | [1]   |
|               | 5                                                                                                 | F125W       | (251) ACO-1758-N<br>W                                                               | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0                                               |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |
|               | 6                                                                                                 | F160W       | (251) ACO-1758-N<br>W                                                               | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                                              |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                              | [1]   |
|               | 7                                                                                                 | F160W       | (251) ACO-1758-N<br>W                                                               | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,<br>0.30275                               |        | 552.937252 Secs (552.937 Secs)<br>[==>] |                              | [1]   |
|               | 8                                                                                                 | F125W       | (251) ACO-1758-N<br>W                                                               | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                                              |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |



# Proposal 14096 - 25 ACO-1758-SE IR2 (24) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                                                                                       |             |                                                                                                                                                                                                 |                             |               |                                   |                                                            |        |                                         |       |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------------------------------------|--------|-----------------------------------------|-------|
| Visit         | <b>Proposal 14096, 25 ACO-1758-SE IR2 (24), completed</b> <div> Mon Aug 07 18:08:12 GMT 2017 </div>                                                                   |             |                                                                                                                                                                                                 |                             |               |                                   |                                                            |        |                                         |       |
|               | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 30%; SAME ORIENT AS 22; AFTER 14 BY 1 Orbits TO 1.1 Orbits |             |                                                                                                                                                                                                 |                             |               |                                   |                                                            |        |                                         |       |
| Fixed Targets | #                                                                                                                                                                     | Name        | Target Coordinates                                                                                                                                                                              | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                     |                                                            |        |                                         |       |
|               | (252)                                                                                                                                                                 | ACO-1758-SE | RA: 13 32 53.3561 (203.2223171d)<br>Dec: +50 31 30.97 (50.52527d)<br>Equinox: J2000<br><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> |                             | V=18          | Reference Frame: SIMBAD           |                                                            |        |                                         |       |
| Exposures     | #                                                                                                                                                                     | Label       | Target                                                                                                                                                                                          | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                                              | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                                                     | F140W       | (252) ACO-1758-SE                                                                                                                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825;<br>GS ACQ SCENARI<br>O BASE1B3 |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                                                                                     | F105W       | (252) ACO-1758-SE                                                                                                                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                                              |        | 402.935899 Secs (402.936 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                                                     | F105W       | (252) ACO-1758-SE                                                                                                                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,<br>0.6055                                |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                                                                                     | F140W       | (252) ACO-1758-SE                                                                                                                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                                              |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                                                     | F125W       | (252) ACO-1758-SE                                                                                                                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0                                               |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                                                                                     | F160W       | (252) ACO-1758-SE                                                                                                                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                                              |        | 552.937252 Secs (552.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                                                                                     | F160W       | (252) ACO-1758-SE                                                                                                                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,<br>0.30275                               |        | 552.937252 Secs (552.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                                                                                     | F125W       | (252) ACO-1758-SE                                                                                                                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S25 | SAME POS AS 7                                              |        | 227.936926 Secs (227.937 Secs)<br>[==>] | [1]   |

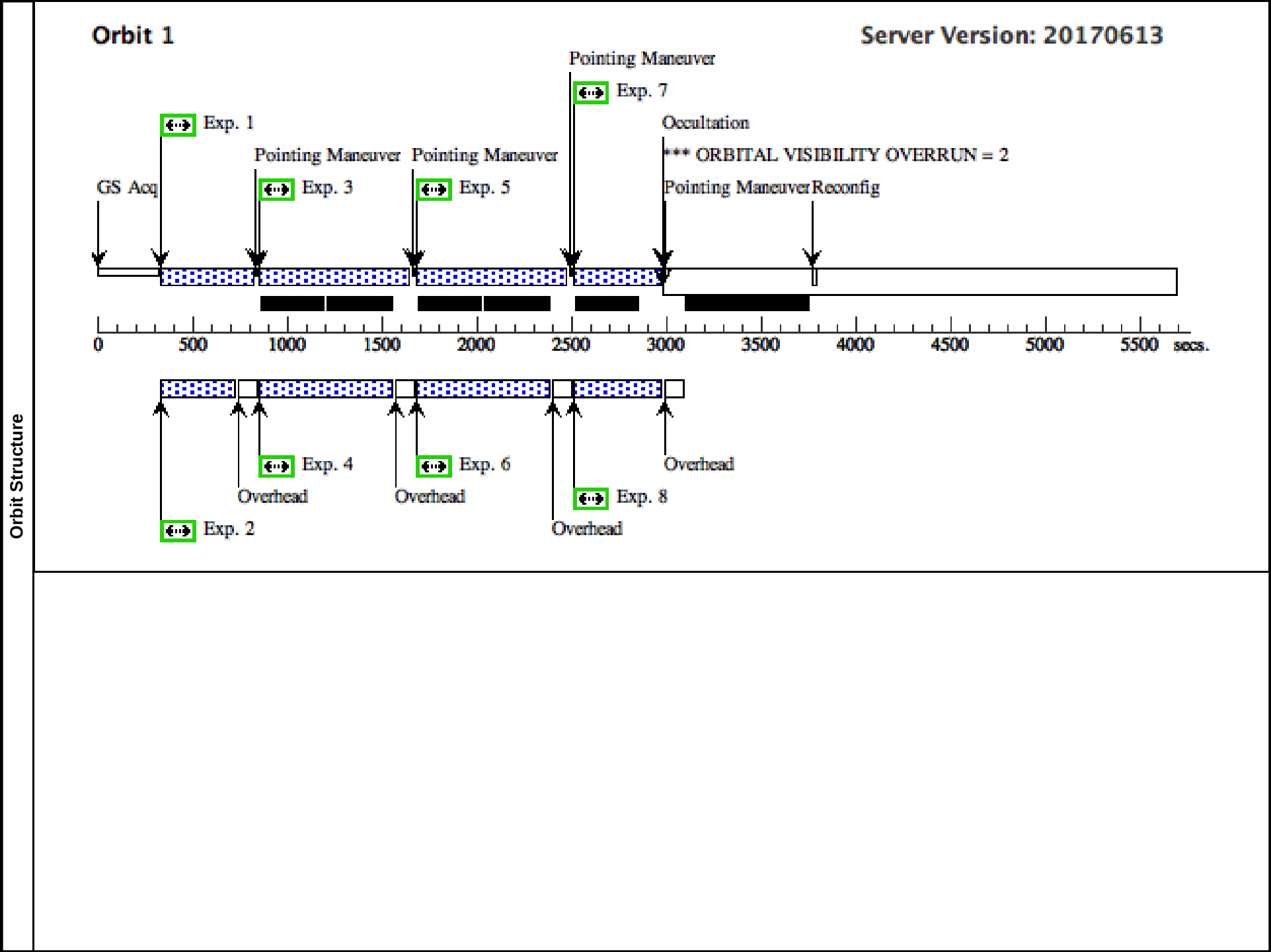


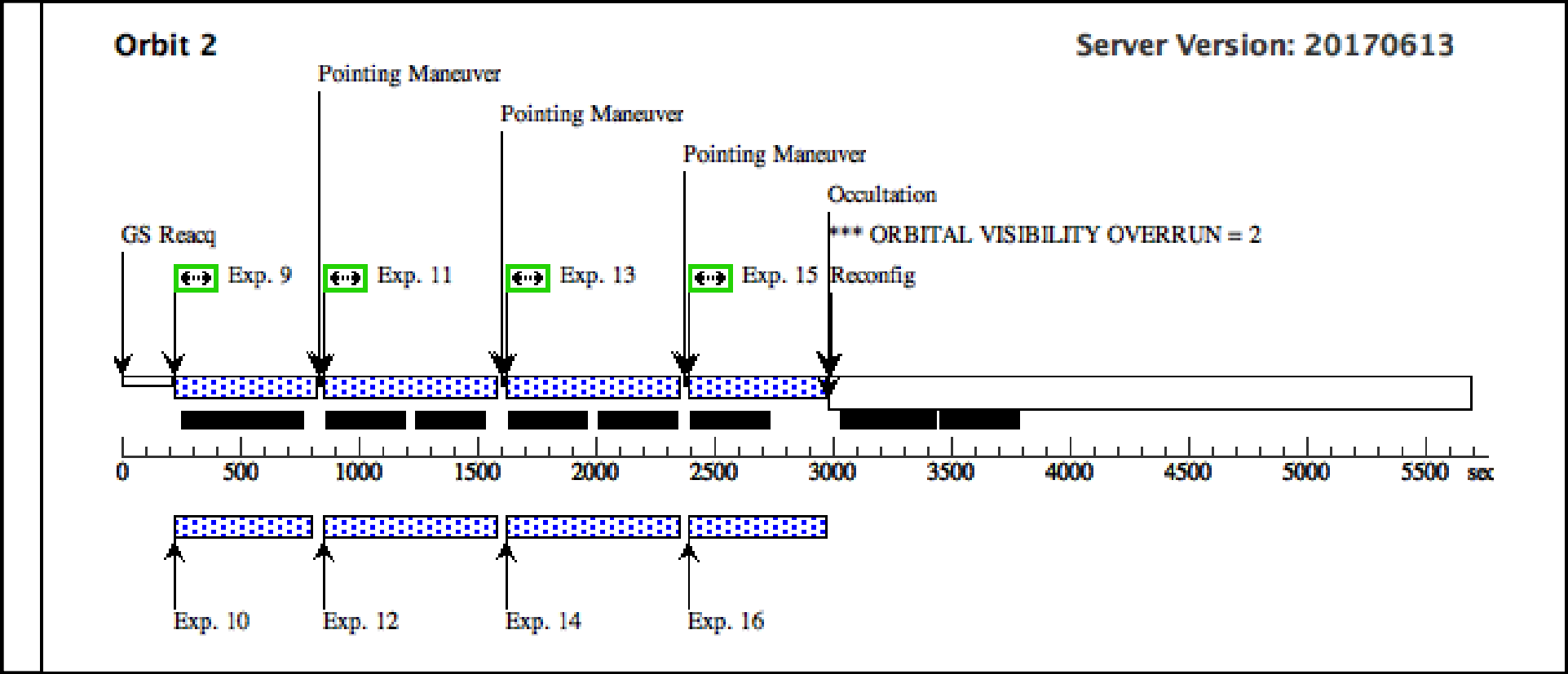
# Proposal 14096 - 26 ACO-1763 ACS1 (31) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                                                                                            |          |                                                                                     |                          |        |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|--------------------------|--------|
| Visit                                                                                             | <b>Proposal 14096, 26 ACO-1763 ACS1 (31), completed</b> <span>Mon Aug 07 18:08:12 GMT 2017</span>                                                          |          |                                                                                     |                          |        |
|                                                                                                   | <b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC<br>Special Requirements: SCHED 100%                               |          |                                                                                     |                          |        |
| Diagnostics                                                                                       | (26 ACO-1763 ACS1 (31)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(26 ACO-1763 ACS1 (31)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |          |                                                                                     |                          |        |
|                                                                                                   |                                                                                                                                                            |          |                                                                                     |                          |        |
| Fixed Targets                                                                                     | #                                                                                                                                                          | Name     | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes |
|                                                                                                   | (26)                                                                                                                                                       | ACO-1763 | RA: 13 35 18.9035 (203.8287646d)<br>Dec: +40 59 57.23 (40.99923d)<br>Equinox: J2000 |                          | V=18   |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                                                                                            |          |                                                                                     |                          |        |
|                                                                                                   |                                                                                                                                                            |          |                                                                                     |                          |        |

# Proposal 14096 - 26 ACO-1763 ACS1 (31) - RELICS: Reionization Lensing Cluster Survey

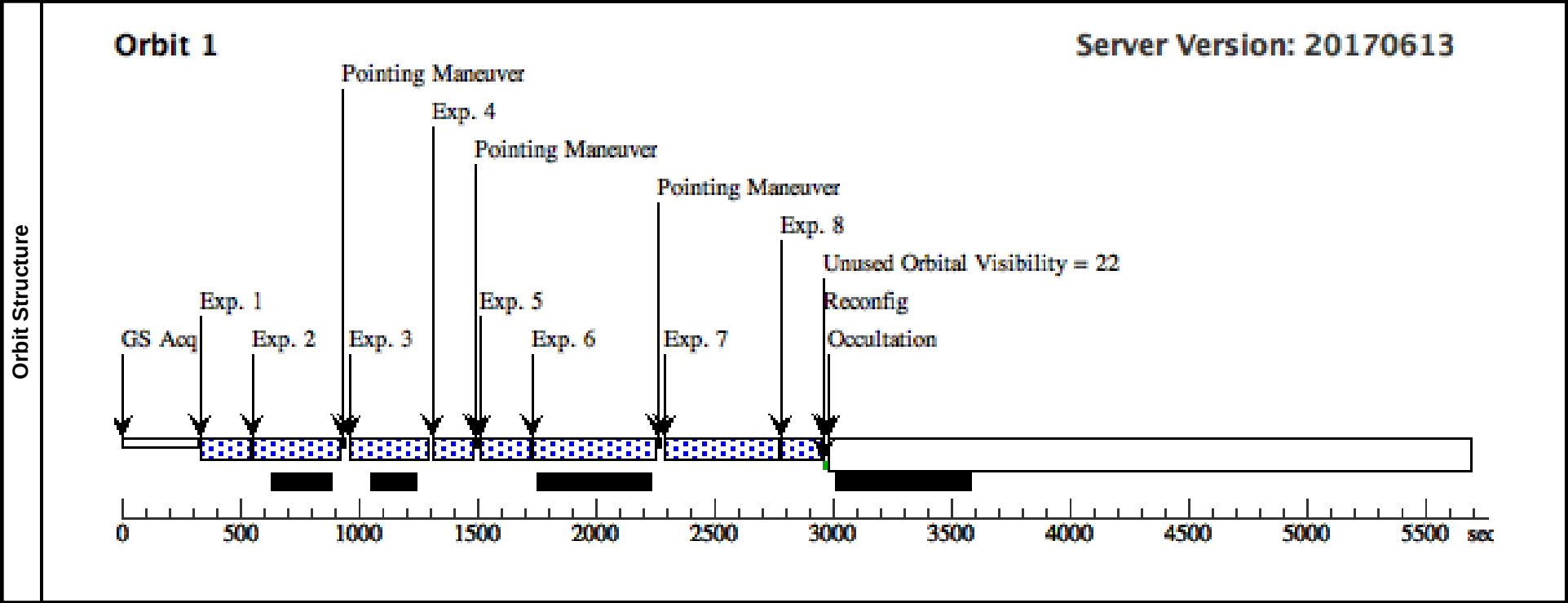
| Exposures | #  | Label | Target        | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.           | Groups                                                | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|----|-------|---------------|-----------------------------|---------------|-----------------------------------|-------------------------|-------------------------------------------------------|-----------------------------------------|-------|
|           | 1  |       | (26) ACO-1763 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   |                         | Prime + Parallel Group 1-2 in 26 ACO-1763 ACS1 (31)   | 281 Secs (281 Secs)<br>[==>]            | [1]   |
|           | 2  |       | ANY           | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                         | Prime + Parallel Group 1-2 in 26 ACO-1763 ACS1 (31)   | 365 Secs (365 Secs)<br>[==>]            | [1]   |
|           | 3  |       | (26) ACO-1763 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.0741,2 .970  | Prime + Parallel Group 3-4 in 26 ACO-1763 ACS1 (31)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 4  |       | ANY           | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                         | Prime + Parallel Group 3-4 in 26 ACO-1763 ACS1 (31)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 5  |       | (26) ACO-1763 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 5-6 in 26 ACO-1763 ACS1 (31)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 6  |       | ANY           | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                         | Prime + Parallel Group 5-6 in 26 ACO-1763 ACS1 (31)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 7  |       | (26) ACO-1763 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 7-8 in 26 ACO-1763 ACS1 (31)   | 337 Secs (337 Secs)<br>[==>]            | [1]   |
|           | 8  |       | ANY           | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                         | Prime + Parallel Group 7-8 in 26 ACO-1763 ACS1 (31)   | 463 Secs (463 Secs)<br>[==>]            | [1]   |
|           | 9  |       | (26) ACO-1763 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   |                         | Prime + Parallel Group 9-10 in 26 ACO-1763 ACS1 (31)  | 452 Secs (452 Secs)<br>[==>]            | [2]   |
|           | 10 |       | ANY           | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 |                         | Prime + Parallel Group 9-10 in 26 ACO-1763 ACS1 (31)  | 552.937252 Secs (552.937 Secs)<br>[==>] | [2]   |
|           | 11 |       | (26) ACO-1763 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   | POS TARG 0.0741,2 .970  | Prime + Parallel Group 11-12 in 26 ACO-1763 ACS1 (31) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 12 |       | ANY           | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                         | Prime + Parallel Group 11-12 in 26 ACO-1763 ACS1 (31) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |
|           | 13 |       | (26) ACO-1763 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 13-14 in 26 ACO-1763 ACS1 (31) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 14 |       | ANY           | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                         | Prime + Parallel Group 13-14 in 26 ACO-1763 ACS1 (31) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |
|           | 15 |       | (26) ACO-1763 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 15-16 in 26 ACO-1763 ACS1 (31) | 457 Secs (457 Secs)<br>[==>]            | [2]   |
|           | 16 |       | ANY           | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 |                         | Prime + Parallel Group 15-16 in 26 ACO-1763 ACS1 (31) | 552.937252 Secs (552.937 Secs)<br>[==>] | [2]   |





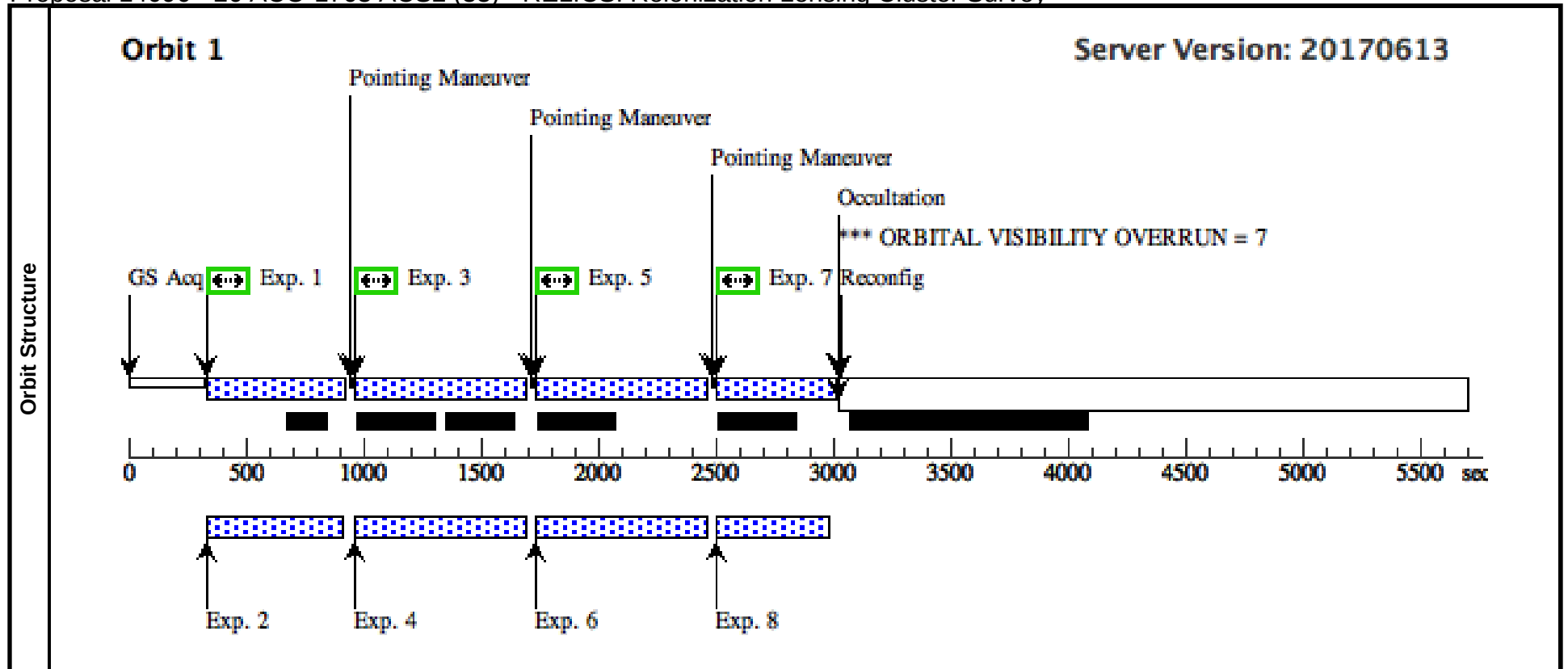
# Proposal 14096 - 26 ACO-1763 IR1 (32) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |          |                                                                                     |                             |               |                                   |                              |        |                                         |                         |                              |
|---------------|---------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------|--------|-----------------------------------------|-------------------------|------------------------------|
| Visit         | Proposal 14096, 26 ACO-1763 IR1 (32), completed                                                   |          |                                                                                     |                             |               |                                   |                              |        |                                         |                         | Mon Aug 07 18:08:12 GMT 2017 |
|               | Diagnostic Status: No Diagnostics                                                                 |          |                                                                                     |                             |               |                                   |                              |        |                                         |                         |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |          |                                                                                     |                             |               |                                   |                              |        |                                         |                         |                              |
|               | Special Requirements: SCHED 100%; SAME ORIENT AS 31; AFTER 31 BY 2 Orbits TO 2.1 Orbits           |          |                                                                                     |                             |               |                                   |                              |        |                                         |                         |                              |
| Fixed Targets | #                                                                                                 | Name     | Target Coordinates                                                                  |                             |               | Targ. Coord. Corrections          |                              | Fluxes |                                         | Miscellaneous           |                              |
|               | (26)                                                                                              | ACO-1763 | RA: 13 35 18.9035 (203.8287646d)<br>Dec: +40 59 57.23 (40.99923d)<br>Equinox: J2000 |                             |               |                                   |                              | V=18   |                                         | Reference Frame: SIMBAD |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |          |                                                                                     |                             |               |                                   |                              |        |                                         |                         |                              |
|               |                                                                                                   |          |                                                                                     |                             |               |                                   |                              |        |                                         |                         |                              |
| Exposures     | #                                                                                                 | Label    | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         |                         | Orbit                        |
|               | 1                                                                                                 | F140W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                              |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 2                                                                                                 | F105W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|               | 3                                                                                                 | F105W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |        | 302.934997 Secs (302.935 Secs)<br>[==>] |                         | [1]                          |
|               | 4                                                                                                 | F140W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 152.935381 Secs (152.935 Secs)<br>[==>] |                         | [1]                          |
|               | 5                                                                                                 | F125W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 6                                                                                                 | F160W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |
|               | 7                                                                                                 | F160W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |                         | [1]                          |
|               | 8                                                                                                 | F125W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 152.935381 Secs (152.935 Secs)<br>[==>] |                         | [1]                          |



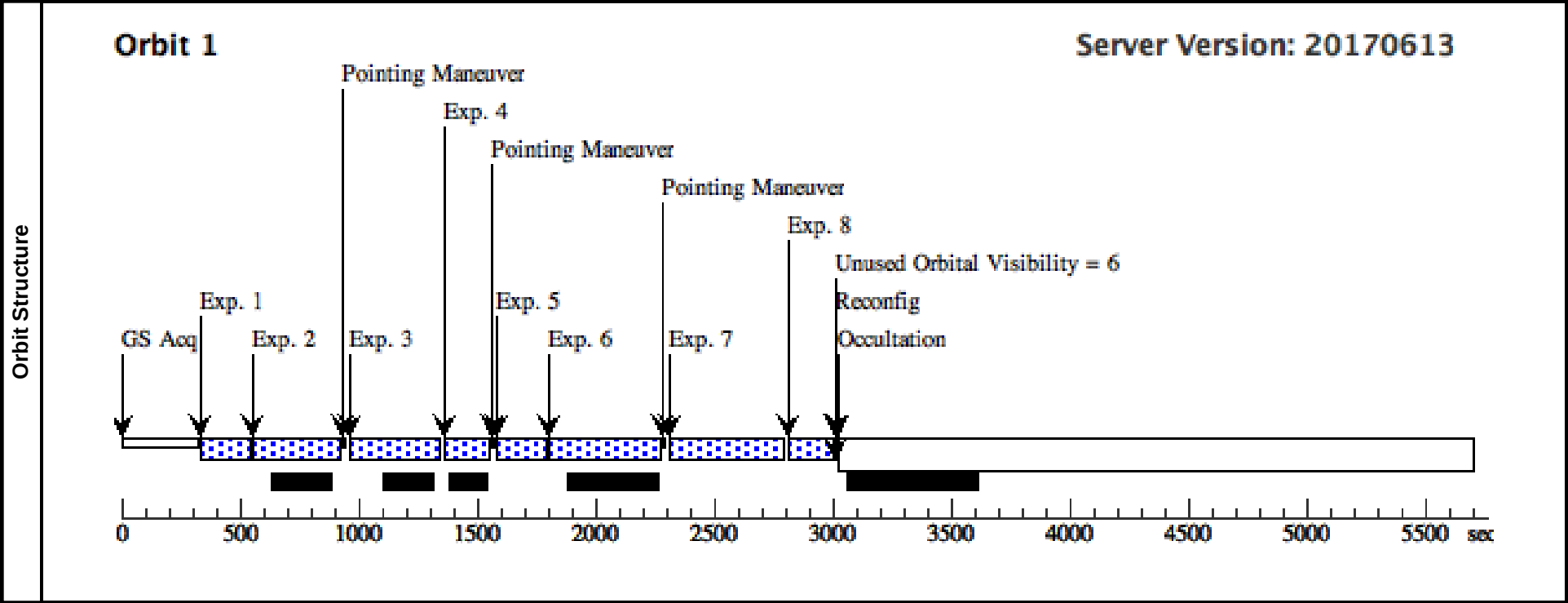
# Proposal 14096 - 26 ACO-1763 ACS2 (33) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |          |                                                                                     |                             |               |                                   |                            |                                                             |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|----------------------------|-------------------------------------------------------------|-----------------------------------------|-------|
| Visit         | Proposal 14096, 26 ACO-1763 ACS2 (33), completed                                                  |          |                                                                                     |                             |               |                                   |                            |                                                             | Mon Aug 07 18:08:12 GMT 2017            |       |
|               | Diagnostic Status: Warning                                                                        |          |                                                                                     |                             |               |                                   |                            |                                                             |                                         |       |
|               | Scientific Instruments: WFC3/IR, ACS/WFC                                                          |          |                                                                                     |                             |               |                                   |                            |                                                             |                                         |       |
|               | Special Requirements: SCHED 90%; SAME ORIENT AS 31; AFTER 31 BY 40 D TO 60 D                      |          |                                                                                     |                             |               |                                   |                            |                                                             |                                         |       |
| Diagnostics   | (26 ACO-1763 ACS2 (33)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                       |          |                                                                                     |                             |               |                                   |                            |                                                             |                                         |       |
| Fixed Targets | #                                                                                                 | Name     | Target Coordinates                                                                  | Targ. Coord. Corrections    |               | Fluxes                            |                            | Miscellaneous                                               |                                         |       |
|               | (26)                                                                                              | ACO-1763 | RA: 13 35 18.9035 (203.8287646d)<br>Dec: +40 59 57.23 (40.99923d)<br>Equinox: J2000 |                             |               | V=18                              |                            | Reference Frame: SIMBAD                                     |                                         |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |          |                                                                                     |                             |               |                                   |                            |                                                             |                                         |       |
|               |                                                                                                   |          |                                                                                     |                             |               |                                   |                            |                                                             |                                         |       |
| Exposures     | #                                                                                                 | Label    | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.              | Groups                                                      | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                 |          | (26) ACO-1763                                                                       | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   |                            | Prime + Parallel Gro<br>up 1-2 in 26 ACO-17<br>63 ACS2 (33) | 389 Secs (389 Secs)<br>[==>]            | [1]   |
|               | 2                                                                                                 |          | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Gro<br>up 1-2 in 26 ACO-17<br>63 ACS2 (33) | 552.937252 Secs (552.937 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                 |          | (26) ACO-1763                                                                       | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   | POS TARG 0.0741,2<br>.970  | Prime + Parallel Gro<br>up 3-4 in 26 ACO-17<br>63 ACS2 (33) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 4                                                                                                 |          | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Gro<br>up 3-4 in 26 ACO-17<br>63 ACS2 (33) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                 |          | (26) ACO-1763                                                                       | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   | POS TARG 0.1976,5<br>.9687 | Prime + Parallel Gro<br>up 5-6 in 26 ACO-17<br>63 ACS2 (33) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 6                                                                                                 |          | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Gro<br>up 5-6 in 26 ACO-17<br>63 ACS2 (33) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                 |          | (26) ACO-1763                                                                       | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                   | POS TARG 0.2717,8<br>.9367 | Prime + Parallel Gro<br>up 7-8 in 26 ACO-17<br>63 ACS2 (33) | 388 Secs (388 Secs)<br>[==>]            | [1]   |
|               | 8                                                                                                 |          | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Gro<br>up 7-8 in 26 ACO-17<br>63 ACS2 (33) | 452.93635 Secs (452.936 Secs)<br>[==>]  | [1]   |



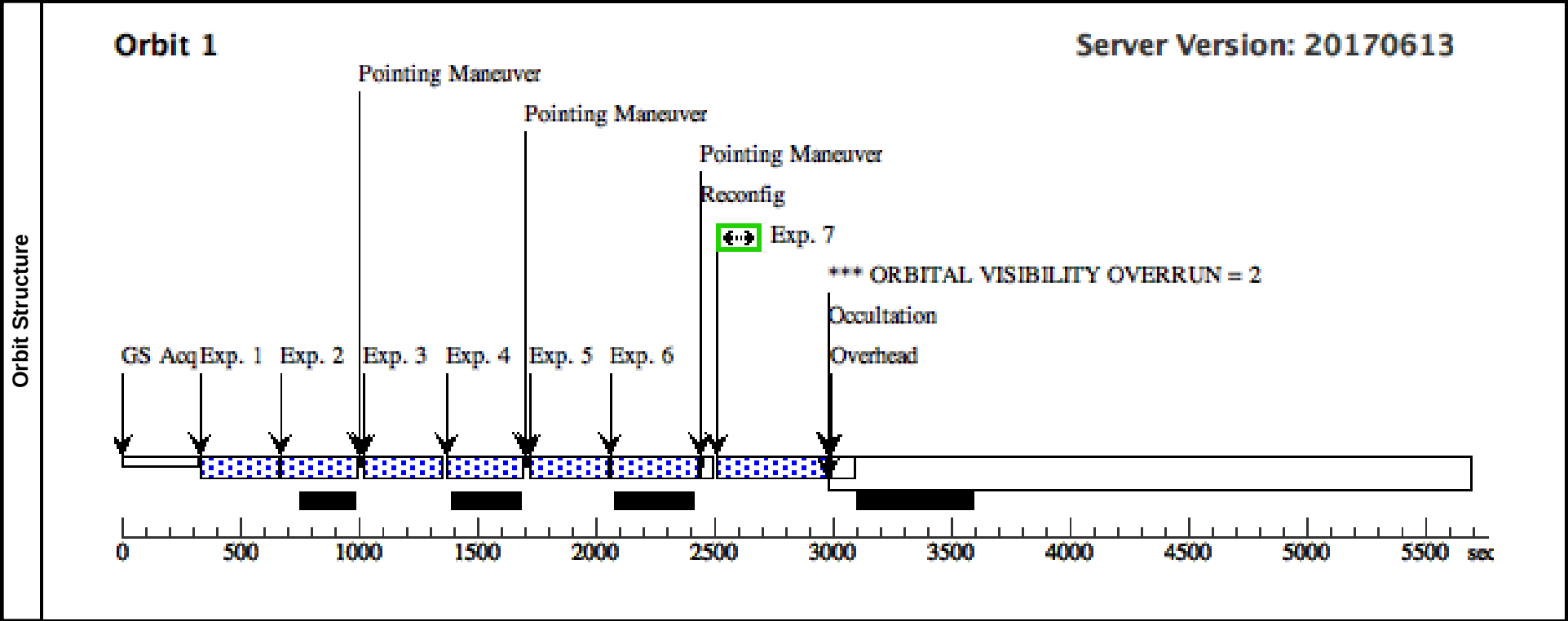
# Proposal 14096 - 26 ACO-1763 IR2 (34) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |          |                                                                                     |                             |               |                                   |                              |        |                                         |                         |                              |
|---------------|---------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------|--------|-----------------------------------------|-------------------------|------------------------------|
| Visit         | Proposal 14096, 26 ACO-1763 IR2 (34), completed                                                   |          |                                                                                     |                             |               |                                   |                              |        |                                         |                         | Mon Aug 07 18:08:12 GMT 2017 |
|               | Diagnostic Status: No Diagnostics                                                                 |          |                                                                                     |                             |               |                                   |                              |        |                                         |                         |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |          |                                                                                     |                             |               |                                   |                              |        |                                         |                         |                              |
|               | Special Requirements: SCHED 90%; SAME ORIENT AS 31; AFTER 33 BY 1 Orbits TO 1.1 Orbits            |          |                                                                                     |                             |               |                                   |                              |        |                                         |                         |                              |
| Fixed Targets | #                                                                                                 | Name     | Target Coordinates                                                                  |                             |               | Targ. Coord. Corrections          |                              | Fluxes |                                         | Miscellaneous           |                              |
|               | (26)                                                                                              | ACO-1763 | RA: 13 35 18.9035 (203.8287646d)<br>Dec: +40 59 57.23 (40.99923d)<br>Equinox: J2000 |                             |               |                                   |                              | V=18   |                                         | Reference Frame: SIMBAD |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |          |                                                                                     |                             |               |                                   |                              |        |                                         |                         |                              |
|               |                                                                                                   |          |                                                                                     |                             |               |                                   |                              |        |                                         |                         |                              |
| Exposures     | #                                                                                                 | Label    | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         |                         | Orbit                        |
|               | 1                                                                                                 | F140W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 2                                                                                                 | F105W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|               | 3                                                                                                 | F105W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,<br>0.6055  |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|               | 4                                                                                                 | F140W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 5                                                                                                 | F125W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0                 |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 6                                                                                                 | F160W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |                         | [1]                          |
|               | 7                                                                                                 | F160W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,<br>0.30275 |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |                         | [1]                          |
|               | 8                                                                                                 | F125W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |



# Proposal 14096 - 26 ACO-1763 SN1 (35) - RELICS: Reionization Lensing Cluster Survey

|                              |                                                                                                   |          |                                                                                     |                                  |               |                                  |                      |                         |                                         |       |
|------------------------------|---------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|----------------------------------|---------------|----------------------------------|----------------------|-------------------------|-----------------------------------------|-------|
| Visit                        | Proposal 14096, 26 ACO-1763 SN1 (35), completed                                                   |          |                                                                                     |                                  |               |                                  |                      |                         | Mon Aug 07 18:08:12 GMT 2017            |       |
|                              | Diagnostic Status: Warning                                                                        |          |                                                                                     |                                  |               |                                  |                      |                         |                                         |       |
|                              | Scientific Instruments: WFC3/IR, WFC3/UVIS                                                        |          |                                                                                     |                                  |               |                                  |                      |                         |                                         |       |
|                              | Special Requirements: SCHED 100%; BEFORE 12-JUL-2016:00:00:00                                     |          |                                                                                     |                                  |               |                                  |                      |                         |                                         |       |
| Comments: SN Follow-up visit |                                                                                                   |          |                                                                                     |                                  |               |                                  |                      |                         |                                         |       |
| Diagnostics                  | (26 ACO-1763 SN1 (35)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                        |          |                                                                                     |                                  |               |                                  |                      |                         |                                         |       |
| Fixed Targets                | #                                                                                                 | Name     | Target Coordinates                                                                  | Targ. Coord. Corrections         |               |                                  | Fluxes               | Miscellaneous           |                                         |       |
|                              | (26)                                                                                              | ACO-1763 | RA: 13 35 18.9035 (203.8287646d)<br>Dec: +40 59 57.23 (40.99923d)<br>Equinox: J2000 |                                  |               |                                  | V=18                 | Reference Frame: SIMBAD |                                         |       |
|                              | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |          |                                                                                     |                                  |               |                                  |                      |                         |                                         |       |
| Exposures                    | #                                                                                                 | Label    | Target                                                                              | Config,Mode,Aperture             | Spectral Els. | Opt. Params.                     | Special Reqs.        | Groups                  | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|                              | 1                                                                                                 | F160W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX      | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0,0         |                         | 302.934997 Secs (302.935 Secs)<br>[==>] | [1]   |
|                              | 2                                                                                                 | F125W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX      | F125W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 1        |                         | 302.934997 Secs (302.935 Secs)<br>[==>] | [1]   |
|                              | 3                                                                                                 | F125W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX      | F125W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.451,0.403 |                         | 302.934997 Secs (302.935 Secs)<br>[==>] | [1]   |
|                              | 4                                                                                                 | F160W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX      | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 3        |                         | 302.934997 Secs (302.935 Secs)<br>[==>] | [1]   |
|                              | 5                                                                                                 | F160W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX      | F160W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.902,0.806 |                         | 302.934997 Secs (302.935 Secs)<br>[==>] | [1]   |
|                              | 6                                                                                                 | F125W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX      | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5        |                         | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|                              | 7                                                                                                 |          | (26) ACO-1763                                                                       | WFC3/UVIS, ACCUM,<br>UVIS-IR-FIX | F350LP        |                                  |                      |                         | 434 Secs (434 Secs)<br>[==>]            | [1]   |
|                              |                                                                                                   |          |                                                                                     |                                  |               |                                  |                      |                         |                                         |       |
|                              |                                                                                                   |          |                                                                                     |                                  |               |                                  |                      |                         |                                         |       |



# Proposal 14096 - 26 ACO-1763 SN2 (36) - RELICS: Reionization Lensing Cluster Survey

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| Visit                        | Proposal 14096, 26 ACO-1763 SN2 (36), completed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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|                              | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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|                              | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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|                              | Special Requirements: SCHED 100%; BETWEEN 18-JUL-2016:00:00:00 AND 19-JUL-2016:00:00:00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Comments: SN Follow-up visit |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| Fixed Targets                | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Name     | Target Coordinates                                                                  |                             | Targ. Coord. Corrections |                                  | Fluxes               |        | Miscellaneous                           |  |                              |
|                              | (26)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ACO-1763 | RA: 13 35 18.9035 (203.8287646d)<br>Dec: +40 59 57.23 (40.99923d)<br>Equinox: J2000 |                             |                          |                                  | V=18                 |        | Reference Frame: SIMBAD                 |  |                              |
|                              | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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Params.                     | Special Reqs.        | Groups | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |
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| Orbit Structure              | <div><div>Orbit 1</div><div>Server Version: 20170613</div><div><div><div>GS Acq</div><div>Exp. 1</div><div>Exp. 2</div><div>Pointing Maneuver</div><div>Exp. 3</div><div>Exp. 4</div><div>Pointing Maneuver</div><div>Exp. 5</div><div>Exp. 6</div><div>Reconfig</div><div>Unused Orbital Visibility = 41</div><div>Occultation</div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></di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# Proposal 14096 - 26 ACO-1763 SN3 (37) - RELICS: Reionization Lensing Cluster Survey

|                              |                                                                                                                                                                                                                                                                                                                                                                    |          |                                                                                     |                             |                          |                                  |                      |        |                                         |  |                              |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|-----------------------------|--------------------------|----------------------------------|----------------------|--------|-----------------------------------------|--|------------------------------|
| Visit                        | Proposal 14096, 26 ACO-1763 SN3 (37), completed                                                                                                                                                                                                                                                                                                                    |          |                                                                                     |                             |                          |                                  |                      |        |                                         |  | Mon Aug 07 18:08:13 GMT 2017 |
|                              | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                                                                                                  |          |                                                                                     |                             |                          |                                  |                      |        |                                         |  |                              |
|                              | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                                                    |          |                                                                                     |                             |                          |                                  |                      |        |                                         |  |                              |
|                              | Special Requirements: SCHED 100%; BETWEEN 05-AUG-2016:00:00:00 AND 09-AUG-2016:00:00:00                                                                                                                                                                                                                                                                            |          |                                                                                     |                             |                          |                                  |                      |        |                                         |  |                              |
| Comments: SN Follow-up visit |                                                                                                                                                                                                                                                                                                                                                                    |          |                                                                                     |                             |                          |                                  |                      |        |                                         |  |                              |
| Fixed Targets                | #                                                                                                                                                                                                                                                                                                                                                                  | Name     | Target Coordinates                                                                  |                             | Targ. Coord. Corrections |                                  | Fluxes               |        | Miscellaneous                           |  |                              |
|                              | (26)                                                                                                                                                                                                                                                                                                                                                               | ACO-1763 | RA: 13 35 18.9035 (203.8287646d)<br>Dec: +40 59 57.23 (40.99923d)<br>Equinox: J2000 |                             |                          |                                  | V=18                 |        | Reference Frame: SIMBAD                 |  |                              |
|                              | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                                                                                                  |          |                                                                                     |                             |                          |                                  |                      |        |                                         |  |                              |
| Exposures                    | #                                                                                                                                                                                                                                                                                                                                                                  | Label    | Target                                                                              | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.                     | Special Reqs.        | Groups | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |
|                              | 1                                                                                                                                                                                                                                                                                                                                                                  | F160W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0,0         |        | 402.935899 Secs (402.936 Secs)<br>[==>] |  | [1]                          |
|                              | 2                                                                                                                                                                                                                                                                                                                                                                  | F125W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 1        |        | 402.935899 Secs (402.936 Secs)<br>[==>] |  | [1]                          |
|                              | 3                                                                                                                                                                                                                                                                                                                                                                  | F125W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.451,0.403 |        | 402.935899 Secs (402.936 Secs)<br>[==>] |  | [1]                          |
|                              | 4                                                                                                                                                                                                                                                                                                                                                                  | F105W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 3        |        | 402.935899 Secs (402.936 Secs)<br>[==>] |  | [1]                          |
|                              | 5                                                                                                                                                                                                                                                                                                                                                                  | F105W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.902,0.806 |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |
|                              | 6                                                                                                                                                                                                                                                                                                                                                                  | F160W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5        |        | 402.935899 Secs (402.936 Secs)<br>[==>] |  | [1]                          |
|                              |                                                                                                                                                                                                                                                                                                                                                                    |          |                                                                                     |                             |                          |                                  |                      |        |                                         |  |                              |
| Orbit Structure              | <div><div>Orbit 1</div><div>Server Version: 20170613</div><div><div><div>GS Acq</div><div>Exp. 1</div><div>Exp. 2</div><div>Exp. 3</div><div>Exp. 4</div><div>Exp. 5</div><div>Exp. 6</div><div>Reconfig</div><div>Occultation</div></div><div><div>Pointing Maneuver</div><div>Pointing Maneuver</div></div><div>Unused Orbital Visibility = 31</div></div></div> |          |                                                                                     |                             |                          |                                  |                      |        |                                         |  |                              |
|                              |                                                                                                                                                                                                                                                                                                                                                                    |          |                                                                                     |                             |                          |                                  |                      |        |                                         |  |                              |

# Proposal 14096 - 26 ACO-1763 SN4 (38) - RELICS: Reionization Lensing Cluster Survey

|                              |                                                                                                                                                                                                                                                                                                                                                            |          |                                                                                     |                             |  |                          |                                  |                                              |        |                                         |                              |       |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|-----------------------------|--|--------------------------|----------------------------------|----------------------------------------------|--------|-----------------------------------------|------------------------------|-------|
| Visit                        | Proposal 14096, 26 ACO-1763 SN4 (38), completed                                                                                                                                                                                                                                                                                                            |          |                                                                                     |                             |  |                          |                                  |                                              |        |                                         | Mon Aug 07 18:08:13 GMT 2017 |       |
|                              | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                                                                                          |          |                                                                                     |                             |  |                          |                                  |                                              |        |                                         |                              |       |
|                              | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                                            |          |                                                                                     |                             |  |                          |                                  |                                              |        |                                         |                              |       |
|                              | Special Requirements: SCHED 100%; BETWEEN 29-AUG-2016:00:00:00 AND 02-SEP-2016:00:00:00                                                                                                                                                                                                                                                                    |          |                                                                                     |                             |  |                          |                                  |                                              |        |                                         |                              |       |
| Comments: SN Follow-up visit |                                                                                                                                                                                                                                                                                                                                                            |          |                                                                                     |                             |  |                          |                                  |                                              |        |                                         |                              |       |
| Fixed Targets                | #                                                                                                                                                                                                                                                                                                                                                          | Name     | Target Coordinates                                                                  |                             |  | Targ. Coord. Corrections |                                  | Fluxes                                       |        | Miscellaneous                           |                              |       |
|                              | (26)                                                                                                                                                                                                                                                                                                                                                       | ACO-1763 | RA: 13 35 18.9035 (203.8287646d)<br>Dec: +40 59 57.23 (40.99923d)<br>Equinox: J2000 |                             |  |                          |                                  | V=18                                         |        | Reference Frame: SIMBAD                 |                              |       |
|                              | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                                                                                          |          |                                                                                     |                             |  |                          |                                  |                                              |        |                                         |                              |       |
| Exposures                    | #                                                                                                                                                                                                                                                                                                                                                          | Label    | Target                                                                              | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                     | Special Reqs.                                | Groups | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |
|                              | 1                                                                                                                                                                                                                                                                                                                                                          | F160W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0,0;<br>GS ACQ SCENARI<br>O BASE1B3 |        | 402.935899 Secs (402.936 Secs)<br>[==>] |                              | [1]   |
|                              | 2                                                                                                                                                                                                                                                                                                                                                          | F125W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 1                                |        | 402.935899 Secs (402.936 Secs)<br>[==>] |                              | [1]   |
|                              | 3                                                                                                                                                                                                                                                                                                                                                          | F125W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.451,0.<br>403                     |        | 402.935899 Secs (402.936 Secs)<br>[==>] |                              | [1]   |
|                              | 4                                                                                                                                                                                                                                                                                                                                                          | F160W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 3                                |        | 402.935899 Secs (402.936 Secs)<br>[==>] |                              | [1]   |
|                              | 5                                                                                                                                                                                                                                                                                                                                                          | F160W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.902,0.<br>806                     |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |
|                              | 6                                                                                                                                                                                                                                                                                                                                                          | F125W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                                |        | 402.935899 Secs (402.936 Secs)<br>[==>] |                              | [1]   |
|                              |                                                                                                                                                                                                                                                                                                                                                            |          |                                                                                     |                             |  |                          |                                  |                                              |        |                                         |                              |       |
| Orbit Structure              | <div><div>Orbit 1</div><div>Server Version: 20170613</div><div><div><div>GS Acq</div><div>Exp. 1</div><div>Exp. 2</div><div>Exp. 3</div><div>Exp. 4</div><div>Exp. 5</div><div>Exp. 6</div><div>Reconfig</div><div>Occultation</div><div>Unused Orbital Visibility = 41</div></div><div>05001000150020002500300035004000450050005500 sec</div></div></div> |          |                                                                                     |                             |  |                          |                                  |                                              |        |                                         |                              |       |

# Proposal 14096 - 26 ACO-1763 SN5 (39) - RELICS: Reionization Lensing Cluster Survey

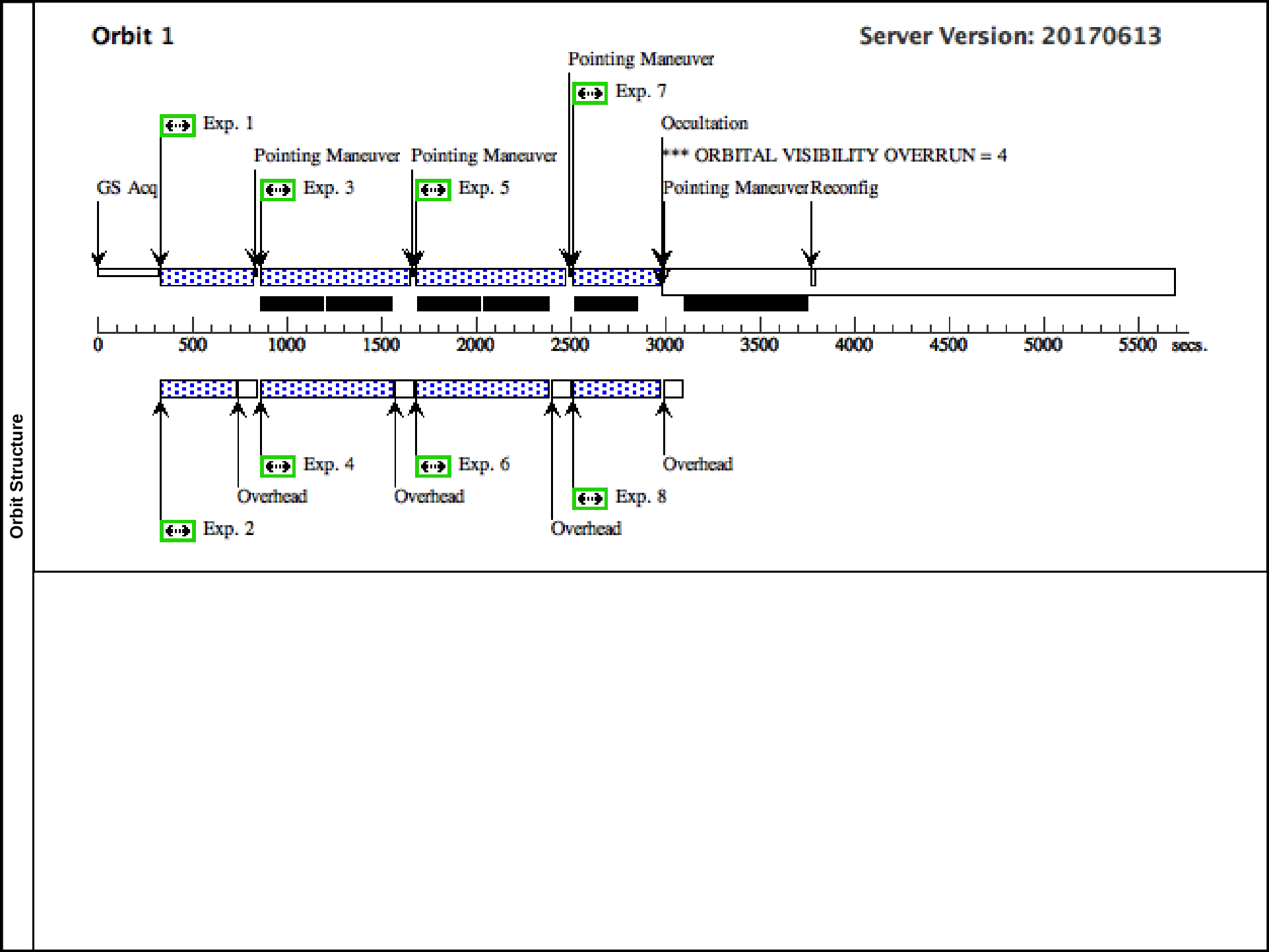
|                              |                                                                                                                                                                                                                                                                                                                                                                   |          |                                                                                     |                             |                          |                                   |                                                          |        |                                         |                              |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|-----------------------------|--------------------------|-----------------------------------|----------------------------------------------------------|--------|-----------------------------------------|------------------------------|
| Visit                        | Proposal 14096, 26 ACO-1763 SN5 (39), completed                                                                                                                                                                                                                                                                                                                   |          |                                                                                     |                             |                          |                                   |                                                          |        |                                         | Mon Aug 07 18:08:13 GMT 2017 |
|                              | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                                                                                                 |          |                                                                                     |                             |                          |                                   |                                                          |        |                                         |                              |
|                              | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                                                   |          |                                                                                     |                             |                          |                                   |                                                          |        |                                         |                              |
|                              | Special Requirements: SCHED 100%; BETWEEN 16-OCT-2016:00:00:00 AND 19-OCT-2016:00:00:00                                                                                                                                                                                                                                                                           |          |                                                                                     |                             |                          |                                   |                                                          |        |                                         |                              |
| Comments: SN Follow-up visit |                                                                                                                                                                                                                                                                                                                                                                   |          |                                                                                     |                             |                          |                                   |                                                          |        |                                         |                              |
| Fixed Targets                | #                                                                                                                                                                                                                                                                                                                                                                 | Name     | Target Coordinates                                                                  |                             | Targ. Coord. Corrections |                                   | Fluxes                                                   |        | Miscellaneous                           |                              |
|                              | (26)                                                                                                                                                                                                                                                                                                                                                              | ACO-1763 | RA: 13 35 18.9035 (203.8287646d)<br>Dec: +40 59 57.23 (40.99923d)<br>Equinox: J2000 |                             |                          |                                   | V=18                                                     |        | Reference Frame: SIMBAD                 |                              |
|                              | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                                                                                                 |          |                                                                                     |                             |                          |                                   |                                                          |        |                                         |                              |
| Exposures                    | #                                                                                                                                                                                                                                                                                                                                                                 | Label    | Target                                                                              | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.                      | Special Reqs.                                            | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit                        |
|                              | 1                                                                                                                                                                                                                                                                                                                                                                 | F160W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=13;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.273,0.<br>302;<br>GS ACQ SCENARI<br>O BASE1B3 |        | 602.937703 Secs (602.938 Secs)<br>[==>] | [1]                          |
|                              | 2                                                                                                                                                                                                                                                                                                                                                                 | F160W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=13;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.540,-0.<br>.243                               |        | 602.937703 Secs (602.938 Secs)<br>[==>] | [1]                          |
|                              | 3                                                                                                                                                                                                                                                                                                                                                                 | F160W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=13;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG -0.340,-<br>0.301                               |        | 602.937703 Secs (602.938 Secs)<br>[==>] | [1]                          |
|                              | 4                                                                                                                                                                                                                                                                                                                                                                 | F160W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=13;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG -0.608,0.<br>.244                               |        | 602.937703 Secs (602.938 Secs)<br>[==>] | [1]                          |
| Orbit Structure              | <div><div>Orbit 1</div><div>Server Version: 20170613</div><div>GS AcqExp. 1</div><div>Pointing Maneuver</div><div>Exp. 2</div><div>Pointing Maneuver</div><div>Exp. 3</div><div>Pointing Maneuver</div><div>Exp. 4</div><div>Unused Orbital Visibility = 16</div><div>Reconfig Occultation</div><div>05001000150020002500300035004000450050005500 sec</div></div> |          |                                                                                     |                             |                          |                                   |                                                          |        |                                         |                              |

# Proposal 14096 - 27 ACO-2813 ACS1 (41) - RELICS: Reionization Lensing Cluster Survey

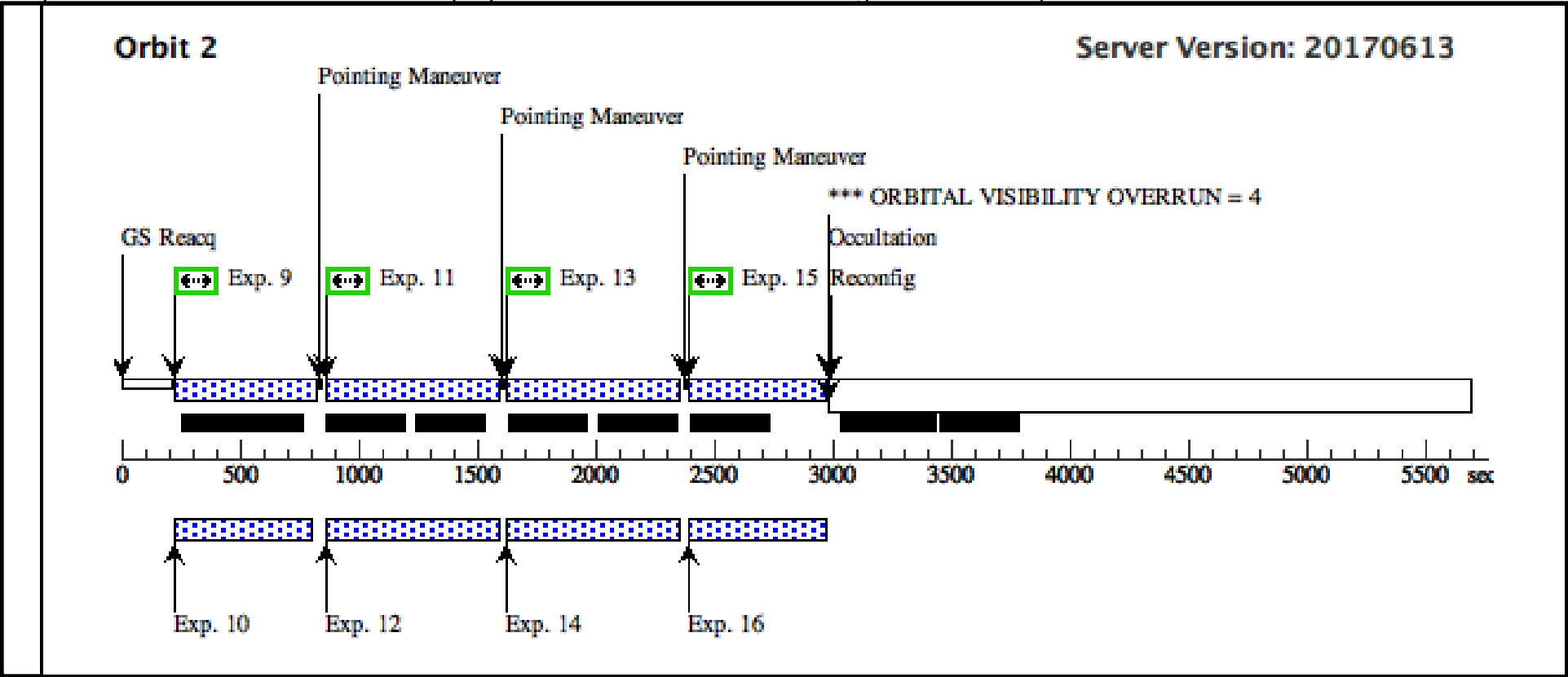
|                                                                                                   |                                                                                                                                                            |          |                                                                                     |                          |        |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|--------------------------|--------|
| Visit                                                                                             | <b>Proposal 14096, 27 ACO-2813 ACS1 (41), completed</b> <span>Mon Aug 07 18:08:13 GMT 2017</span>                                                          |          |                                                                                     |                          |        |
|                                                                                                   | <b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC<br>Special Requirements: SCHED 100%                               |          |                                                                                     |                          |        |
| Diagnostics                                                                                       | (27 ACO-2813 ACS1 (41)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(27 ACO-2813 ACS1 (41)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |          |                                                                                     |                          |        |
|                                                                                                   |                                                                                                                                                            |          |                                                                                     |                          |        |
| Fixed Targets                                                                                     | #                                                                                                                                                          | Name     | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes |
|                                                                                                   | (27)                                                                                                                                                       | ACO-2813 | RA: 00 43 25.1370 (10.8547375d)<br>Dec: -20 37 14.80 (-20.62078d)<br>Equinox: J2000 |                          | V=18   |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                                                                                            |          |                                                                                     |                          |        |
|                                                                                                   |                                                                                                                                                            |          |                                                                                     |                          |        |

# Proposal 14096 - 27 ACO-2813 ACS1 (41) - RELICS: Reionization Lensing Cluster Survey

| Exposures | #  | Label | Target        | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.           | Groups                                                | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|----|-------|---------------|-----------------------------|---------------|-----------------------------------|-------------------------|-------------------------------------------------------|-----------------------------------------|-------|
|           | 1  |       | (27) ACO-2813 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   |                         | Prime + Parallel Group 1-2 in 27 ACO-2813 ACS1 (41)   | 283 Secs (283 Secs)<br>[==>]            | [1]   |
|           | 2  |       | ANY           | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                         | Prime + Parallel Group 1-2 in 27 ACO-2813 ACS1 (41)   | 367 Secs (367 Secs)<br>[==>]            | [1]   |
|           | 3  |       | (27) ACO-2813 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.0741,2 .970  | Prime + Parallel Group 3-4 in 27 ACO-2813 ACS1 (41)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 4  |       | ANY           | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                         | Prime + Parallel Group 3-4 in 27 ACO-2813 ACS1 (41)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 5  |       | (27) ACO-2813 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 5-6 in 27 ACO-2813 ACS1 (41)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 6  |       | ANY           | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                         | Prime + Parallel Group 5-6 in 27 ACO-2813 ACS1 (41)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 7  |       | (27) ACO-2813 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                   | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 7-8 in 27 ACO-2813 ACS1 (41)   | 337 Secs (337 Secs)<br>[==>]            | [1]   |
|           | 8  |       | ANY           | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                   |                         | Prime + Parallel Group 7-8 in 27 ACO-2813 ACS1 (41)   | 463 Secs (463 Secs)<br>[==>]            | [1]   |
|           | 9  |       | (27) ACO-2813 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   |                         | Prime + Parallel Group 9-10 in 27 ACO-2813 ACS1 (41)  | 454 Secs (454 Secs)<br>[==>]            | [2]   |
|           | 10 |       | ANY           | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 |                         | Prime + Parallel Group 9-10 in 27 ACO-2813 ACS1 (41)  | 552.937252 Secs (552.937 Secs)<br>[==>] | [2]   |
|           | 11 |       | (27) ACO-2813 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   | POS TARG 0.0741,2 .970  | Prime + Parallel Group 11-12 in 27 ACO-2813 ACS1 (41) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 12 |       | ANY           | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                         | Prime + Parallel Group 11-12 in 27 ACO-2813 ACS1 (41) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |
|           | 13 |       | (27) ACO-2813 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 13-14 in 27 ACO-2813 ACS1 (41) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 14 |       | ANY           | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                         | Prime + Parallel Group 13-14 in 27 ACO-2813 ACS1 (41) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |
|           | 15 |       | (27) ACO-2813 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                   | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 15-16 in 27 ACO-2813 ACS1 (41) | 457 Secs (457 Secs)<br>[==>]            | [2]   |
|           | 16 |       | ANY           | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 |                         | Prime + Parallel Group 15-16 in 27 ACO-2813 ACS1 (41) | 552.937252 Secs (552.937 Secs)<br>[==>] | [2]   |

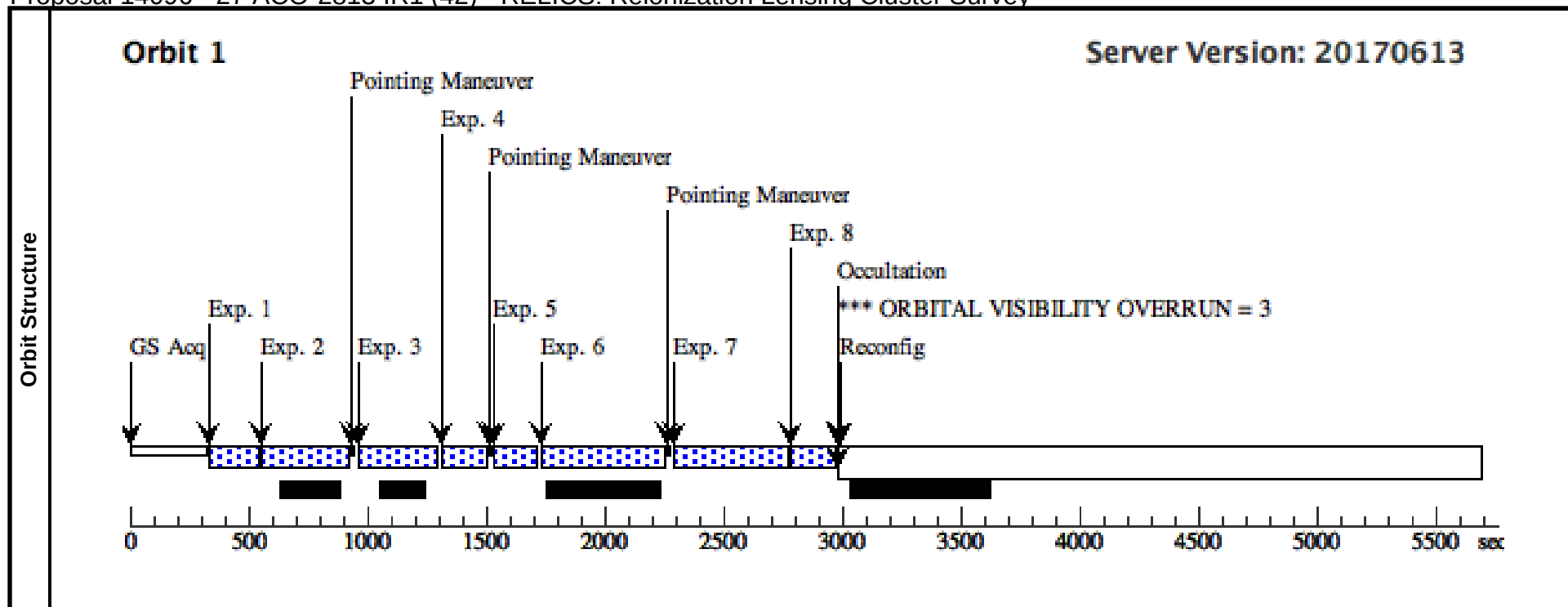


Orbit Structure



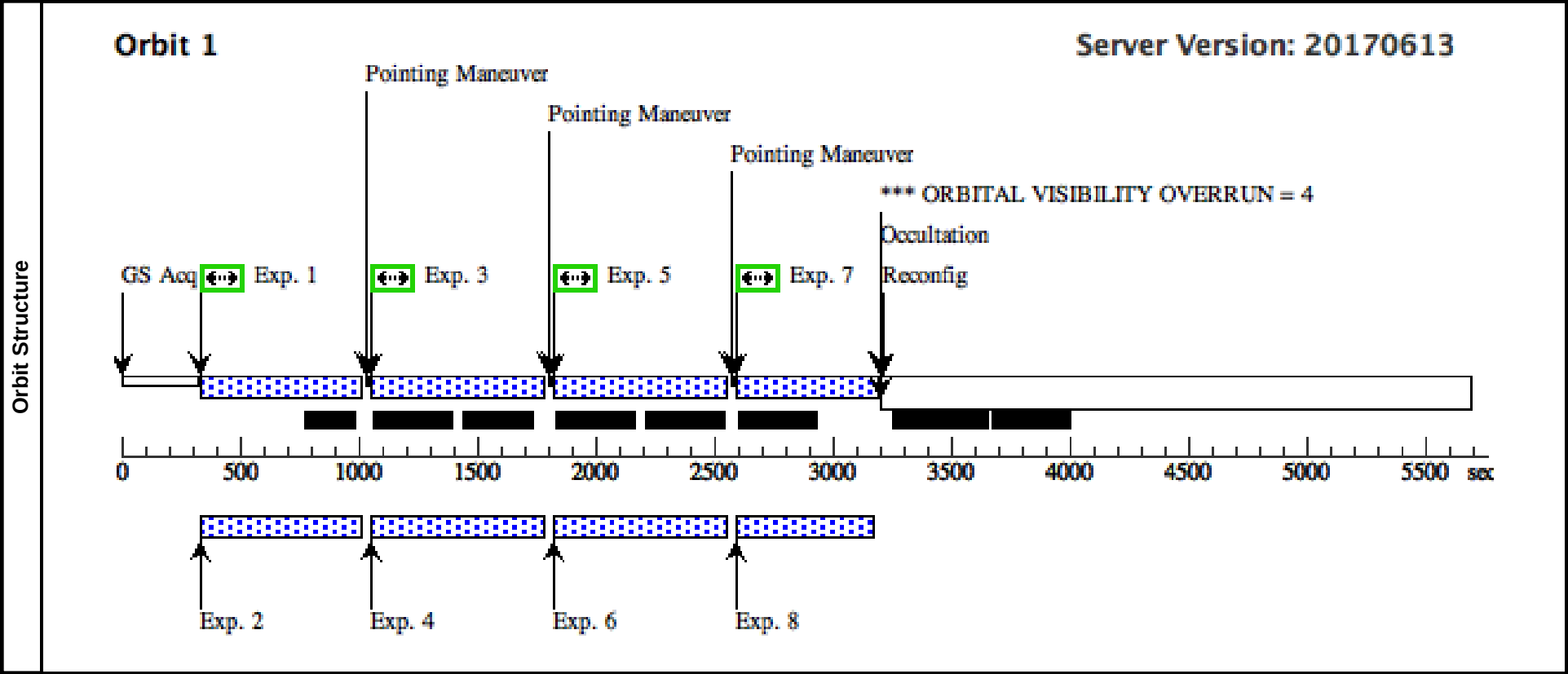
# Proposal 14096 - 27 ACO-2813 IR1 (42) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                         |          |                                                                                     |                             |               |                                   |                              |                         |                                         |       |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------|-------------------------|-----------------------------------------|-------|
| Visit                                                                                             | Proposal 14096, 27 ACO-2813 IR1 (42), completed                                         |          |                                                                                     |                             |               |                                   |                              |                         | Mon Aug 07 18:08:13 GMT 2017            |       |
|                                                                                                   | Diagnostic Status: Warning                                                              |          |                                                                                     |                             |               |                                   |                              |                         |                                         |       |
|                                                                                                   | Scientific Instruments: WFC3/IR                                                         |          |                                                                                     |                             |               |                                   |                              |                         |                                         |       |
|                                                                                                   | Special Requirements: SCHED 100%; SAME ORIENT AS 41; AFTER 41 BY 2 Orbits TO 2.1 Orbits |          |                                                                                     |                             |               |                                   |                              |                         |                                         |       |
| Diagnostics                                                                                       | (27 ACO-2813 IR1 (42)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN              |          |                                                                                     |                             |               |                                   |                              |                         |                                         |       |
| Fixed Targets                                                                                     | #                                                                                       | Name     | Target Coordinates                                                                  | Targ. Coord. Corrections    |               | Fluxes                            |                              | Miscellaneous           |                                         |       |
|                                                                                                   | (27)                                                                                    | ACO-2813 | RA: 00 43 25.1370 (10.8547375d)<br>Dec: -20 37 14.80 (-20.62078d)<br>Equinox: J2000 |                             |               | V=18                              |                              | Reference Frame: SIMBAD |                                         |       |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                         |          |                                                                                     |                             |               |                                   |                              |                         |                                         |       |
| Exposures                                                                                         | #                                                                                       | Label    | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                | Groups                  | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|                                                                                                   | 1                                                                                       | F140W    | (27) ACO-2813                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                              |                         | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|                                                                                                   | 2                                                                                       | F105W    | (27) ACO-2813                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |                         | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|                                                                                                   | 3                                                                                       | F105W    | (27) ACO-2813                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |                         | 302.934997 Secs (302.935 Secs)<br>[==>] | [1]   |
|                                                                                                   | 4                                                                                       | F140W    | (27) ACO-2813                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |                         | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|                                                                                                   | 5                                                                                       | F125W    | (27) ACO-2813                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |                         | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |
|                                                                                                   | 6                                                                                       | F160W    | (27) ACO-2813                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |                         | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|                                                                                                   | 7                                                                                       | F160W    | (27) ACO-2813                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |                         | 452.93635 Secs (452.936 Secs)<br>[==>]  | [1]   |
|                                                                                                   | 8                                                                                       | F125W    | (27) ACO-2813                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |                         | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|                                                                                                   |                                                                                         |          |                                                                                     |                             |               |                                   |                              |                         |                                         |       |



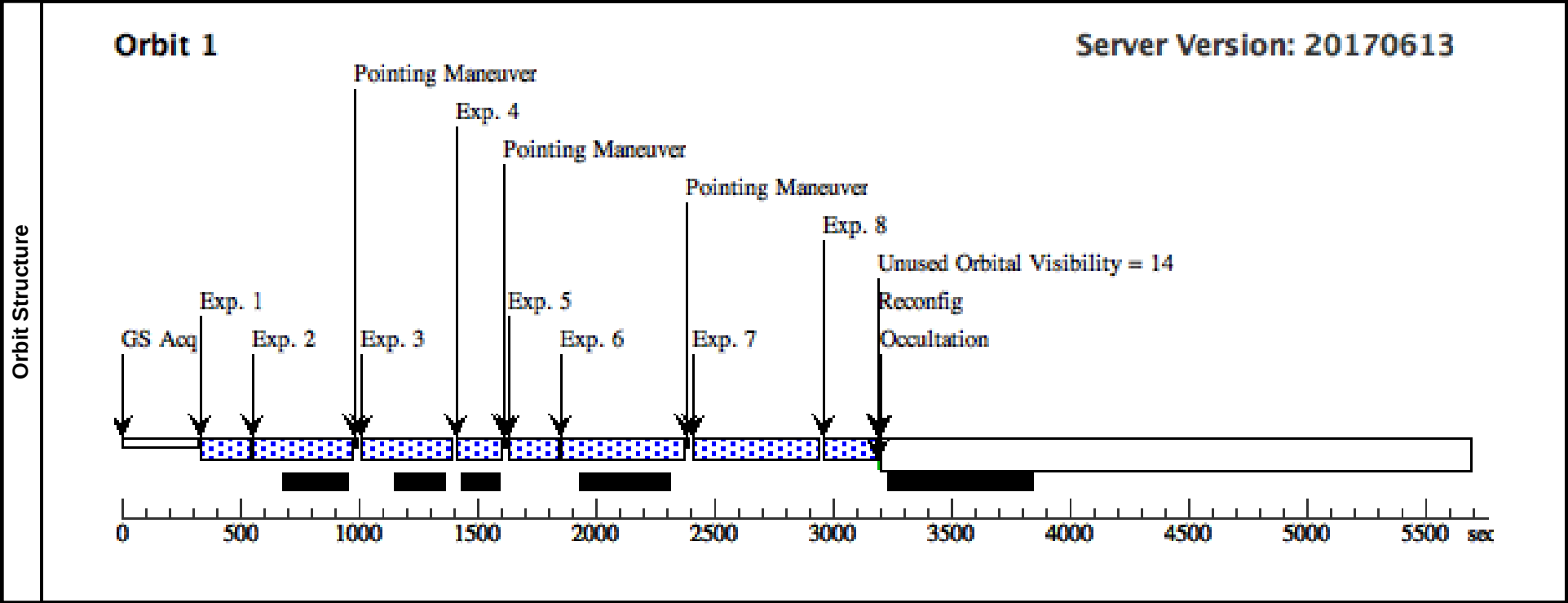
# Proposal 14096 - 27 ACO-2813 ACS2 (43) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |          |                                                                                     |                             |                          |                                   |                            |                                                     |                                         |  |                              |
|---------------|---------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|-----------------------------|--------------------------|-----------------------------------|----------------------------|-----------------------------------------------------|-----------------------------------------|--|------------------------------|
| Visit         | Proposal 14096, 27 ACO-2813 ACS2 (43), completed                                                  |          |                                                                                     |                             |                          |                                   |                            |                                                     |                                         |  | Mon Aug 07 18:08:13 GMT 2017 |
|               | Diagnostic Status: Warning                                                                        |          |                                                                                     |                             |                          |                                   |                            |                                                     |                                         |  |                              |
|               | Scientific Instruments: WFC3/IR, ACS/WFC                                                          |          |                                                                                     |                             |                          |                                   |                            |                                                     |                                         |  |                              |
|               | Special Requirements: SCHED 40%; SAME ORIENT AS 41; AFTER 41 BY 40 D TO 60 D                      |          |                                                                                     |                             |                          |                                   |                            |                                                     |                                         |  |                              |
| Diagnostics   | (27 ACO-2813 ACS2 (43)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                       |          |                                                                                     |                             |                          |                                   |                            |                                                     |                                         |  |                              |
| Fixed Targets | #                                                                                                 | Name     | Target Coordinates                                                                  |                             | Targ. Coord. Corrections |                                   | Fluxes                     |                                                     | Miscellaneous                           |  |                              |
|               | (27)                                                                                              | ACO-2813 | RA: 00 43 25.1370 (10.8547375d)<br>Dec: -20 37 14.80 (-20.62078d)<br>Equinox: J2000 |                             |                          |                                   | V=18                       |                                                     | Reference Frame: SIMBAD                 |  |                              |
|               |                                                                                                   |          |                                                                                     |                             |                          |                                   |                            |                                                     |                                         |  |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |          |                                                                                     |                             |                          |                                   |                            |                                                     |                                         |  |                              |
| Exposures     | #                                                                                                 | Label    | Target                                                                              | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.                      | Special Reqs.              | Groups                                              | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |
|               | 1                                                                                                 |          | (27) ACO-2813                                                                       | ACS/WFC, ACCUM, WFCENTER    | F606W                    |                                   |                            | Prime + Parallel Group 1-2 in 27 ACO-2813 ACS2 (43) | 479 Secs (479 Secs)<br>[==>]            |  | [1]                          |
|               | 2                                                                                                 |          | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Group 1-2 in 27 ACO-2813 ACS2 (43) | 652.938154 Secs (652.938 Secs)<br>[==>] |  | [1]                          |
|               | 3                                                                                                 |          | (27) ACO-2813                                                                       | ACS/WFC, ACCUM, WFCENTER    | F606W                    |                                   | POS TARG 0.0741,2<br>.970  | Prime + Parallel Group 3-4 in 27 ACO-2813 ACS2 (43) | 607 Secs (607 Secs)<br>[==>]            |  | [1]                          |
|               | 4                                                                                                 |          | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Group 3-4 in 27 ACO-2813 ACS2 (43) | 702.938605 Secs (702.939 Secs)<br>[==>] |  | [1]                          |
|               | 5                                                                                                 |          | (27) ACO-2813                                                                       | ACS/WFC, ACCUM, WFCENTER    | F606W                    |                                   | POS TARG 0.1976,5<br>.9687 | Prime + Parallel Group 5-6 in 27 ACO-2813 ACS2 (43) | 607 Secs (607 Secs)<br>[==>]            |  | [1]                          |
|               | 6                                                                                                 |          | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=15;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Group 5-6 in 27 ACO-2813 ACS2 (43) | 702.938605 Secs (702.939 Secs)<br>[==>] |  | [1]                          |
|               | 7                                                                                                 |          | (27) ACO-2813                                                                       | ACS/WFC, ACCUM, WFCENTER    | F606W                    |                                   | POS TARG 0.2717,8<br>.9367 | Prime + Parallel Group 7-8 in 27 ACO-2813 ACS2 (43) | 478 Secs (478 Secs)<br>[==>]            |  | [1]                          |
|               | 8                                                                                                 |          | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 |                            | Prime + Parallel Group 7-8 in 27 ACO-2813 ACS2 (43) | 552.937252 Secs (552.937 Secs)<br>[==>] |  | [1]                          |
|               |                                                                                                   |          |                                                                                     |                             |                          |                                   |                            |                                                     |                                         |  |                              |
|               |                                                                                                   |          |                                                                                     |                             |                          |                                   |                            |                                                     |                                         |  |                              |
|               |                                                                                                   |          |                                                                                     |                             |                          |                                   |                            |                                                     |                                         |  |                              |
|               |                                                                                                   |          |                                                                                     |                             |                          |                                   |                            |                                                     |                                         |  |                              |
|               |                                                                                                   |          |                                                                                     |                             |                          |                                   |                            |                                                     |                                         |  |                              |
|               |                                                                                                   |          |                                                                                     |                             |                          |                                   |                            |                                                     |                                         |  |                              |



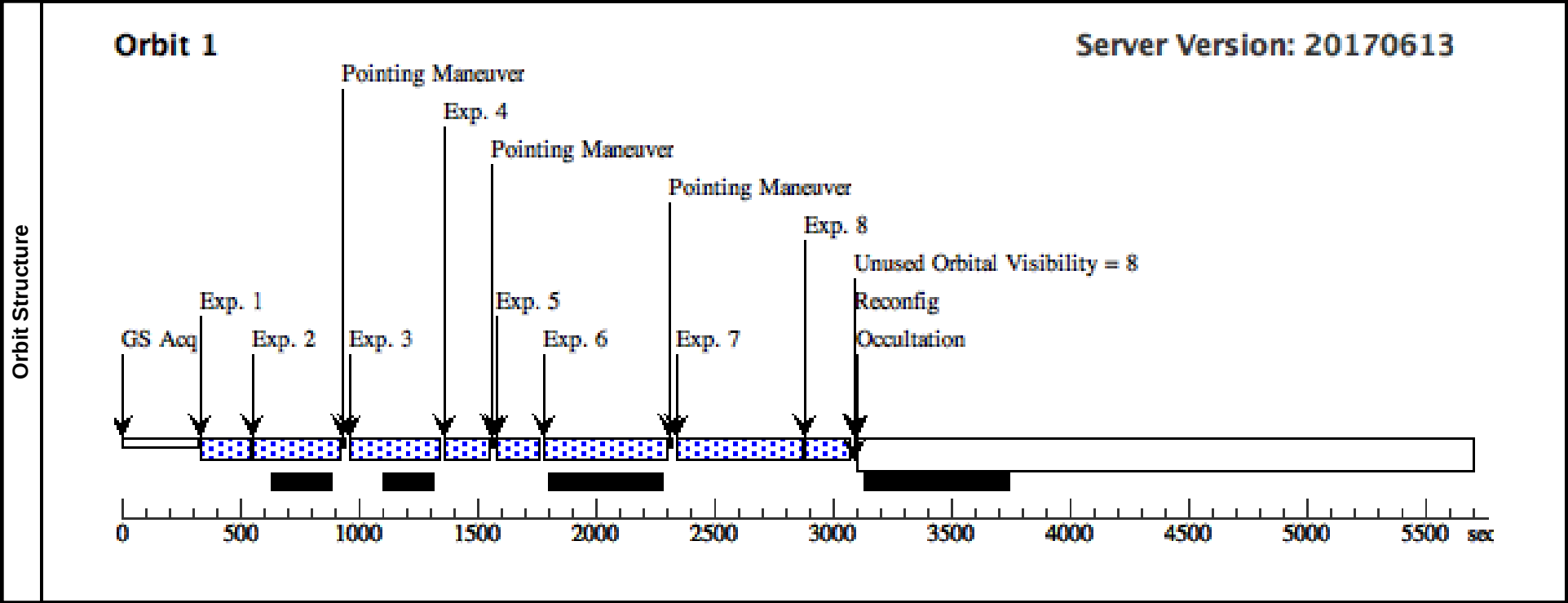
# Proposal 14096 - 27 ACO-2813 IR2 (44) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                                                                                       |          |                                                                                                                                                                                                 |                             |               |                                   |                              |        |                                         |       |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------|--------|-----------------------------------------|-------|
| Visit         | <b>Proposal 14096, 27 ACO-2813 IR2 (44), completed</b> <span>Mon Aug 07 18:08:13 GMT 2017</span>                                                                      |          |                                                                                                                                                                                                 |                             |               |                                   |                              |        |                                         |       |
|               | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 40%; SAME ORIENT AS 41; AFTER 43 BY 1 Orbits TO 1.1 Orbits |          |                                                                                                                                                                                                 |                             |               |                                   |                              |        |                                         |       |
| Fixed Targets | #                                                                                                                                                                     | Name     | Target Coordinates                                                                                                                                                                              | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                     |                              |        |                                         |       |
|               | (27)                                                                                                                                                                  | ACO-2813 | RA: 00 43 25.1370 (10.8547375d)<br>Dec: -20 37 14.80 (-20.62078d)<br>Equinox: J2000<br><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> |                             | V=18          | Reference Frame: SIMBAD           |                              |        |                                         |       |
| Exposures     | #                                                                                                                                                                     | Label    | Target                                                                                                                                                                                          | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                                                     | F140W    | (27) ACO-2813                                                                                                                                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                                                                                     | F105W    | (27) ACO-2813                                                                                                                                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 402.935899 Secs (402.936 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                                                     | F105W    | (27) ACO-2813                                                                                                                                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,<br>0.6055  |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                                                                                     | F140W    | (27) ACO-2813                                                                                                                                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                                                     | F125W    | (27) ACO-2813                                                                                                                                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0                 |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                                                                                     | F160W    | (27) ACO-2813                                                                                                                                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                                                                                     | F160W    | (27) ACO-2813                                                                                                                                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,<br>0.30275 |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                                                                                     | F125W    | (27) ACO-2813                                                                                                                                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |



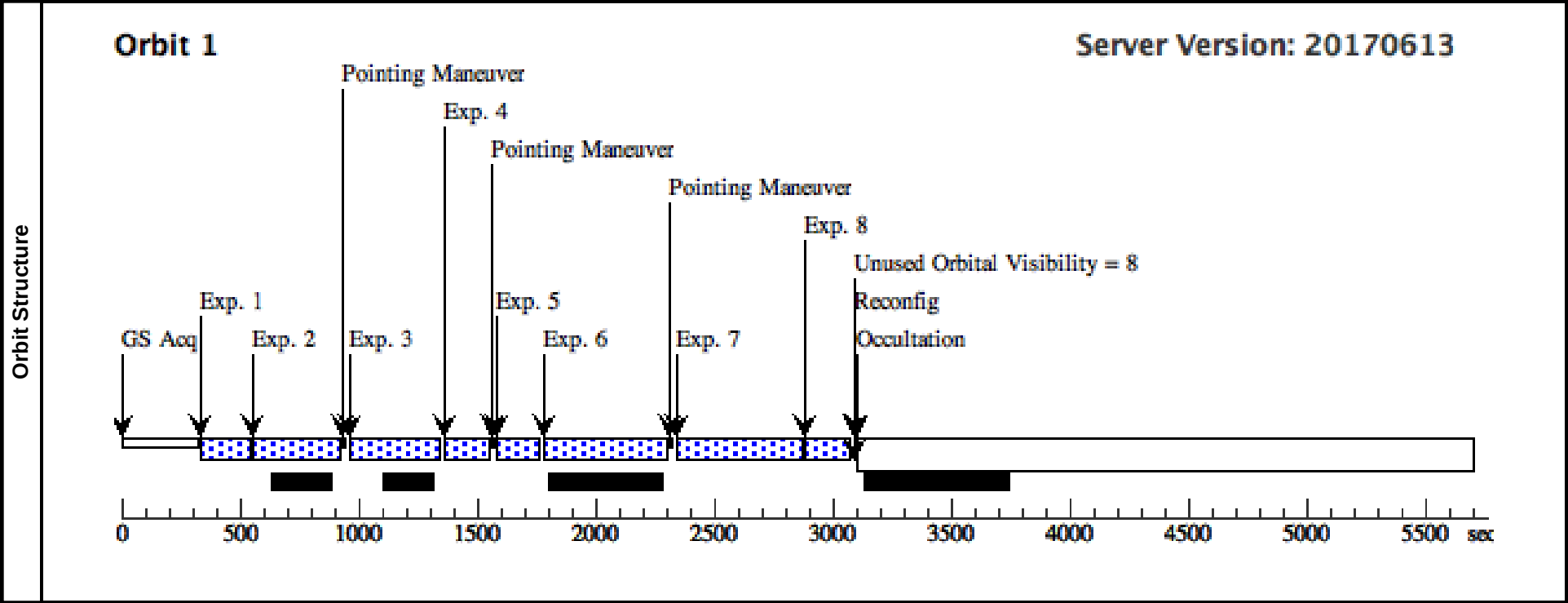
# Proposal 14096 - 28 ACO-520-NE IR1 (52) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |            |                                                                                   |                             |                          |                                   |                              |        |                                         |  |                              |
|---------------|---------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------|-----------------------------|--------------------------|-----------------------------------|------------------------------|--------|-----------------------------------------|--|------------------------------|
| Visit         | Proposal 14096, 28 ACO-520-NE IR1 (52), completed                                                 |            |                                                                                   |                             |                          |                                   |                              |        |                                         |  | Mon Aug 07 18:08:13 GMT 2017 |
|               | Diagnostic Status: No Diagnostics                                                                 |            |                                                                                   |                             |                          |                                   |                              |        |                                         |  |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |            |                                                                                   |                             |                          |                                   |                              |        |                                         |  |                              |
|               | Special Requirements: SCHED 70%; ORIENT 280D TO 280 D                                             |            |                                                                                   |                             |                          |                                   |                              |        |                                         |  |                              |
| Fixed Targets | #                                                                                                 | Name       | Target Coordinates                                                                |                             | Targ. Coord. Corrections |                                   | Fluxes                       |        | Miscellaneous                           |  |                              |
|               | (281)                                                                                             | ACO-520-NE | RA: 04 54 19.0000 (73.5791667d)<br>Dec: +02 56 49.00 (2.94694d)<br>Equinox: J2000 |                             |                          |                                   | V=18                         |        | Reference Frame: SIMBAD                 |  |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |            |                                                                                   |                             |                          |                                   |                              |        |                                         |  |                              |
|               |                                                                                                   |            |                                                                                   |                             |                          |                                   |                              |        |                                         |  |                              |
| Exposures     | #                                                                                                 | Label      | Target                                                                            | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |
|               | 1                                                                                                 | F140W      | (281) ACO-520-NE                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                              |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|               | 2                                                                                                 | F105W      | (281) ACO-520-NE                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |
|               | 3                                                                                                 | F105W      | (281) ACO-520-NE                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |
|               | 4                                                                                                 | F140W      | (281) ACO-520-NE                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|               | 5                                                                                                 | F125W      | (281) ACO-520-NE                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |
|               | 6                                                                                                 | F160W      | (281) ACO-520-NE                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 502.936801 Secs (502.937 Secs)<br>[==>] |  | [1]                          |
|               | 7                                                                                                 | F160W      | (281) ACO-520-NE                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |        | 502.936801 Secs (502.937 Secs)<br>[==>] |  | [1]                          |
|               | 8                                                                                                 | F125W      | (281) ACO-520-NE                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |



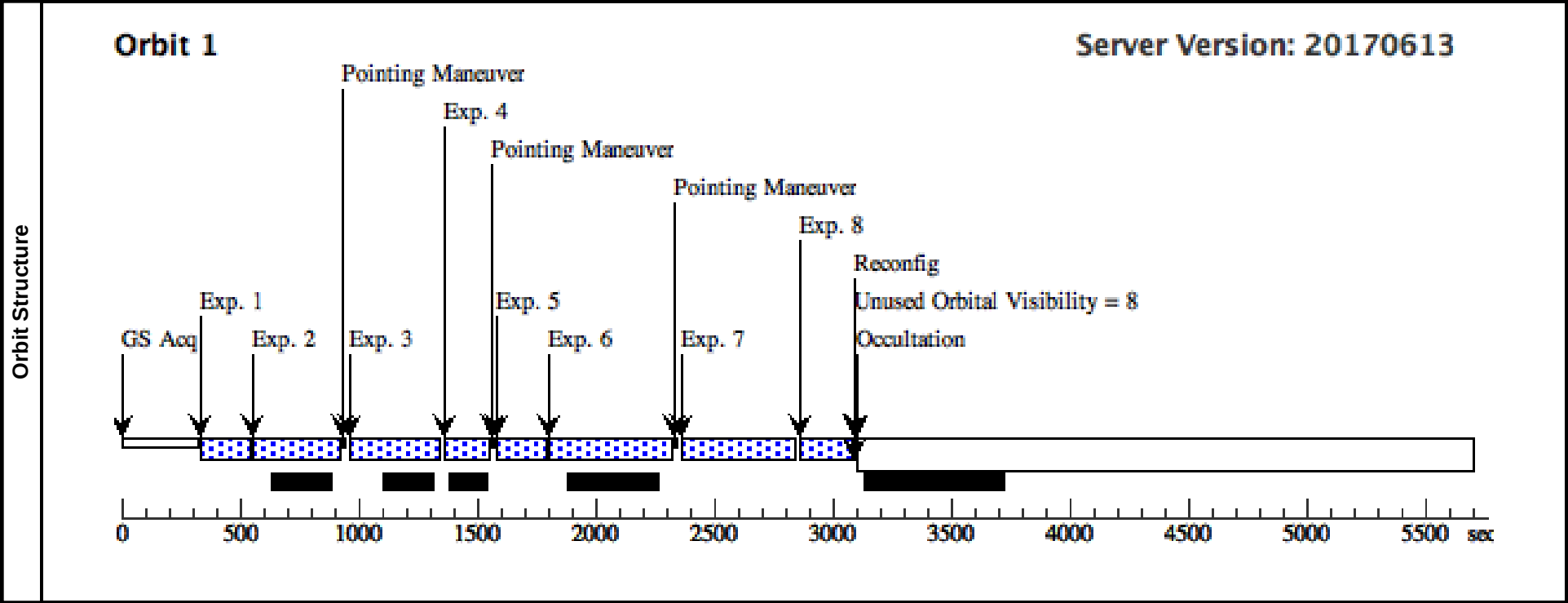
# Proposal 14096 - 28 ACO-520-SW IR1 (62) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |            |                                                                                  |                             |  |                          |                                   |                                |        |                                 |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------|-----------------------------|--|--------------------------|-----------------------------------|--------------------------------|--------|---------------------------------|-----------------------------------------|-------|
| Visit         | Proposal 14096, 28 ACO-520-SW IR1 (62), completed                                                 |            |                                                                                  |                             |  |                          |                                   |                                |        |                                 | Mon Aug 07 18:08:13 GMT 2017            |       |
|               | Diagnostic Status: No Diagnostics                                                                 |            |                                                                                  |                             |  |                          |                                   |                                |        |                                 |                                         |       |
|               | Scientific Instruments: WFC3/IR                                                                   |            |                                                                                  |                             |  |                          |                                   |                                |        |                                 |                                         |       |
|               | Special Requirements: SCHED 70%; SAME ORIENT AS 52; AFTER 52 BY 1 Orbits TO 1.1 Orbits            |            |                                                                                  |                             |  |                          |                                   |                                |        |                                 |                                         |       |
| Fixed Targets | #                                                                                                 | Name       | Target Coordinates                                                               |                             |  | Targ. Coord. Corrections |                                   | Fluxes                         |        | Miscellaneous                   |                                         |       |
|               | (282)                                                                                             | ACO-520-SW | RA: 04 54 4.2455 (73.5176896d)<br>Dec: +02 53 41.88 (2.89497d)<br>Equinox: J2000 |                             |  |                          |                                   | V=18                           |        | Reference Frame: SIMBAD         |                                         |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |            |                                                                                  |                             |  |                          |                                   |                                |        |                                 |                                         |       |
|               |                                                                                                   |            |                                                                                  |                             |  |                          |                                   |                                |        |                                 |                                         |       |
| Exposures     | #                                                                                                 | Label      | Target                                                                           | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                      | Special Reqs.                  | Groups | Exp. Time (Total)/[Actual Dur.] |                                         | Orbit |
|               | 1                                                                                                 | F140W      | (282) ACO-520-SW                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                                |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                 | F105W      | (282) ACO-520-SW                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                  |        |                                 | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                 | F105W      | (282) ACO-520-SW                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG -6.8427<br>5,-0.30275 |        |                                 | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                 | F140W      | (282) ACO-520-SW                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                  |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                 | F125W      | (282) ACO-520-SW                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -7.317,-<br>0.90825   |        |                                 | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                 | F160W      | (282) ACO-520-SW                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                  |        |                                 | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                 | F160W      | (282) ACO-520-SW                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG -0.4742<br>5,-0.6055  |        |                                 | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                 | F125W      | (282) ACO-520-SW                                                                 | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                  |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |



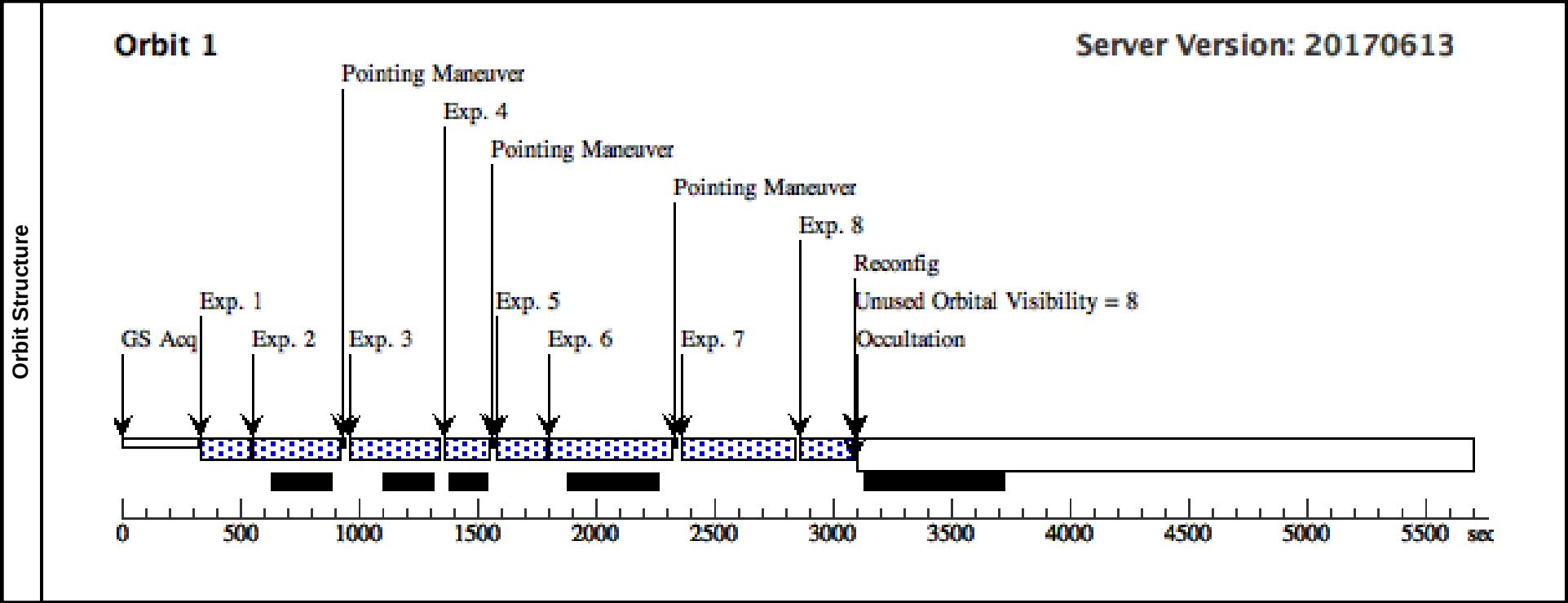
# Proposal 14096 - 28 ACO-520-NE IR2 (54) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |            |                                                                                   |                             |               |                                   |                          |        |                                         |                         |                              |
|---------------|---------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|--------------------------|--------|-----------------------------------------|-------------------------|------------------------------|
| Visit         | Proposal 14096, 28 ACO-520-NE IR2 (54), completed                                                 |            |                                                                                   |                             |               |                                   |                          |        |                                         |                         | Mon Aug 07 18:08:13 GMT 2017 |
|               | Diagnostic Status: No Diagnostics                                                                 |            |                                                                                   |                             |               |                                   |                          |        |                                         |                         |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |            |                                                                                   |                             |               |                                   |                          |        |                                         |                         |                              |
|               | Special Requirements: SCHED 70%; SAME ORIENT AS 52; AFTER 52 BY 40 D TO 60 D                      |            |                                                                                   |                             |               |                                   |                          |        |                                         |                         |                              |
| Fixed Targets | #                                                                                                 | Name       | Target Coordinates                                                                |                             |               | Targ. Coord. Corrections          |                          | Fluxes |                                         | Miscellaneous           |                              |
|               | (281)                                                                                             | ACO-520-NE | RA: 04 54 19.0000 (73.5791667d)<br>Dec: +02 56 49.00 (2.94694d)<br>Equinox: J2000 |                             |               |                                   |                          | V=18   |                                         | Reference Frame: SIMBAD |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |            |                                                                                   |                             |               |                                   |                          |        |                                         |                         |                              |
|               |                                                                                                   |            |                                                                                   |                             |               |                                   |                          |        |                                         |                         |                              |
| Exposures     | #                                                                                                 | Label      | Target                                                                            | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.            | Groups | Exp. Time (Total)/[Actual Dur.]         |                         | Orbit                        |
|               | 1                                                                                                 | F140W      | (281) ACO-520-NE                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 2                                                                                                 | F105W      | (281) ACO-520-NE                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1            |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|               | 3                                                                                                 | F105W      | (281) ACO-520-NE                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,0.6055  |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|               | 4                                                                                                 | F140W      | (281) ACO-520-NE                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3            |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 5                                                                                                 | F125W      | (281) ACO-520-NE                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0             |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 6                                                                                                 | F160W      | (281) ACO-520-NE                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5            |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |
|               | 7                                                                                                 | F160W      | (281) ACO-520-NE                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,0.30275 |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |                         | [1]                          |
|               | 8                                                                                                 | F125W      | (281) ACO-520-NE                                                                  | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7            |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                         | [1]                          |



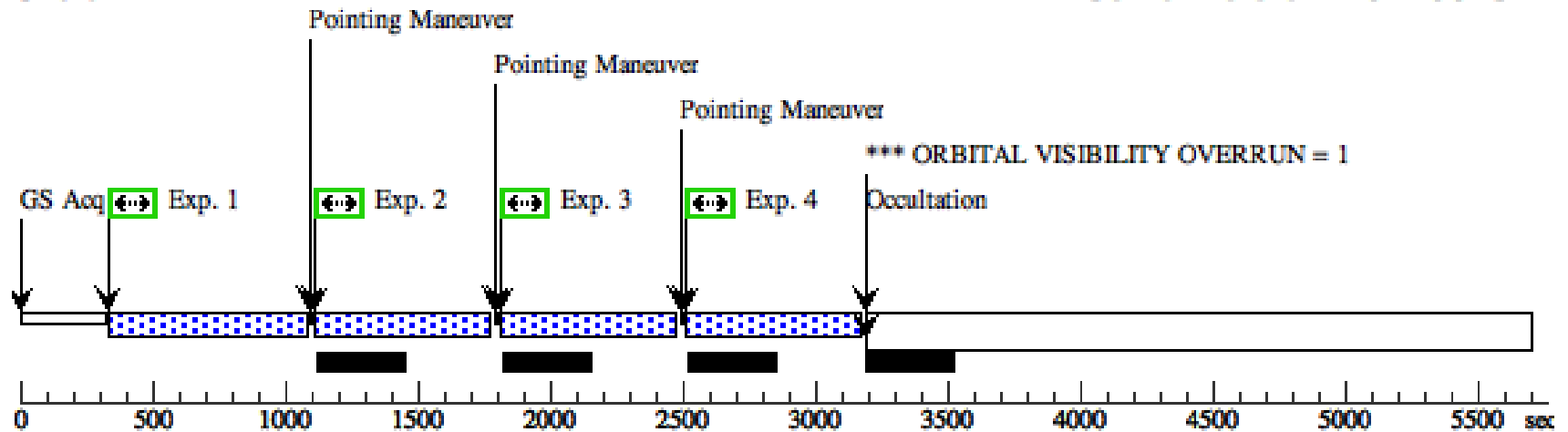
# Proposal 14096 - 28 ACO-520-SW IR2 (64) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |            |                                                                                  |                             |               |                                   |                                |        |                                         |  |                              |
|---------------|---------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|--------------------------------|--------|-----------------------------------------|--|------------------------------|
| Visit         | Proposal 14096, 28 ACO-520-SW IR2 (64), completed                                                 |            |                                                                                  |                             |               |                                   |                                |        |                                         |  | Mon Aug 07 18:08:13 GMT 2017 |
|               | Diagnostic Status: No Diagnostics                                                                 |            |                                                                                  |                             |               |                                   |                                |        |                                         |  |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |            |                                                                                  |                             |               |                                   |                                |        |                                         |  |                              |
|               | Special Requirements: SCHED 70%; SAME ORIENT AS 62; AFTER 54 BY 1 Orbits TO 1.1 Orbits            |            |                                                                                  |                             |               |                                   |                                |        |                                         |  |                              |
| Fixed Targets | #                                                                                                 | Name       | Target Coordinates                                                               |                             |               | Targ. Coord. Corrections          |                                | Fluxes | Miscellaneous                           |  |                              |
|               | (282)                                                                                             | ACO-520-SW | RA: 04 54 4.2455 (73.5176896d)<br>Dec: +02 53 41.88 (2.89497d)<br>Equinox: J2000 |                             |               |                                   |                                | V=18   | Reference Frame: SIMBAD                 |  |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |            |                                                                                  |                             |               |                                   |                                |        |                                         |  |                              |
|               |                                                                                                   |            |                                                                                  |                             |               |                                   |                                |        |                                         |  |                              |
| Exposures     | #                                                                                                 | Label      | Target                                                                           | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                  | Groups | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |
|               | 1                                                                                                 | F140W      | (282) ACO-520-SW                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG -7.317,-<br>0.90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|               | 2                                                                                                 | F105W      | (282) ACO-520-SW                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                  |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |
|               | 3                                                                                                 | F105W      | (282) ACO-520-SW                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG -0.4742<br>5,-0.6055  |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |
|               | 4                                                                                                 | F140W      | (282) ACO-520-SW                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                  |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|               | 5                                                                                                 | F125W      | (282) ACO-520-SW                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0                   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|               | 6                                                                                                 | F160W      | (282) ACO-520-SW                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                  |        | 502.936801 Secs (502.937 Secs)<br>[==>] |  | [1]                          |
|               | 7                                                                                                 | F160W      | (282) ACO-520-SW                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG -6.4827<br>5,-0.30275 |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |  | [1]                          |
|               | 8                                                                                                 | F125W      | (282) ACO-520-SW                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                  |        | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |



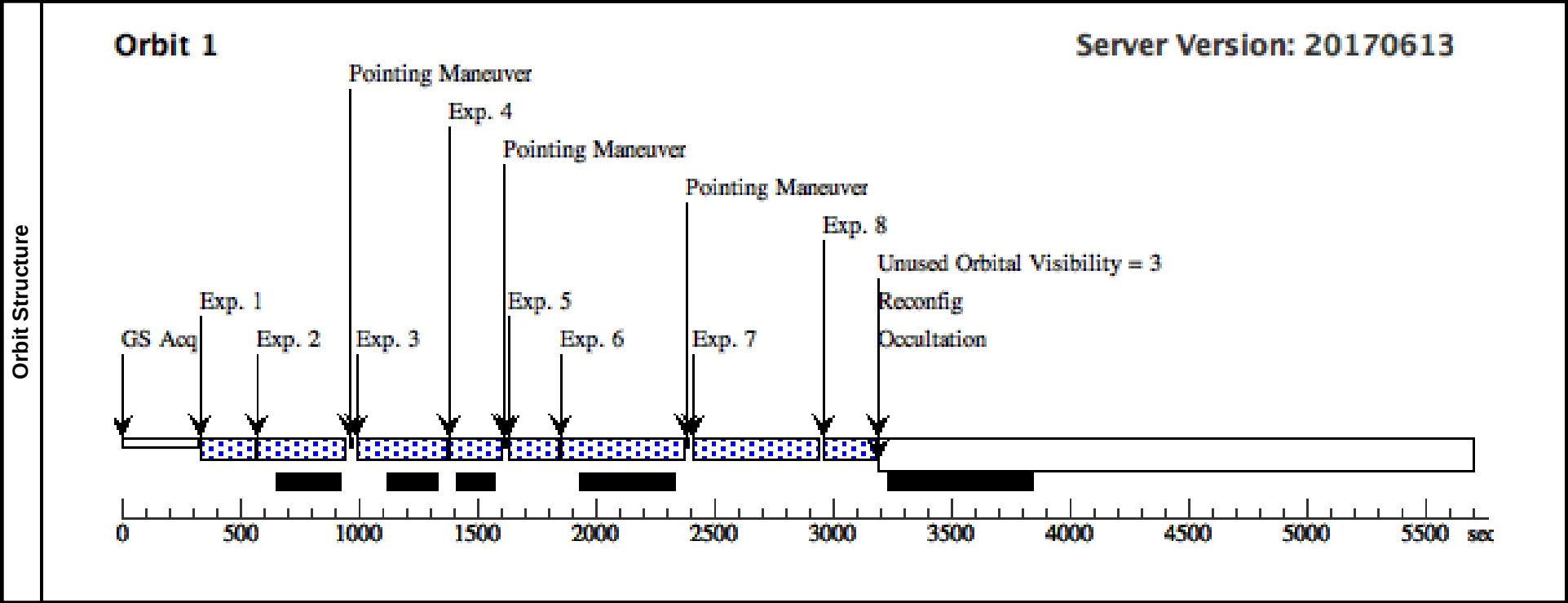
# Proposal 14096 - 29 RXCJ0032.1+1808 ACS1 (71) - RELICS: Reionization Lensing Cluster Survey

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---------------------------------------------------------------|--------------------------|---------------|--------------|------------------------------|--------|---------------------------------|-------|
| Visit           | Proposal 14096, 29 RXCJ0032.1+1808 ACS1 (71), completed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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                                                     |                          |               |              | Mon Aug 07 18:08:13 GMT 2017 |        |                                 |       |
|                 | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|                 | Scientific Instruments: ACS/WFC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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|                 | Special Requirements: SCHED 40%; ORIENT 235D TO 235 D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| Diagnostics     | (29 RXCJ0032.1+1808 ACS1 (71)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| Fixed Targets   | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                     | Targ. Coord. Corrections |               | Fluxes       | Miscellaneous                |        |                                 |       |
|                 | (29)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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(8.0460392d)<br>Dec: +18 07 49.03 (18.13029d)<br>Equinox: J2000 |                          |               | V=18         | Reference Frame: ICRS        |        |                                 |       |
| Exposures       | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                     | Config,Mode,Aperture     | Spectral Els. | Opt. Params. | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|                 | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                     | ACS/WFC, ACCUM, WFCENTER | F435W         |              | GS ACQ SCENARI<br>O BASE1B3  |        | 540 Secs (540 Secs)             |       |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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                                                     |                          |               |              |                              |        | [==>]                           | [1]   |
|                 | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                     | ACS/WFC, ACCUM, WFCENTER | F435W         |              | POS TARG 0.0741,2<br>.970    |        | 539 Secs (539 Secs)             |       |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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|                 | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                     | ACS/WFC, ACCUM, WFCENTER | F435W         |              | POS TARG 0.1976,5<br>.9687   |        | 539 Secs (539 Secs)             |       |
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                                                     | ACS/WFC, ACCUM, WFCENTER | F435W         |              | POS TARG 0.2717,8<br>.9367   |        | 539 Secs (539 Secs)             |       |
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| Orbit Structure | <div>Orbit 1<div>Server Version: 20170613</div><div><div><div>GS Acq</div><div>Exp. 1</div><div>Exp. 2</div><div>Exp. 3</div><div>Exp. 4</div><div>Occultation</div></div><div><div>Pointing Maneuver</div><div>Pointing Maneuver</div><div>Pointing Maneuver</div><div>*** ORBITAL VISIBILITY OVERRUN = 1</div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div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|                 |                                                                                   |                          |               |              |                              |        |                                 |       |



# Proposal 14096 - 29 RXCJ0032.1+1808 IR1 (72) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                                                                                       |                 |                                                                                   |                             |               |                                   |                              |        |                                         |       |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------|--------|-----------------------------------------|-------|
| Visit         | <b>Proposal 14096, 29 RXCJ0032.1+1808 IR1 (72), completed</b> <span>Mon Aug 07 18:08:13 GMT 2017</span>                                                               |                 |                                                                                   |                             |               |                                   |                              |        |                                         |       |
|               | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 40%; SAME ORIENT AS 71; AFTER 71 BY 1 Orbits TO 1.1 Orbits |                 |                                                                                   |                             |               |                                   |                              |        |                                         |       |
| Fixed Targets | #                                                                                                                                                                     | Name            | Target Coordinates                                                                | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                     |                              |        |                                         |       |
|               | (29)                                                                                                                                                                  | RXCJ0032.1+1808 | RA: 00 32 11.0494 (8.0460392d)<br>Dec: +18 07 49.03 (18.13029d)<br>Equinox: J2000 |                             | V=18          | Reference Frame: ICRS             |                              |        |                                         |       |
| Exposures     | #                                                                                                                                                                     | Label           | Target                                                                            | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                                                     | F140W           | (29) RXCJ0032.1+1808                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | GS ACQ SCENARI<br>O BASE1B3  |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                                                                                     | F105W           | (29) RXCJ0032.1+1808                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                                                     | F105W           | (29) RXCJ0032.1+1808                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                                                                                     | F140W           | (29) RXCJ0032.1+1808                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                                                     | F125W           | (29) RXCJ0032.1+1808                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                                                                                     | F160W           | (29) RXCJ0032.1+1808                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                                                                                     | F160W           | (29) RXCJ0032.1+1808                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                                                                                     | F125W           | (29) RXCJ0032.1+1808                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |

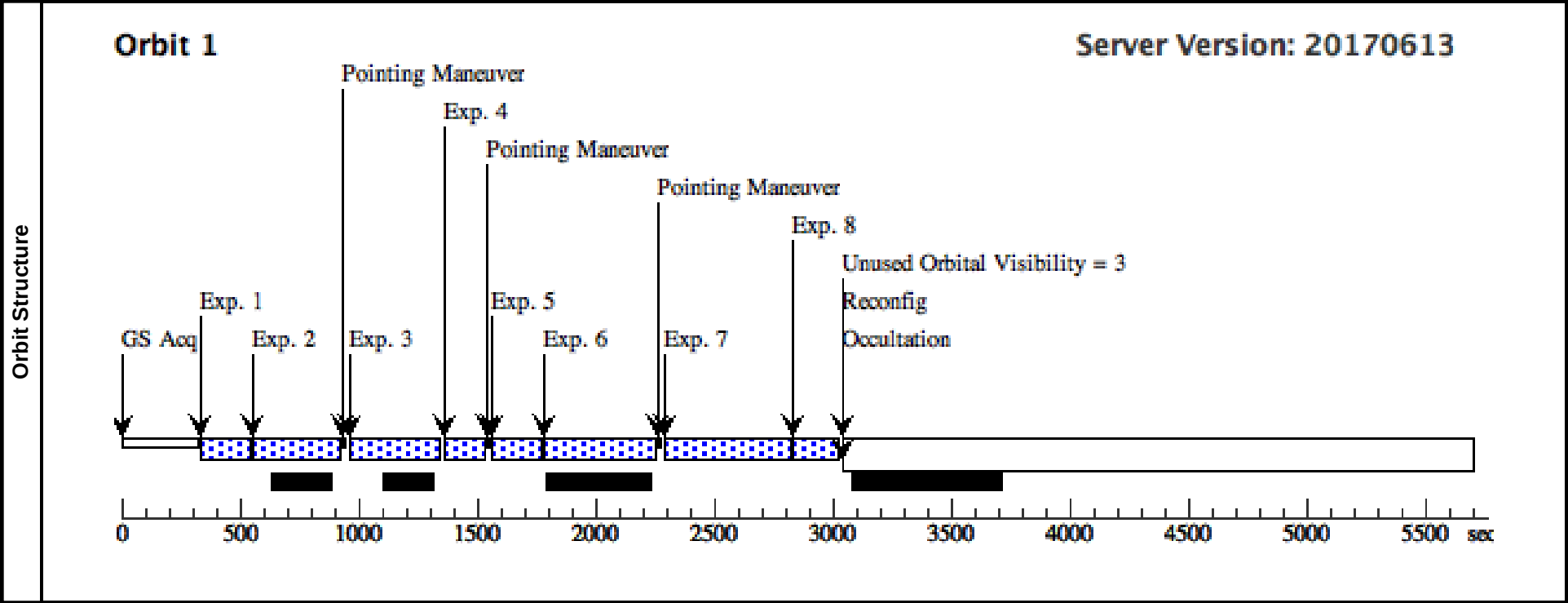


# Proposal 14096 - 29 RXCJ0032.1+1808 ACS2 (73) - RELICS: Reionization Lensing Cluster Survey

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |                                                                                   |                          |               |              |                              |        |                                 |       |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------|--------------------------|---------------|--------------|------------------------------|--------|---------------------------------|-------|
| Visit           | Proposal 14096, 29 RXCJ0032.1+1808 ACS2 (73), completed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                                                                                   |                          |               |              | Mon Aug 07 18:08:13 GMT 2017 |        |                                 |       |
|                 | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |                                                                                   |                          |               |              |                              |        |                                 |       |
|                 | Scientific Instruments: ACS/WFC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |                                                                                   |                          |               |              |                              |        |                                 |       |
|                 | Special Requirements: SCHED 80%; SAME ORIENT AS 71; AFTER 71 BY 40 D TO 60 D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |                                                                                   |                          |               |              |                              |        |                                 |       |
| Diagnostics     | (29 RXCJ0032.1+1808 ACS2 (73)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |                                                                                   |                          |               |              |                              |        |                                 |       |
| Fixed Targets   | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Name            | Target Coordinates                                                                | Targ. Coord. Corrections |               | Fluxes       | Miscellaneous                |        |                                 |       |
|                 | (29)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RXCJ0032.1+1808 | RA: 00 32 11.0494 (8.0460392d)<br>Dec: +18 07 49.03 (18.13029d)<br>Equinox: J2000 |                          |               | V=18         | Reference Frame: ICRS        |        |                                 |       |
| Exposures       | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Label           | Target                                                                            | Config,Mode,Aperture     | Spectral Els. | Opt. Params. | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|                 | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 | (29) RXCJ0032.1+1808                                                              | ACS/WFC, ACCUM, WFCENTER | F606W         |              | GS ACQ SCENARI<br>O BASE1B3  |        | 488 Secs (488 Secs)             |       |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 | 808                                                                               |                          |               |              |                              |        | [==>]                           | [1]   |
|                 | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 | (29) RXCJ0032.1+1808                                                              | ACS/WFC, ACCUM, WFCENTER | F606W         |              | POS TARG 0.0741,2<br>.9947   |        | 489 Secs (489 Secs)             |       |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 | 808                                                                               |                          |               |              |                              |        | [==>]                           | [1]   |
|                 | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 | (29) RXCJ0032.1+1808                                                              | ACS/WFC, ACCUM, WFCENTER | F814W         |              | POS TARG 0.1976,5<br>.9687   |        | 488 Secs (488 Secs)             |       |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 | 808                                                                               |                          |               |              |                              |        | [==>]                           | [1]   |
|                 | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 | (29) RXCJ0032.1+1808                                                              | ACS/WFC, ACCUM, WFCENTER | F814W         |              | POS TARG 0.2717,8<br>.914    |        | 489 Secs (489 Secs)             |       |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 | 808                                                                               |                          |               |              |                              |        | [==>]                           | [1]   |
| Orbit Structure | <div><div>Orbit 1</div><div>Server Version: 20170613</div><p>Diagram Description: The diagram shows a horizontal timeline from 0 to 5500 seconds. Key events are marked with vertical arrows: 'GS Acq' at ~300s, 'Pointing Maneuver' at ~1000s, ~1700s, and ~2400s. Exposure periods are shown as green rectangles with a cross-hatch pattern, labeled 'Exp. 1' (~300-700s), 'Exp. 2' (~1000-1400s), 'Exp. 3' (~1700-2100s), and 'Exp. 4' (~2400-2800s). An 'Occultation' phase is indicated by a solid black bar from ~3000s to ~3300s. A note '*** ORBITAL VISIBILITY OVERRUN = 3' is placed above the occultation bar.</p></div> |                 |                                                                                   |                          |               |              |                              |        |                                 |       |

# Proposal 14096 - 29 RXCJ0032.1+1808 IR2 (74) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                                                                                       |                 |                                                                                   |                             |               |                                   |                                                        |        |                                         |       |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|--------------------------------------------------------|--------|-----------------------------------------|-------|
| Visit         | <b>Proposal 14096, 29 RXCJ0032.1+1808 IR2 (74), completed</b> <span>Mon Aug 07 18:08:13 GMT 2017</span>                                                               |                 |                                                                                   |                             |               |                                   |                                                        |        |                                         |       |
|               | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 80%; SAME ORIENT AS 71; AFTER 73 BY 1 Orbits TO 1.1 Orbits |                 |                                                                                   |                             |               |                                   |                                                        |        |                                         |       |
| Fixed Targets | #                                                                                                                                                                     | Name            | Target Coordinates                                                                | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                     |                                                        |        |                                         |       |
|               | (29)                                                                                                                                                                  | RXCJ0032.1+1808 | RA: 00 32 11.0494 (8.0460392d)<br>Dec: +18 07 49.03 (18.13029d)<br>Equinox: J2000 |                             | V=18          | Reference Frame: ICRS             |                                                        |        |                                         |       |
| Exposures     | #                                                                                                                                                                     | Label           | Target                                                                            | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                                          | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                                                     | F140W           | (29) RXCJ0032.1+1808                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.90825;<br>GS ACQ SCENARI<br>O BASE1B3 |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                                                                                     | F105W           | (29) RXCJ0032.1+1808                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                                          |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                                                     | F105W           | (29) RXCJ0032.1+1808                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,0.6055                                |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                                                                                     | F140W           | (29) RXCJ0032.1+1808                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                                          |        | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                                                     | F125W           | (29) RXCJ0032.1+1808                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0                                           |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                                                                                     | F160W           | (29) RXCJ0032.1+1808                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                                          |        | 452.93635 Secs (452.936 Secs)<br>[==>]  | [1]   |
|               | 7                                                                                                                                                                     | F160W           | (29) RXCJ0032.1+1808                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,0.30275                               |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                                                                                     | F125W           | (29) RXCJ0032.1+1808                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                                          |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |



# Proposal 14096 - 30 RXCJ0232.2-4420 ACS1 (81) - RELICS: Reionization Lensing Cluster Survey

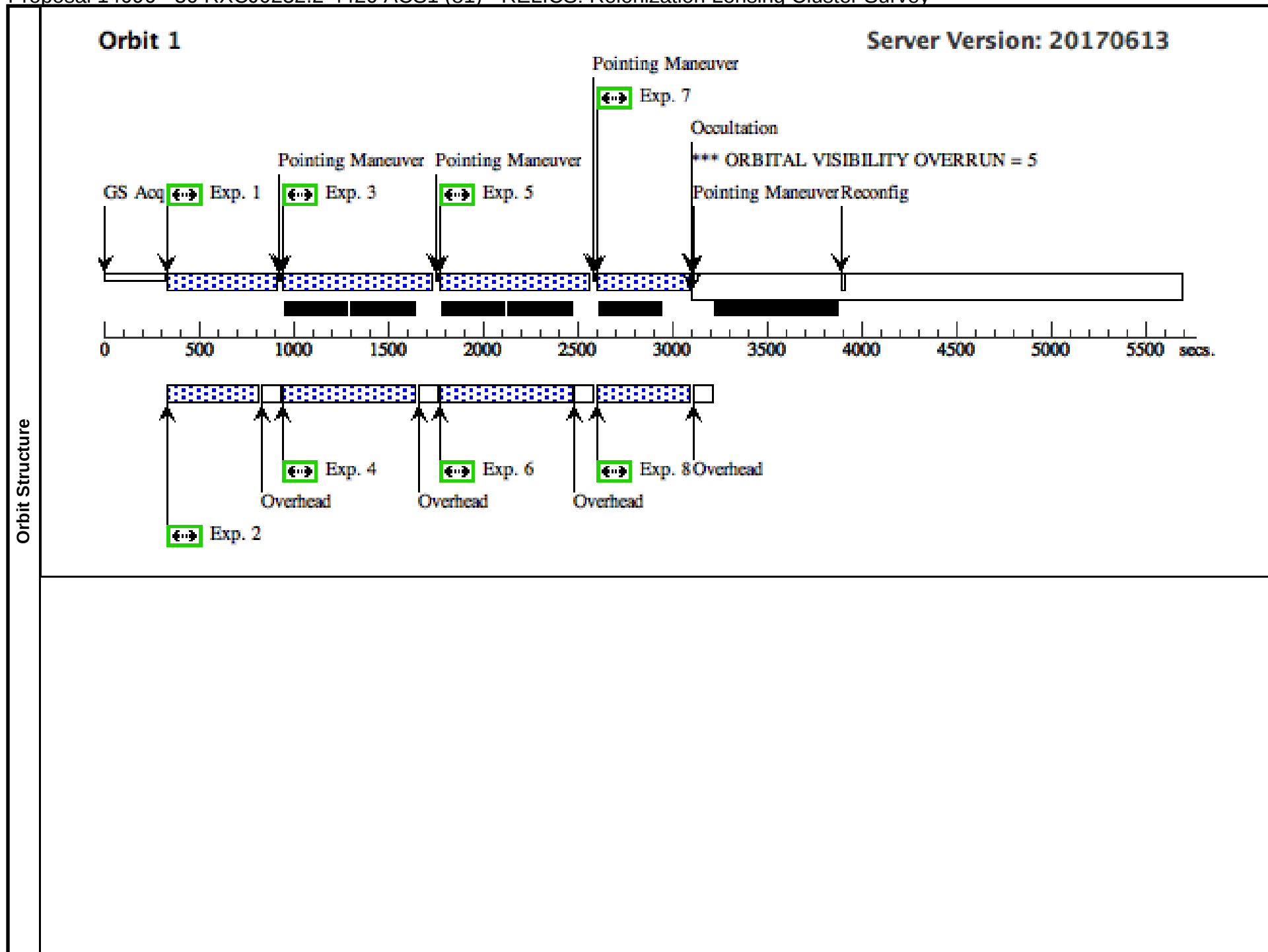
|                                                                                                   |                                                                                                                                                                          |                 |                                                                                     |                          |        |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|--------------------------|--------|
| Visit                                                                                             | <b>Proposal 14096, 30 RXCJ0232.2-4420 ACS1 (81), completed</b> <span>Mon Aug 07 18:08:13 GMT 2017</span>                                                                 |                 |                                                                                     |                          |        |
|                                                                                                   | <b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC<br>Special Requirements: SCHED 80%                                              |                 |                                                                                     |                          |        |
| Diagnostics                                                                                       | (30 RXCJ0232.2-4420 ACS1 (81)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(30 RXCJ0232.2-4420 ACS1 (81)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |                 |                                                                                     |                          |        |
|                                                                                                   |                                                                                                                                                                          |                 |                                                                                     |                          |        |
| Fixed Targets                                                                                     | #                                                                                                                                                                        | Name            | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes |
|                                                                                                   | (30)                                                                                                                                                                     | RXCJ0232.2-4420 | RA: 02 32 18.1219 (38.0755079d)<br>Dec: -44 20 44.89 (-44.34580d)<br>Equinox: J2000 |                          | V=18   |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                                                                                                          |                 |                                                                                     |                          |        |
|                                                                                                   |                                                                                                                                                                          |                 |                                                                                     |                          |        |

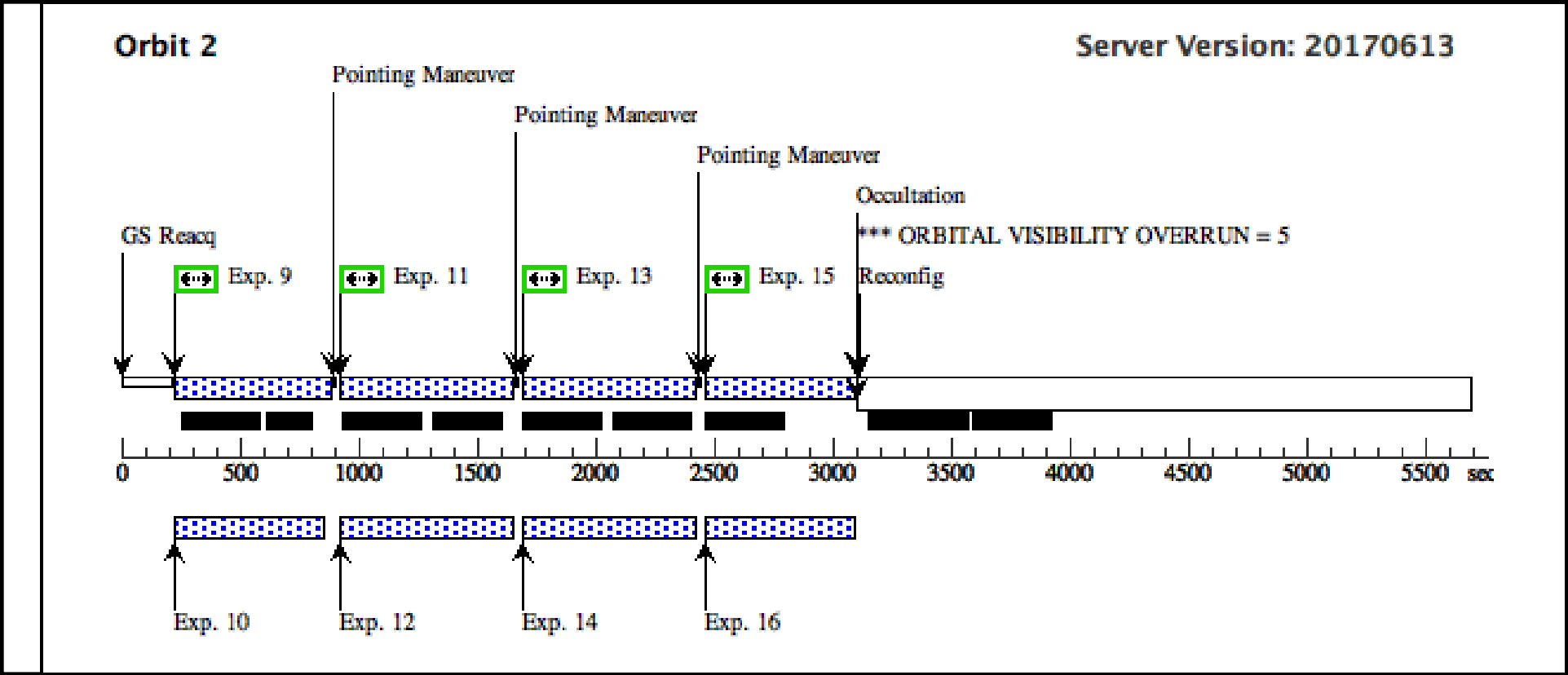
# Proposal 14096 - 30 RXCJ0232.2-4420 ACS1 (81) - RELICS: Reionization Lensing Cluster Survey

| Exposures | #  | Label | Target               | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.           | Groups                                                       | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|----|-------|----------------------|-----------------------------|---------------|--------------------------------|-------------------------|--------------------------------------------------------------|-----------------------------------------|-------|
|           | 1  |       | (30) RXCJ0232.2-4420 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                |                         | Prime + Parallel Group 1-2 in 30 RXCJ0232.2-4420 ACS1 (81)   | 370 Secs (370 Secs)<br>[==>]            | [1]   |
|           | 2  |       | ANY                  | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 1-2 in 30 RXCJ0232.2-4420 ACS1 (81)   | 454 Secs (454 Secs)<br>[==>]            | [1]   |
|           | 3  |       | (30) RXCJ0232.2-4420 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group 3-4 in 30 RXCJ0232.2-4420 ACS1 (81)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 4  |       | ANY                  | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 3-4 in 30 RXCJ0232.2-4420 ACS1 (81)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 5  |       | (30) RXCJ0232.2-4420 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 5-6 in 30 RXCJ0232.2-4420 ACS1 (81)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 6  |       | ANY                  | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 5-6 in 30 RXCJ0232.2-4420 ACS1 (81)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 7  |       | (30) RXCJ0232.2-4420 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 7-8 in 30 RXCJ0232.2-4420 ACS1 (81)   | 371 Secs (371 Secs)<br>[==>]            | [1]   |
|           | 8  |       | ANY                  | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 7-8 in 30 RXCJ0232.2-4420 ACS1 (81)   | 496 Secs (496 Secs)<br>[==>]            | [1]   |
|           | 9  |       | (30) RXCJ0232.2-4420 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                |                         | Prime + Parallel Group 9-10 in 30 RXCJ0232.2-4420 ACS1 (81)  | 516 Secs (516 Secs)<br>[==>]            | [2]   |
|           | 10 |       | ANY                  | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=13;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 9-10 in 30 RXCJ0232.2-4420 ACS1 (81)  | 602.937703 Secs (602.938 Secs)<br>[==>] | [2]   |
|           | 11 |       | (30) RXCJ0232.2-4420 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group 11-12 in 30 RXCJ0232.2-4420 ACS1 (81) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 12 |       | ANY                  | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 11-12 in 30 RXCJ0232.2-4420 ACS1 (81) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |
|           | 13 |       | (30) RXCJ0232.2-4420 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 13-14 in 30 RXCJ0232.2-4420 ACS1 (81) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 14 |       | ANY                  | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 13-14 in 30 RXCJ0232.2-4420 ACS1 (81) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |

# Proposal 14096 - 30 RXCJ0232.2-4420 ACS1 (81) - RELICS: Reionization Lensing Cluster Survey

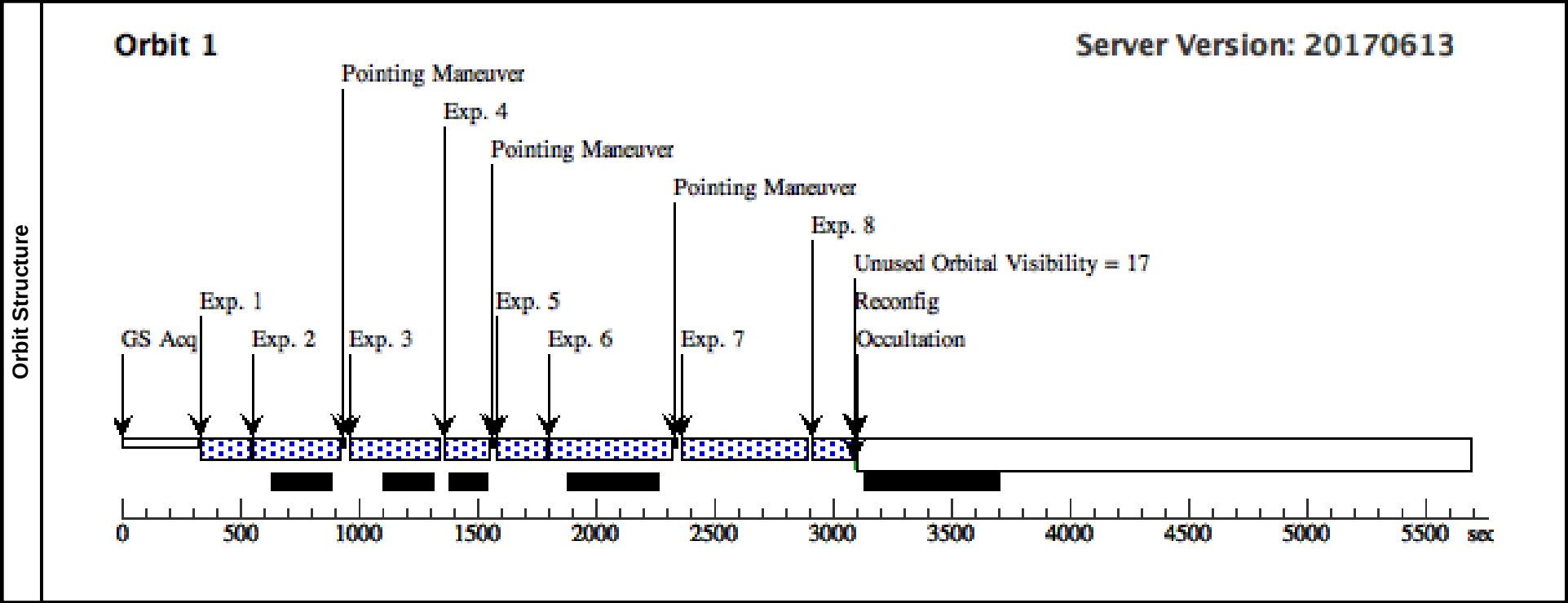
|  |    |                                                           |                                   |                                   |                                                                        |                                         |     |
|--|----|-----------------------------------------------------------|-----------------------------------|-----------------------------------|------------------------------------------------------------------------|-----------------------------------------|-----|
|  | 15 | (30) RXCJ0232.2-4420 ACS/WFC, ACCUM, WFCENTER F814W<br>20 |                                   | POS TARG 0.2717,8<br>.9367        | Prime + Parallel Group<br>up 15-16 in 30 RXCJ<br>0232.2-4420 ACS1 (81) | 516 Secs (516 Secs)<br>[==>]            | [2] |
|  | 16 | ANY                                                       | WFC3/IR, MULTIACCUM, IR-FIX F125W | NSAMP=13;<br>SAMP-SEQ=SPAR<br>S50 | Prime + Parallel Group<br>up 15-16 in 30 RXCJ<br>0232.2-4420 ACS1 (81) | 602.937703 Secs (602.938 Secs)<br>[==>] | [2] |





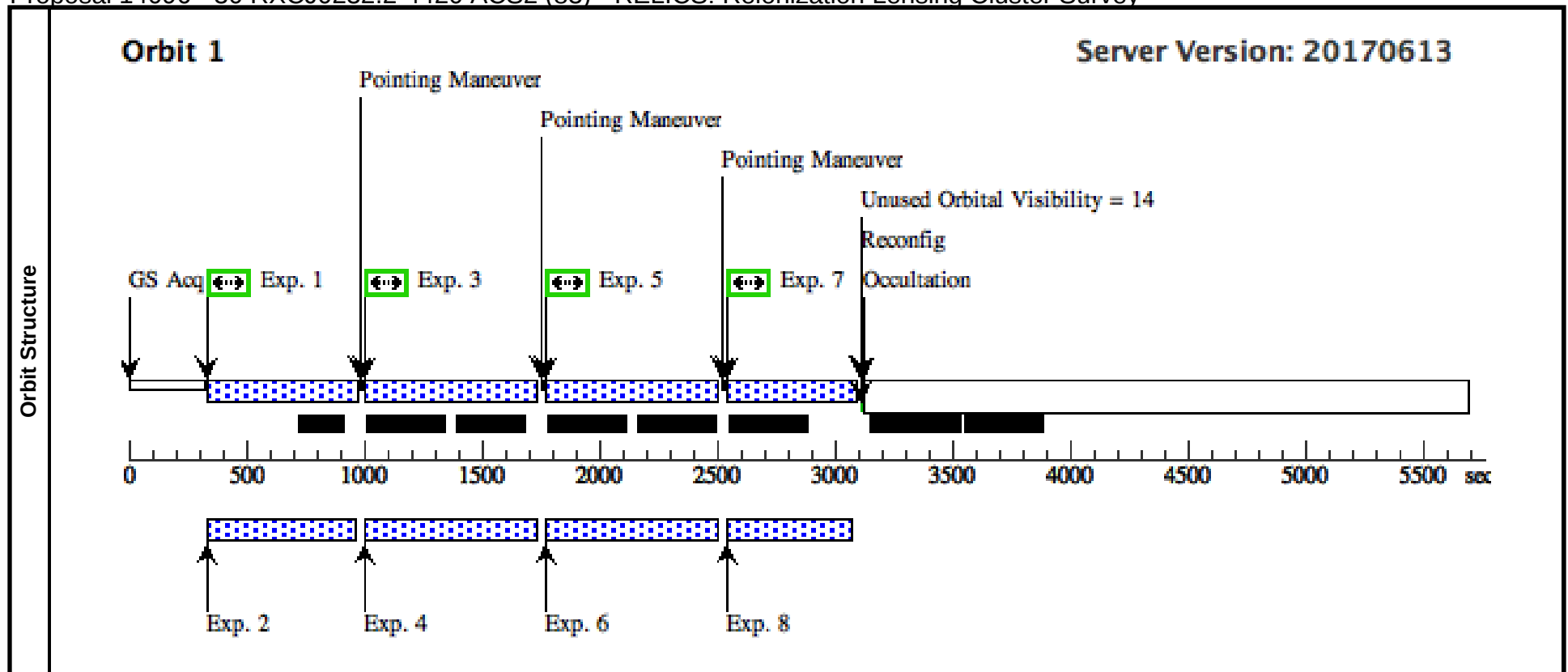
# Proposal 14096 - 30 RXCJ0232.2-4420 IR1 (82) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                 |                                                                                     |                             |  |                          |                                   |                              |        |                                 |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|-----------------------------|--|--------------------------|-----------------------------------|------------------------------|--------|---------------------------------|-----------------------------------------|-------|
| Visit         | Proposal 14096, 30 RXCJ0232.2-4420 IR1 (82), completed                                            |                 |                                                                                     |                             |  |                          |                                   |                              |        |                                 | Mon Aug 07 18:08:13 GMT 2017            |       |
|               | Diagnostic Status: No Diagnostics                                                                 |                 |                                                                                     |                             |  |                          |                                   |                              |        |                                 |                                         |       |
|               | Scientific Instruments: WFC3/IR                                                                   |                 |                                                                                     |                             |  |                          |                                   |                              |        |                                 |                                         |       |
|               | Special Requirements: SCHED 80%; SAME ORIENT AS 81; AFTER 81 BY 2 Orbits TO 2.1 Orbits            |                 |                                                                                     |                             |  |                          |                                   |                              |        |                                 |                                         |       |
| Fixed Targets | #                                                                                                 | Name            | Target Coordinates                                                                  |                             |  | Targ. Coord. Corrections |                                   | Fluxes                       |        | Miscellaneous                   |                                         |       |
|               | (30)                                                                                              | RXCJ0232.2-4420 | RA: 02 32 18.1219 (38.0755079d)<br>Dec: -44 20 44.89 (-44.34580d)<br>Equinox: J2000 |                             |  |                          |                                   | V=18                         |        | Reference Frame: SIMBAD         |                                         |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                 |                                                                                     |                             |  |                          |                                   |                              |        |                                 |                                         |       |
|               |                                                                                                   |                 |                                                                                     |                             |  |                          |                                   |                              |        |                                 |                                         |       |
| Exposures     | #                                                                                                 | Label           | Target                                                                              | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.] |                                         | Orbit |
|               | 1                                                                                                 | F140W           | (30) RXCJ0232.2-4420                                                                | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                              |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                 | F105W           | (30) RXCJ0232.2-4420                                                                | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        |                                 | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                 | F105W           | (30) RXCJ0232.2-4420                                                                | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |        |                                 | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                 | F140W           | (30) RXCJ0232.2-4420                                                                | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                 | F125W           | (30) RXCJ0232.2-4420                                                                | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                 | F160W           | (30) RXCJ0232.2-4420                                                                | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        |                                 | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                 | F160W           | (30) RXCJ0232.2-4420                                                                | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |        |                                 | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                 | F125W           | (30) RXCJ0232.2-4420                                                                | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        |                                 | 152.935381 Secs (152.935 Secs)<br>[==>] | [1]   |



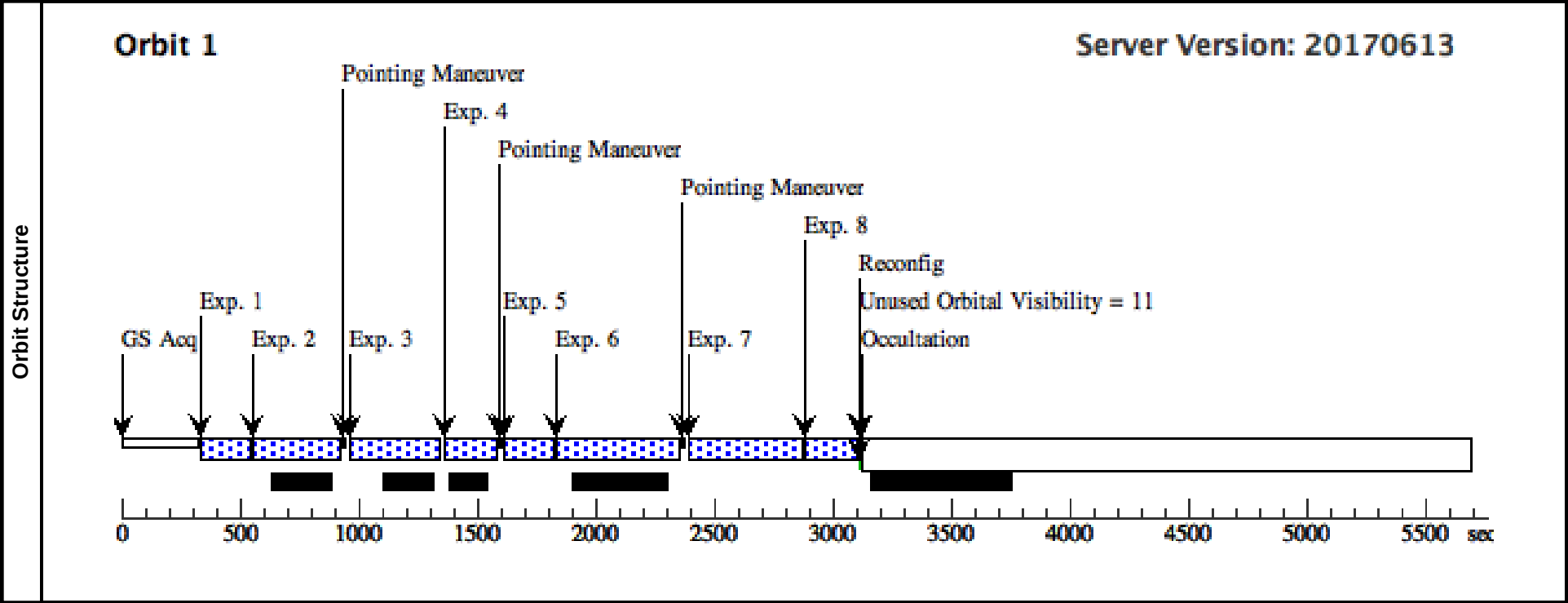
# Proposal 14096 - 30 RXCJ0232.2-4420 ACS2 (83) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                 |                                                                                     |                             |               |                                |                         |                                                            |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|-------------------------|------------------------------------------------------------|-----------------------------------------|-------|
| Visit         | Proposal 14096, 30 RXCJ0232.2-4420 ACS2 (83), completed                                           |                 |                                                                                     |                             |               |                                |                         |                                                            | Mon Aug 07 18:08:13 GMT 2017            |       |
|               | Diagnostic Status: No Diagnostics                                                                 |                 |                                                                                     |                             |               |                                |                         |                                                            |                                         |       |
|               | Scientific Instruments: WFC3/IR, ACS/WFC                                                          |                 |                                                                                     |                             |               |                                |                         |                                                            |                                         |       |
|               | Special Requirements: SCHED 70%; SAME ORIENT AS 81; AFTER 81 BY 40 D TO 60 D                      |                 |                                                                                     |                             |               |                                |                         |                                                            |                                         |       |
| Fixed Targets | #                                                                                                 | Name            | Target Coordinates                                                                  | Targ. Coord. Corrections    |               | Fluxes                         |                         | Miscellaneous                                              |                                         |       |
|               | (30)                                                                                              | RXCJ0232.2-4420 | RA: 02 32 18.1219 (38.0755079d)<br>Dec: -44 20 44.89 (-44.34580d)<br>Equinox: J2000 |                             |               | V=18                           |                         | Reference Frame: SIMBAD                                    |                                         |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                 |                                                                                     |                             |               |                                |                         |                                                            |                                         |       |
|               |                                                                                                   |                 |                                                                                     |                             |               |                                |                         |                                                            |                                         |       |
| Exposures     | #                                                                                                 | Label           | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.           | Groups                                                     | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                 |                 | (30) RXCJ0232.2-4420                                                                | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                |                         | Prime + Parallel Group 1-2 in 30 RXCJ0232.2-4420 ACS2 (83) | 431 Secs (431 Secs)<br>[==>]            | [1]   |
|               | 2                                                                                                 |                 | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=13;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 1-2 in 30 RXCJ0232.2-4420 ACS2 (83) | 602.937703 Secs (602.938 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                 |                 | (30) RXCJ0232.2-4420                                                                | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group 3-4 in 30 RXCJ0232.2-4420 ACS2 (83) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 4                                                                                                 |                 | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 3-4 in 30 RXCJ0232.2-4420 ACS2 (83) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                 |                 | (30) RXCJ0232.2-4420                                                                | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 5-6 in 30 RXCJ0232.2-4420 ACS2 (83) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 6                                                                                                 |                 | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 5-6 in 30 RXCJ0232.2-4420 ACS2 (83) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                 |                 | (30) RXCJ0232.2-4420                                                                | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 7-8 in 30 RXCJ0232.2-4420 ACS2 (83) | 430 Secs (430 Secs)<br>[==>]            | [1]   |
|               | 8                                                                                                 |                 | ANY                                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=11;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 7-8 in 30 RXCJ0232.2-4420 ACS2 (83) | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |



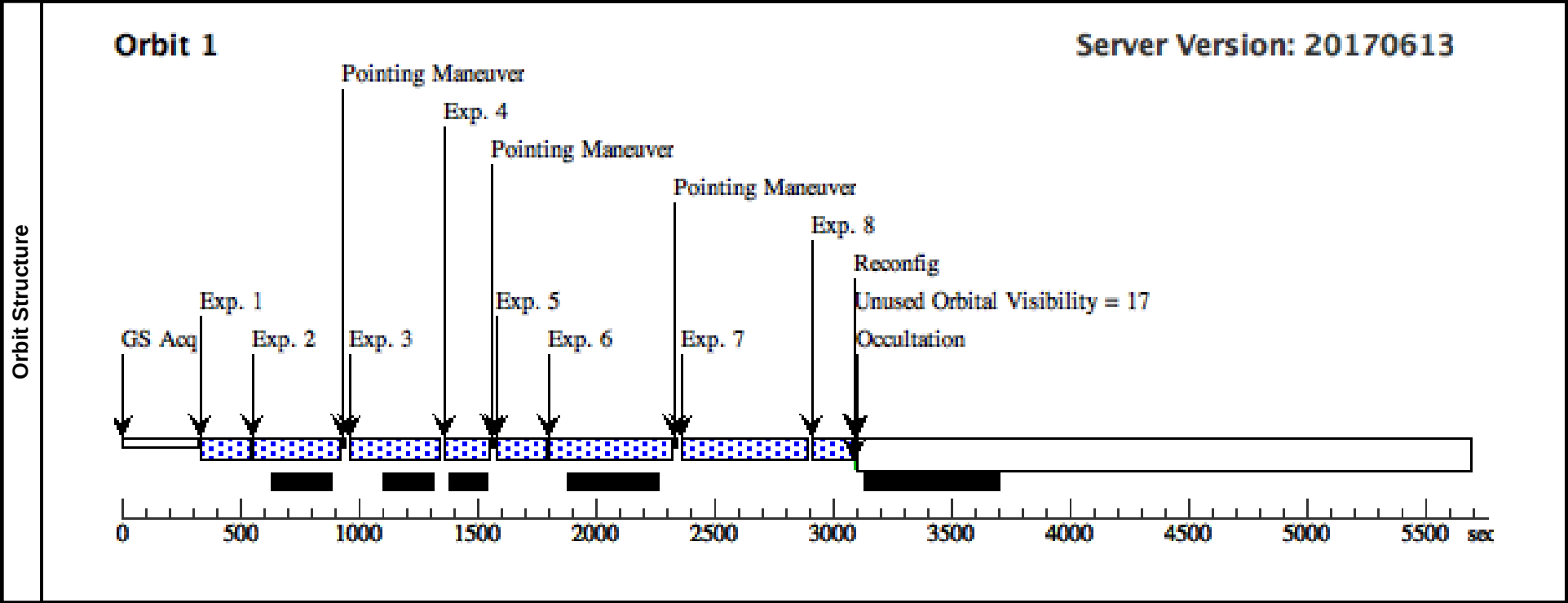
# Proposal 14096 - 30 RXCJ0232.2-4420 IR2 (84) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                                                                                       |                 |                                                                                                                                                                                                 |                             |               |                                   |                          |        |                                         |       |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|--------------------------|--------|-----------------------------------------|-------|
| Visit         | <b>Proposal 14096, 30 RXCJ0232.2-4420 IR2 (84), completed</b> <span>Mon Aug 07 18:08:13 GMT 2017</span>                                                               |                 |                                                                                                                                                                                                 |                             |               |                                   |                          |        |                                         |       |
|               | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 70%; SAME ORIENT AS 81; AFTER 83 BY 1 Orbits TO 1.1 Orbits |                 |                                                                                                                                                                                                 |                             |               |                                   |                          |        |                                         |       |
| Fixed Targets | #                                                                                                                                                                     | Name            | Target Coordinates                                                                                                                                                                              | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                     |                          |        |                                         |       |
|               | (30)                                                                                                                                                                  | RXCJ0232.2-4420 | RA: 02 32 18.1219 (38.0755079d)<br>Dec: -44 20 44.89 (-44.34580d)<br>Equinox: J2000<br><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> |                             | V=18          | Reference Frame: SIMBAD           |                          |        |                                         |       |
| Exposures     | #                                                                                                                                                                     | Label           | Target                                                                                                                                                                                          | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.            | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                                                     | F140W           | (30) RXCJ0232.2-4420                                                                                                                                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                                                                                     | F105W           | (30) RXCJ0232.2-4420                                                                                                                                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1            |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                                                     | F105W           | (30) RXCJ0232.2-4420                                                                                                                                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,0.6055  |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                                                                                     | F140W           | (30) RXCJ0232.2-4420                                                                                                                                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3            |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                                                     | F125W           | (30) RXCJ0232.2-4420                                                                                                                                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0             |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                                                                                     | F160W           | (30) RXCJ0232.2-4420                                                                                                                                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5            |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                                                                                     | F160W           | (30) RXCJ0232.2-4420                                                                                                                                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,0.30275 |        | 452.93635 Secs (452.936 Secs)<br>[==>]  | [1]   |
|               | 8                                                                                                                                                                     | F125W           | (30) RXCJ0232.2-4420                                                                                                                                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7            |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |



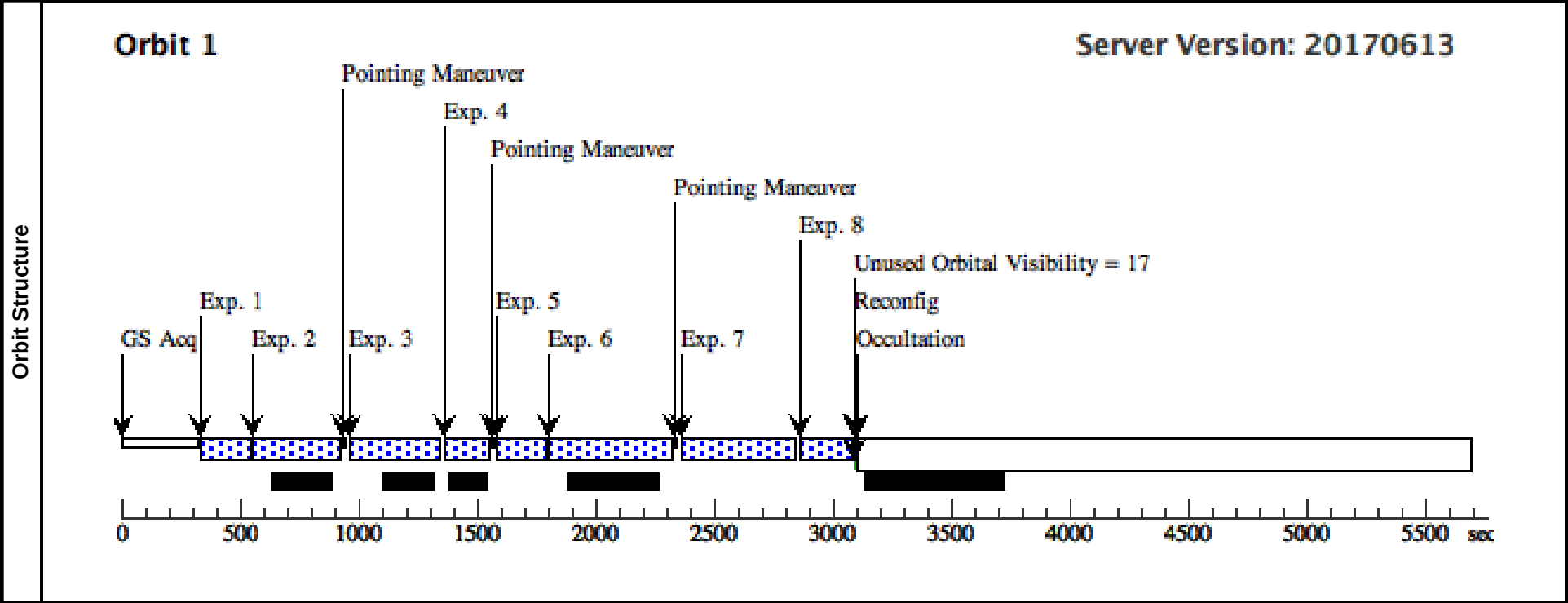
# Proposal 14096 - 31 ACO-3192 IR1 (92) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |          |                                                                                     |                             |                          |                                   |                              |        |                                         |  |                              |
|---------------|---------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|-----------------------------|--------------------------|-----------------------------------|------------------------------|--------|-----------------------------------------|--|------------------------------|
| Visit         | Proposal 14096, 31 ACO-3192 IR1 (92), completed                                                   |          |                                                                                     |                             |                          |                                   |                              |        |                                         |  | Mon Aug 07 18:08:13 GMT 2017 |
|               | Diagnostic Status: No Diagnostics                                                                 |          |                                                                                     |                             |                          |                                   |                              |        |                                         |  |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |          |                                                                                     |                             |                          |                                   |                              |        |                                         |  |                              |
|               | Special Requirements: SCHED 70%; ORIENT 290D TO 290 D                                             |          |                                                                                     |                             |                          |                                   |                              |        |                                         |  |                              |
| Fixed Targets | #                                                                                                 | Name     | Target Coordinates                                                                  |                             | Targ. Coord. Corrections |                                   | Fluxes                       |        | Miscellaneous                           |  |                              |
|               | (31)                                                                                              | ACO-3192 | RA: 03 58 53.0690 (59.7211208d)<br>Dec: -29 55 44.75 (-29.92910d)<br>Equinox: J2000 |                             |                          |                                   | V=18                         |        | Reference Frame: SIMBAD                 |  |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |          |                                                                                     |                             |                          |                                   |                              |        |                                         |  |                              |
|               |                                                                                                   |          |                                                                                     |                             |                          |                                   |                              |        |                                         |  |                              |
| Exposures     | #                                                                                                 | Label    | Target                                                                              | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |
|               | 1                                                                                                 | F140W    | (31) ACO-3192                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                              |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|               | 2                                                                                                 | F105W    | (31) ACO-3192                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |
|               | 3                                                                                                 | F105W    | (31) ACO-3192                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |
|               | 4                                                                                                 | F140W    | (31) ACO-3192                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|               | 5                                                                                                 | F125W    | (31) ACO-3192                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|               | 6                                                                                                 | F160W    | (31) ACO-3192                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 502.936801 Secs (502.937 Secs)<br>[==>] |  | [1]                          |
|               | 7                                                                                                 | F160W    | (31) ACO-3192                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |        | 502.936801 Secs (502.937 Secs)<br>[==>] |  | [1]                          |
|               | 8                                                                                                 | F125W    | (31) ACO-3192                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 152.935381 Secs (152.935 Secs)<br>[==>] |  | [1]                          |



# Proposal 14096 - 31 ACO-3192 IR2 (94) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |          |               |                                                                                     |  |                          |                                   |                              |        |                                         |                              |       |
|---------------|---------------------------------------------------------------------------------------------------|----------|---------------|-------------------------------------------------------------------------------------|--|--------------------------|-----------------------------------|------------------------------|--------|-----------------------------------------|------------------------------|-------|
| Visit         | Proposal 14096, 31 ACO-3192 IR2 (94), completed                                                   |          |               |                                                                                     |  |                          |                                   |                              |        |                                         | Mon Aug 07 18:08:13 GMT 2017 |       |
|               | Diagnostic Status: No Diagnostics                                                                 |          |               |                                                                                     |  |                          |                                   |                              |        |                                         |                              |       |
|               | Scientific Instruments: WFC3/IR                                                                   |          |               |                                                                                     |  |                          |                                   |                              |        |                                         |                              |       |
|               | Special Requirements: SCHED 70%; SAME ORIENT AS 92; AFTER 92 BY 40 D TO 60 D                      |          |               |                                                                                     |  |                          |                                   |                              |        |                                         |                              |       |
| Fixed Targets | #                                                                                                 | Name     |               | Target Coordinates                                                                  |  | Targ. Coord. Corrections |                                   | Fluxes                       |        | Miscellaneous                           |                              |       |
|               | (31)                                                                                              | ACO-3192 |               | RA: 03 58 53.0690 (59.7211208d)<br>Dec: -29 55 44.75 (-29.92910d)<br>Equinox: J2000 |  |                          |                                   | V=18                         |        | Reference Frame: SIMBAD                 |                              |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |          |               |                                                                                     |  |                          |                                   |                              |        |                                         |                              |       |
|               |                                                                                                   |          |               |                                                                                     |  |                          |                                   |                              |        |                                         |                              |       |
| Exposures     | #                                                                                                 | Label    | Target        | Config,Mode,Aperture                                                                |  | Spectral Els.            | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |
|               | 1                                                                                                 | F140W    | (31) ACO-3192 | WFC3/IR, MULTIACCUM, IR-FIX                                                         |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |
|               | 2                                                                                                 | F105W    | (31) ACO-3192 | WFC3/IR, MULTIACCUM, IR-FIX                                                         |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |
|               | 3                                                                                                 | F105W    | (31) ACO-3192 | WFC3/IR, MULTIACCUM, IR-FIX                                                         |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,<br>0.6055  |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |
|               | 4                                                                                                 | F140W    | (31) ACO-3192 | WFC3/IR, MULTIACCUM, IR-FIX                                                         |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |
|               | 5                                                                                                 | F125W    | (31) ACO-3192 | WFC3/IR, MULTIACCUM, IR-FIX                                                         |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0                 |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |
|               | 6                                                                                                 | F160W    | (31) ACO-3192 | WFC3/IR, MULTIACCUM, IR-FIX                                                         |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                              | [1]   |
|               | 7                                                                                                 | F160W    | (31) ACO-3192 | WFC3/IR, MULTIACCUM, IR-FIX                                                         |  | F160W                    | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,<br>0.30275 |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |                              | [1]   |
|               | 8                                                                                                 | F125W    | (31) ACO-3192 | WFC3/IR, MULTIACCUM, IR-FIX                                                         |  | F125W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |



# Proposal 14096 - 32 MCS-J0159.8-0849 ACS1 (AA) - RELICS: Reionization Lensing Cluster Survey

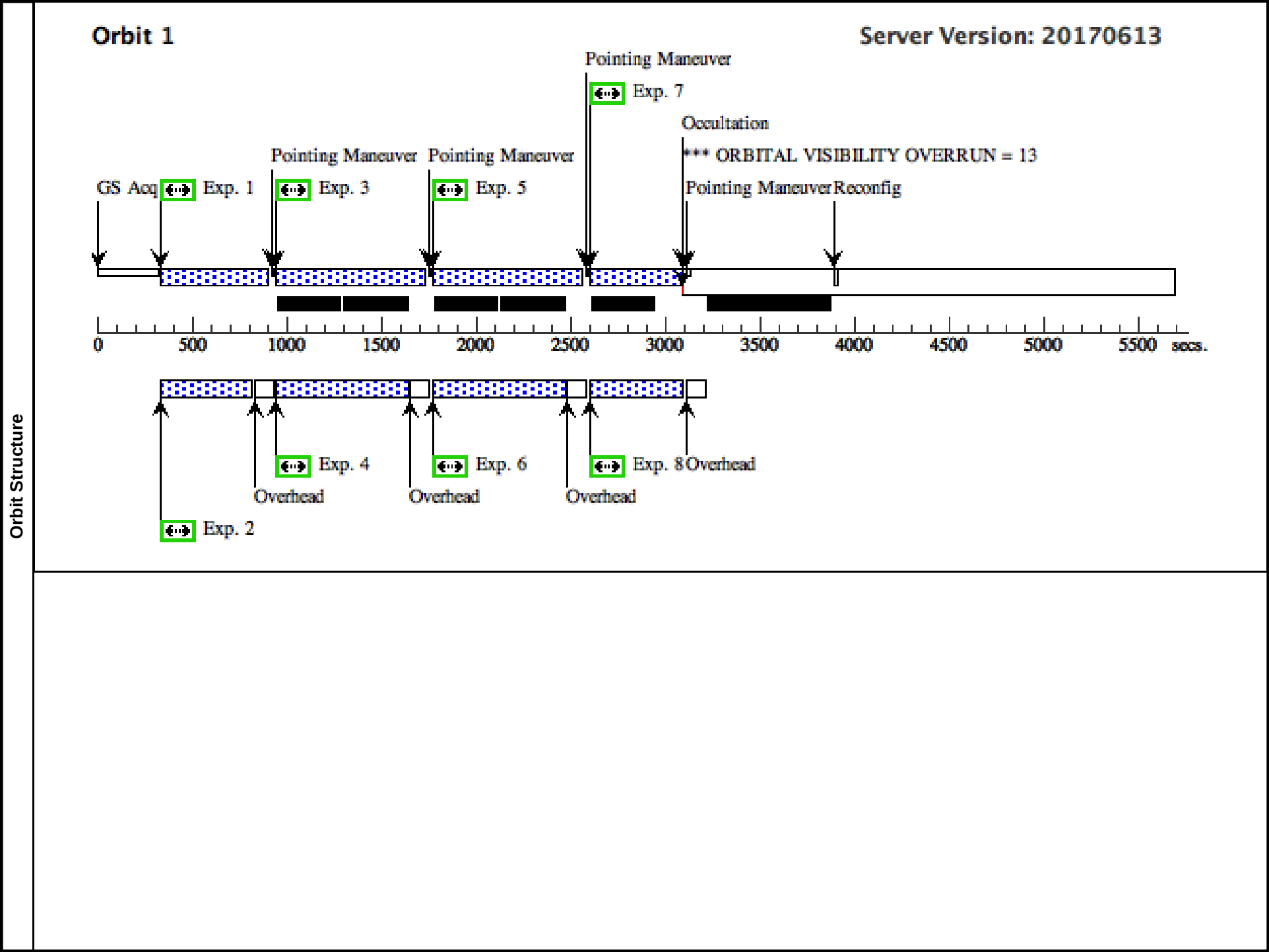
|                                                                                                   |                                                                                                                                                                            |                  |                                                                                   |                          |        |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------|--------------------------|--------|
| Visit                                                                                             | <b>Proposal 14096, 32 MCS-J0159.8-0849 ACS1 (AA), completed</b> <span>Mon Aug 07 18:08:13 GMT 2017</span>                                                                  |                  |                                                                                   |                          |        |
|                                                                                                   | <b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC<br>Special Requirements: SCHED 70%                                                |                  |                                                                                   |                          |        |
| Diagnostics                                                                                       | (32 MCS-J0159.8-0849 ACS1 (AA)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(32 MCS-J0159.8-0849 ACS1 (AA)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |                  |                                                                                   |                          |        |
|                                                                                                   |                                                                                                                                                                            |                  |                                                                                   |                          |        |
| Fixed Targets                                                                                     | #                                                                                                                                                                          | Name             | Target Coordinates                                                                | Targ. Coord. Corrections | Fluxes |
|                                                                                                   | (32)                                                                                                                                                                       | MCS-J0159.8-0849 | RA: 01 59 49.4000 (29.9558333d)<br>Dec: -08 50 0.00 (-8.83333d)<br>Equinox: J2000 |                          | V=18   |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                                                                                                            |                  |                                                                                   |                          |        |
|                                                                                                   |                                                                                                                                                                            |                  |                                                                                   |                          |        |

# Proposal 14096 - 32 MCS-J0159.8-0849 ACS1 (AA) - RELICS: Reionization Lensing Cluster Survey

| Exposures | #  | Label | Target                | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.           | Groups                                                        | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|----|-------|-----------------------|-----------------------------|---------------|--------------------------------|-------------------------|---------------------------------------------------------------|-----------------------------------------|-------|
|           | 1  |       | (32) MCS-J0159.8-0849 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                |                         | Prime + Parallel Group 1-2 in 32 MCS-J0159.8-0849 ACS1 (AA)   | 369 Secs (369 Secs)<br>[==>]            | [1]   |
|           | 2  |       | ANY                   | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 1-2 in 32 MCS-J0159.8-0849 ACS1 (AA)   | 453 Secs (453 Secs)<br>[==>]            | [1]   |
|           | 3  |       | (32) MCS-J0159.8-0849 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group 3-4 in 32 MCS-J0159.8-0849 ACS1 (AA)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 4  |       | ANY                   | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 3-4 in 32 MCS-J0159.8-0849 ACS1 (AA)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 5  |       | (32) MCS-J0159.8-0849 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 5-6 in 32 MCS-J0159.8-0849 ACS1 (AA)   | 667 Secs (667 Secs)<br>[==>]            | [1]   |
|           | 6  |       | ANY                   | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 5-6 in 32 MCS-J0159.8-0849 ACS1 (AA)   | 701 Secs (701 Secs)<br>[==>]            | [1]   |
|           | 7  |       | (32) MCS-J0159.8-0849 | ACS/WFC, ACCUM, WFCENTER    | F435W         |                                | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 7-8 in 32 MCS-J0159.8-0849 ACS1 (AA)   | 369 Secs (369 Secs)<br>[==>]            | [1]   |
|           | 8  |       | ANY                   | WFC3/UVIS, ACCUM, UVIS-FIX  | F350LP        |                                |                         | Prime + Parallel Group 7-8 in 32 MCS-J0159.8-0849 ACS1 (AA)   | 495 Secs (495 Secs)<br>[==>]            | [1]   |
|           | 9  |       | (32) MCS-J0159.8-0849 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                |                         | Prime + Parallel Group 9-10 in 32 MCS-J0159.8-0849 ACS1 (AA)  | 515 Secs (515 Secs)<br>[==>]            | [2]   |
|           | 10 |       | ANY                   | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=13;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 9-10 in 32 MCS-J0159.8-0849 ACS1 (AA)  | 602.937703 Secs (602.938 Secs)<br>[==>] | [2]   |
|           | 11 |       | (32) MCS-J0159.8-0849 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group 11-12 in 32 MCS-J0159.8-0849 ACS1 (AA) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 12 |       | ANY                   | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 11-12 in 32 MCS-J0159.8-0849 ACS1 (AA) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |
|           | 13 |       | (32) MCS-J0159.8-0849 | ACS/WFC, ACCUM, WFCENTER    | F814W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 13-14 in 32 MCS-J0159.8-0849 ACS1 (AA) | 607 Secs (607 Secs)<br>[==>]            | [2]   |
|           | 14 |       | ANY                   | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 13-14 in 32 MCS-J0159.8-0849 ACS1 (AA) | 702.938605 Secs (702.939 Secs)<br>[==>] | [2]   |

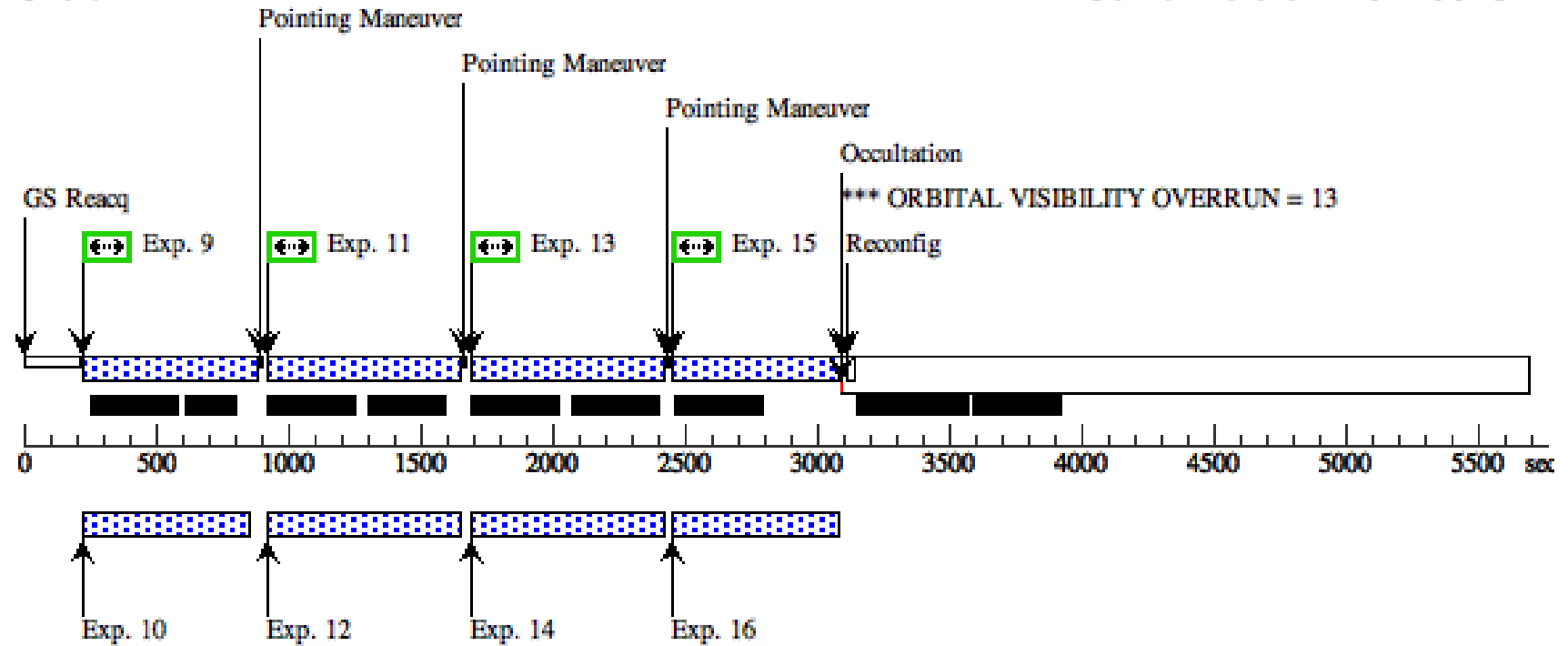
Proposal 14096 - 32 MCS-J0159.8-0849 ACS1 (AA) - RELICS: Reionization Lensing Cluster Survey

|  |    |                           |                             |       |                                   |                                                                          |                                |     |
|--|----|---------------------------|-----------------------------|-------|-----------------------------------|--------------------------------------------------------------------------|--------------------------------|-----|
|  | 15 | (32) MCS-J0159.8-0<br>849 | ACS/WFC, ACCUM, WFCENTER    | F814W | POS TARG 0.2717,8<br>.9367        | Prime + Parallel Gro<br>up 15-16 in 32 MCS-<br>J0159.8-0849 ACS1<br>(AA) | 514 Secs (514 Secs)            |     |
|  |    |                           |                             |       |                                   |                                                                          | [==>]                          | [2] |
|  | 16 | ANY                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W | NSAMP=13;<br>SAMP-SEQ=SPAR<br>S50 | Prime + Parallel Gro<br>up 15-16 in 32 MCS-<br>J0159.8-0849 ACS1<br>(AA) | 602.937703 Secs (602.938 Secs) |     |
|  |    |                           |                             |       |                                   |                                                                          | [==>]                          | [2] |



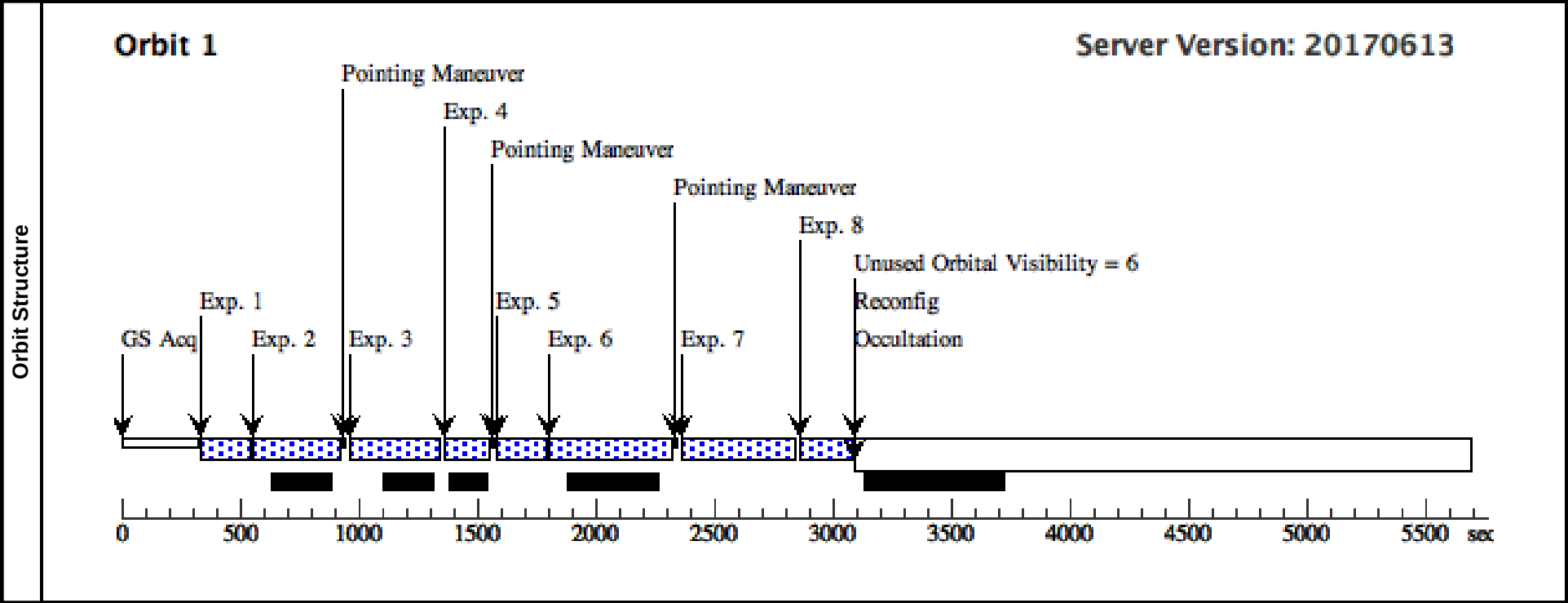
## Orbit 2

Server Version: 20170613



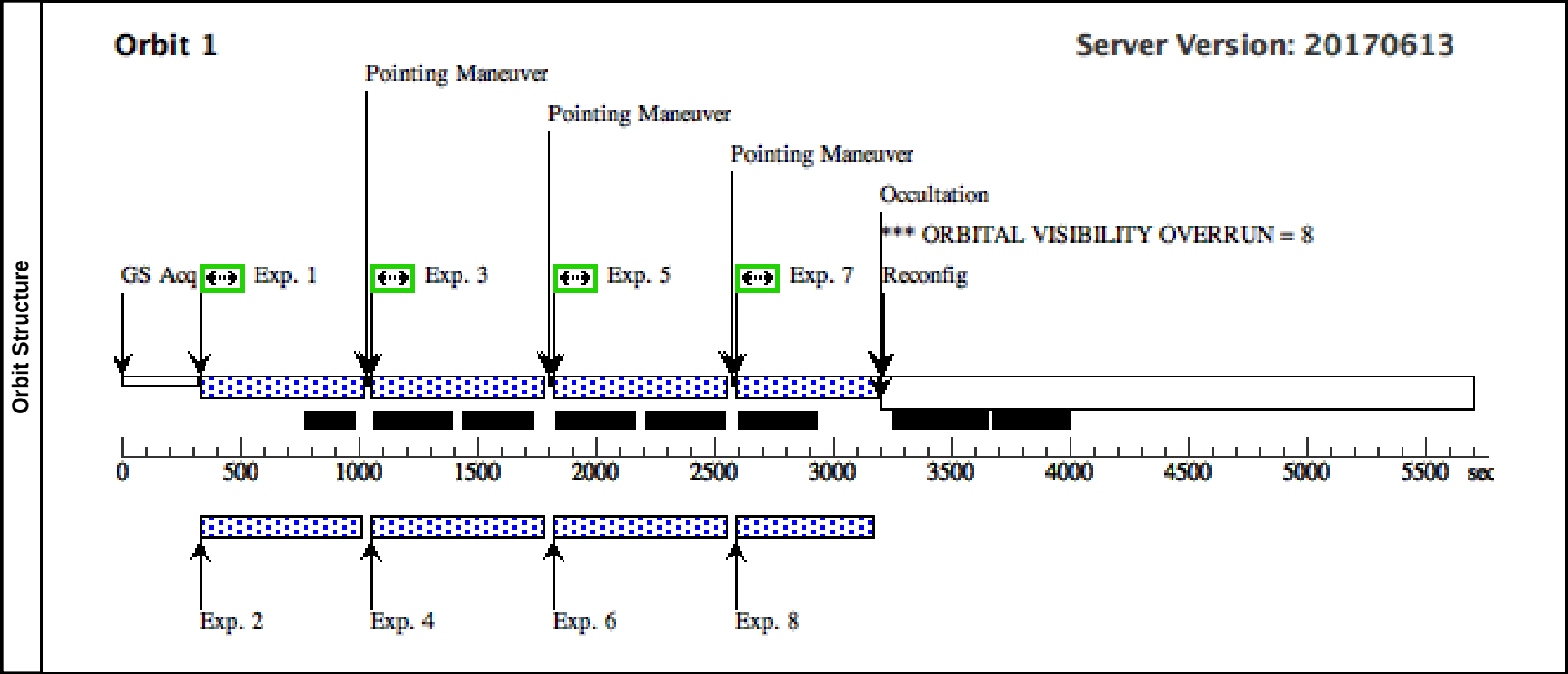
# Proposal 14096 - 32 MCS-J0159.8-0849 IR1 (AB) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                  |                                                                                   |                             |               |                                   |                              |        |                                         |                         |                              |
|---------------|---------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------|--------|-----------------------------------------|-------------------------|------------------------------|
| Visit         | Proposal 14096, 32 MCS-J0159.8-0849 IR1 (AB), completed                                           |                  |                                                                                   |                             |               |                                   |                              |        |                                         |                         | Mon Aug 07 18:08:13 GMT 2017 |
|               | Diagnostic Status: No Diagnostics                                                                 |                  |                                                                                   |                             |               |                                   |                              |        |                                         |                         |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |                  |                                                                                   |                             |               |                                   |                              |        |                                         |                         |                              |
|               | Special Requirements: SCHED 70%; SAME ORIENT AS AA; AFTER AA BY 1.9 Orbits TO 2.1 Orbits          |                  |                                                                                   |                             |               |                                   |                              |        |                                         |                         |                              |
| Fixed Targets | #                                                                                                 | Name             | Target Coordinates                                                                |                             |               | Targ. Coord. Corrections          |                              | Fluxes |                                         | Miscellaneous           |                              |
|               | (32)                                                                                              | MCS-J0159.8-0849 | RA: 01 59 49.4000 (29.9558333d)<br>Dec: -08 50 0.00 (-8.83333d)<br>Equinox: J2000 |                             |               |                                   |                              | V=18   |                                         | Reference Frame: SIMBAD |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                  |                                                                                   |                             |               |                                   |                              |        |                                         |                         |                              |
|               |                                                                                                   |                  |                                                                                   |                             |               |                                   |                              |        |                                         |                         |                              |
| Exposures     | #                                                                                                 | Label            | Target                                                                            | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         |                         | Orbit                        |
|               | 1                                                                                                 | F140W            | (32) MCS-J0159.8-0849                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                              |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 2                                                                                                 | F105W            | (32) MCS-J0159.8-0849                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|               | 3                                                                                                 | F105W            | (32) MCS-J0159.8-0849                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|               | 4                                                                                                 | F140W            | (32) MCS-J0159.8-0849                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 5                                                                                                 | F125W            | (32) MCS-J0159.8-0849                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 6                                                                                                 | F160W            | (32) MCS-J0159.8-0849                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |
|               | 7                                                                                                 | F160W            | (32) MCS-J0159.8-0849                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |                         | [1]                          |
|               | 8                                                                                                 | F125W            | (32) MCS-J0159.8-0849                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                         | [1]                          |



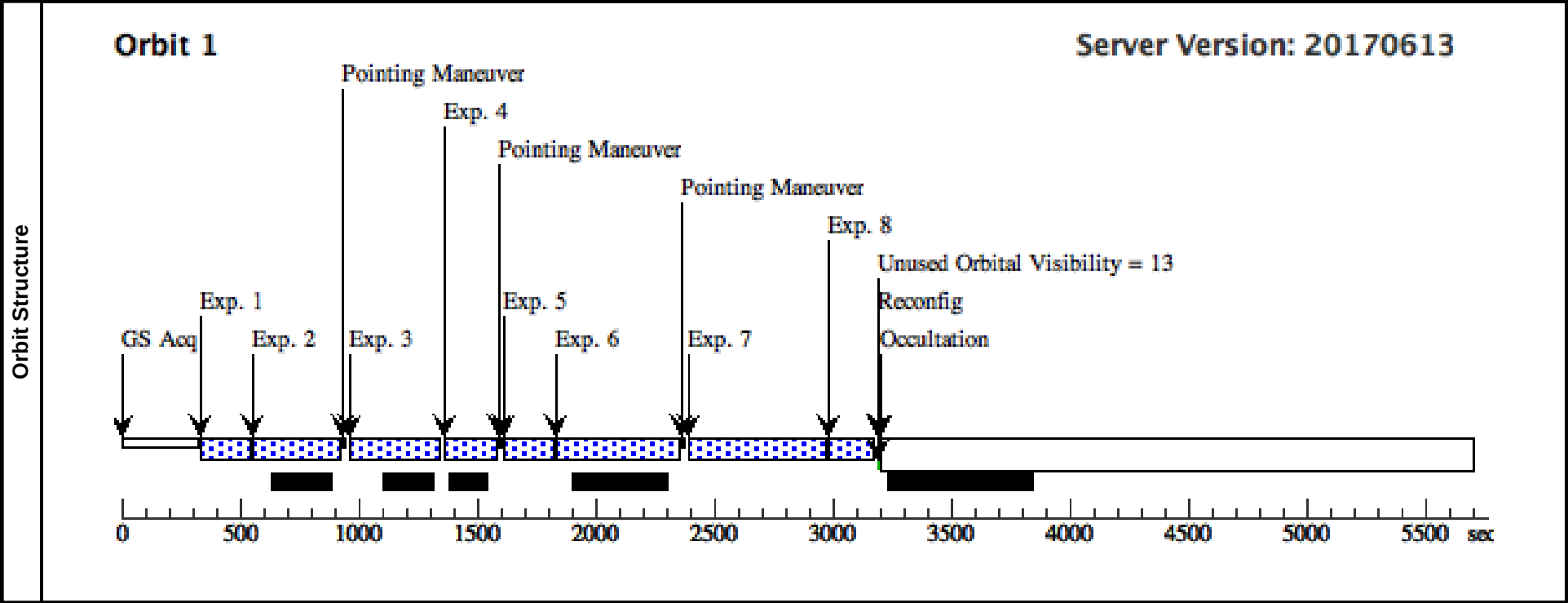
# Proposal 14096 - 32 MCS-J0159.8-0849 ACS2 (AC) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                  |                                                                                   |                             |               |                                |                         |                                                             |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|-------------------------|-------------------------------------------------------------|-----------------------------------------|-------|
| Visit         | Proposal 14096, 32 MCS-J0159.8-0849 ACS2 (AC), completed                                          |                  |                                                                                   |                             |               |                                |                         |                                                             | Mon Aug 07 18:08:13 GMT 2017            |       |
|               | Diagnostic Status: Warning                                                                        |                  |                                                                                   |                             |               |                                |                         |                                                             |                                         |       |
|               | Scientific Instruments: WFC3/IR, ACS/WFC                                                          |                  |                                                                                   |                             |               |                                |                         |                                                             |                                         |       |
|               | Special Requirements: SCHED 30%; SAME ORIENT AS AA; AFTER AA BY 40 D TO 60 D                      |                  |                                                                                   |                             |               |                                |                         |                                                             |                                         |       |
| Diagnostics   | (32 MCS-J0159.8-0849 ACS2 (AC)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN               |                  |                                                                                   |                             |               |                                |                         |                                                             |                                         |       |
| Fixed Targets | #                                                                                                 | Name             | Target Coordinates                                                                | Targ. Coord. Corrections    |               | Fluxes                         |                         | Miscellaneous                                               |                                         |       |
|               | (32)                                                                                              | MCS-J0159.8-0849 | RA: 01 59 49.4000 (29.9558333d)<br>Dec: -08 50 0.00 (-8.83333d)<br>Equinox: J2000 |                             |               | V=18                           |                         | Reference Frame: SIMBAD                                     |                                         |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                  |                                                                                   |                             |               |                                |                         |                                                             |                                         |       |
|               |                                                                                                   |                  |                                                                                   |                             |               |                                |                         |                                                             |                                         |       |
| Exposures     | #                                                                                                 | Label            | Target                                                                            | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.           | Groups                                                      | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                 |                  | (32) MCS-J0159.8-0849                                                             | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                |                         | Prime + Parallel Group 1-2 in 32 MCS-J0159.8-0849 ACS2 (AC) | 480 Secs (480 Secs)<br>[==>]            | [1]   |
|               | 2                                                                                                 |                  | ANY                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=14;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 1-2 in 32 MCS-J0159.8-0849 ACS2 (AC) | 652.938154 Secs (652.938 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                 |                  | (32) MCS-J0159.8-0849                                                             | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                | POS TARG 0.0741,2 .970  | Prime + Parallel Group 3-4 in 32 MCS-J0159.8-0849 ACS2 (AC) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 4                                                                                                 |                  | ANY                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 3-4 in 32 MCS-J0159.8-0849 ACS2 (AC) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                 |                  | (32) MCS-J0159.8-0849                                                             | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                | POS TARG 0.1976,5 .9687 | Prime + Parallel Group 5-6 in 32 MCS-J0159.8-0849 ACS2 (AC) | 607 Secs (607 Secs)<br>[==>]            | [1]   |
|               | 6                                                                                                 |                  | ANY                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=15;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 5-6 in 32 MCS-J0159.8-0849 ACS2 (AC) | 702.938605 Secs (702.939 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                 |                  | (32) MCS-J0159.8-0849                                                             | ACS/WFC, ACCUM, WFCENTER    | F606W         |                                | POS TARG 0.2717,8 .9367 | Prime + Parallel Group 7-8 in 32 MCS-J0159.8-0849 ACS2 (AC) | 480 Secs (480 Secs)<br>[==>]            | [1]   |
|               | 8                                                                                                 |                  | ANY                                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=12;<br>SAMP-SEQ=SPAR S50 |                         | Prime + Parallel Group 7-8 in 32 MCS-J0159.8-0849 ACS2 (AC) | 552.937252 Secs (552.937 Secs)<br>[==>] | [1]   |
|               |                                                                                                   |                  |                                                                                   |                             |               |                                |                         |                                                             |                                         |       |
|               |                                                                                                   |                  |                                                                                   |                             |               |                                |                         |                                                             |                                         |       |
|               |                                                                                                   |                  |                                                                                   |                             |               |                                |                         |                                                             |                                         |       |
|               |                                                                                                   |                  |                                                                                   |                             |               |                                |                         |                                                             |                                         |       |
|               |                                                                                                   |                  |                                                                                   |                             |               |                                |                         |                                                             |                                         |       |



# Proposal 14096 - 32 MCS-J0159.8-0849 IR2 (AD) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                                                                                         |                  |                                                                                                                                                                                               |                             |               |                                   |                          |        |                                         |       |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|--------------------------|--------|-----------------------------------------|-------|
| Visit         | <b>Proposal 14096, 32 MCS-J0159.8-0849 IR2 (AD), completed</b> <span>Mon Aug 07 18:08:13 GMT 2017</span>                                                                |                  |                                                                                                                                                                                               |                             |               |                                   |                          |        |                                         |       |
|               | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 30%; SAME ORIENT AS AA; AFTER AC BY 0.9 Orbits TO 1.1 Orbits |                  |                                                                                                                                                                                               |                             |               |                                   |                          |        |                                         |       |
| Fixed Targets | #                                                                                                                                                                       | Name             | Target Coordinates                                                                                                                                                                            | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                     |                          |        |                                         |       |
|               | (32)                                                                                                                                                                    | MCS-J0159.8-0849 | RA: 01 59 49.4000 (29.9558333d)<br>Dec: -08 50 0.00 (-8.83333d)<br>Equinox: J2000<br><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> |                             | V=18          | Reference Frame: SIMBAD           |                          |        |                                         |       |
| Exposures     | #                                                                                                                                                                       | Label            | Target                                                                                                                                                                                        | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.            | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                                                       | F140W            | (32) MCS-J0159.8-0849                                                                                                                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                                                                                       | F105W            | (32) MCS-J0159.8-0849                                                                                                                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1            |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                                                       | F105W            | (32) MCS-J0159.8-0849                                                                                                                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,0.6055  |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                                                                                       | F140W            | (32) MCS-J0159.8-0849                                                                                                                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3            |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                                                       | F125W            | (32) MCS-J0159.8-0849                                                                                                                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0             |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                                                                                       | F160W            | (32) MCS-J0159.8-0849                                                                                                                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5            |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                                                                                       | F160W            | (32) MCS-J0159.8-0849                                                                                                                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,0.30275 |        | 552.937252 Secs (552.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                                                                                       | F125W            | (32) MCS-J0159.8-0849                                                                                                                                                                         | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7            |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |

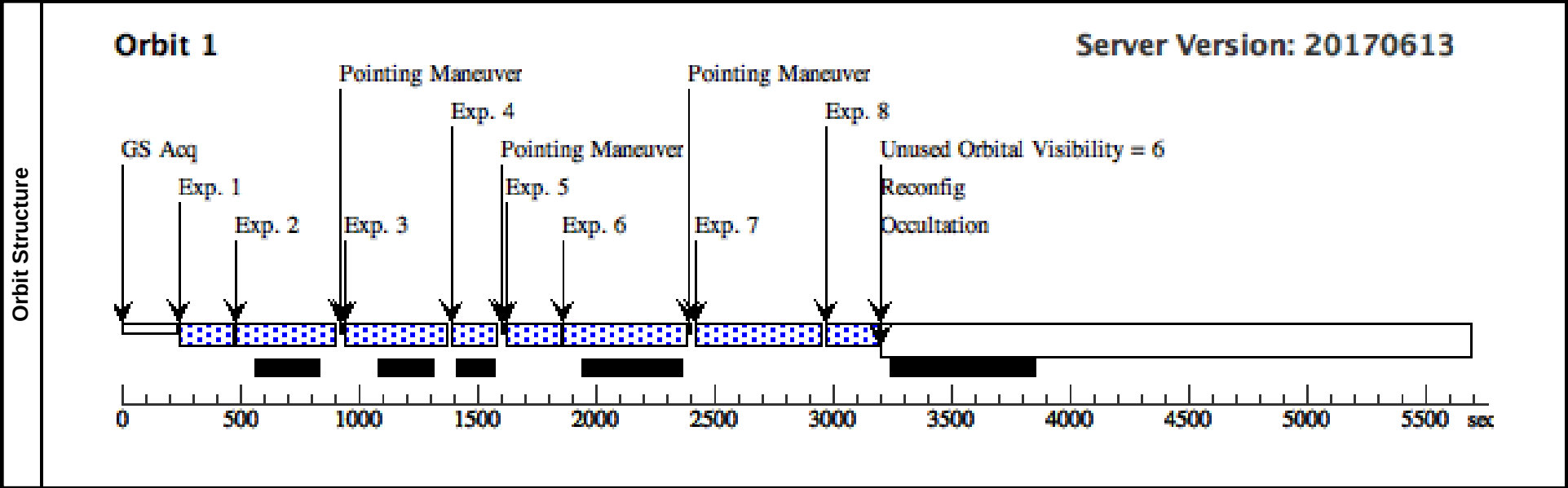


# Proposal 14096 - 33 MCS-J0035.4-2015 ACS1 (BA) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                     |                  |                                                                                    |                          |               |                         |                              |        |                                 |       |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------|--------------------------|---------------|-------------------------|------------------------------|--------|---------------------------------|-------|
| Visit                                                                                             | Proposal 14096, 33 MCS-J0035.4-2015 ACS1 (BA), completed                            |                  |                                                                                    |                          |               |                         | Mon Aug 07 18:08:13 GMT 2017 |        |                                 |       |
|                                                                                                   | Diagnostic Status: Warning                                                          |                  |                                                                                    |                          |               |                         |                              |        |                                 |       |
|                                                                                                   | Scientific Instruments: ACS/WFC                                                     |                  |                                                                                    |                          |               |                         |                              |        |                                 |       |
|                                                                                                   | Special Requirements: SCHED 40%; ORIENT 66D TO 66 D                                 |                  |                                                                                    |                          |               |                         |                              |        |                                 |       |
| Diagnostics                                                                                       | (33 MCS-J0035.4-2015 ACS1 (BA)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |                  |                                                                                    |                          |               |                         |                              |        |                                 |       |
| Fixed Targets                                                                                     | #                                                                                   | Name             | Target Coordinates                                                                 | Targ. Coord. Corrections | Fluxes        | Miscellaneous           |                              |        |                                 |       |
|                                                                                                   | (33)                                                                                | MCS-J0035.4-2015 | RA: 00 35 26.9620 (8.8623417d)<br>Dec: -20 15 40.31 (-20.26120d)<br>Equinox: J2000 |                          | V=18          | Reference Frame: SIMBAD |                              |        |                                 |       |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                     |                  |                                                                                    |                          |               |                         |                              |        |                                 |       |
| Exposures                                                                                         | #                                                                                   | Label            | Target                                                                             | Config,Mode,Aperture     | Spectral Els. | Opt. Params.            | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|                                                                                                   | 1                                                                                   |                  | (33) MCS-J0035.4-2 015                                                             | ACS/WFC, ACCUM, WFCENTER | F435W         |                         | GS ACQ SCENARI O SINGLE      |        | 566 Secs (566 Secs)             |       |
|                                                                                                   |                                                                                     |                  |                                                                                    |                          |               |                         |                              |        | [==>]                           | [1]   |
|                                                                                                   | 2                                                                                   |                  | (33) MCS-J0035.4-2 015                                                             | ACS/WFC, ACCUM, WFCENTER | F435W         |                         | POS TARG 0.0741,2 .970       |        | 566 Secs (566 Secs)             |       |
|                                                                                                   |                                                                                     |                  |                                                                                    |                          |               |                         |                              |        | [==>]                           | [1]   |
|                                                                                                   | 3                                                                                   |                  | (33) MCS-J0035.4-2 015                                                             | ACS/WFC, ACCUM, WFCENTER | F435W         |                         | POS TARG 0.1976,5 .9687      |        | 566 Secs (566 Secs)             |       |
|                                                                                                   |                                                                                     |                  |                                                                                    |                          |               |                         |                              |        | [==>]                           | [1]   |
|                                                                                                   | 4                                                                                   |                  | (33) MCS-J0035.4-2 015                                                             | ACS/WFC, ACCUM, WFCENTER | F435W         |                         | POS TARG 0.2717,8 .9367      |        | 565 Secs (565 Secs)             |       |
|                                                                                                   |                                                                                     |                  |                                                                                    |                          |               |                         |                              | [==>]  | [1]                             |       |
| Orbit Structure                                                                                   | <div>Orbit 1<div>Server Version: 20170613</div></div>                               |                  |                                                                                    |                          |               |                         |                              |        |                                 |       |

# Proposal 14096 - 33 MCS-J0035.4-2015 IR1 (BB) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                  |                                                                                    |                             |               |                                |                              |        |                                         |                         |                              |
|---------------|---------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|------------------------------|--------|-----------------------------------------|-------------------------|------------------------------|
| Visit         | Proposal 14096, 33 MCS-J0035.4-2015 IR1 (BB), completed                                           |                  |                                                                                    |                             |               |                                |                              |        |                                         |                         | Mon Aug 07 18:08:13 GMT 2017 |
|               | Diagnostic Status: No Diagnostics                                                                 |                  |                                                                                    |                             |               |                                |                              |        |                                         |                         |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |                  |                                                                                    |                             |               |                                |                              |        |                                         |                         |                              |
|               | Special Requirements: SCHED 40%; SAME ORIENT AS BA; AFTER BA BY 0.9 Orbits TO 1.1 Orbits          |                  |                                                                                    |                             |               |                                |                              |        |                                         |                         |                              |
| Fixed Targets | #                                                                                                 | Name             | Target Coordinates                                                                 |                             |               | Targ. Coord. Corrections       |                              | Fluxes |                                         | Miscellaneous           |                              |
|               | (33)                                                                                              | MCS-J0035.4-2015 | RA: 00 35 26.9620 (8.8623417d)<br>Dec: -20 15 40.31 (-20.26120d)<br>Equinox: J2000 |                             |               |                                |                              | V=18   |                                         | Reference Frame: SIMBAD |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                  |                                                                                    |                             |               |                                |                              |        |                                         |                         |                              |
|               |                                                                                                   |                  |                                                                                    |                             |               |                                |                              |        |                                         |                         |                              |
| Exposures     | #                                                                                                 | Label            | Target                                                                             | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         |                         | Orbit                        |
|               | 1                                                                                                 | F140W            | (33) MCS-J0035.4-2015                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | GS ACQ SCENARI<br>O SINGLE   |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                         | [1]                          |
|               | 2                                                                                                 | F105W            | (33) MCS-J0035.4-2015                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=9;<br>SAMP-SEQ=SPAR S50  | SAME POS AS 1                |        | 402.935899 Secs (402.936 Secs)<br>[==>] |                         | [1]                          |
|               | 3                                                                                                 | F105W            | (33) MCS-J0035.4-2015                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=9;<br>SAMP-SEQ=SPAR S50  | POS TARG 6.84275,<br>0.30275 |        | 402.935899 Secs (402.936 Secs)<br>[==>] |                         | [1]                          |
|               | 4                                                                                                 | F140W            | (33) MCS-J0035.4-2015                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 3                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 5                                                                                                 | F125W            | (33) MCS-J0035.4-2015                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | POS TARG 7.317,0.<br>90825   |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                         | [1]                          |
|               | 6                                                                                                 | F160W            | (33) MCS-J0035.4-2015                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | SAME POS AS 5                |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |
|               | 7                                                                                                 | F160W            | (33) MCS-J0035.4-2015                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | POS TARG 0.47425,<br>0.6055  |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |
|               | 8                                                                                                 | F125W            | (33) MCS-J0035.4-2015                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 7                |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                         | [1]                          |

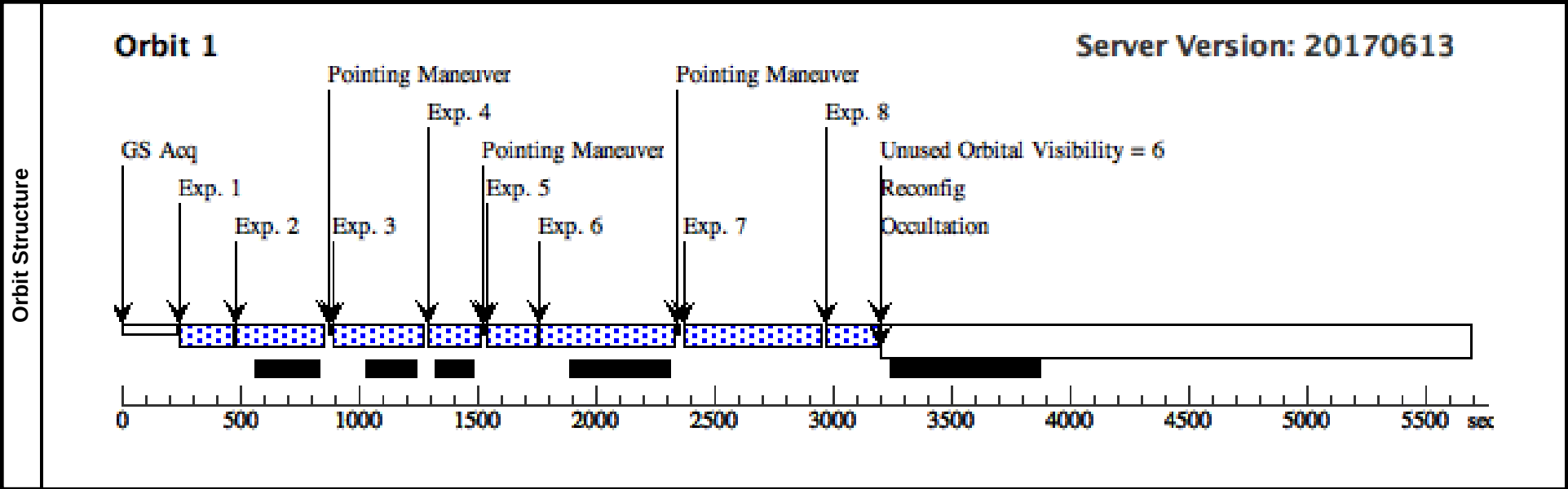


# Proposal 14096 - 33 MCS-J0035.4-2015 ACS2 (BC) - RELICS: Reionization Lensing Cluster Survey

|                 |                                                                                                                                                      |                  |                                                                                    |                          |                         |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------|--------------------------|-------------------------|
| Visit           | <b>Proposal 14096, 33 MCS-J0035.4-2015 ACS2 (BC), completed</b> <span style="float: right;">Mon Aug 07 18:08:13 GMT 2017</span>                      |                  |                                                                                    |                          |                         |
|                 | <b>Diagnostic Status: Warning</b><br>Scientific Instruments: ACS/WFC<br>Special Requirements: SCHED 40%; SAME ORIENT AS BA; AFTER BA BY 40 D TO 60 D |                  |                                                                                    |                          |                         |
| Diagnostics     | (33 MCS-J0035.4-2015 ACS2 (BC)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                  |                  |                                                                                    |                          |                         |
| Fixed Targets   | #                                                                                                                                                    | Name             | Target Coordinates                                                                 | Targ. Coord. Corrections | Fluxes                  |
|                 | (33)                                                                                                                                                 | MCS-J0035.4-2015 | RA: 00 35 26.9620 (8.8623417d)<br>Dec: -20 15 40.31 (-20.26120d)<br>Equinox: J2000 |                          | V=18                    |
|                 | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                    |                  |                                                                                    |                          |                         |
| Exposures       | #                                                                                                                                                    | Label            | Target                                                                             | Config,Mode,Aperture     | Spectral Els.           |
|                 | 1                                                                                                                                                    |                  | (33) MCS-J0035.4-2015                                                              | ACS/WFC, ACCUM, WFCENTER | F606W                   |
|                 |                                                                                                                                                      |                  |                                                                                    |                          | GS ACQ SCENARI O SINGLE |
|                 |                                                                                                                                                      |                  |                                                                                    |                          | 552 Secs (552 Secs)     |
|                 |                                                                                                                                                      |                  |                                                                                    |                          | [=>]                    |
|                 |                                                                                                                                                      |                  |                                                                                    |                          | [1]                     |
|                 | 2                                                                                                                                                    |                  | (33) MCS-J0035.4-2015                                                              | ACS/WFC, ACCUM, WFCENTER | F606W                   |
|                 |                                                                                                                                                      |                  |                                                                                    |                          | POS TARG 0.0741,2 .9947 |
|                 |                                                                                                                                                      |                  |                                                                                    |                          | 552 Secs (552 Secs)     |
|                 |                                                                                                                                                      |                  |                                                                                    |                          | [=>]                    |
|                 |                                                                                                                                                      |                  |                                                                                    |                          | [1]                     |
|                 | 3                                                                                                                                                    |                  | (33) MCS-J0035.4-2015                                                              | ACS/WFC, ACCUM, WFCENTER | F814W                   |
|                 |                                                                                                                                                      |                  |                                                                                    |                          | POS TARG 0.1976,5 .9687 |
|                 |                                                                                                                                                      |                  |                                                                                    |                          | 552 Secs (552 Secs)     |
|                 |                                                                                                                                                      |                  |                                                                                    |                          | [=>]                    |
|                 |                                                                                                                                                      |                  |                                                                                    |                          | [1]                     |
|                 | 4                                                                                                                                                    |                  | (33) MCS-J0035.4-2015                                                              | ACS/WFC, ACCUM, WFCENTER | F814W                   |
|                 |                                                                                                                                                      |                  |                                                                                    |                          | POS TARG 0.2717,8 .914  |
|                 |                                                                                                                                                      |                  |                                                                                    |                          | 552 Secs (552 Secs)     |
|                 |                                                                                                                                                      |                  |                                                                                    |                          | [=>]                    |
|                 |                                                                                                                                                      |                  |                                                                                    |                          | [1]                     |
| Orbit Structure | <b>Orbit 1</b> <span style="float: right;">Server Version: 20170613</span>                                                                           |                  |                                                                                    |                          |                         |
|                 |                                                                                                                                                      |                  |                                                                                    |                          |                         |

# Proposal 14096 - 33 MCS-J0035.4-2015 IR2 (BD) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                       |                                                                                    |                             |                                   |                                  |                                                   |                                |                                 |     |       |
|---------------|---------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------|-----------------------------|-----------------------------------|----------------------------------|---------------------------------------------------|--------------------------------|---------------------------------|-----|-------|
| Visit         | Proposal 14096, 33 MCS-J0035.4-2015 IR2 (BD), completed                                           |                       |                                                                                    |                             |                                   |                                  |                                                   |                                | Mon Aug 07 18:08:13 GMT 2017    |     |       |
|               | Diagnostic Status: No Diagnostics                                                                 |                       |                                                                                    |                             |                                   |                                  |                                                   |                                |                                 |     |       |
|               | Scientific Instruments: WFC3/IR                                                                   |                       |                                                                                    |                             |                                   |                                  |                                                   |                                |                                 |     |       |
|               | Special Requirements: SCHED 40%; SAME ORIENT AS BA; AFTER BC BY 0.9 Orbits TO 1.1 Orbits          |                       |                                                                                    |                             |                                   |                                  |                                                   |                                |                                 |     |       |
| Fixed Targets | #                                                                                                 | Name                  | Target Coordinates                                                                 |                             | Targ. Coord. Corrections          |                                  | Fluxes                                            |                                | Miscellaneous                   |     |       |
|               | (33)                                                                                              | MCS-J0035.4-2015      | RA: 00 35 26.9620 (8.8623417d)<br>Dec: -20 15 40.31 (-20.26120d)<br>Equinox: J2000 |                             |                                   |                                  | V=18                                              |                                | Reference Frame: SIMBAD         |     |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                       |                                                                                    |                             |                                   |                                  |                                                   |                                |                                 |     |       |
|               |                                                                                                   |                       |                                                                                    |                             |                                   |                                  |                                                   |                                |                                 |     |       |
| Exposures     | #                                                                                                 | Label                 | Target                                                                             | Config,Mode,Aperture        | Spectral Els.                     | Opt. Params.                     | Special Reqs.                                     | Groups                         | Exp. Time (Total)/[Actual Dur.] |     | Orbit |
|               | 1                                                                                                 | F140W                 | (33) MCS-J0035.4-2015                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F140W                             | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 7.317,0.90825;<br>GS ACQ SCENARIO SINGLE |                                | 202.936411 Secs (202.936 Secs)  |     |       |
|               |                                                                                                   |                       |                                                                                    |                             |                                   |                                  |                                                   |                                | [==>]                           |     | [1]   |
|               | 2                                                                                                 | F105W                 | (33) MCS-J0035.4-2015                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F105W                             | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 1                                     |                                | 352.935448 Secs (352.935 Secs)  |     |       |
|               |                                                                                                   |                       |                                                                                    |                             |                                   |                                  |                                                   |                                | [==>]                           |     | [1]   |
|               | 3                                                                                                 | F105W                 | (33) MCS-J0035.4-2015                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F105W                             | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,0.6055                           |                                | 352.935448 Secs (352.935 Secs)  |     |       |
|               |                                                                                                   |                       |                                                                                    |                             |                                   |                                  |                                                   |                                | [==>]                           |     | [1]   |
|               | 4                                                                                                 | F140W                 | (33) MCS-J0035.4-2015                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F140W                             | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25 | SAME POS AS 3                                     |                                | 202.936411 Secs (202.936 Secs)  |     |       |
|               |                                                                                                   |                       |                                                                                    |                             |                                   |                                  |                                                   |                                | [==>]                           |     | [1]   |
|               | 5                                                                                                 | F125W                 | (33) MCS-J0035.4-2015                                                              | WFC3/IR, MULTIACCUM, IR-FIX | F125W                             | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25 | POS TARG 0,0                                      |                                | 177.935896 Secs (177.936 Secs)  |     |       |
|               |                                                                                                   |                       |                                                                                    |                             |                                   |                                  |                                                   | [==>]                          |                                 | [1] |       |
| 6             | F160W                                                                                             | (33) MCS-J0035.4-2015 | WFC3/IR, MULTIACCUM, IR-FIX                                                        | F160W                       | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                    |                                                   | 552.937252 Secs (552.937 Secs) |                                 |     |       |
|               |                                                                                                   |                       |                                                                                    |                             |                                   |                                  |                                                   | [==>]                          |                                 | [1] |       |
| 7             | F160W                                                                                             | (33) MCS-J0035.4-2015 | WFC3/IR, MULTIACCUM, IR-FIX                                                        | F160W                       | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,0.30275         |                                                   | 552.937252 Secs (552.937 Secs) |                                 |     |       |
|               |                                                                                                   |                       |                                                                                    |                             |                                   |                                  |                                                   | [==>]                          |                                 | [1] |       |
| 8             | F125W                                                                                             | (33) MCS-J0035.4-2015 | WFC3/IR, MULTIACCUM, IR-FIX                                                        | F125W                       | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                    |                                                   | 202.936411 Secs (202.936 Secs) |                                 |     |       |
|               |                                                                                                   |                       |                                                                                    |                             |                                   |                                  |                                                   | [==>]                          |                                 | [1] |       |

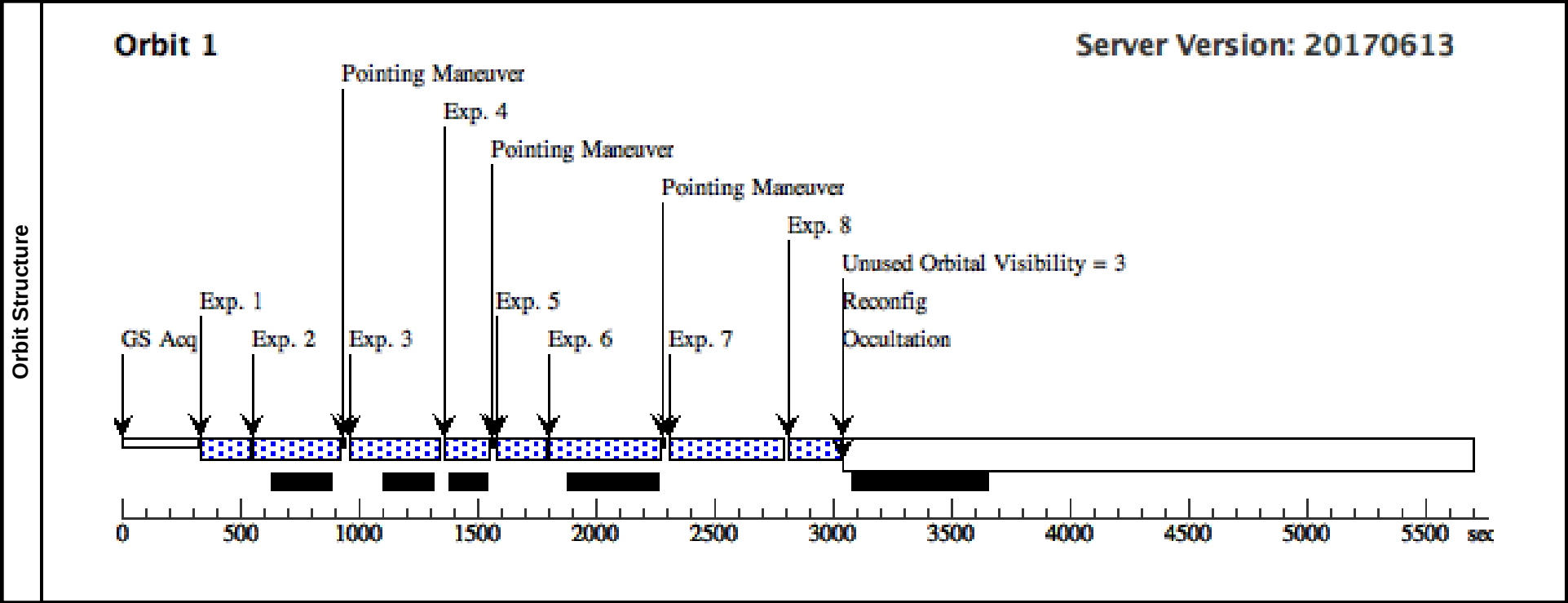


# Proposal 14096 - 34 MCS-J0911.2+1746 ACS1 (CA) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                                                                 |                        |                                                                                     |                          |                                                     |
|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------|
| Visit                                                                                             | <b>Proposal 14096, 34 MCS-J0911.2+1746 ACS1 (CA), completed</b> <span style="float: right;">Mon Aug 07 18:08:13 GMT 2017</span> |                        |                                                                                     |                          |                                                     |
|                                                                                                   | <b>Diagnostic Status: Warning</b><br>Scientific Instruments: ACS/WFC<br>Special Requirements: SCHED 80%; ORIENT 108D TO 108 D   |                        |                                                                                     |                          |                                                     |
| Diagnostics                                                                                       | (34 MCS-J0911.2+1746 ACS1 (CA)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                             |                        |                                                                                     |                          |                                                     |
| Fixed Targets                                                                                     | #                                                                                                                               | Name                   | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes                                              |
|                                                                                                   | (341)                                                                                                                           | MCS-J0911.2+1746-F435W | RA: 09 11 10.5753 (137.7940637d)<br>Dec: +17 46 38.90 (17.77747d)<br>Equinox: J2000 |                          | V=18                                                |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                                                                 |                        |                                                                                     |                          |                                                     |
| Exposures                                                                                         | #                                                                                                                               | Label                  | Target                                                                              | Config,Mode,Aperture     | Spectral Els.                                       |
|                                                                                                   | 1                                                                                                                               |                        | (341) MCS-J0911.2+1746-F435W                                                        | ACS/WFC, ACCUM, WFCENTER | F435W                                               |
|                                                                                                   |                                                                                                                                 |                        |                                                                                     |                          | Special Reqs. GS ACQ SCENARI O BASE1B3              |
|                                                                                                   |                                                                                                                                 |                        |                                                                                     |                          | Exp. Time (Total)/[Actual Dur.] 503 Secs (503 Secs) |
|                                                                                                   |                                                                                                                                 |                        |                                                                                     |                          | [==>]                                               |
|                                                                                                   |                                                                                                                                 |                        |                                                                                     |                          | [1]                                                 |
|                                                                                                   | 2                                                                                                                               |                        | (341) MCS-J0911.2+1746-F435W                                                        | ACS/WFC, ACCUM, WFCENTER | F435W                                               |
|                                                                                                   |                                                                                                                                 |                        |                                                                                     |                          | Special Reqs. POS TARG 0.0741,2 .970                |
|                                                                                                   |                                                                                                                                 |                        |                                                                                     |                          | Exp. Time (Total)/[Actual Dur.] 502 Secs (502 Secs) |
|                                                                                                   |                                                                                                                                 |                        |                                                                                     |                          | [==>]                                               |
|                                                                                                   |                                                                                                                                 |                        |                                                                                     |                          | [1]                                                 |
|                                                                                                   | 3                                                                                                                               |                        | (341) MCS-J0911.2+1746-F435W                                                        | ACS/WFC, ACCUM, WFCENTER | F435W                                               |
|                                                                                                   |                                                                                                                                 |                        |                                                                                     |                          | Special Reqs. POS TARG 0.1976,5 .9687               |
|                                                                                                   |                                                                                                                                 |                        |                                                                                     |                          | Exp. Time (Total)/[Actual Dur.] 502 Secs (502 Secs) |
|                                                                                                   |                                                                                                                                 |                        |                                                                                     |                          | [==>]                                               |
|                                                                                                   |                                                                                                                                 |                        |                                                                                     |                          | [1]                                                 |
|                                                                                                   | 4                                                                                                                               |                        | (341) MCS-J0911.2+1746-F435W                                                        | ACS/WFC, ACCUM, WFCENTER | F435W                                               |
|                                                                                                   |                                                                                                                                 |                        |                                                                                     |                          | Special Reqs. POS TARG 0.2717,8 .9367               |
|                                                                                                   |                                                                                                                                 |                        |                                                                                     |                          | Exp. Time (Total)/[Actual Dur.] 502 Secs (502 Secs) |
|                                                                                                   |                                                                                                                                 |                        |                                                                                     |                          | [==>]                                               |
|                                                                                                   |                                                                                                                                 |                        |                                                                                     |                          | [1]                                                 |
| Orbit Structure                                                                                   | <div> <div>Orbit 1</div> <div>Server Version: 20170613</div> </div>                                                             |                        |                                                                                     |                          |                                                     |
|                                                                                                   |                                                                                                                                 |                        |                                                                                     |                          |                                                     |

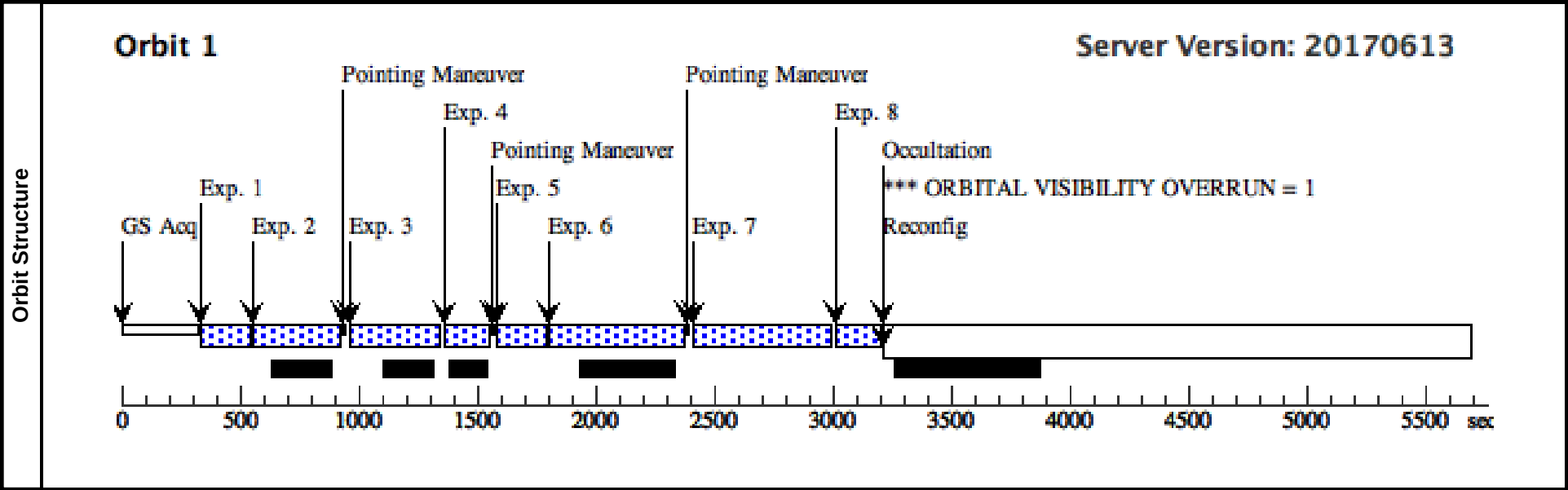
# Proposal 14096 - 34 MCS-J0911.2+1746 IR1 (CB) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                                                    |                     |                                                                                                                                                                                                 |                             |               |                                   |                              |        |                                         |       |
|---------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------|--------|-----------------------------------------|-------|
| Visit         | <b>Proposal 14096, 34 MCS-J0911.2+1746 IR1 (CB), completed</b> <span>Mon Aug 07 18:08:13 GMT 2017</span>                           |                     |                                                                                                                                                                                                 |                             |               |                                   |                              |        |                                         |       |
|               | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 80%; ORIENT 87D TO 87 D |                     |                                                                                                                                                                                                 |                             |               |                                   |                              |        |                                         |       |
| Fixed Targets | #                                                                                                                                  | Name                | Target Coordinates                                                                                                                                                                              | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                     |                              |        |                                         |       |
|               | (342)                                                                                                                              | MCS-J0911.2+1746-IR | RA: 09 11 11.3680 (137.7973667d)<br>Dec: +17 46 33.47 (17.77596d)<br>Equinox: J2000<br><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> |                             | V=18          | Reference Frame: SIMBAD           |                              |        |                                         |       |
| Exposures     | #                                                                                                                                  | Label               | Target                                                                                                                                                                                          | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                  | F140W               | (342) MCS-J0911.2+1746-IR                                                                                                                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                              |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                                                  | F105W               | (342) MCS-J0911.2+1746-IR                                                                                                                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                  | F105W               | (342) MCS-J0911.2+1746-IR                                                                                                                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                                                  | F140W               | (342) MCS-J0911.2+1746-IR                                                                                                                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                  | F125W               | (342) MCS-J0911.2+1746-IR                                                                                                                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                                                  | F160W               | (342) MCS-J0911.2+1746-IR                                                                                                                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 452.93635 Secs (452.936 Secs)<br>[==>]  | [1]   |
|               | 7                                                                                                                                  | F160W               | (342) MCS-J0911.2+1746-IR                                                                                                                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |        | 452.93635 Secs (452.936 Secs)<br>[==>]  | [1]   |
|               | 8                                                                                                                                  | F125W               | (342) MCS-J0911.2+1746-IR                                                                                                                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |



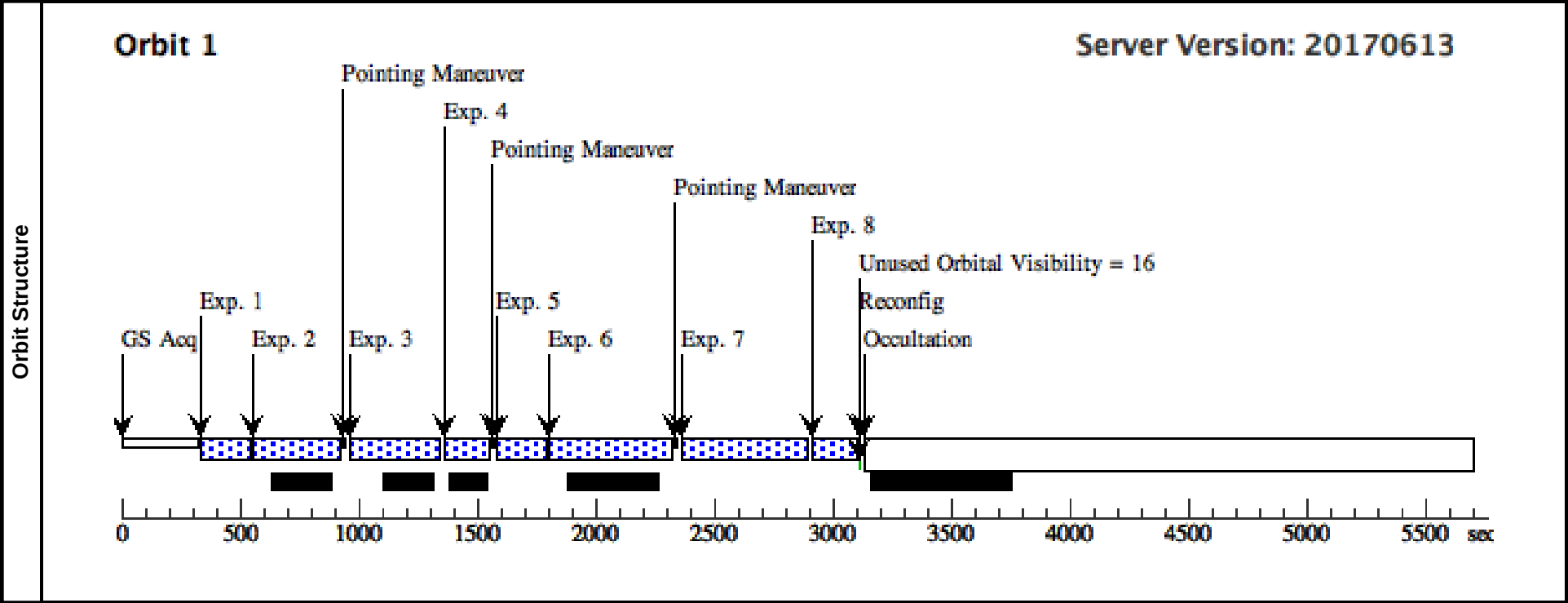
# Proposal 14096 - 34 MCS-J0911.2+1746 IR2 (CD) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                    |                     |                                                                                     |                             |                          |                                |                          |        |                                         |  |                              |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------|-----------------------------|--------------------------|--------------------------------|--------------------------|--------|-----------------------------------------|--|------------------------------|
| Visit                                                                                             | Proposal 14096, 34 MCS-J0911.2+1746 IR2 (CD), completed                            |                     |                                                                                     |                             |                          |                                |                          |        |                                         |  | Mon Aug 07 18:08:13 GMT 2017 |
|                                                                                                   | Diagnostic Status: Warning                                                         |                     |                                                                                     |                             |                          |                                |                          |        |                                         |  |                              |
|                                                                                                   | Scientific Instruments: WFC3/IR                                                    |                     |                                                                                     |                             |                          |                                |                          |        |                                         |  |                              |
|                                                                                                   | Special Requirements: SCHED 30%; SAME ORIENT AS CB; AFTER CB BY 40 D TO 60 D       |                     |                                                                                     |                             |                          |                                |                          |        |                                         |  |                              |
| Diagnostics                                                                                       | (34 MCS-J0911.2+1746 IR2 (CD)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |                     |                                                                                     |                             |                          |                                |                          |        |                                         |  |                              |
| Fixed Targets                                                                                     | #                                                                                  | Name                | Target Coordinates                                                                  |                             | Targ. Coord. Corrections |                                | Fluxes                   |        | Miscellaneous                           |  |                              |
|                                                                                                   | (342)                                                                              | MCS-J0911.2+1746-IR | RA: 09 11 11.3680 (137.7973667d)<br>Dec: +17 46 33.47 (17.77596d)<br>Equinox: J2000 |                             |                          |                                | V=18                     |        | Reference Frame: SIMBAD                 |  |                              |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                    |                     |                                                                                     |                             |                          |                                |                          |        |                                         |  |                              |
| Exposures                                                                                         | #                                                                                  | Label               | Target                                                                              | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.                   | Special Reqs.            | Groups | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |
|                                                                                                   | 1                                                                                  | F140W               | (342) MCS-J0911.2+1746-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 7.317,0.90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|                                                                                                   | 2                                                                                  | F105W               | (342) MCS-J0911.2+1746-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | SAME POS AS 1            |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |
|                                                                                                   | 3                                                                                  | F105W               | (342) MCS-J0911.2+1746-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0.47425,0.6055  |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |
|                                                                                                   | 4                                                                                  | F140W               | (342) MCS-J0911.2+1746-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 3            |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|                                                                                                   | 5                                                                                  | F125W               | (342) MCS-J0911.2+1746-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0             |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|                                                                                                   | 6                                                                                  | F160W               | (342) MCS-J0911.2+1746-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=12;<br>SAMP-SEQ=SPAR S50 | SAME POS AS 5            |        | 552.937252 Secs (552.937 Secs)<br>[==>] |  | [1]                          |
|                                                                                                   | 7                                                                                  | F160W               | (342) MCS-J0911.2+1746-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=12;<br>SAMP-SEQ=SPAR S50 | POS TARG 6.48275,0.30275 |        | 552.937252 Secs (552.937 Secs)<br>[==>] |  | [1]                          |
|                                                                                                   | 8                                                                                  | F125W               | (342) MCS-J0911.2+1746-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 7            |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|                                                                                                   |                                                                                    |                     |                                                                                     |                             |                          |                                |                          |        |                                         |  |                              |



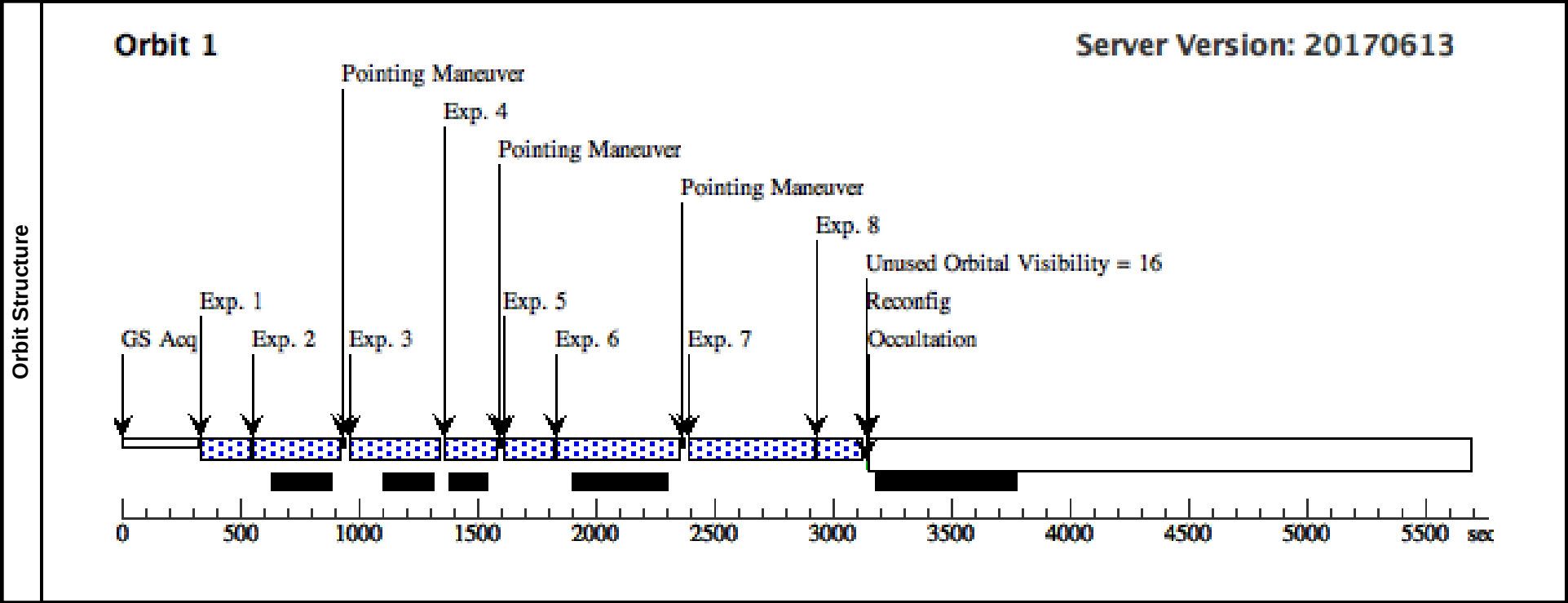
# Proposal 14096 - 35 ACO-S-295 IR1 (DB) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |           |                                                                                     |                             |                          |                                   |                              |        |                                         |  |                              |
|---------------|---------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|-----------------------------|--------------------------|-----------------------------------|------------------------------|--------|-----------------------------------------|--|------------------------------|
| Visit         | Proposal 14096, 35 ACO-S-295 IR1 (DB), completed                                                  |           |                                                                                     |                             |                          |                                   |                              |        |                                         |  | Mon Aug 07 18:08:13 GMT 2017 |
|               | Diagnostic Status: No Diagnostics                                                                 |           |                                                                                     |                             |                          |                                   |                              |        |                                         |  |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |           |                                                                                     |                             |                          |                                   |                              |        |                                         |  |                              |
|               | Special Requirements: SCHED 80%; ORIENT 311D TO 311 D                                             |           |                                                                                     |                             |                          |                                   |                              |        |                                         |  |                              |
| Fixed Targets | #                                                                                                 | Name      | Target Coordinates                                                                  |                             | Targ. Coord. Corrections |                                   | Fluxes                       |        | Miscellaneous                           |  |                              |
|               | (35)                                                                                              | ACO-S-295 | RA: 02 45 31.3871 (41.3807796d)<br>Dec: -53 02 24.85 (-53.04024d)<br>Equinox: J2000 |                             |                          |                                   | V=18                         |        | Reference Frame: SIMBAD                 |  |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |           |                                                                                     |                             |                          |                                   |                              |        |                                         |  |                              |
|               |                                                                                                   |           |                                                                                     |                             |                          |                                   |                              |        |                                         |  |                              |
| Exposures     | #                                                                                                 | Label     | Target                                                                              | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |
|               | 1                                                                                                 | F140W     | (35) ACO-S-295                                                                      | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                              |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|               | 2                                                                                                 | F105W     | (35) ACO-S-295                                                                      | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |
|               | 3                                                                                                 | F105W     | (35) ACO-S-295                                                                      | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |
|               | 4                                                                                                 | F140W     | (35) ACO-S-295                                                                      | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|               | 5                                                                                                 | F125W     | (35) ACO-S-295                                                                      | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |
|               | 6                                                                                                 | F160W     | (35) ACO-S-295                                                                      | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 502.936801 Secs (502.937 Secs)<br>[==>] |  | [1]                          |
|               | 7                                                                                                 | F160W     | (35) ACO-S-295                                                                      | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |        | 502.936801 Secs (502.937 Secs)<br>[==>] |  | [1]                          |
|               | 8                                                                                                 | F125W     | (35) ACO-S-295                                                                      | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |



# Proposal 14096 - 35 ACO-S-295 IR2 (DD) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |           |                                                                                     |                             |  |                          |                                   |                              |        |                                 |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|-----------------------------|--|--------------------------|-----------------------------------|------------------------------|--------|---------------------------------|-----------------------------------------|-------|
| Visit         | Proposal 14096, 35 ACO-S-295 IR2 (DD), completed                                                  |           |                                                                                     |                             |  |                          |                                   |                              |        |                                 | Mon Aug 07 18:08:13 GMT 2017            |       |
|               | Diagnostic Status: No Diagnostics                                                                 |           |                                                                                     |                             |  |                          |                                   |                              |        |                                 |                                         |       |
|               | Scientific Instruments: WFC3/IR                                                                   |           |                                                                                     |                             |  |                          |                                   |                              |        |                                 |                                         |       |
|               | Special Requirements: SCHED 70%; SAME ORIENT AS DB; AFTER DB BY 40 D TO 60 D                      |           |                                                                                     |                             |  |                          |                                   |                              |        |                                 |                                         |       |
| Fixed Targets | #                                                                                                 | Name      | Target Coordinates                                                                  |                             |  | Targ. Coord. Corrections |                                   | Fluxes                       |        | Miscellaneous                   |                                         |       |
|               | (35)                                                                                              | ACO-S-295 | RA: 02 45 31.3871 (41.3807796d)<br>Dec: -53 02 24.85 (-53.04024d)<br>Equinox: J2000 |                             |  |                          |                                   | V=18                         |        | Reference Frame: SIMBAD         |                                         |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |           |                                                                                     |                             |  |                          |                                   |                              |        |                                 |                                         |       |
|               |                                                                                                   |           |                                                                                     |                             |  |                          |                                   |                              |        |                                 |                                         |       |
| Exposures     | #                                                                                                 | Label     | Target                                                                              | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.] |                                         | Orbit |
|               | 1                                                                                                 | F140W     | (35) ACO-S-295                                                                      | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                 | F105W     | (35) ACO-S-295                                                                      | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        |                                 | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                 | F105W     | (35) ACO-S-295                                                                      | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,<br>0.6055  |        |                                 | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                 | F140W     | (35) ACO-S-295                                                                      | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        |                                 | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                 | F125W     | (35) ACO-S-295                                                                      | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0                 |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                 | F160W     | (35) ACO-S-295                                                                      | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        |                                 | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                 | F160W     | (35) ACO-S-295                                                                      | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,<br>0.30275 |        |                                 | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                 | F125W     | (35) ACO-S-295                                                                      | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        |                                 | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |

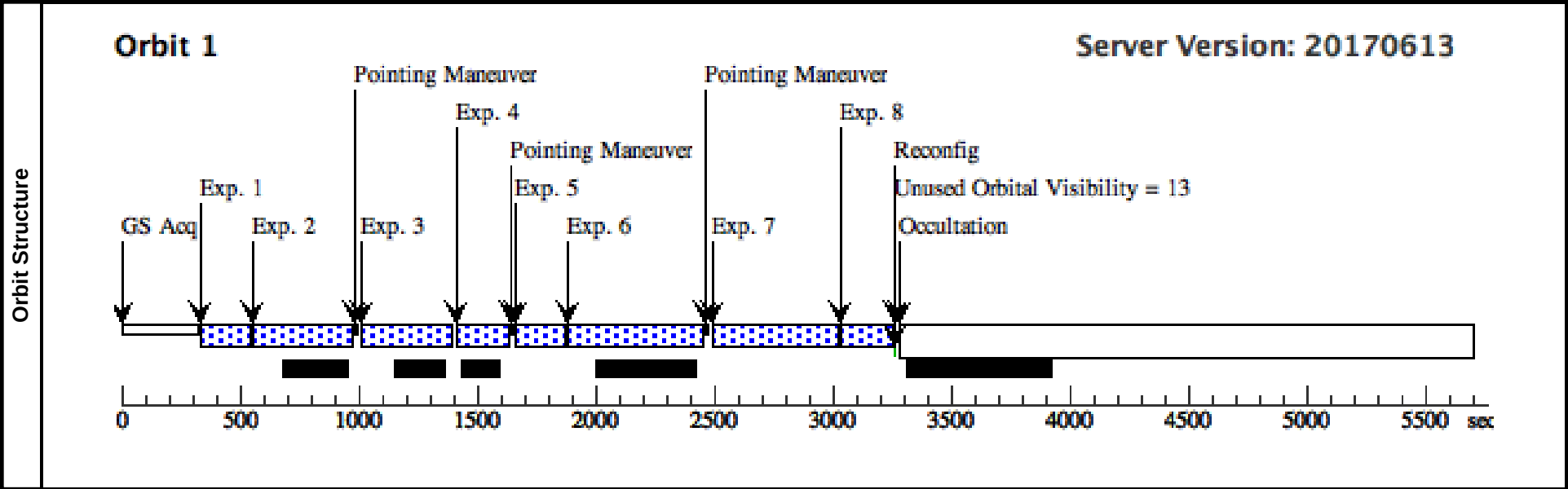


# Proposal 14096 - 36 SPT-CLJ0615-5746 ACS1 (EA) - RELICS: Reionization Lensing Cluster Survey

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                                                                                     |                          |               |                            |                              |                     |                                 |       |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------|--------------------------|---------------|----------------------------|------------------------------|---------------------|---------------------------------|-------|
| Visit           | Proposal 14096, 36 SPT-CLJ0615-5746 ACS1 (EA), completed                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                                                                                     |                          |               |                            | Mon Aug 07 18:08:13 GMT 2017 |                     |                                 |       |
|                 | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                                                                                     |                          |               |                            |                              |                     |                                 |       |
|                 | Scientific Instruments: ACS/WFC                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                                                                                     |                          |               |                            |                              |                     |                                 |       |
|                 | Special Requirements: SCHED 50%; ORIENT 27D TO 27 D                                                                                                                                                                                                                                                                                                                                                                                                                                   |                            |                                                                                     |                          |               |                            |                              |                     |                                 |       |
| Diagnostics     | (36 SPT-CLJ0615-5746 ACS1 (EA)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                                                                                                                                                   |                            |                                                                                     |                          |               |                            |                              |                     |                                 |       |
| Fixed Targets   | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Name                       | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes        | Miscellaneous              |                              |                     |                                 |       |
|                 | (361)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SPT-CLJ0615-5746-ACS       | RA: 06 15 50.0799 (93.9586662d)<br>Dec: -57 46 36.04 (-57.77668d)<br>Equinox: J2000 |                          | V=18          | Reference Frame: SIMBAD    |                              |                     |                                 |       |
|                 | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                                                                                                                                                                                                                     |                            |                                                                                     |                          |               |                            |                              |                     |                                 |       |
| Exposures       | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Label                      | Target                                                                              | Config,Mode,Aperture     | Spectral Els. | Opt. Params.               | Special Reqs.                | Groups              | Exp. Time (Total)/[Actual Dur.] | Orbit |
|                 | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                            | (361) SPT-CLJ0615-5746-ACS                                                          | ACS/WFC, ACCUM, WFCENTER | F435W         |                            |                              |                     | 563 Secs (563 Secs)             |       |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                                                                                     |                          |               |                            |                              |                     | [==>]                           | [1]   |
|                 | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                            | (361) SPT-CLJ0615-5746-ACS                                                          | ACS/WFC, ACCUM, WFCENTER | F435W         |                            | POS TARG 0.0741,2<br>.970    |                     | 562 Secs (562 Secs)             |       |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                                                                                     |                          |               |                            |                              |                     | [==>]                           | [1]   |
|                 | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                            | (361) SPT-CLJ0615-5746-ACS                                                          | ACS/WFC, ACCUM, WFCENTER | F435W         |                            | POS TARG 0.1976,5<br>.9687   |                     | 562 Secs (562 Secs)             |       |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                                                                                     |                          |               |                            |                              |                     | [==>]                           | [1]   |
| 4               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (361) SPT-CLJ0615-5746-ACS | ACS/WFC, ACCUM, WFCENTER                                                            | F435W                    |               | POS TARG 0.2717,8<br>.9367 |                              | 562 Secs (562 Secs) |                                 |       |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                                                                                     |                          |               |                            |                              | [==>]               | [1]                             |       |
| Orbit Structure | <div>Orbit 1<div>Server Version: 20170613</div><div>GS Acq</div><div>Exp. 1</div><div>Exp. 2</div><div>Exp. 3</div><div>Exp. 4</div><div>Pointing Maneuver</div><div>Pointing Maneuver</div><div>Pointing Maneuver</div><div>Occultation</div><div>*** ORBITAL VISIBILITY OVERRUN = 8</div><div>0</div><div>500</div><div>1000</div><div>1500</div><div>2000</div><div>2500</div><div>3000</div><div>3500</div><div>4000</div><div>4500</div><div>5000</div><div>5500 sec</div></div> |                            |                                                                                     |                          |               |                            |                              |                     |                                 |       |

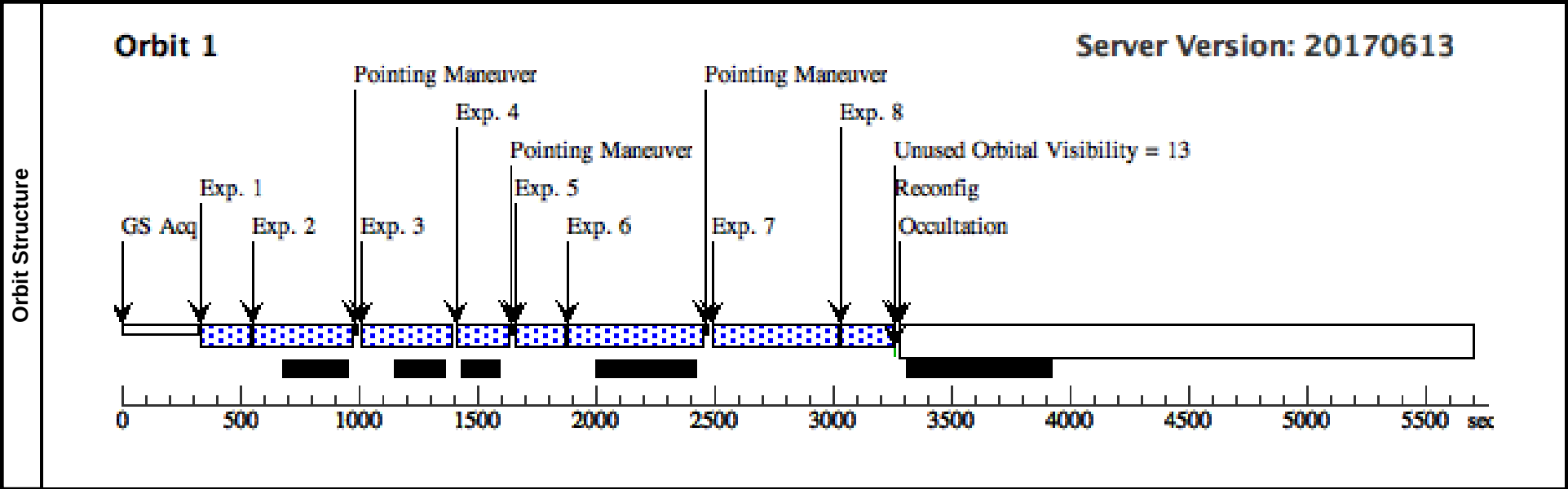
# Proposal 14096 - 36 SPT-CLJ0615-5746 IR1 (EB) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                     |                                                                                     |                             |               |                                   |                              |        |                                         |       |                              |
|---------------|---------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------|--------|-----------------------------------------|-------|------------------------------|
| Visit         | Proposal 14096, 36 SPT-CLJ0615-5746 IR1 (EB), completed                                           |                     |                                                                                     |                             |               |                                   |                              |        |                                         |       | Mon Aug 07 18:08:13 GMT 2017 |
|               | Diagnostic Status: No Diagnostics                                                                 |                     |                                                                                     |                             |               |                                   |                              |        |                                         |       |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |                     |                                                                                     |                             |               |                                   |                              |        |                                         |       |                              |
|               | Special Requirements: SCHED 50%; ORIENT 69D TO 69 D; AFTER EA BY 0.9 Orbits TO 1.1 Orbits         |                     |                                                                                     |                             |               |                                   |                              |        |                                         |       |                              |
| Fixed Targets | #                                                                                                 | Name                | Target Coordinates                                                                  | Targ. Coord. Corrections    |               |                                   | Fluxes                       |        | Miscellaneous                           |       |                              |
|               | (362)                                                                                             | SPT-CLJ0615-5746-IR | RA: 06 15 54.2352 (93.9759800d)<br>Dec: -57 46 57.91 (-57.78275d)<br>Equinox: J2000 |                             |               |                                   | V=18                         |        | Reference Frame: SIMBAD                 |       |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                     |                                                                                     |                             |               |                                   |                              |        |                                         |       |                              |
|               |                                                                                                   |                     |                                                                                     |                             |               |                                   |                              |        |                                         |       |                              |
| Exposures     | #                                                                                                 | Label               | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |                              |
|               | 1                                                                                                 | F140W               | (362) SPT-CLJ0615-5746-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                              |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |                              |
|               | 2                                                                                                 | F105W               | (362) SPT-CLJ0615-5746-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 402.935899 Secs (402.936 Secs)<br>[==>] | [1]   |                              |
|               | 3                                                                                                 | F105W               | (362) SPT-CLJ0615-5746-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |                              |
|               | 4                                                                                                 | F140W               | (362) SPT-CLJ0615-5746-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |                              |
|               | 5                                                                                                 | F125W               | (362) SPT-CLJ0615-5746-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |                              |
|               | 6                                                                                                 | F160W               | (362) SPT-CLJ0615-5746-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 552.937252 Secs (552.937 Secs)<br>[==>] | [1]   |                              |
|               | 7                                                                                                 | F160W               | (362) SPT-CLJ0615-5746-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |                              |
|               | 8                                                                                                 | F125W               | (362) SPT-CLJ0615-5746-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |                              |



# Proposal 14096 - 36 SPT-CLJ0615-5746 IR2 (ED) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                                                                             |                     |                                                                                                                                                                                                 |                             |               |                                   |                           |        |                                         |       |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|---------------------------|--------|-----------------------------------------|-------|
| Visit         | <b>Proposal 14096, 36 SPT-CLJ0615-5746 IR2 (ED), completed</b> <span style="float: right;">Mon Aug 07 18:08:13 GMT 2017</span>                              |                     |                                                                                                                                                                                                 |                             |               |                                   |                           |        |                                         |       |
|               | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 50%; SAME ORIENT AS EB; AFTER EB BY 40 D TO 60 D |                     |                                                                                                                                                                                                 |                             |               |                                   |                           |        |                                         |       |
| Fixed Targets | #                                                                                                                                                           | Name                | Target Coordinates                                                                                                                                                                              | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                     |                           |        |                                         |       |
|               | (362)                                                                                                                                                       | SPT-CLJ0615-5746-IR | RA: 06 15 54.2352 (93.9759800d)<br>Dec: -57 46 57.91 (-57.78275d)<br>Equinox: J2000<br><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> |                             | V=18          | Reference Frame: SIMBAD           |                           |        |                                         |       |
| Exposures     | #                                                                                                                                                           | Label               | Target                                                                                                                                                                                          | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.             | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                                           | F140W               | (362) SPT-CLJ0615-5746-IR                                                                                                                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.90825    |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                                                                           | F105W               | (362) SPT-CLJ0615-5746-IR                                                                                                                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1             |        | 402.935899 Secs (402.936 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                                           | F105W               | (362) SPT-CLJ0615-5746-IR                                                                                                                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425, 0.6055  |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                                                                           | F140W               | (362) SPT-CLJ0615-5746-IR                                                                                                                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3             |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                                           | F125W               | (362) SPT-CLJ0615-5746-IR                                                                                                                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0              |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                                                                           | F160W               | (362) SPT-CLJ0615-5746-IR                                                                                                                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5             |        | 552.937252 Secs (552.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                                                                           | F160W               | (362) SPT-CLJ0615-5746-IR                                                                                                                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275, 0.30275 |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                                                                           | F125W               | (362) SPT-CLJ0615-5746-IR                                                                                                                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7             |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |

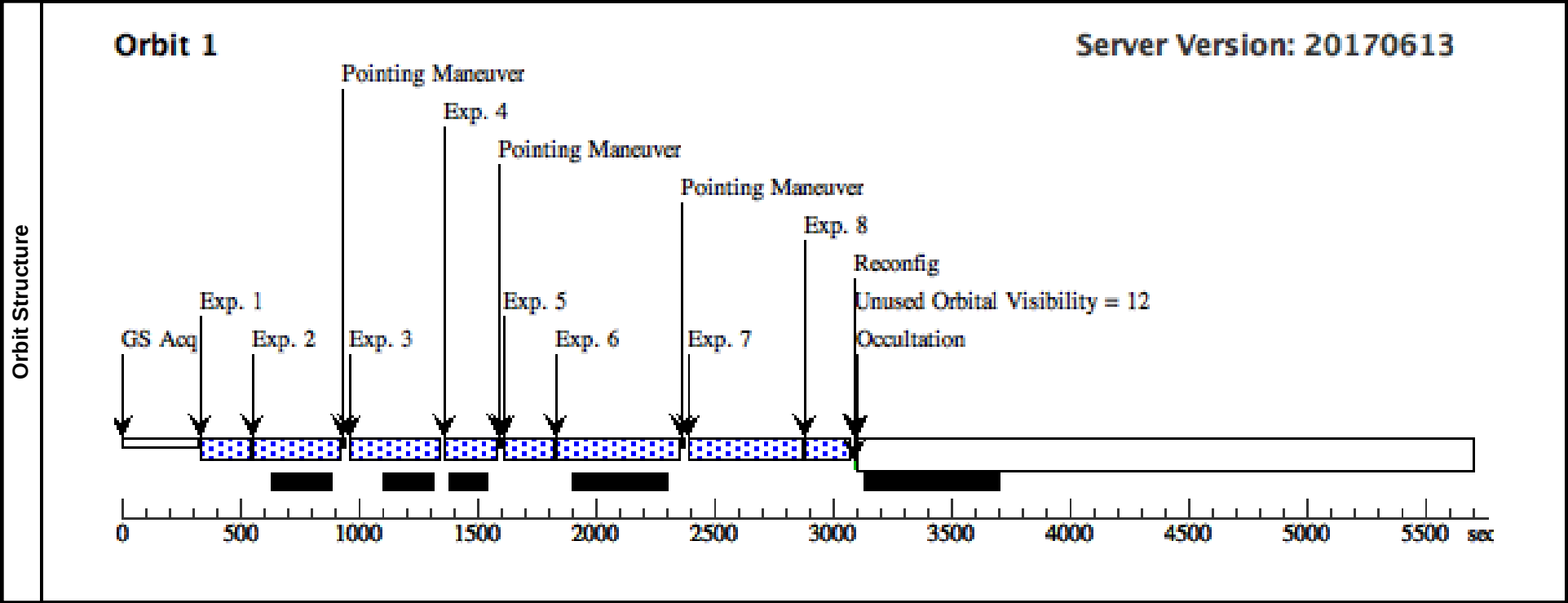


# Proposal 14096 - 37 MCS-J0257.1-2325 ACS1 (FA) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                                                                                                                                                                             |                        |                                                                                   |                          |               |                              |                             |        |                                 |       |
|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------|--------------------------|---------------|------------------------------|-----------------------------|--------|---------------------------------|-------|
| Visit                                                                                             | Proposal 14096, 37 MCS-J0257.1-2325 ACS1 (FA), completed                                                                                                                                                                                    |                        |                                                                                   |                          |               | Mon Aug 07 18:08:13 GMT 2017 |                             |        |                                 |       |
|                                                                                                   | Diagnostic Status: Warning                                                                                                                                                                                                                  |                        |                                                                                   |                          |               |                              |                             |        |                                 |       |
|                                                                                                   | Scientific Instruments: ACS/WFC                                                                                                                                                                                                             |                        |                                                                                   |                          |               |                              |                             |        |                                 |       |
|                                                                                                   | Special Requirements: SCHED 40%; ORIENT 63D TO 63 D                                                                                                                                                                                         |                        |                                                                                   |                          |               |                              |                             |        |                                 |       |
| Diagnostics                                                                                       | (37 MCS-J0257.1-2325 ACS1 (FA)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                         |                        |                                                                                   |                          |               |                              |                             |        |                                 |       |
| Fixed Targets                                                                                     | #                                                                                                                                                                                                                                           | Name                   | Target Coordinates                                                                | Targ. Coord. Corrections | Fluxes        | Miscellaneous                |                             |        |                                 |       |
|                                                                                                   | (371)                                                                                                                                                                                                                                       | MCS-J0257.1-2325-F435W | RA: 02 57 8.0162 (44.2834008d)<br>Dec: -23 26 7.41 (-23.43539d)<br>Equinox: J2000 |                          | V=18          | Reference Frame: SIMBAD      |                             |        |                                 |       |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                                                                                                                                                                             |                        |                                                                                   |                          |               |                              |                             |        |                                 |       |
| Exposures                                                                                         | #                                                                                                                                                                                                                                           | Label                  | Target                                                                            | Config,Mode,Aperture     | Spectral Els. | Opt. Params.                 | Special Reqs.               | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|                                                                                                   | 1                                                                                                                                                                                                                                           |                        | (371) MCS-J0257.1-2325-F435W                                                      | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | GS ACQ SCENARI<br>O BASE1B3 |        | 543 Secs (543 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                             |                        |                                                                                   |                          |               |                              |                             |        | [==>]                           | [1]   |
|                                                                                                   | 2                                                                                                                                                                                                                                           |                        | (371) MCS-J0257.1-2325-F435W                                                      | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | POS TARG 0.0741,2<br>.970   |        | 543 Secs (543 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                             |                        |                                                                                   |                          |               |                              |                             |        | [==>]                           | [1]   |
|                                                                                                   | 3                                                                                                                                                                                                                                           |                        | (371) MCS-J0257.1-2325-F435W                                                      | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | POS TARG 0.1976,5<br>.9687  |        | 543 Secs (543 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                             |                        |                                                                                   |                          |               |                              |                             |        | [==>]                           | [1]   |
|                                                                                                   | 4                                                                                                                                                                                                                                           |                        | (371) MCS-J0257.1-2325-F435W                                                      | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | POS TARG 0.2717,8<br>.9367  |        | 542 Secs (542 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                             |                        |                                                                                   |                          |               |                              |                             |        | [==>]                           | [1]   |
| Orbit Structure                                                                                   | <div>Orbit 1<div>Server Version: 20170613</div><div>GS Acq Exp. 1<div>Pointing Maneuver</div>Exp. 2<div>Pointing Maneuver</div>Exp. 3<div>Pointing Maneuver</div>Exp. 4<div>Occultation</div>*** ORBITAL VISIBILITY OVERRUN = 4</div></div> |                        |                                                                                   |                          |               |                              |                             |        |                                 |       |
|                                                                                                   |                                                                                                                                                                                                                                             |                        |                                                                                   |                          |               |                              |                             |        |                                 |       |

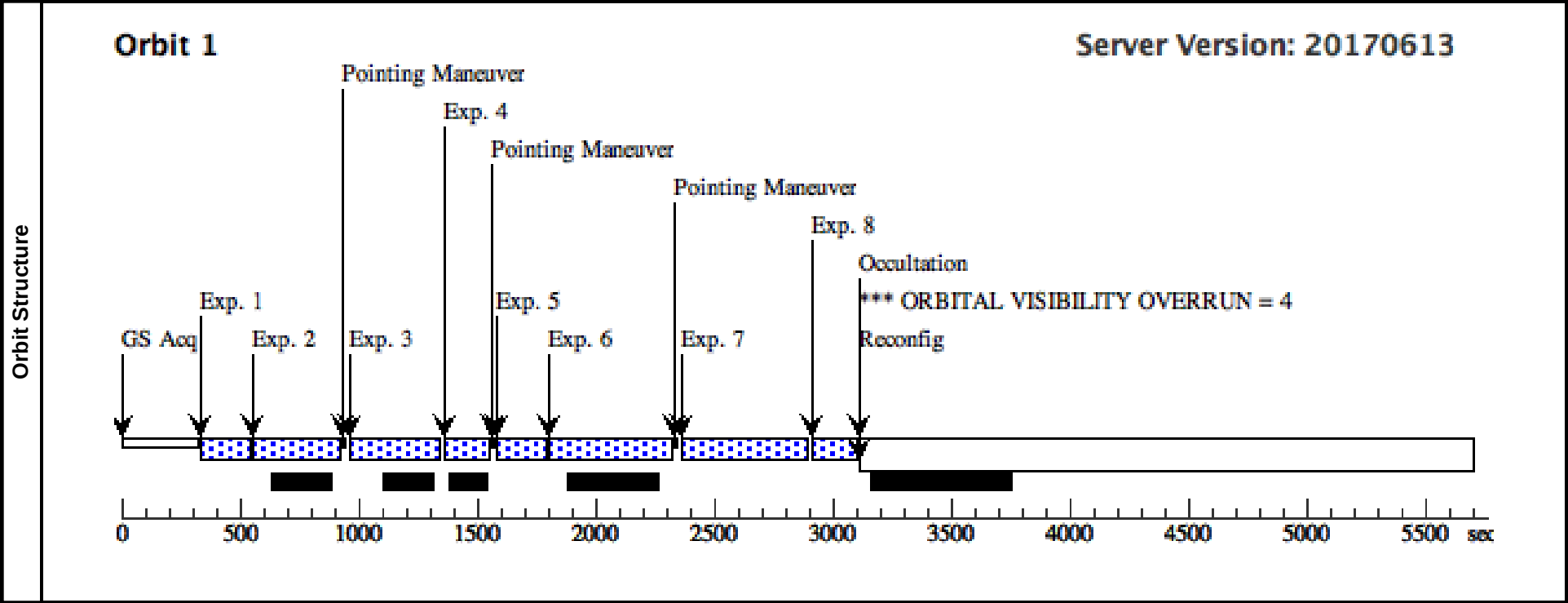
# Proposal 14096 - 37 MCS-J0257.1-2325 IR1 (FB) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                     |                                                                                     |                             |               |                                |                              |        |                                         |                         |                              |  |
|---------------|---------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|------------------------------|--------|-----------------------------------------|-------------------------|------------------------------|--|
| Visit         | Proposal 14096, 37 MCS-J0257.1-2325 IR1 (FB), completed                                           |                     |                                                                                     |                             |               |                                |                              |        |                                         |                         | Mon Aug 07 18:08:13 GMT 2017 |  |
|               | Diagnostic Status: No Diagnostics                                                                 |                     |                                                                                     |                             |               |                                |                              |        |                                         |                         |                              |  |
|               | Scientific Instruments: WFC3/IR                                                                   |                     |                                                                                     |                             |               |                                |                              |        |                                         |                         |                              |  |
|               | Special Requirements: SCHED 70%; ORIENT 289D TO 289 D                                             |                     |                                                                                     |                             |               |                                |                              |        |                                         |                         |                              |  |
| Fixed Targets | #                                                                                                 | Name                | Target Coordinates                                                                  |                             |               | Targ. Coord. Corrections       |                              | Fluxes |                                         | Miscellaneous           |                              |  |
|               | (372)                                                                                             | MCS-J0257.1-2325-IR | RA: 02 57 10.2358 (44.2926492d)<br>Dec: -23 26 11.84 (-23.43662d)<br>Equinox: J2000 |                             |               |                                |                              | V=18   |                                         | Reference Frame: SIMBAD |                              |  |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                     |                                                                                     |                             |               |                                |                              |        |                                         |                         |                              |  |
|               |                                                                                                   |                     |                                                                                     |                             |               |                                |                              |        |                                         |                         |                              |  |
| Exposures     | #                                                                                                 | Label               | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         |                         | Orbit                        |  |
|               | 1                                                                                                 | F140W               | (372) MCS-J0257.1-2325-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | GS ACQ SCENARI<br>O BASE1B3  |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |  |
|               | 2                                                                                                 | F105W               | (372) MCS-J0257.1-2325-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |  |
|               | 3                                                                                                 | F105W               | (372) MCS-J0257.1-2325-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 6.84275,<br>0.30275 |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |  |
|               | 4                                                                                                 | F140W               | (372) MCS-J0257.1-2325-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 3                |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                         | [1]                          |  |
|               | 5                                                                                                 | F125W               | (372) MCS-J0257.1-2325-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |  |
|               | 6                                                                                                 | F160W               | (372) MCS-J0257.1-2325-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | SAME POS AS 5                |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |  |
|               | 7                                                                                                 | F160W               | (372) MCS-J0257.1-2325-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR S50 | POS TARG 0.47425,<br>0.6055  |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |                         | [1]                          |  |
|               | 8                                                                                                 | F125W               | (372) MCS-J0257.1-2325-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 7                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |  |



# Proposal 14096 - 37 MCS-J0257.1-2325 IR2 (FD) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                     |                                                                                     |                             |               |                                |                                                     |                         |                                         |       |
|---------------|---------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|-----------------------------------------------------|-------------------------|-----------------------------------------|-------|
| Visit         | Proposal 14096, 37 MCS-J0257.1-2325 IR2 (FD), completed                                           |                     |                                                                                     |                             |               |                                |                                                     |                         | Mon Aug 07 18:08:13 GMT 2017            |       |
|               | Diagnostic Status: Warning                                                                        |                     |                                                                                     |                             |               |                                |                                                     |                         |                                         |       |
|               | Scientific Instruments: WFC3/IR                                                                   |                     |                                                                                     |                             |               |                                |                                                     |                         |                                         |       |
|               | Special Requirements: SCHED 60%; SAME ORIENT AS FB; AFTER FB BY 40 D TO 60 D                      |                     |                                                                                     |                             |               |                                |                                                     |                         |                                         |       |
| Diagnostics   | (37 MCS-J0257.1-2325 IR2 (FD)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                |                     |                                                                                     |                             |               |                                |                                                     |                         |                                         |       |
| Fixed Targets | #                                                                                                 | Name                | Target Coordinates                                                                  | Targ. Coord. Corrections    |               | Fluxes                         |                                                     | Miscellaneous           |                                         |       |
|               | (372)                                                                                             | MCS-J0257.1-2325-IR | RA: 02 57 10.2358 (44.2926492d)<br>Dec: -23 26 11.84 (-23.43662d)<br>Equinox: J2000 |                             |               | V=18                           |                                                     | Reference Frame: SIMBAD |                                         |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                     |                                                                                     |                             |               |                                |                                                     |                         |                                         |       |
| Exposures     | #                                                                                                 | Label               | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                                       | Groups                  | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                 | F140W               | (372) MCS-J0257.1-2325-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 7.317,0.90825;<br>GS ACQ SCENARI O BASE1B3 |                         | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                 | F105W               | (372) MCS-J0257.1-2325-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | SAME POS AS 1                                       |                         | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                 | F105W               | (372) MCS-J0257.1-2325-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0.47425, 0.6055                            |                         | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                 | F140W               | (372) MCS-J0257.1-2325-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 3                                       |                         | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                 | F125W               | (372) MCS-J0257.1-2325-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0                                        |                         | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                 | F160W               | (372) MCS-J0257.1-2325-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | SAME POS AS 5                                       |                         | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                 | F160W               | (372) MCS-J0257.1-2325-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | POS TARG 6.48275, 0.30275                           |                         | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                 | F125W               | (372) MCS-J0257.1-2325-IR                                                           | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 7                                       |                         | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |

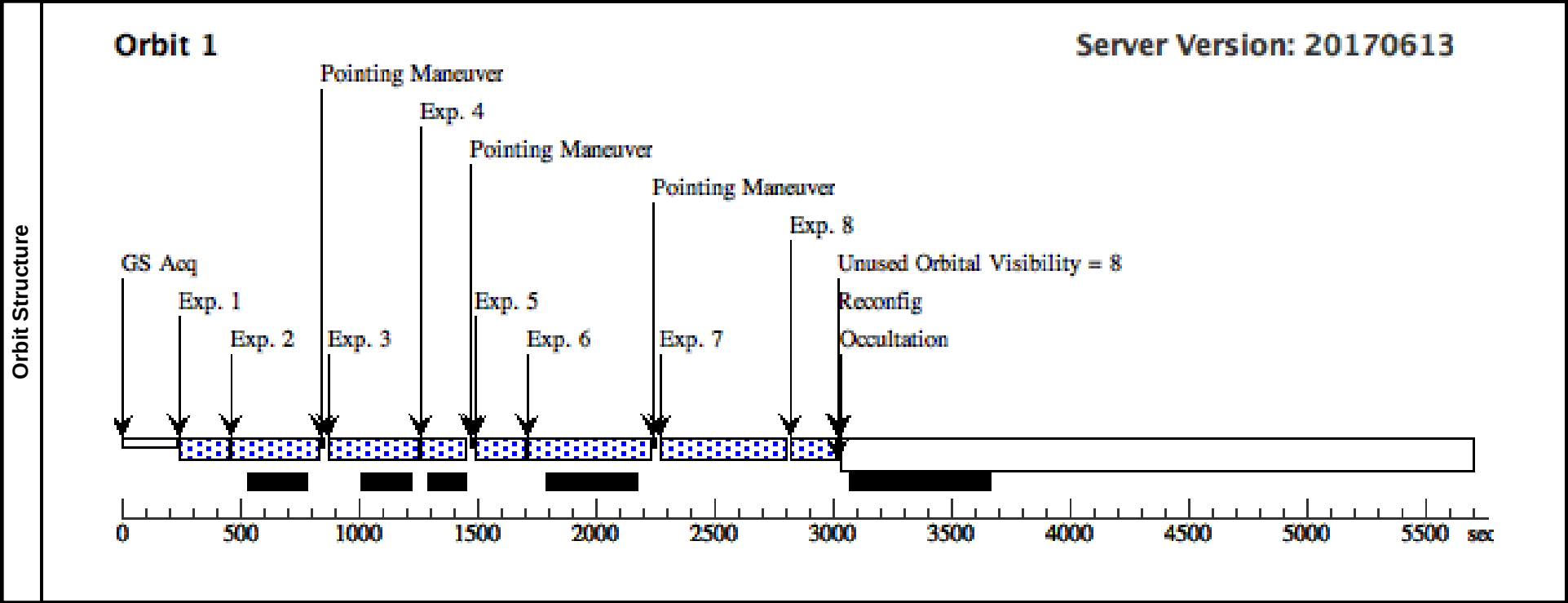


# Proposal 14096 - 38 ACO-2537 ACS1 (GA) - RELICS: Reionization Lensing Cluster Survey

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |                                                                                     |                          |               |                              |                            |        |                                 |       |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|--------------------------|---------------|------------------------------|----------------------------|--------|---------------------------------|-------|
| Visit           | Proposal 14096, 38 ACO-2537 ACS1 (GA), completed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |                                                                                     |                          |               | Mon Aug 07 18:08:14 GMT 2017 |                            |        |                                 |       |
|                 | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |                                                                                     |                          |               |                              |                            |        |                                 |       |
|                 | Scientific Instruments: ACS/WFC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |                                                                                     |                          |               |                              |                            |        |                                 |       |
|                 | Special Requirements: SCHED 70%; ORIENT 70.5D TO 70.5 D; ORIENT 250.5D TO 250.5 D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |                                                                                     |                          |               |                              |                            |        |                                 |       |
| Diagnostics     | (38 ACO-2537 ACS1 (GA)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |                                                                                     |                          |               |                              |                            |        |                                 |       |
| Fixed Targets   | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Name         | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes        | Miscellaneous                |                            |        |                                 |       |
|                 | (381)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ACO-2537-ACS | RA: 23 08 21.4718 (347.0894658d)<br>Dec: -02 11 31.32 (-2.19203d)<br>Equinox: J2000 |                          | V=18          | Reference Frame: SIMBAD      |                            |        |                                 |       |
|                 | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |                                                                                     |                          |               |                              |                            |        |                                 |       |
| Exposures       | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Label        | Target                                                                              | Config,Mode,Aperture     | Spectral Els. | Opt. Params.                 | Special Reqs.              | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|                 | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              | (381) ACO-2537-AC<br>S                                                              | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | GS ACQ SCENARI<br>O SINGLE |        | 541 Secs (541 Secs)             |       |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |                                                                                     |                          |               |                              |                            |        | [==>]                           | [1]   |
|                 | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              | (381) ACO-2537-AC<br>S                                                              | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | POS TARG 0.0741,2<br>.970  |        | 541 Secs (541 Secs)             |       |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |                                                                                     |                          |               |                              |                            |        | [==>]                           | [1]   |
|                 | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              | (381) ACO-2537-AC<br>S                                                              | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | POS TARG 0.1976,5<br>.9687 |        | 540 Secs (540 Secs)             |       |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |                                                                                     |                          |               |                              |                            | [==>]  | [1]                             |       |
|                 | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              | (381) ACO-2537-AC<br>S                                                              | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | POS TARG 0.2717,8<br>.9367 |        | 540 Secs (540 Secs)             |       |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |                                                                                     |                          |               |                              |                            | [==>]  | [1]                             |       |
| Orbit Structure | <div>Orbit 1<div>Server Version: 20170613</div><p>The diagram shows a timeline from 0 to 5500 seconds. A blue checkered bar represents the total exposure time, with four segments labeled Exp. 1, Exp. 2, Exp. 3, and Exp. 4. Above each segment is a green box with a double-headed arrow. Vertical arrows labeled 'Pointing Maneuver' point to the start of each exposure segment. A vertical arrow labeled 'GS Acq' points to the start of the first exposure segment. A vertical arrow labeled 'Occultation' points to the start of the occultation period, which is represented by a solid black bar. The text '*** ORBITAL VISIBILITY OVERRUN = 9' is displayed above the occultation bar.</p></div> |              |                                                                                     |                          |               |                              |                            |        |                                 |       |

# Proposal 14096 - 38 ACO-2537 IR1 (GB) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                               |             |                                                                                     |                             |               |                                |                              |        |                                         |                         |                              |
|---------------|---------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|-----------------------------|---------------|--------------------------------|------------------------------|--------|-----------------------------------------|-------------------------|------------------------------|
| Visit         | Proposal 14096, 38 ACO-2537 IR1 (GB), completed                                                               |             |                                                                                     |                             |               |                                |                              |        |                                         |                         | Mon Aug 07 18:08:14 GMT 2017 |
|               | Diagnostic Status: No Diagnostics                                                                             |             |                                                                                     |                             |               |                                |                              |        |                                         |                         |                              |
|               | Scientific Instruments: WFC3/IR                                                                               |             |                                                                                     |                             |               |                                |                              |        |                                         |                         |                              |
|               | Special Requirements: SCHED 80%; ORIENT 50D TO 50 D; ORIENT 230D TO 230 D; AFTER GA BY 1 Orbits TO 1.1 Orbits |             |                                                                                     |                             |               |                                |                              |        |                                         |                         |                              |
| Fixed Targets | #                                                                                                             | Name        | Target Coordinates                                                                  |                             |               | Targ. Coord. Corrections       |                              | Fluxes |                                         | Miscellaneous           |                              |
|               | (382)                                                                                                         | ACO-2537-IR | RA: 23 08 22.2247 (347.0926029d)<br>Dec: -02 11 32.39 (-2.19233d)<br>Equinox: J2000 |                             |               |                                |                              | V=18   |                                         | Reference Frame: SIMBAD |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.             |             |                                                                                     |                             |               |                                |                              |        |                                         |                         |                              |
|               |                                                                                                               |             |                                                                                     |                             |               |                                |                              |        |                                         |                         |                              |
| Exposures     | #                                                                                                             | Label       | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                   | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         |                         | Orbit                        |
|               | 1                                                                                                             | F140W       | (382) ACO-2537-IR                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | GS ACQ SCENARI<br>O SINGLE   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 2                                                                                                             | F105W       | (382) ACO-2537-IR                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|               | 3                                                                                                             | F105W       | (382) ACO-2537-IR                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 6.84275,<br>0.30275 |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|               | 4                                                                                                             | F140W       | (382) ACO-2537-IR                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 3                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 5                                                                                                             | F125W       | (382) ACO-2537-IR                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 6                                                                                                             | F160W       | (382) ACO-2537-IR                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | SAME POS AS 5                |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |
|               | 7                                                                                                             | F160W       | (382) ACO-2537-IR                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR S50 | POS TARG 0.47425,<br>0.6055  |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |
|               | 8                                                                                                             | F125W       | (382) ACO-2537-IR                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 7                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |

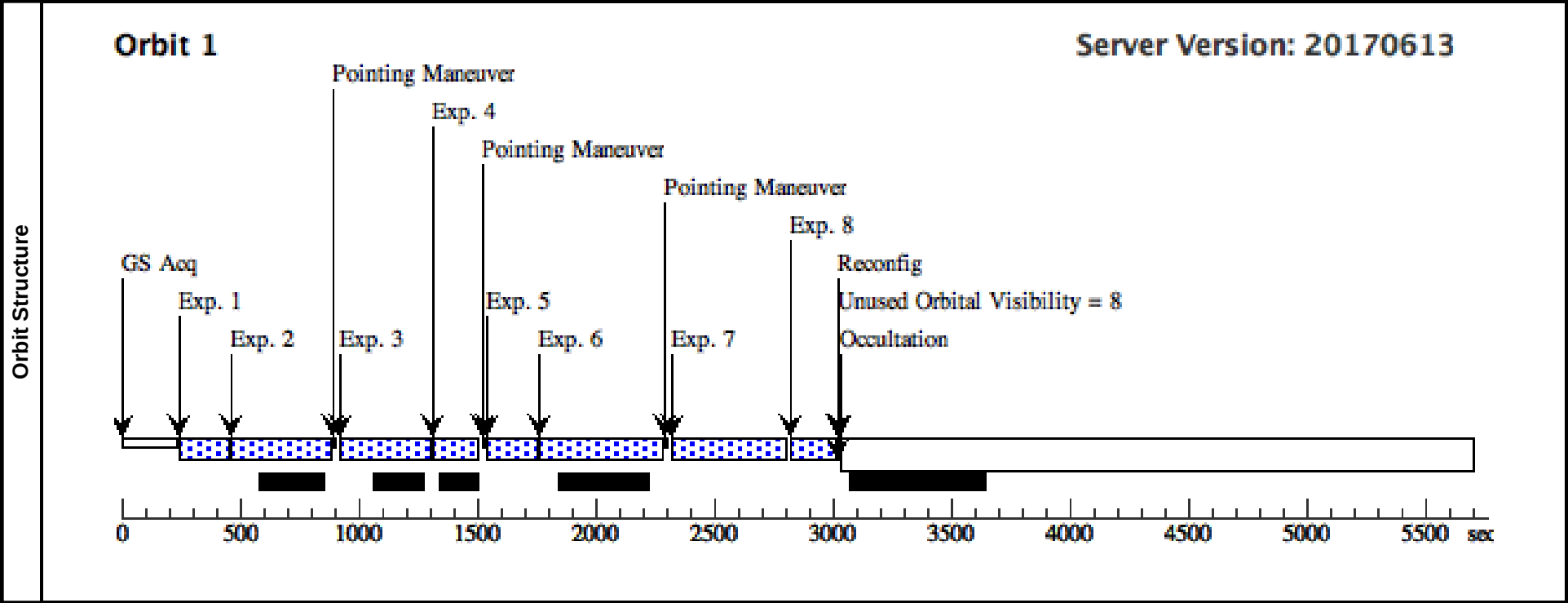


# Proposal 14096 - 38 ACO-2537 ACS2 (GC) - RELICS: Reionization Lensing Cluster Survey

|                 |                                                                                                                 |              |                                                                                     |                          |               |                         |                              |        |                                 |       |
|-----------------|-----------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|--------------------------|---------------|-------------------------|------------------------------|--------|---------------------------------|-------|
| Visit           | Proposal 14096, 38 ACO-2537 ACS2 (GC), completed                                                                |              |                                                                                     |                          |               |                         | Mon Aug 07 18:08:14 GMT 2017 |        |                                 |       |
|                 | Diagnostic Status: Warning                                                                                      |              |                                                                                     |                          |               |                         |                              |        |                                 |       |
|                 | Scientific Instruments: ACS/WFC                                                                                 |              |                                                                                     |                          |               |                         |                              |        |                                 |       |
|                 | Special Requirements: SCHED 70%; SAME ORIENT AS GA; AFTER GA BY 40 D TO 60 D                                    |              |                                                                                     |                          |               |                         |                              |        |                                 |       |
| Diagnostics     | (38 ACO-2537 ACS2 (GC)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                     |              |                                                                                     |                          |               |                         |                              |        |                                 |       |
| Fixed Targets   | #                                                                                                               | Name         | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes        | Miscellaneous           |                              |        |                                 |       |
|                 | (381)                                                                                                           | ACO-2537-ACS | RA: 23 08 21.4718 (347.0894658d)<br>Dec: -02 11 31.32 (-2.19203d)<br>Equinox: J2000 |                          | V=18          | Reference Frame: SIMBAD |                              |        |                                 |       |
|                 | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.               |              |                                                                                     |                          |               |                         |                              |        |                                 |       |
| Exposures       | #                                                                                                               | Label        | Target                                                                              | Config,Mode,Aperture     | Spectral Els. | Opt. Params.            | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|                 | 1                                                                                                               |              | (381) ACO-2537-AC<br>S                                                              | ACS/WFC, ACCUM, WFCENTER | F814W         |                         | GS ACQ SCENARI<br>O SINGLE   |        | 541 Secs (541 Secs)             |       |
|                 |                                                                                                                 |              |                                                                                     |                          |               |                         |                              |        | [==>]                           | [1]   |
|                 | 2                                                                                                               |              | (381) ACO-2537-AC<br>S                                                              | ACS/WFC, ACCUM, WFCENTER | F814W         |                         | POS TARG 0.0741,2<br>.970    |        | 541 Secs (541 Secs)             |       |
|                 |                                                                                                                 |              |                                                                                     |                          |               |                         |                              |        | [==>]                           | [1]   |
|                 | 3                                                                                                               |              | (381) ACO-2537-AC<br>S                                                              | ACS/WFC, ACCUM, WFCENTER | F814W         |                         | POS TARG 0.1976,5<br>.9687   |        | 540 Secs (540 Secs)             |       |
|                 |                                                                                                                 |              |                                                                                     |                          |               |                         |                              |        | [==>]                           | [1]   |
|                 | 4                                                                                                               |              | (381) ACO-2537-AC<br>S                                                              | ACS/WFC, ACCUM, WFCENTER | F814W         |                         | POS TARG 0.2717,8<br>.9367   |        | 540 Secs (540 Secs)             |       |
|                 |                                                                                                                 |              |                                                                                     |                          |               |                         |                              | [==>]  | [1]                             |       |
| Orbit Structure | <div>Orbit 1<div>Server Version: 20170613</div><div>05001000150020002500300035004000450050005500sec</div></div> |              |                                                                                     |                          |               |                         |                              |        |                                 |       |

# Proposal 14096 - 38 ACO-2537 IR2 (GD) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |             |                                                                                     |                             |                          |                                   |                                                   |        |                                         |  |       |
|---------------|---------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|-----------------------------|--------------------------|-----------------------------------|---------------------------------------------------|--------|-----------------------------------------|--|-------|
| Visit         | Proposal 14096, 38 ACO-2537 IR2 (GD), completed                                                   |             |                                                                                     |                             |                          |                                   |                                                   |        | Mon Aug 07 18:08:14 GMT 2017            |  |       |
|               | Diagnostic Status: No Diagnostics                                                                 |             |                                                                                     |                             |                          |                                   |                                                   |        |                                         |  |       |
|               | Scientific Instruments: WFC3/IR                                                                   |             |                                                                                     |                             |                          |                                   |                                                   |        |                                         |  |       |
|               | Special Requirements: SCHED 80%; SAME ORIENT AS GB; AFTER GC BY 1 Orbits TO 1.1 Orbits            |             |                                                                                     |                             |                          |                                   |                                                   |        |                                         |  |       |
| Fixed Targets | #                                                                                                 | Name        | Target Coordinates                                                                  |                             | Targ. Coord. Corrections |                                   | Fluxes                                            |        | Miscellaneous                           |  |       |
|               | (382)                                                                                             | ACO-2537-IR | RA: 23 08 22.2247 (347.0926029d)<br>Dec: -02 11 32.39 (-2.19233d)<br>Equinox: J2000 |                             |                          |                                   | V=18                                              |        | Reference Frame: SIMBAD                 |  |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |             |                                                                                     |                             |                          |                                   |                                                   |        |                                         |  |       |
|               |                                                                                                   |             |                                                                                     |                             |                          |                                   |                                                   |        |                                         |  |       |
| Exposures     | #                                                                                                 | Label       | Target                                                                              | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.                      | Special Reqs.                                     | Groups | Exp. Time (Total)/[Actual Dur.]         |  | Orbit |
|               | 1                                                                                                 | F140W       | (382) ACO-2537-IR                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.90825;<br>GS ACQ SCENARIO SINGLE |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]   |
|               | 2                                                                                                 | F105W       | (382) ACO-2537-IR                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                                     |        | 402.935899 Secs (402.936 Secs)<br>[==>] |  | [1]   |
|               | 3                                                                                                 | F105W       | (382) ACO-2537-IR                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,0.6055                           |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]   |
|               | 4                                                                                                 | F140W       | (382) ACO-2537-IR                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                                     |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]   |
|               | 5                                                                                                 | F125W       | (382) ACO-2537-IR                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0                                      |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]   |
|               | 6                                                                                                 | F160W       | (382) ACO-2537-IR                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                                     |        | 502.936801 Secs (502.937 Secs)<br>[==>] |  | [1]   |
|               | 7                                                                                                 | F160W       | (382) ACO-2537-IR                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,0.30275                          |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |  | [1]   |
|               | 8                                                                                                 | F125W       | (382) ACO-2537-IR                                                                   | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                                     |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]   |

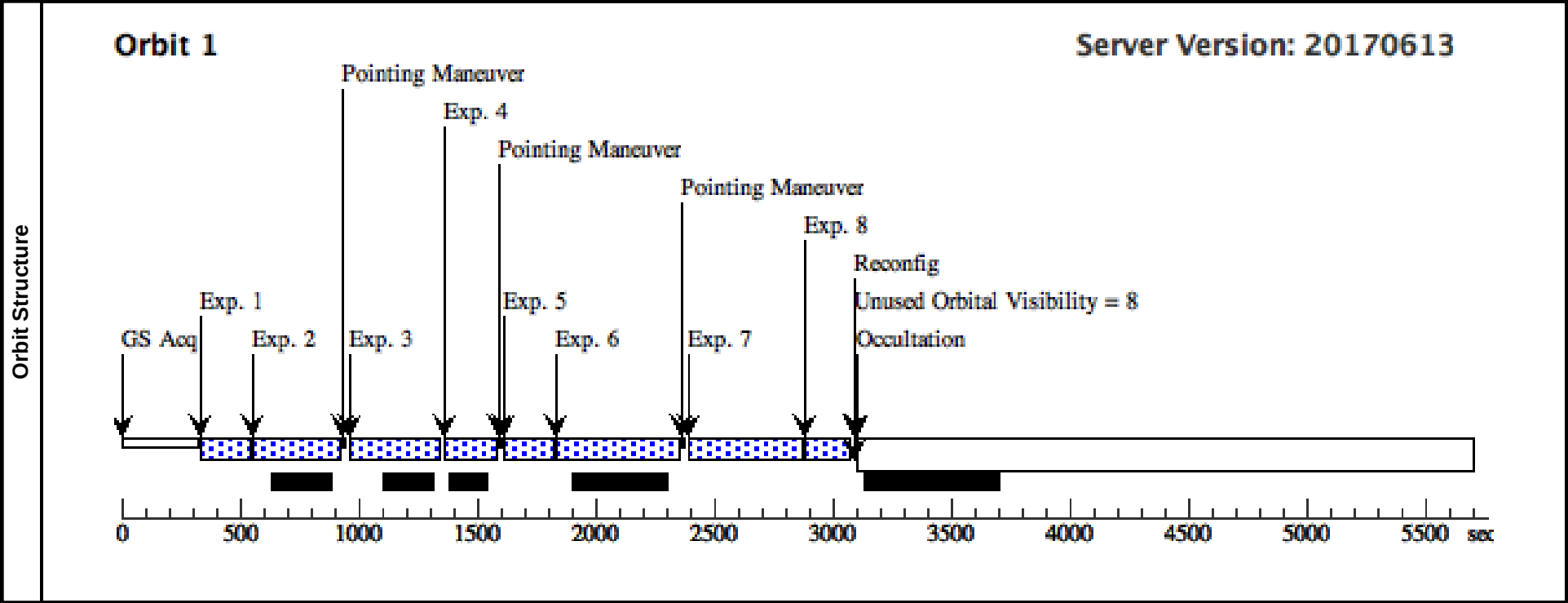


# Proposal 14096 - 39 CLG-1008-12 ACS1 (HA) - RELICS: Reionization Lensing Cluster Survey

|                 |                                                                                                                                                                                                                                                                          |                   |                                                                                     |                          |               |                              |                         |        |                                 |       |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------|--------------------------|---------------|------------------------------|-------------------------|--------|---------------------------------|-------|
| Visit           | Proposal 14096, 39 CLG-1008-12 ACS1 (HA), completed                                                                                                                                                                                                                      |                   |                                                                                     |                          |               | Mon Aug 07 18:08:14 GMT 2017 |                         |        |                                 |       |
|                 | Diagnostic Status: Warning                                                                                                                                                                                                                                               |                   |                                                                                     |                          |               |                              |                         |        |                                 |       |
|                 | Scientific Instruments: ACS/WFC                                                                                                                                                                                                                                          |                   |                                                                                     |                          |               |                              |                         |        |                                 |       |
|                 | Special Requirements: SCHED 100%; ORIENT 123D TO 123 D                                                                                                                                                                                                                   |                   |                                                                                     |                          |               |                              |                         |        |                                 |       |
| Diagnostics     | (39 CLG-1008-12 ACS1 (HA)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                           |                   |                                                                                     |                          |               |                              |                         |        |                                 |       |
| Fixed Targets   | #                                                                                                                                                                                                                                                                        | Name              | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes        | Miscellaneous                |                         |        |                                 |       |
|                 | (391)                                                                                                                                                                                                                                                                    | CLG-1008-12-F435W | RA: 10 10 32.7521 (152.6364671d)<br>Dec: -12 39 2.20 (-12.65061d)<br>Equinox: J2000 |                          | V=18          | Reference Frame: SIMBAD      |                         |        |                                 |       |
|                 | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                        |                   |                                                                                     |                          |               |                              |                         |        |                                 |       |
| Exposures       | #                                                                                                                                                                                                                                                                        | Label             | Target                                                                              | Config,Mode,Aperture     | Spectral Els. | Opt. Params.                 | Special Reqs.           | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|                 | 1                                                                                                                                                                                                                                                                        |                   | (391) CLG-1008-12-F435W                                                             | ACS/WFC, ACCUM, WFCENTER | F435W         |                              |                         |        | 488 Secs (488 Secs)             |       |
|                 |                                                                                                                                                                                                                                                                          |                   |                                                                                     |                          |               |                              |                         |        | [==>]                           | [1]   |
|                 | 2                                                                                                                                                                                                                                                                        |                   | (391) CLG-1008-12-F435W                                                             | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | POS TARG 0.0741,2 .970  |        | 487 Secs (487 Secs)             |       |
|                 |                                                                                                                                                                                                                                                                          |                   |                                                                                     |                          |               |                              |                         |        | [==>]                           | [1]   |
|                 | 3                                                                                                                                                                                                                                                                        |                   | (391) CLG-1008-12-F435W                                                             | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | POS TARG 0.1976,5 .9687 |        | 487 Secs (487 Secs)             |       |
|                 |                                                                                                                                                                                                                                                                          |                   |                                                                                     |                          |               |                              |                         |        | [==>]                           | [1]   |
|                 | 4                                                                                                                                                                                                                                                                        |                   | (391) CLG-1008-12-F435W                                                             | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | POS TARG 0.2717,8 .9367 |        | 487 Secs (487 Secs)             |       |
|                 |                                                                                                                                                                                                                                                                          |                   |                                                                                     |                          |               |                              |                         | [==>]  | [1]                             |       |
| Orbit Structure | <div>Orbit 1<div>Server Version: 20170613</div><div>GS Acq</div><div>Exp. 1</div><div>Exp. 2</div><div>Exp. 3</div><div>Exp. 4</div><div>Occultation</div><div>*** ORBITAL VISIBILITY OVERRUN = 1</div><div>05001000150020002500300035004000450050005500 sec</div></div> |                   |                                                                                     |                          |               |                              |                         |        |                                 |       |

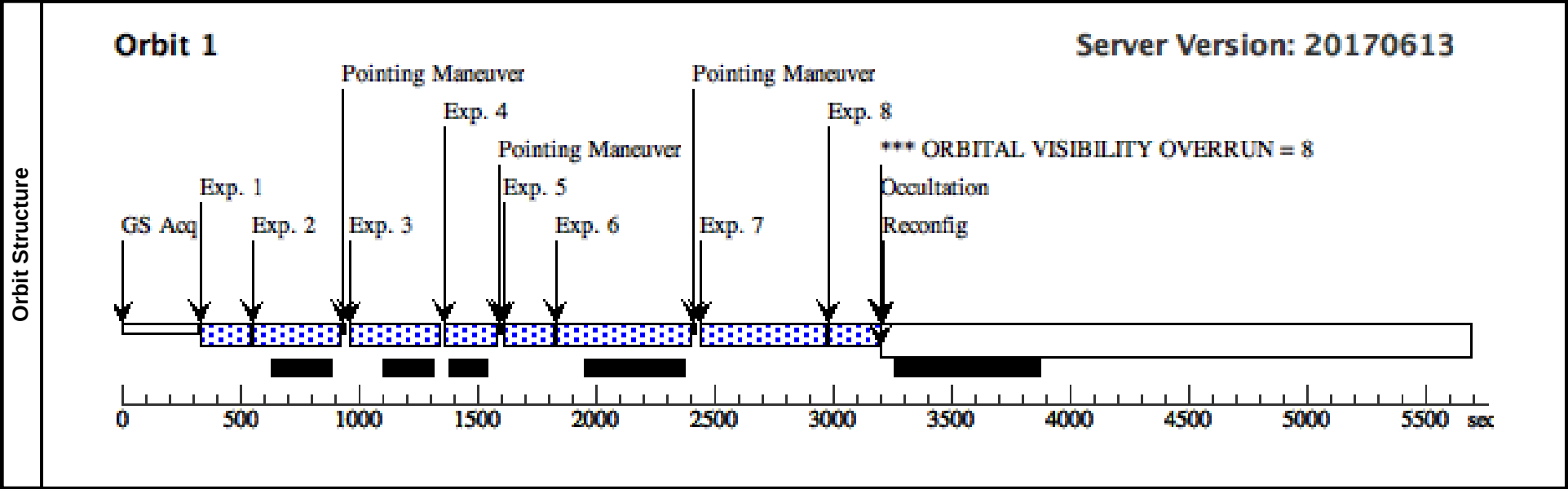
# Proposal 14096 - 39 CLG-1008-12 IR1 (HB) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                                                    |                |                                                                                                                                                                                                  |                             |               |                                   |                              |        |                                         |       |
|---------------|------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------|--------|-----------------------------------------|-------|
| Visit         | <b>Proposal 14096, 39 CLG-1008-12 IR1 (HB), completed</b> <span>Mon Aug 07 18:08:14 GMT 2017</span>                                |                |                                                                                                                                                                                                  |                             |               |                                   |                              |        |                                         |       |
|               | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 70%; ORIENT 79D TO 79 D |                |                                                                                                                                                                                                  |                             |               |                                   |                              |        |                                         |       |
| Fixed Targets | #                                                                                                                                  | Name           | Target Coordinates                                                                                                                                                                               | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                     |                              |        |                                         |       |
|               | (392)                                                                                                                              | CLG-1008-12-IR | RA: 10 10 33.6479 (152.6401996d)<br>Dec: -12 39 42.99 (-12.66194d)<br>Equinox: J2000<br><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> |                             | V=18          | Reference Frame: SIMBAD           |                              |        |                                         |       |
| Exposures     | #                                                                                                                                  | Label          | Target                                                                                                                                                                                           | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                  | F140W          | (392) CLG-1008-12-IR                                                                                                                                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  |                              |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                                                  | F105W          | (392) CLG-1008-12-IR                                                                                                                                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                  | F105W          | (392) CLG-1008-12-IR                                                                                                                                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |        | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                                                  | F140W          | (392) CLG-1008-12-IR                                                                                                                                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                  | F125W          | (392) CLG-1008-12-IR                                                                                                                                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                                                  | F160W          | (392) CLG-1008-12-IR                                                                                                                                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                                                  | F160W          | (392) CLG-1008-12-IR                                                                                                                                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=10;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |        | 452.93635 Secs (452.936 Secs)<br>[==>]  | [1]   |
|               | 8                                                                                                                                  | F125W          | (392) CLG-1008-12-IR                                                                                                                                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |



# Proposal 14096 - 39 CLG-1008-12 IR2 (HD) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                               |                |                                                                                      |                             |                          |                                   |                          |        |                                         |  |                              |  |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------|-----------------------------|--------------------------|-----------------------------------|--------------------------|--------|-----------------------------------------|--|------------------------------|--|
| Visit                                                                                             | Proposal 14096, 39 CLG-1008-12 IR2 (HD), completed                            |                |                                                                                      |                             |                          |                                   |                          |        |                                         |  | Mon Aug 07 18:08:14 GMT 2017 |  |
|                                                                                                   | Diagnostic Status: Warning                                                    |                |                                                                                      |                             |                          |                                   |                          |        |                                         |  |                              |  |
|                                                                                                   | Scientific Instruments: WFC3/IR                                               |                |                                                                                      |                             |                          |                                   |                          |        |                                         |  |                              |  |
|                                                                                                   | Special Requirements: SCHED 30%; SAME ORIENT AS HB; AFTER HB BY 40 D TO 60 D  |                |                                                                                      |                             |                          |                                   |                          |        |                                         |  |                              |  |
| Diagnostics                                                                                       | (39 CLG-1008-12 IR2 (HD)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |                |                                                                                      |                             |                          |                                   |                          |        |                                         |  |                              |  |
|                                                                                                   |                                                                               |                |                                                                                      |                             |                          |                                   |                          |        |                                         |  |                              |  |
| Fixed Targets                                                                                     | #                                                                             | Name           | Target Coordinates                                                                   |                             | Targ. Coord. Corrections |                                   | Fluxes                   |        | Miscellaneous                           |  |                              |  |
|                                                                                                   | (392)                                                                         | CLG-1008-12-IR | RA: 10 10 33.6479 (152.6401996d)<br>Dec: -12 39 42.99 (-12.66194d)<br>Equinox: J2000 |                             |                          |                                   | V=18                     |        | Reference Frame: SIMBAD                 |  |                              |  |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                               |                |                                                                                      |                             |                          |                                   |                          |        |                                         |  |                              |  |
| Exposures                                                                                         | #                                                                             | Label          | Target                                                                               | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.                      | Special Reqs.            | Groups | Exp. Time (Total)/[Actual Dur.]         |  | Orbit                        |  |
|                                                                                                   | 1                                                                             | F140W          | (392) CLG-1008-12-IR                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |
|                                                                                                   | 2                                                                             | F105W          | (392) CLG-1008-12-IR                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1            |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |
|                                                                                                   | 3                                                                             | F105W          | (392) CLG-1008-12-IR                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425,0.6055  |        | 352.935448 Secs (352.935 Secs)<br>[==>] |  | [1]                          |  |
|                                                                                                   | 4                                                                             | F140W          | (392) CLG-1008-12-IR                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F140W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3            |        | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |
|                                                                                                   | 5                                                                             | F125W          | (392) CLG-1008-12-IR                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0             |        | 177.935896 Secs (177.936 Secs)<br>[==>] |  | [1]                          |  |
|                                                                                                   | 6                                                                             | F160W          | (392) CLG-1008-12-IR                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5            |        | 552.937252 Secs (552.937 Secs)<br>[==>] |  | [1]                          |  |
|                                                                                                   | 7                                                                             | F160W          | (392) CLG-1008-12-IR                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275,0.30275 |        | 502.936801 Secs (502.937 Secs)<br>[==>] |  | [1]                          |  |
|                                                                                                   | 8                                                                             | F125W          | (392) CLG-1008-12-IR                                                                 | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7            |        | 202.936411 Secs (202.936 Secs)<br>[==>] |  | [1]                          |  |
|                                                                                                   |                                                                               |                |                                                                                      |                             |                          |                                   |                          |        |                                         |  |                              |  |

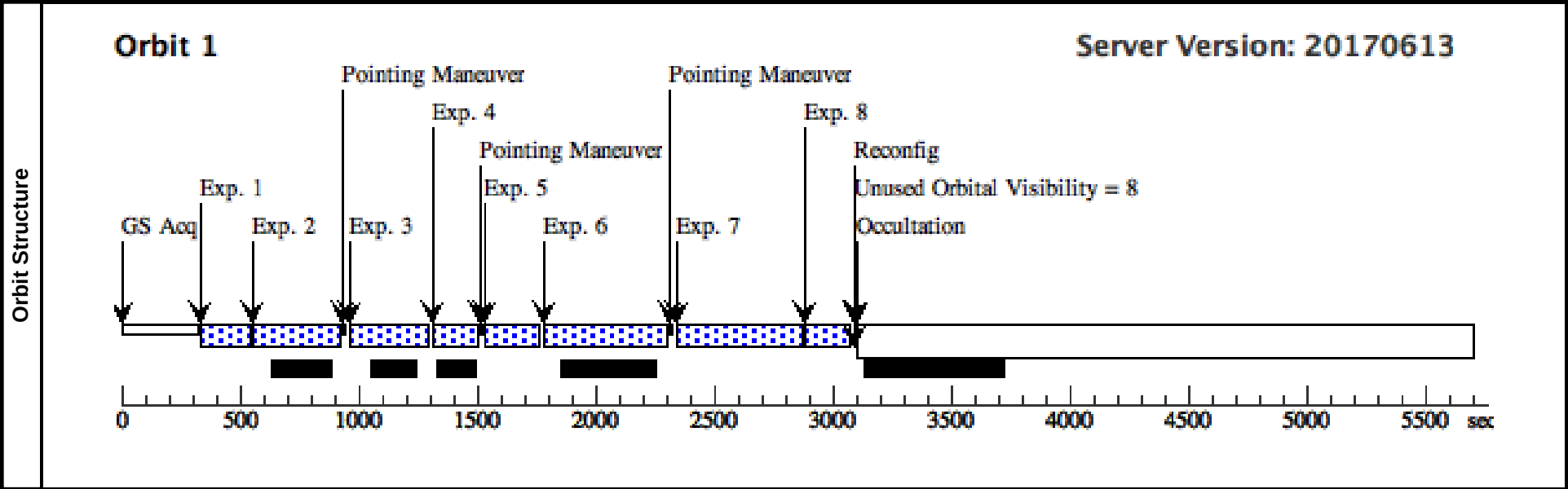


# Proposal 14096 - 40 NAME-BABY-BULLET ACS1 (IA) - RELICS: Reionization Lensing Cluster Survey

|                 |                                                                                                               |                        |                                                                                    |                          |               |              |                              |        |                                 |       |
|-----------------|---------------------------------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------|--------------------------|---------------|--------------|------------------------------|--------|---------------------------------|-------|
| Visit           | Proposal 14096, 40 NAME-BABY-BULLET ACS1 (IA), completed                                                      |                        |                                                                                    |                          |               |              | Mon Aug 07 18:08:14 GMT 2017 |        |                                 |       |
|                 | Diagnostic Status: Warning                                                                                    |                        |                                                                                    |                          |               |              |                              |        |                                 |       |
|                 | Scientific Instruments: ACS/WFC                                                                               |                        |                                                                                    |                          |               |              |                              |        |                                 |       |
|                 | Special Requirements: SCHED 100%; ORIENT 32D TO 32 D                                                          |                        |                                                                                    |                          |               |              |                              |        |                                 |       |
| Diagnosics      | (40 NAME-BABY-BULLET ACS1 (IA)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                           |                        |                                                                                    |                          |               |              |                              |        |                                 |       |
| Fixed Targets   | #                                                                                                             | Name                   | Target Coordinates                                                                 | Targ. Coord. Corrections |               | Fluxes       | Miscellaneous                |        |                                 |       |
|                 | (401)                                                                                                         | NAME-BABY-BULLET-F435W | RA: 00 25 29.9272 (6.3746967d)<br>Dec: -12 22 51.86 (-12.38107d)<br>Equinox: J2000 |                          |               | V=18         | Reference Frame: SIMBAD      |        |                                 |       |
|                 | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.             |                        |                                                                                    |                          |               |              |                              |        |                                 |       |
| Exposures       | #                                                                                                             | Label                  | Target                                                                             | Config,Mode,Aperture     | Spectral Els. | Opt. Params. | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|                 | 1                                                                                                             |                        | (401) NAME-BABY-BULLET-F435W                                                       | ACS/WFC, ACCUM, WFCENTER | F435W         |              | GS ACQ SCENARI<br>O BASE1B3  |        | 488 Secs (488 Secs)             |       |
|                 |                                                                                                               |                        |                                                                                    |                          |               |              |                              |        | [==>]                           | [1]   |
|                 | 2                                                                                                             |                        | (401) NAME-BABY-BULLET-F435W                                                       | ACS/WFC, ACCUM, WFCENTER | F435W         |              | POS TARG 0.0741,2<br>.970    |        | 487 Secs (487 Secs)             |       |
|                 |                                                                                                               |                        |                                                                                    |                          |               |              |                              |        | [==>]                           | [1]   |
|                 | 3                                                                                                             |                        | (401) NAME-BABY-BULLET-F435W                                                       | ACS/WFC, ACCUM, WFCENTER | F435W         |              | POS TARG 0.1976,5<br>.9687   |        | 487 Secs (487 Secs)             |       |
|                 |                                                                                                               |                        |                                                                                    |                          |               |              |                              |        | [==>]                           | [1]   |
|                 | 4                                                                                                             |                        | (401) NAME-BABY-BULLET-F435W                                                       | ACS/WFC, ACCUM, WFCENTER | F435W         |              | POS TARG 0.2717,8<br>.9367   |        | 487 Secs (487 Secs)             |       |
|                 |                                                                                                               |                        |                                                                                    |                          |               |              |                              |        | [==>]                           | [1]   |
| Orbit Structure | <div><div>Orbit 1</div><div>Server Version: 20170613</div><div>*** ORBITAL VISIBILITY OVERRUN = 1</div></div> |                        |                                                                                    |                          |               |              |                              |        |                                 |       |

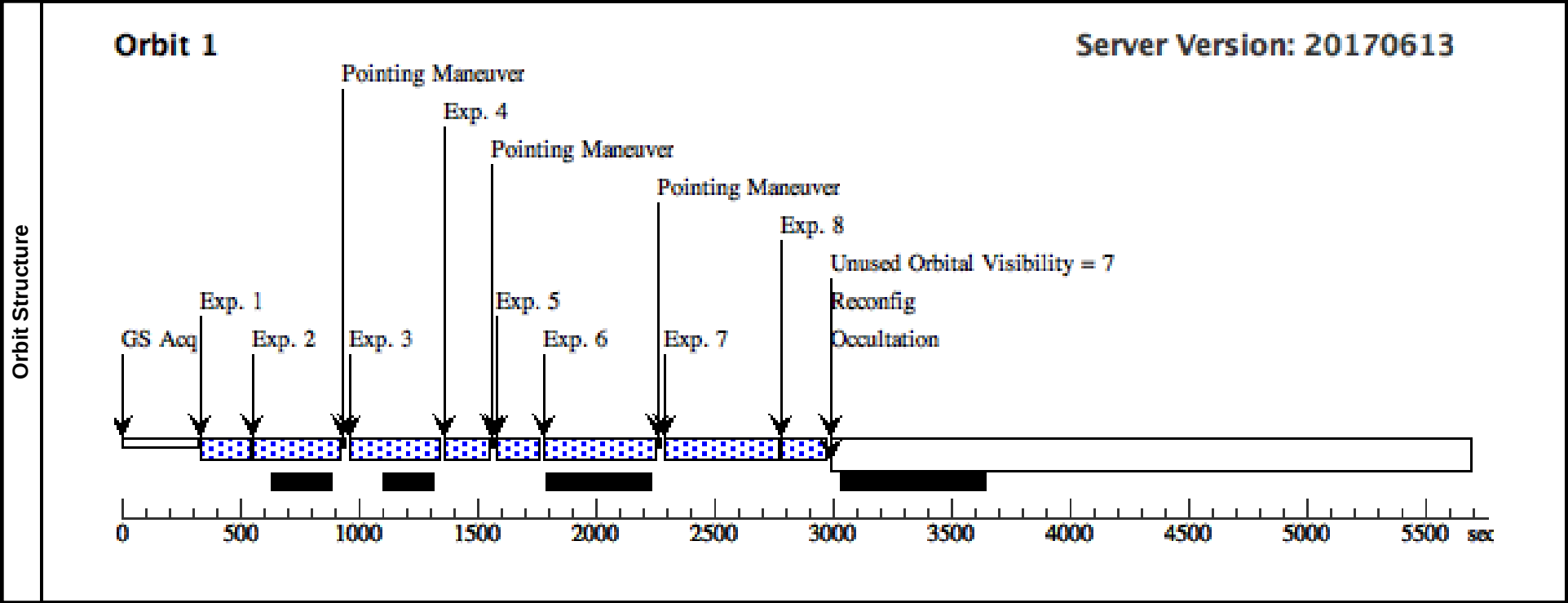
# Proposal 14096 - 40 NAME-BABY-BULLET IR1 (IB) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                     |                                                                                    |                             |  |                          |                                   |                              |        |                                         |                              |       |
|---------------|---------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------|-----------------------------|--|--------------------------|-----------------------------------|------------------------------|--------|-----------------------------------------|------------------------------|-------|
| Visit         | Proposal 14096, 40 NAME-BABY-BULLET IR1 (IB), completed                                           |                     |                                                                                    |                             |  |                          |                                   |                              |        |                                         | Mon Aug 07 18:08:14 GMT 2017 |       |
|               | Diagnostic Status: No Diagnostics                                                                 |                     |                                                                                    |                             |  |                          |                                   |                              |        |                                         |                              |       |
|               | Scientific Instruments: WFC3/IR                                                                   |                     |                                                                                    |                             |  |                          |                                   |                              |        |                                         |                              |       |
|               | Special Requirements: SCHED 70%; ORIENT 288D TO 288 D                                             |                     |                                                                                    |                             |  |                          |                                   |                              |        |                                         |                              |       |
| Fixed Targets | #                                                                                                 | Name                | Target Coordinates                                                                 |                             |  | Targ. Coord. Corrections |                                   | Fluxes                       |        | Miscellaneous                           |                              |       |
|               | (402)                                                                                             | NAME-BABY-BULLET-IR | RA: 00 25 30.2684 (6.3761183d)<br>Dec: -12 22 48.06 (-12.38002d)<br>Equinox: J2000 |                             |  |                          |                                   | V=18                         |        | Reference Frame: SIMBAD                 |                              |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                     |                                                                                    |                             |  |                          |                                   |                              |        |                                         |                              |       |
|               |                                                                                                   |                     |                                                                                    |                             |  |                          |                                   |                              |        |                                         |                              |       |
| Exposures     | #                                                                                                 | Label               | Target                                                                             | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |
|               | 1                                                                                                 | F140W               | (402) NAME-BABY-BULLET-IR                                                          | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | GS ACQ SCENARI<br>O BASE1B3  |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |
|               | 2                                                                                                 | F105W               | (402) NAME-BABY-BULLET-IR                                                          | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |
|               | 3                                                                                                 | F105W               | (402) NAME-BABY-BULLET-IR                                                          | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=7;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |        | 302.934997 Secs (302.935 Secs)<br>[==>] |                              | [1]   |
|               | 4                                                                                                 | F140W               | (402) NAME-BABY-BULLET-IR                                                          | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |
|               | 5                                                                                                 | F125W               | (402) NAME-BABY-BULLET-IR                                                          | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                              | [1]   |
|               | 6                                                                                                 | F160W               | (402) NAME-BABY-BULLET-IR                                                          | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                              | [1]   |
|               | 7                                                                                                 | F160W               | (402) NAME-BABY-BULLET-IR                                                          | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                              | [1]   |
|               | 8                                                                                                 | F125W               | (402) NAME-BABY-BULLET-IR                                                          | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |



# Proposal 14096 - 40 NAME-BABY-BULLET IR2 (ID) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                     |                                                                                    |                             |  |                          |                                |                                                    |        |                                         |                              |       |
|---------------|---------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------|-----------------------------|--|--------------------------|--------------------------------|----------------------------------------------------|--------|-----------------------------------------|------------------------------|-------|
| Visit         | Proposal 14096, 40 NAME-BABY-BULLET IR2 (ID), completed                                           |                     |                                                                                    |                             |  |                          |                                |                                                    |        |                                         | Mon Aug 07 18:08:14 GMT 2017 |       |
|               | Diagnostic Status: No Diagnostics                                                                 |                     |                                                                                    |                             |  |                          |                                |                                                    |        |                                         |                              |       |
|               | Scientific Instruments: WFC3/IR                                                                   |                     |                                                                                    |                             |  |                          |                                |                                                    |        |                                         |                              |       |
|               | Special Requirements: SCHED 90%; SAME ORIENT AS IB; AFTER IB BY 25 D TO 60 D                      |                     |                                                                                    |                             |  |                          |                                |                                                    |        |                                         |                              |       |
| Fixed Targets | #                                                                                                 | Name                | Target Coordinates                                                                 |                             |  | Targ. Coord. Corrections |                                | Fluxes                                             |        | Miscellaneous                           |                              |       |
|               | (402)                                                                                             | NAME-BABY-BULLET-IR | RA: 00 25 30.2684 (6.3761183d)<br>Dec: -12 22 48.06 (-12.38002d)<br>Equinox: J2000 |                             |  |                          |                                | V=18                                               |        | Reference Frame: SIMBAD                 |                              |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                     |                                                                                    |                             |  |                          |                                |                                                    |        |                                         |                              |       |
| Exposures     | #                                                                                                 | Label               | Target                                                                             | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                   | Special Reqs.                                      | Groups | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |
|               | 1                                                                                                 | F140W               | (402) NAME-BABY-BULLET-IR                                                          | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | POS TARG 7.317,0.90825;<br>GS ACQ SCENARIO BASE1B3 |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |
|               | 2                                                                                                 | F105W               | (402) NAME-BABY-BULLET-IR                                                          | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | SAME POS AS 1                                      |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |
|               | 3                                                                                                 | F105W               | (402) NAME-BABY-BULLET-IR                                                          | WFC3/IR, MULTIACCUM, IR-FIX |  | F105W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S50  | POS TARG 0.47425,0.6055                            |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |
|               | 4                                                                                                 | F140W               | (402) NAME-BABY-BULLET-IR                                                          | WFC3/IR, MULTIACCUM, IR-FIX |  | F140W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 3                                      |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |
|               | 5                                                                                                 | F125W               | (402) NAME-BABY-BULLET-IR                                                          | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=7;<br>SAMP-SEQ=SPAR S25  | POS TARG 0,0                                       |        | 152.935381 Secs (152.935 Secs)<br>[==>] |                              | [1]   |
|               | 6                                                                                                 | F160W               | (402) NAME-BABY-BULLET-IR                                                          | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=10;<br>SAMP-SEQ=SPAR S50 | SAME POS AS 5                                      |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |                              | [1]   |
|               | 7                                                                                                 | F160W               | (402) NAME-BABY-BULLET-IR                                                          | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=10;<br>SAMP-SEQ=SPAR S50 | POS TARG 6.48275,0.30275                           |        | 452.93635 Secs (452.936 Secs)<br>[==>]  |                              | [1]   |
|               | 8                                                                                                 | F125W               | (402) NAME-BABY-BULLET-IR                                                          | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR S25  | SAME POS AS 7                                      |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                              | [1]   |

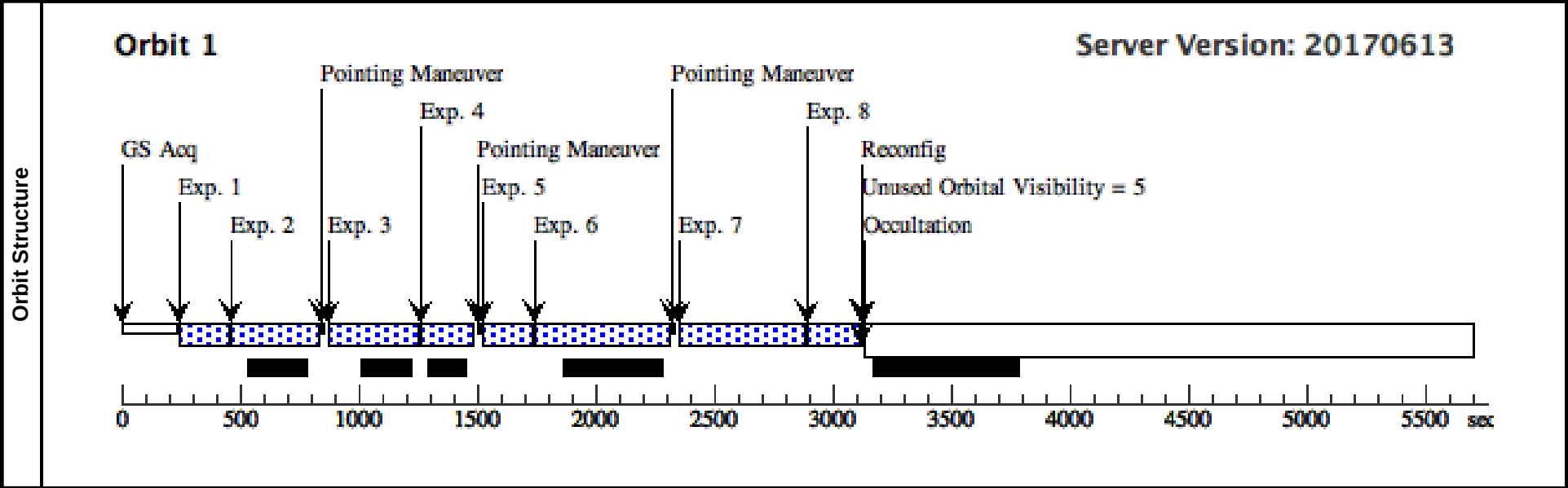


# Proposal 14096 - 41 CLG-J0152-1357 ACS1 (JA) - RELICS: Reionization Lensing Cluster Survey

|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                                                                                     |                          |               |                              |                            |        |                                 |       |
|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|--------------------------|---------------|------------------------------|----------------------------|--------|---------------------------------|-------|
| Visit                                                                                             | Proposal 14096, 41 CLG-J0152-1357 ACS1 (JA), completed                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                                                                                     |                          |               | Mon Aug 07 18:08:14 GMT 2017 |                            |        |                                 |       |
|                                                                                                   | Diagnostic Status: Warning                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      |                                                                                     |                          |               |                              |                            |        |                                 |       |
|                                                                                                   | Scientific Instruments: ACS/WFC                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                                                                                     |                          |               |                              |                            |        |                                 |       |
|                                                                                                   | Special Requirements: SCHED 50%; ORIENT 43D TO 43 D                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      |                                                                                     |                          |               |                              |                            |        |                                 |       |
| Diagnostics                                                                                       | (41 CLG-J0152-1357 ACS1 (JA)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN                                                                                                                                                                                                                                                                                                                                                                                                     |                      |                                                                                     |                          |               |                              |                            |        |                                 |       |
| Fixed Targets                                                                                     | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Name                 | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes        | Miscellaneous                |                            |        |                                 |       |
|                                                                                                   | (411)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CLG-J0152-1357-F435W | RA: 01 52 42.8664 (28.1786100d)<br>Dec: -13 57 28.20 (-13.95783d)<br>Equinox: J2000 |                          | V=18          | Reference Frame: SIMBAD      |                            |        |                                 |       |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                                                                                     |                          |               |                              |                            |        |                                 |       |
| Exposures                                                                                         | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Label                | Target                                                                              | Config,Mode,Aperture     | Spectral Els. | Opt. Params.                 | Special Reqs.              | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|                                                                                                   | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      | (411) CLG-J0152-1357-F435W                                                          | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | GS ACQ SCENARI<br>O SINGLE |        | 547 Secs (547 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                                                                                     |                          |               |                              |                            |        | [==>]                           | [1]   |
|                                                                                                   | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      | (411) CLG-J0152-1357-F435W                                                          | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | POS TARG 0.0741,2<br>.970  |        | 547 Secs (547 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                                                                                     |                          |               |                              |                            |        | [==>]                           | [1]   |
|                                                                                                   | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      | (411) CLG-J0152-1357-F435W                                                          | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | POS TARG 0.1976,5<br>.9687 |        | 547 Secs (547 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                                                                                     |                          |               |                              |                            |        | [==>]                           | [1]   |
|                                                                                                   | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      | (411) CLG-J0152-1357-F435W                                                          | ACS/WFC, ACCUM, WFCENTER | F435W         |                              | POS TARG 0.2717,8<br>.9367 |        | 546 Secs (546 Secs)             |       |
|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |                                                                                     |                          |               |                              |                            | [==>]  | [1]                             |       |
| Orbit Structure                                                                                   | <div>Orbit 1<div>Server Version: 20170613</div><div>GS Acq</div><div>Exp. 1</div><div>Exp. 2</div><div>Exp. 3</div><div>Exp. 4</div><div>Pointing Maneuver</div><div>Pointing Maneuver</div><div>Pointing Maneuver</div><div>Occultation</div><div>*** ORBITAL VISIBILITY OVERRUN = 4</div><div>0</div><div>500</div><div>1000</div><div>1500</div><div>2000</div><div>2500</div><div>3000</div><div>3500</div><div>4000</div><div>4500</div><div>5000</div><div>5500 sec</div></div> |                      |                                                                                     |                          |               |                              |                            |        |                                 |       |

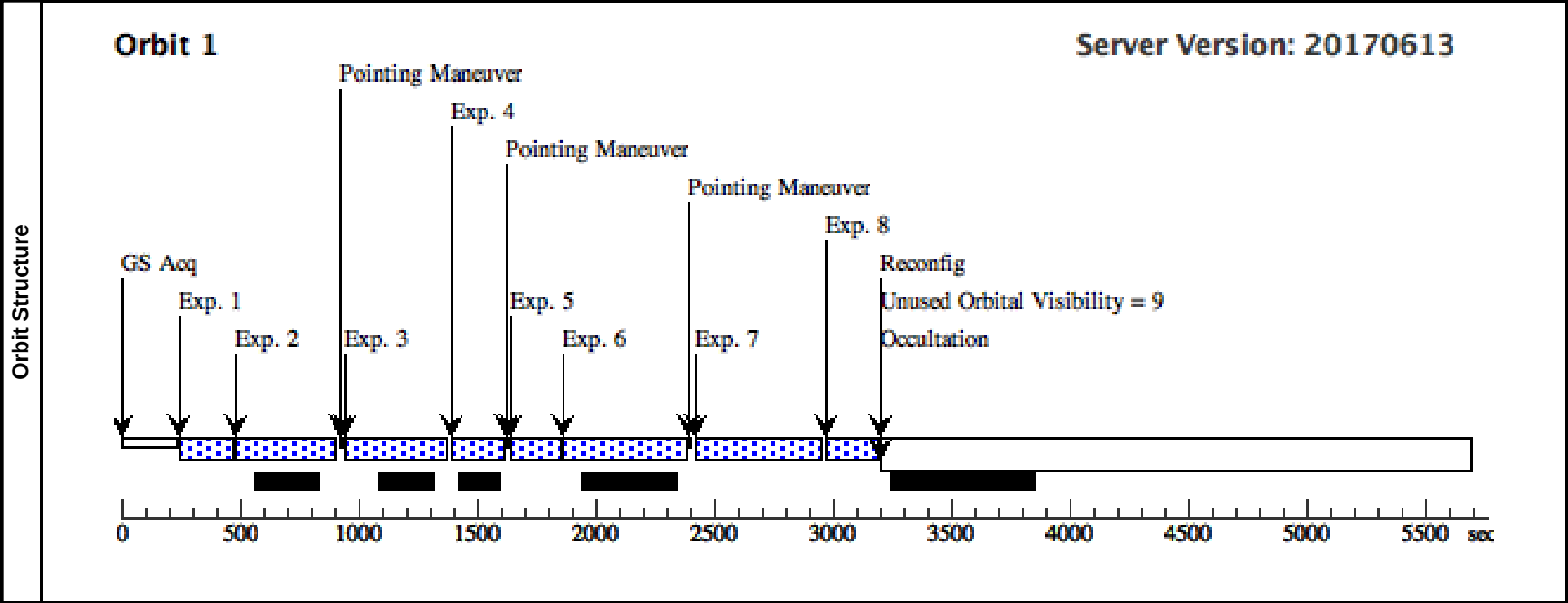
# Proposal 14096 - 41 CLG-J0152-1357 IR1 (JB) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                   |                                                                                     |                             |               |                                   |                              |        |                                         |                         |                              |
|---------------|---------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------|--------|-----------------------------------------|-------------------------|------------------------------|
| Visit         | Proposal 14096, 41 CLG-J0152-1357 IR1 (JB), completed                                             |                   |                                                                                     |                             |               |                                   |                              |        |                                         |                         | Mon Aug 07 18:08:14 GMT 2017 |
|               | Diagnostic Status: No Diagnostics                                                                 |                   |                                                                                     |                             |               |                                   |                              |        |                                         |                         |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |                   |                                                                                     |                             |               |                                   |                              |        |                                         |                         |                              |
|               | Special Requirements: SCHED 50%; SAME ORIENT AS JA; AFTER JA BY 0.9 Orbits TO 1.1 Orbits          |                   |                                                                                     |                             |               |                                   |                              |        |                                         |                         |                              |
| Fixed Targets | #                                                                                                 | Name              | Target Coordinates                                                                  |                             |               | Targ. Coord. Corrections          |                              | Fluxes |                                         | Miscellaneous           |                              |
|               | (412)                                                                                             | CLG-J0152-1357-IR | RA: 01 52 42.8664 (28.1786100d)<br>Dec: -13 57 31.00 (-13.95861d)<br>Equinox: J2000 |                             |               |                                   |                              | V=18   |                                         | Reference Frame: SIMBAD |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                   |                                                                                     |                             |               |                                   |                              |        |                                         |                         |                              |
|               |                                                                                                   |                   |                                                                                     |                             |               |                                   |                              |        |                                         |                         |                              |
| Exposures     | #                                                                                                 | Label             | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         |                         | Orbit                        |
|               | 1                                                                                                 | F140W             | (412) CLG-J0152-1357-IR                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | GS ACQ SCENARI<br>O SINGLE   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 2                                                                                                 | F105W             | (412) CLG-J0152-1357-IR                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|               | 3                                                                                                 | F105W             | (412) CLG-J0152-1357-IR                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 6.84275,<br>0.30275 |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|               | 4                                                                                                 | F140W             | (412) CLG-J0152-1357-IR                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                         | [1]                          |
|               | 5                                                                                                 | F125W             | (412) CLG-J0152-1357-IR                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.<br>90825   |        | 177.935896 Secs (177.936 Secs)<br>[==>] |                         | [1]                          |
|               | 6                                                                                                 | F160W             | (412) CLG-J0152-1357-IR                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                |        | 552.937252 Secs (552.937 Secs)<br>[==>] |                         | [1]                          |
|               | 7                                                                                                 | F160W             | (412) CLG-J0152-1357-IR                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.47425,<br>0.6055  |        | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |
|               | 8                                                                                                 | F125W             | (412) CLG-J0152-1357-IR                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                |        | 202.936411 Secs (202.936 Secs)<br>[==>] |                         | [1]                          |



# Proposal 14096 - 41 CLG-J0152-1357 IR2 (JD) - RELICS: Reionization Lensing Cluster Survey

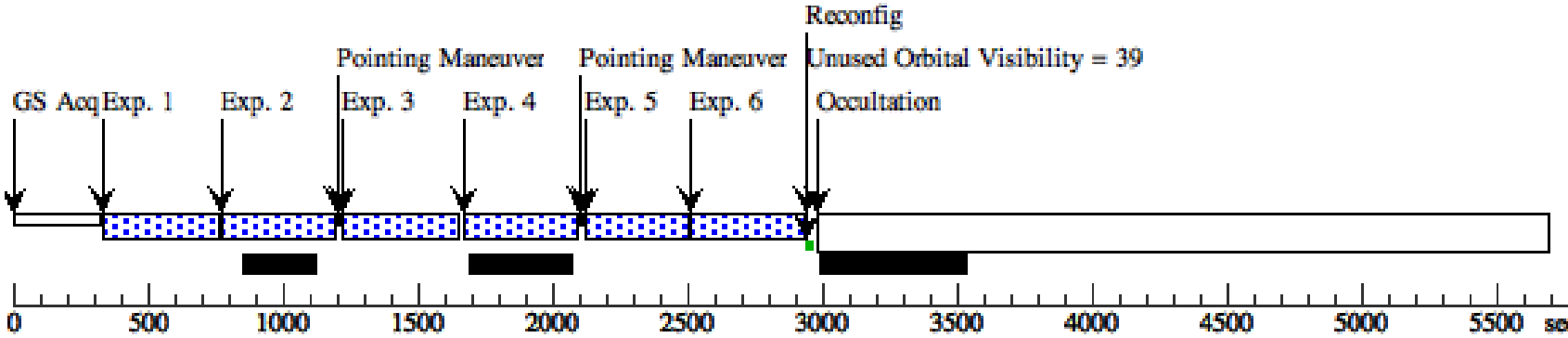
|               |                                                                                                                                                             |                   |                                                                                                                                                                                                 |                             |               |                                   |                                                       |        |                                         |       |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|-------------------------------------------------------|--------|-----------------------------------------|-------|
| Visit         | <b>Proposal 14096, 41 CLG-J0152-1357 IR2 (JD), completed</b> <span>Mon Aug 07 18:08:14 GMT 2017</span>                                                      |                   |                                                                                                                                                                                                 |                             |               |                                   |                                                       |        |                                         |       |
|               | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR<br>Special Requirements: SCHED 30%; SAME ORIENT AS JA; AFTER JB BY 40 D TO 60 D |                   |                                                                                                                                                                                                 |                             |               |                                   |                                                       |        |                                         |       |
| Fixed Targets | #                                                                                                                                                           | Name              | Target Coordinates                                                                                                                                                                              | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                     |                                                       |        |                                         |       |
|               | (412)                                                                                                                                                       | CLG-J0152-1357-IR | RA: 01 52 42.8664 (28.1786100d)<br>Dec: -13 57 31.00 (-13.95861d)<br>Equinox: J2000<br><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> |                             | V=18          | Reference Frame: SIMBAD           |                                                       |        |                                         |       |
| Exposures     | #                                                                                                                                                           | Label             | Target                                                                                                                                                                                          | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                                         | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|               | 1                                                                                                                                                           | F140W             | (412) CLG-J0152-13 57-IR                                                                                                                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 7.317,0.90825;<br>GS ACQ SCENARI<br>O SINGLE |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 2                                                                                                                                                           | F105W             | (412) CLG-J0152-13 57-IR                                                                                                                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50  | SAME POS AS 1                                         |        | 402.935899 Secs (402.936 Secs)<br>[==>] | [1]   |
|               | 3                                                                                                                                                           | F105W             | (412) CLG-J0152-13 57-IR                                                                                                                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.47425, 0.6055                              |        | 402.935899 Secs (402.936 Secs)<br>[==>] | [1]   |
|               | 4                                                                                                                                                           | F140W             | (412) CLG-J0152-13 57-IR                                                                                                                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F140W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 3                                         |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |
|               | 5                                                                                                                                                           | F125W             | (412) CLG-J0152-13 57-IR                                                                                                                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S25  | POS TARG 0,0                                          |        | 177.935896 Secs (177.936 Secs)<br>[==>] | [1]   |
|               | 6                                                                                                                                                           | F160W             | (412) CLG-J0152-13 57-IR                                                                                                                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                                         |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 7                                                                                                                                                           | F160W             | (412) CLG-J0152-13 57-IR                                                                                                                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 6.48275, 0.30275                             |        | 502.936801 Secs (502.937 Secs)<br>[==>] | [1]   |
|               | 8                                                                                                                                                           | F125W             | (412) CLG-J0152-13 57-IR                                                                                                                                                                        | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S25  | SAME POS AS 7                                         |        | 202.936411 Secs (202.936 Secs)<br>[==>] | [1]   |



# Proposal 14096 - 41 CLG-J0152-1357 SN1 (JE) - RELICS: Reionization Lensing Cluster Survey

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| Visit                                          | Proposal 14096, 41 CLG-J0152-1357 SN1 (JE), completed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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|                                                | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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|                                                | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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|                                                | Special Requirements: SCHED 100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| Comments: follow-up of a SN behind the cluster |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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Coord. Corrections |                                  | Fluxes                                       |        | Miscellaneous                           |                              |       |
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                  | V=18                                         |        | Reference Frame: SIMBAD                 |                              |       |
|                                                | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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Params.                     | Special Reqs.                                | Groups | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |
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NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0,0;<br>GS ACQ SCENARI<br>O BASE1B3 |        | 402.935899 Secs (402.936 Secs)<br>[==>] |                              | [1]   |
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NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 1                                |        | 402.935899 Secs (402.936 Secs)<br>[==>] |                              | [1]   |
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NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.451,0.403                         |        | 402.935899 Secs (402.936 Secs)<br>[==>] |                              | [1]   |
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NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 3                                |        | 402.935899 Secs (402.936 Secs)<br>[==>] |                              | [1]   |
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NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.902,0.806                         |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |
|                                                | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                                |        | 402.935899 Secs (402.936 Secs)<br>[==>] |                              | [1]   |
|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                  |                                              |        |                                         |                              |       |
| Orbit Structure                                | <div><div>Orbit 1</div><div>Server Version: 20170613</div><div>Unused Orbital Visibility = 39</div><div><div><div>GS Acq</div><div>Exp. 1</div><div>Exp. 2</div><div>Exp. 3</div><div>Exp. 4</div><div>Exp. 5</div><div>Exp. 6</div><div>Reconfig</div><div>Occultation</div><div>Pointing Maneuver</div><div>Pointing Maneuver</div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><di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|                   |                                                                                     |                             |  |                          |                                  |                                              |        |                                         |                              |       |

# Proposal 14096 - 41 CLG-J0152-1357 SN2 (JF) - RELICS: Reionization Lensing Cluster Survey

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                                                                     |                             |                          |                                  |                                              |                         |                                         |       |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------|-----------------------------|--------------------------|----------------------------------|----------------------------------------------|-------------------------|-----------------------------------------|-------|
| Visit                                          | Proposal 14096, 41 CLG-J0152-1357 SN2 (JF), completed                                                                                                                                                                                                                                                                                                                                                                                                  |                   |                                                                                     |                             |                          |                                  | Mon Aug 07 18:08:14 GMT 2017                 |                         |                                         |       |
|                                                | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                                                                                     |                             |                          |                                  |                                              |                         |                                         |       |
|                                                | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                                                                     |                             |                          |                                  |                                              |                         |                                         |       |
|                                                | Special Requirements: SCHED 100%; AFTER JE BY 7 D TO 14 D                                                                                                                                                                                                                                                                                                                                                                                              |                   |                                                                                     |                             |                          |                                  |                                              |                         |                                         |       |
| Comments: follow-up of a SN behind the cluster |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                                                                     |                             |                          |                                  |                                              |                         |                                         |       |
| Fixed Targets                                  | #                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Name              | Target Coordinates                                                                  |                             | Targ. Coord. Corrections |                                  | Fluxes                                       | Miscellaneous           |                                         |       |
|                                                | (412)                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CLG-J0152-1357-IR | RA: 01 52 42.8664 (28.1786100d)<br>Dec: -13 57 31.00 (-13.95861d)<br>Equinox: J2000 |                             |                          |                                  | V=18                                         | Reference Frame: SIMBAD |                                         |       |
|                                                | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                                                                                                                                                                                      |                   |                                                                                     |                             |                          |                                  |                                              |                         |                                         |       |
| Exposures                                      | #                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Label             | Target                                                                              | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.                     | Special Reqs.                                | Groups                  | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|                                                | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                      | F160W             | (412) CLG-J0152-13 57-IR                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0,0;<br>GS ACQ SCENARI<br>O BASE1B3 |                         | 402.935899 Secs (402.936 Secs)<br>[==>] | [1]   |
|                                                | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                      | F125W             | (412) CLG-J0152-13 57-IR                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 1                                |                         | 402.935899 Secs (402.936 Secs)<br>[==>] | [1]   |
|                                                | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                      | F125W             | (412) CLG-J0152-13 57-IR                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.451,0.<br>403                     |                         | 402.935899 Secs (402.936 Secs)<br>[==>] | [1]   |
|                                                | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                      | F160W             | (412) CLG-J0152-13 57-IR                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 3                                |                         | 402.935899 Secs (402.936 Secs)<br>[==>] | [1]   |
|                                                | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                      | F125W             | (412) CLG-J0152-13 57-IR                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.902,0.<br>806                     |                         | 352.935448 Secs (352.935 Secs)<br>[==>] | [1]   |
|                                                | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                      | F160W             | (412) CLG-J0152-13 57-IR                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                                |                         | 402.935899 Secs (402.936 Secs)<br>[==>] | [1]   |
|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                                                                     |                             |                          |                                  |                                              |                         |                                         |       |
| Orbit Structure                                | <div><div>Orbit 1</div><div>Server Version: 20170613</div><div><div><div>GS Acq</div><div>Exp. 1</div><div>Exp. 2</div><div>Exp. 3</div><div>Exp. 4</div><div>Exp. 5</div><div>Exp. 6</div><div>Reconfig</div><div>Occultation</div></div><div><div>Pointing Maneuver</div><div>Pointing Maneuver</div></div><div>Unused Orbital Visibility = 39</div></div></div> |                   |                                                                                     |                             |                          |                                  |                                              |                         |                                         |       |
|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                                                                     |                             |                          |                                  |                                              |                         |                                         |       |

# Proposal 14096 - 41 CLG-J0152-1357 SN2 (JG) - RELICS: Reionization Lensing Cluster Survey

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |                                                                                     |                             |  |                          |                                  |                                              |        |                                         |                              |       |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------|-----------------------------|--|--------------------------|----------------------------------|----------------------------------------------|--------|-----------------------------------------|------------------------------|-------|
| Visit                                          | Proposal 14096, 41 CLG-J0152-1357 SN2 (JG), completed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                                                                                     |                             |  |                          |                                  |                                              |        |                                         | Mon Aug 07 18:08:14 GMT 2017 |       |
|                                                | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                                                                                     |                             |  |                          |                                  |                                              |        |                                         |                              |       |
|                                                | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |                                                                                     |                             |  |                          |                                  |                                              |        |                                         |                              |       |
|                                                | Special Requirements: SCHED 100%; AFTER JF BY 7 D TO 14 D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                                                                     |                             |  |                          |                                  |                                              |        |                                         |                              |       |
| Comments: follow-up of a SN behind the cluster |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |                                                                                     |                             |  |                          |                                  |                                              |        |                                         |                              |       |
| Fixed Targets                                  | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Name              | Target Coordinates                                                                  |                             |  | Targ. Coord. Corrections |                                  | Fluxes                                       |        | Miscellaneous                           |                              |       |
|                                                | (412)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CLG-J0152-1357-IR | RA: 01 52 42.8664 (28.1786100d)<br>Dec: -13 57 31.00 (-13.95861d)<br>Equinox: J2000 |                             |  |                          |                                  | V=18                                         |        | Reference Frame: SIMBAD                 |                              |       |
|                                                | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                                                                                     |                             |  |                          |                                  |                                              |        |                                         |                              |       |
| Exposures                                      | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Label             | Target                                                                              | Config,Mode,Aperture        |  | Spectral Els.            | Opt. Params.                     | Special Reqs.                                | Groups | Exp. Time (Total)/[Actual Dur.]         |                              | Orbit |
|                                                | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | F160W             | (412) CLG-J0152-13 57-IR                                                            | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0,0;<br>GS ACQ SCENARI<br>O BASE1B3 |        | 402.935899 Secs (402.936 Secs)<br>[==>] |                              | [1]   |
|                                                | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | F125W             | (412) CLG-J0152-13 57-IR                                                            | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 1                                |        | 402.935899 Secs (402.936 Secs)<br>[==>] |                              | [1]   |
|                                                | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | F125W             | (412) CLG-J0152-13 57-IR                                                            | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.451,0.<br>403                     |        | 402.935899 Secs (402.936 Secs)<br>[==>] |                              | [1]   |
|                                                | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | F160W             | (412) CLG-J0152-13 57-IR                                                            | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 3                                |        | 402.935899 Secs (402.936 Secs)<br>[==>] |                              | [1]   |
|                                                | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | F125W             | (412) CLG-J0152-13 57-IR                                                            | WFC3/IR, MULTIACCUM, IR-FIX |  | F125W                    | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.902,0.<br>806                     |        | 352.935448 Secs (352.935 Secs)<br>[==>] |                              | [1]   |
|                                                | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | F160W             | (412) CLG-J0152-13 57-IR                                                            | WFC3/IR, MULTIACCUM, IR-FIX |  | F160W                    | NSAMP=9;<br>SAMP-SEQ=SPAR<br>S50 | SAME POS AS 5                                |        | 402.935899 Secs (402.936 Secs)<br>[==>] |                              | [1]   |
|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |                                                                                     |                             |  |                          |                                  |                                              |        |                                         |                              |       |
| Orbit Structure                                | <div><div>Orbit 1</div><div>Server Version: 20170613</div><div>Unused Orbital Visibility = 39</div><div><div>GS Acq</div><div>Exp. 1</div><div>Exp. 2</div><div>Pointing Maneuver</div><div>Exp. 3</div><div>Exp. 4</div><div>Pointing Maneuver</div><div>Exp. 5</div><div>Exp. 6</div><div>Reconfig</div><div>Occultation</div></div><div></div><div><div>0</div><div>500</div><div>1000</div><div>1500</div><div>2000</div><div>2500</div><div>3000</div><div>3500</div><div>4000</div><div>4500</div><div>5000</div><div>5500</div><div>sec</div></div></div> |                   |                                                                                     |                             |  |                          |                                  |                                              |        |                                         |                              |       |

# Proposal 14096 - 41 CLG-J0152-1357 SNhost F125W (JH) - RELICS: Reionization Lensing Cluster Survey

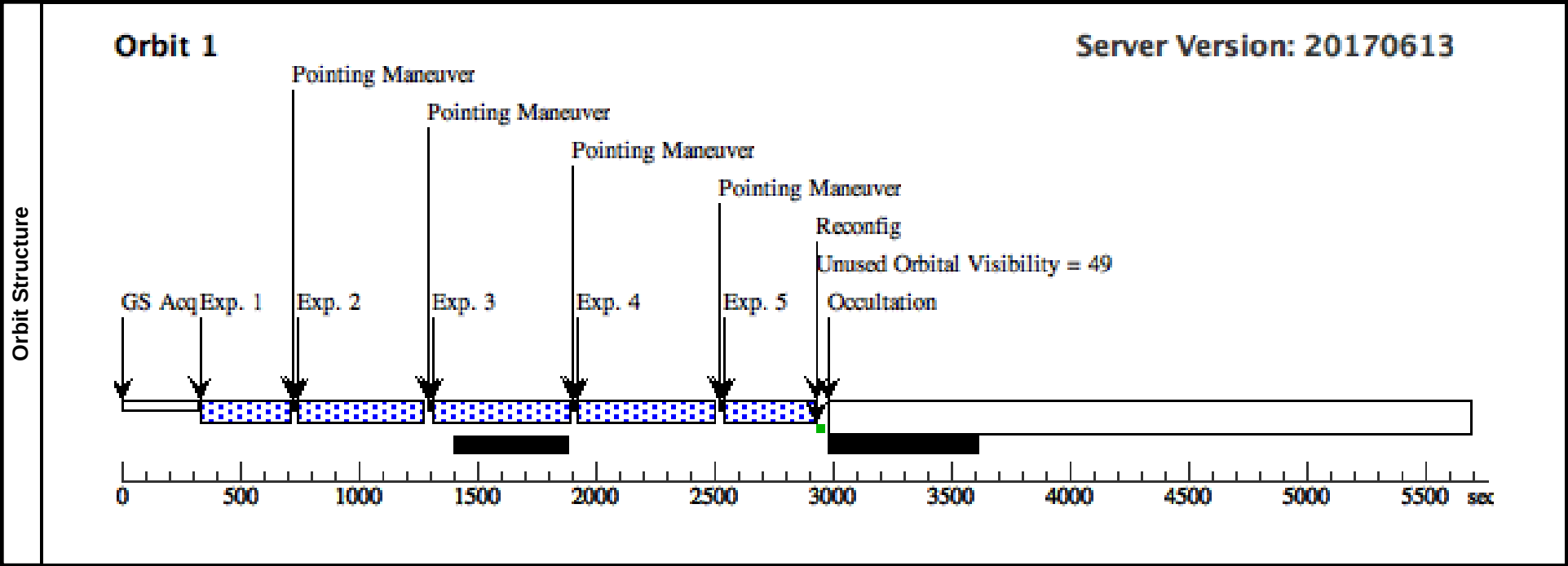
|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                     |                             |               |                                   |                        |        |                                         |                         |                              |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------|--------|-----------------------------------------|-------------------------|------------------------------|
| Visit                                                      | Proposal 14096, 41 CLG-J0152-1357 SNhost F125W (JH), completed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |                                                                                     |                             |               |                                   |                        |        |                                         |                         | Mon Aug 07 18:08:14 GMT 2017 |
|                                                            | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |                                                                                     |                             |               |                                   |                        |        |                                         |                         |                              |
|                                                            | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                     |                             |               |                                   |                        |        |                                         |                         |                              |
|                                                            | Special Requirements: SCHED 100%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                                                                     |                             |               |                                   |                        |        |                                         |                         |                              |
| Comments: follow-up of a SN host galaxy behind the cluster |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                                                                     |                             |               |                                   |                        |        |                                         |                         |                              |
| Fixed Targets                                              | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Name              | Target Coordinates                                                                  |                             |               | Targ. Coord. Corrections          |                        | Fluxes |                                         | Miscellaneous           |                              |
|                                                            | (412)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CLG-J0152-1357-IR | RA: 01 52 42.8664 (28.1786100d)<br>Dec: -13 57 31.00 (-13.95861d)<br>Equinox: J2000 |                             |               |                                   |                        | V=18   |                                         | Reference Frame: SIMBAD |                              |
|                                                            | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |                                                                                     |                             |               |                                   |                        |        |                                         |                         |                              |
| Exposures                                                  | #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Label             | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.          | Groups | Exp. Time (Total)/[Actual Dur.]         |                         | Orbit                        |
|                                                            | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | F125W             | (412) CLG-J0152-13 57-IR                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.273,0.302   |        | 552.937252 Secs (552.937 Secs)<br>[==>] |                         | [1]                          |
|                                                            | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | F125W             | (412) CLG-J0152-13 57-IR                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.540,-0.243  |        | 652.938154 Secs (652.938 Secs)<br>[==>] |                         | [1]                          |
|                                                            | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | F125W             | (412) CLG-J0152-13 57-IR                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG -0.340,-0.301 |        | 652.938154 Secs (652.938 Secs)<br>[==>] |                         | [1]                          |
|                                                            | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | F125W             | (412) CLG-J0152-13 57-IR                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG -0.608,0.244  |        | 552.937252 Secs (552.937 Secs)<br>[==>] |                         | [1]                          |
| Orbit Structure                                            | <div><div>Orbit 1</div><div>Server Version: 20170613</div><p>The diagram illustrates the orbit structure for Orbit 1, spanning from 0 to 5500 seconds. Key events include:</p><ul style="list-style-type: none"><li><b>GS Acq</b>: Ground Station Acquisition at the start of the mission.</li><li><b>Exp. 1</b>: First exposure period, indicated by a blue checkered bar.</li><li><b>Pointing Maneuver</b>: Three maneuvers are shown as vertical arrows, occurring between exposures.</li><li><b>Exp. 2, 3, 4</b>: Subsequent exposure periods.</li><li><b>Reconfig</b>: A reconfiguration event at 3000 seconds, marked by a vertical arrow.</li><li><b>Unused Orbital Visibility = 14</b>: A period of unused visibility following the reconfiguration.</li><li><b>Occultation</b>: A period of occultation at the end of the mission.</li></ul></div> <div></div> |                   |                                                                                     |                             |               |                                   |                        |        |                                         |                         |                              |

# Proposal 14096 - 41 CLG-J0152-1357 SNhost F160W (JK) - RELICS: Reionization Lensing Cluster Survey

|                                                            |                                                                                                   |                   |                                                                                     |                             |                          |                                   |                            |        |                                         |       |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------|-----------------------------|--------------------------|-----------------------------------|----------------------------|--------|-----------------------------------------|-------|
| Visit                                                      | Proposal 14096, 41 CLG-J0152-1357 SNhost F160W (JK), completed                                    |                   |                                                                                     |                             |                          |                                   |                            |        | Mon Aug 07 18:08:14 GMT 2017            |       |
|                                                            | Diagnostic Status: No Diagnostics                                                                 |                   |                                                                                     |                             |                          |                                   |                            |        |                                         |       |
|                                                            | Scientific Instruments: WFC3/IR                                                                   |                   |                                                                                     |                             |                          |                                   |                            |        |                                         |       |
|                                                            | Special Requirements: SCHED 100%                                                                  |                   |                                                                                     |                             |                          |                                   |                            |        |                                         |       |
| Comments: follow-up of a SN host galaxy behind the cluster |                                                                                                   |                   |                                                                                     |                             |                          |                                   |                            |        |                                         |       |
| Fixed Targets                                              | #                                                                                                 | Name              | Target Coordinates                                                                  |                             | Targ. Coord. Corrections |                                   | Fluxes                     |        | Miscellaneous                           |       |
|                                                            | (412)                                                                                             | CLG-J0152-1357-IR | RA: 01 52 42.8664 (28.1786100d)<br>Dec: -13 57 31.00 (-13.95861d)<br>Equinox: J2000 |                             |                          |                                   | V=18                       |        | Reference Frame: SIMBAD                 |       |
|                                                            | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                   |                                                                                     |                             |                          |                                   |                            |        |                                         |       |
| Exposures                                                  | #                                                                                                 | Label             | Target                                                                              | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.                      | Special Reqs.              | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|                                                            | 1                                                                                                 | F160W             | (412) CLG-J0152-13 57-IR                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.273,0.<br>302   |        | 552.937252 Secs (552.937 Secs)<br>[==>] | [1]   |
|                                                            | 2                                                                                                 | F160W             | (412) CLG-J0152-13 57-IR                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.540,-0<br>.243  |        | 652.938154 Secs (652.938 Secs)<br>[==>] | [1]   |
|                                                            | 3                                                                                                 | F160W             | (412) CLG-J0152-13 57-IR                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG -0.340,-<br>0.301 |        | 652.938154 Secs (652.938 Secs)<br>[==>] | [1]   |
|                                                            | 4                                                                                                 | F160W             | (412) CLG-J0152-13 57-IR                                                            | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG -0.608,0<br>.244  |        | 552.937252 Secs (552.937 Secs)<br>[==>] | [1]   |
| Orbit Structure                                            | <div><div>Orbit 1</div><div>Server Version: 20170613</div></div>                                  |                   |                                                                                     |                             |                          |                                   |                            |        |                                         |       |

# Proposal 14096 - 41 CLG-J0152-1357 SNhost F105W (JL) - RELICS: Reionization Lensing Cluster Survey

|               |                                                                                                   |                   |                                                                                     |                             |               |                                   |                        |                                                             |                                         |                         |                              |
|---------------|---------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------|-------------------------------------------------------------|-----------------------------------------|-------------------------|------------------------------|
| Visit         | Proposal 14096, 41 CLG-J0152-1357 SNhost F105W (JL)                                               |                   |                                                                                     |                             |               |                                   |                        |                                                             |                                         |                         | Mon Aug 07 18:08:14 GMT 2017 |
|               | Diagnostic Status: No Diagnostics                                                                 |                   |                                                                                     |                             |               |                                   |                        |                                                             |                                         |                         |                              |
|               | Scientific Instruments: WFC3/IR                                                                   |                   |                                                                                     |                             |               |                                   |                        |                                                             |                                         |                         |                              |
|               | Special Requirements: SCHED 100%                                                                  |                   |                                                                                     |                             |               |                                   |                        |                                                             |                                         |                         |                              |
|               | Comments: follow-up of a SN host galaxy behind the cluster                                        |                   |                                                                                     |                             |               |                                   |                        |                                                             |                                         |                         |                              |
| Fixed Targets | #                                                                                                 | Name              | Target Coordinates                                                                  |                             |               | Targ. Coord. Corrections          |                        | Fluxes                                                      |                                         | Miscellaneous           |                              |
|               | (412)                                                                                             | CLG-J0152-1357-IR | RA: 01 52 42.8664 (28.1786100d)<br>Dec: -13 57 31.00 (-13.95861d)<br>Equinox: J2000 |                             |               |                                   |                        | V=18                                                        |                                         | Reference Frame: SIMBAD |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |                   |                                                                                     |                             |               |                                   |                        |                                                             |                                         |                         |                              |
|               |                                                                                                   |                   |                                                                                     |                             |               |                                   |                        |                                                             |                                         |                         |                              |
| Exposures     | #                                                                                                 | Label             | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.          | Groups                                                      | Exp. Time (Total)/[Actual Dur.]         |                         | Orbit                        |
|               | 1                                                                                                 | F105W             | (412) CLG-J0152-1357-IR                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0.273,0.302   | Sequence 1-5 Non-Int in 41 CLG-J0152-1357 SNhost F105W (JL) | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |
|               | 2                                                                                                 | F105W             | (412) CLG-J0152-1357-IR                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=11;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.540,-0.243  | Sequence 1-5 Non-Int in 41 CLG-J0152-1357 SNhost F105W (JL) | 502.936801 Secs (502.937 Secs)<br>[==>] |                         | [1]                          |
|               | 3                                                                                                 | F105W             | (412) CLG-J0152-1357-IR                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG -0.340,-0.301 | Sequence 1-5 Non-Int in 41 CLG-J0152-1357 SNhost F105W (JL) | 552.937252 Secs (552.937 Secs)<br>[==>] |                         | [1]                          |
|               | 4                                                                                                 | F105W             | (412) CLG-J0152-1357-IR                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG -0.608,0.244  | Sequence 1-5 Non-Int in 41 CLG-J0152-1357 SNhost F105W (JL) | 552.937252 Secs (552.937 Secs)<br>[==>] |                         | [1]                          |
|               | 5                                                                                                 | F105W             | (412) CLG-J0152-1357-IR                                                             | WFC3/IR, MULTIACCUM, IR-FIX | F105W         | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S50  | POS TARG 0,0           | Sequence 1-5 Non-Int in 41 CLG-J0152-1357 SNhost F105W (JL) | 352.935448 Secs (352.935 Secs)<br>[==>] |                         | [1]                          |



# Proposal 14096 - 26 ACO-1763 SNhost F125W (3A) - RELICS: Reionization Lensing Cluster Survey

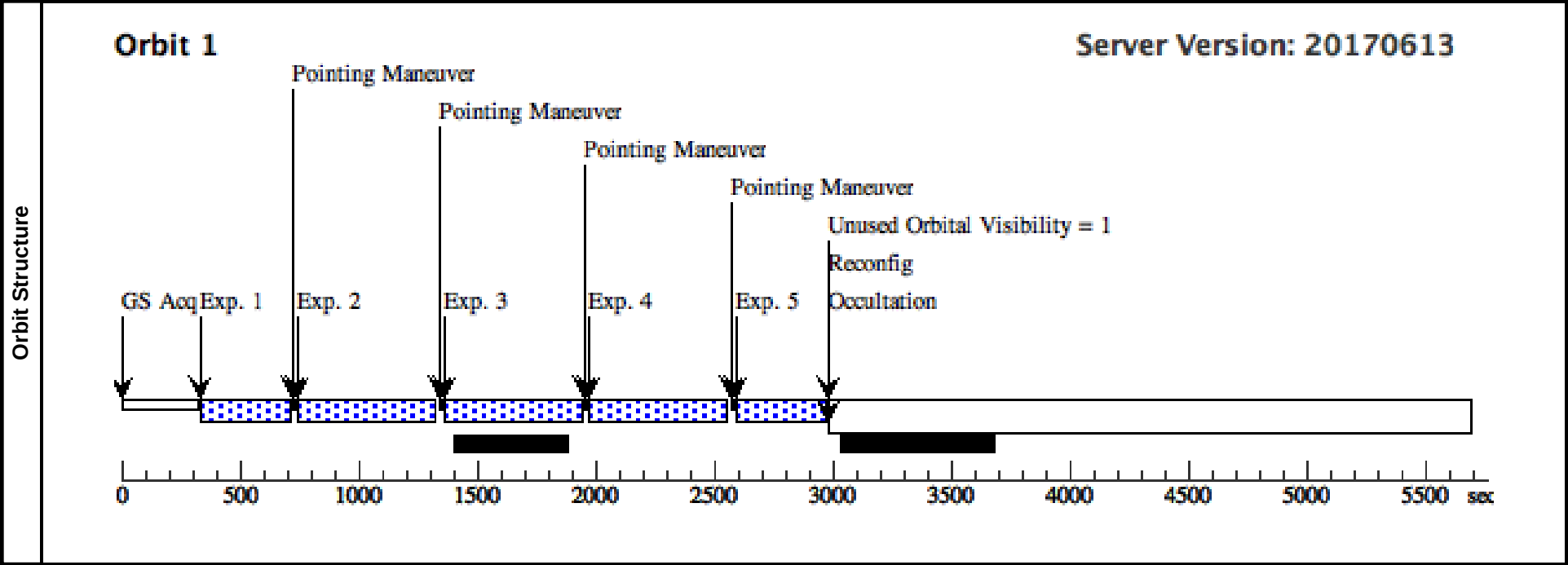
|                                                            |                                                                                                                             |          |                                                                                     |                             |               |                                   |                              |        |                                         |       |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------|--------|-----------------------------------------|-------|
| Visit                                                      | Proposal 14096, 26 ACO-1763 SNhost F125W (3A), completed                                                                    |          |                                                                                     |                             |               |                                   | Mon Aug 07 18:08:14 GMT 2017 |        |                                         |       |
|                                                            | Diagnostic Status: No Diagnostics                                                                                           |          |                                                                                     |                             |               |                                   |                              |        |                                         |       |
|                                                            | Scientific Instruments: WFC3/IR                                                                                             |          |                                                                                     |                             |               |                                   |                              |        |                                         |       |
|                                                            | Special Requirements: SCHED 100%                                                                                            |          |                                                                                     |                             |               |                                   |                              |        |                                         |       |
| Comments: follow-up of a SN host galaxy behind the cluster |                                                                                                                             |          |                                                                                     |                             |               |                                   |                              |        |                                         |       |
| Fixed Targets                                              | #                                                                                                                           | Name     | Target Coordinates                                                                  | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                     |                              |        |                                         |       |
|                                                            | (26)                                                                                                                        | ACO-1763 | RA: 13 35 18.9035 (203.8287646d)<br>Dec: +40 59 57.23 (40.99923d)<br>Equinox: J2000 |                             | V=18          | Reference Frame: SIMBAD           |                              |        |                                         |       |
|                                                            | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                           |          |                                                                                     |                             |               |                                   |                              |        |                                         |       |
| Exposures                                                  | #                                                                                                                           | Label    | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|                                                            | 1                                                                                                                           | F125W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.273,0.<br>302     |        | 552.937252 Secs (552.937 Secs)<br>[==>] | [1]   |
|                                                            | 2                                                                                                                           | F125W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.540,-0<br>.243    |        | 652.938154 Secs (652.938 Secs)<br>[==>] | [1]   |
|                                                            | 3                                                                                                                           | F125W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG -0.340,-<br>0.301   |        | 652.938154 Secs (652.938 Secs)<br>[==>] | [1]   |
|                                                            | 4                                                                                                                           | F125W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F125W         | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG -0.608,0<br>.244    |        | 552.937252 Secs (552.937 Secs)<br>[==>] | [1]   |
| Orbit Structure                                            | <div><div>Orbit 1</div><div>Server Version: 20170613</div><div>05001000150020002500300035004000450050005500 sec</div></div> |          |                                                                                     |                             |               |                                   |                              |        |                                         |       |

# Proposal 14096 - 26 ACO-1763 SNhost F160W (3B) - RELICS: Reionization Lensing Cluster Survey

|                                                            |                                                                                                                                                                                                                                                                                                                                                                             |          |                                                                                     |                             |               |                                   |                              |        |                                         |       |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------------------------|------------------------------|--------|-----------------------------------------|-------|
| Visit                                                      | Proposal 14096, 26 ACO-1763 SNhost F160W (3B), completed                                                                                                                                                                                                                                                                                                                    |          |                                                                                     |                             |               |                                   | Mon Aug 07 18:08:14 GMT 2017 |        |                                         |       |
|                                                            | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                                                                                                           |          |                                                                                     |                             |               |                                   |                              |        |                                         |       |
|                                                            | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                                                             |          |                                                                                     |                             |               |                                   |                              |        |                                         |       |
|                                                            | Special Requirements: SCHED 100%                                                                                                                                                                                                                                                                                                                                            |          |                                                                                     |                             |               |                                   |                              |        |                                         |       |
| Comments: follow-up of a SN host galaxy behind the cluster |                                                                                                                                                                                                                                                                                                                                                                             |          |                                                                                     |                             |               |                                   |                              |        |                                         |       |
| Fixed Targets                                              | #                                                                                                                                                                                                                                                                                                                                                                           | Name     | Target Coordinates                                                                  | Targ. Coord. Corrections    | Fluxes        | Miscellaneous                     |                              |        |                                         |       |
|                                                            | (26)                                                                                                                                                                                                                                                                                                                                                                        | ACO-1763 | RA: 13 35 18.9035 (203.8287646d)<br>Dec: +40 59 57.23 (40.99923d)<br>Equinox: J2000 |                             | V=18          | Reference Frame: SIMBAD           |                              |        |                                         |       |
|                                                            | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                                                                                                           |          |                                                                                     |                             |               |                                   |                              |        |                                         |       |
| Exposures                                                  | #                                                                                                                                                                                                                                                                                                                                                                           | Label    | Target                                                                              | Config,Mode,Aperture        | Spectral Els. | Opt. Params.                      | Special Reqs.                | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|                                                            | 1                                                                                                                                                                                                                                                                                                                                                                           | F160W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.273,0.<br>302     |        | 552.937252 Secs (552.937 Secs)<br>[==>] | [1]   |
|                                                            | 2                                                                                                                                                                                                                                                                                                                                                                           | F160W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.540,-0<br>.243    |        | 652.938154 Secs (652.938 Secs)<br>[==>] | [1]   |
|                                                            | 3                                                                                                                                                                                                                                                                                                                                                                           | F160W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG -0.340,-<br>0.301   |        | 652.938154 Secs (652.938 Secs)<br>[==>] | [1]   |
|                                                            | 4                                                                                                                                                                                                                                                                                                                                                                           | F160W    | (26) ACO-1763                                                                       | WFC3/IR, MULTIACCUM, IR-FIX | F160W         | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG -0.608,0<br>.244    |        | 552.937252 Secs (552.937 Secs)<br>[==>] | [1]   |
| Orbit Structure                                            | <div><div>Orbit 1</div><div>Server Version: 20170613</div><div>GS AcqExp. 1</div><div>Exp. 2</div><div>Exp. 3</div><div>Exp. 4</div><div>Pointing Maneuver</div><div>Pointing Maneuver</div><div>Pointing Maneuver</div><div>Unused Orbital Visibility = 16</div><div>Reconfig</div><div>Occultation</div><div>05001000150020002500300035004000450050005500 sec</div></div> |          |                                                                                     |                             |               |                                   |                              |        |                                         |       |

# Proposal 14096 - 26 ACO-1763 SNhost F105W (3C) - RELICS: Reionization Lensing Cluster Survey

| Visit         | Proposal 14096, 26 ACO-1763 SNhost F105W (3C)                                                     |               |                                  |                             |                   |                          |                                                       |                                                       |                                 |                         | Mon Aug 07 18:08:14 GMT 2017 |  |
|---------------|---------------------------------------------------------------------------------------------------|---------------|----------------------------------|-----------------------------|-------------------|--------------------------|-------------------------------------------------------|-------------------------------------------------------|---------------------------------|-------------------------|------------------------------|--|
|               | Diagnostic Status: No Diagnostics                                                                 |               |                                  |                             |                   |                          |                                                       |                                                       |                                 |                         |                              |  |
|               | Scientific Instruments: WFC3/IR                                                                   |               |                                  |                             |                   |                          |                                                       |                                                       |                                 |                         |                              |  |
|               | Special Requirements: SCHED 100%                                                                  |               |                                  |                             |                   |                          |                                                       |                                                       |                                 |                         |                              |  |
|               | Comments: follow-up of a SN host galaxy behind the cluster                                        |               |                                  |                             |                   |                          |                                                       |                                                       |                                 |                         |                              |  |
| Fixed Targets | #                                                                                                 | Name          | Target Coordinates               |                             |                   | Targ. Coord. Corrections |                                                       | Fluxes                                                |                                 | Miscellaneous           |                              |  |
|               | (26)                                                                                              | ACO-1763      | RA: 13 35 18.9035 (203.8287646d) |                             |                   |                          |                                                       | V=18                                                  |                                 | Reference Frame: SIMBAD |                              |  |
|               |                                                                                                   |               | Dec: +40 59 57.23 (40.99923d)    |                             |                   |                          |                                                       |                                                       |                                 |                         |                              |  |
|               |                                                                                                   |               | Equinox: J2000                   |                             |                   |                          |                                                       |                                                       |                                 |                         |                              |  |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. |               |                                  |                             |                   |                          |                                                       |                                                       |                                 |                         |                              |  |
| Exposures     | #                                                                                                 | Label         | Target                           | Config,Mode,Aperture        | Spectral Els.     | Opt. Params.             | Special Reqs.                                         | Groups                                                | Exp. Time (Total)/[Actual Dur.] |                         | Orbit                        |  |
|               | 1                                                                                                 | F105W         | (26) ACO-1763                    | WFC3/IR, MULTIACCUM, IR-FIX | F105W             | NSAMP=8;                 | POS TARG 0.273,0.302                                  | Sequence 1-5 Non-Int in 26 ACO-1763 SNhost F105W (3C) | 352.935448 Secs                 | (352.935 Secs)          |                              |  |
|               |                                                                                                   |               |                                  |                             |                   | SAMP-SEQ=SPAR S50        |                                                       |                                                       | [==>]                           |                         | [1]                          |  |
|               | 2                                                                                                 | F105W         | (26) ACO-1763                    | WFC3/IR, MULTIACCUM, IR-FIX | F105W             | NSAMP=12;                | POS TARG 0.540,-0.243                                 | Sequence 1-5 Non-Int in 26 ACO-1763 SNhost F105W (3C) | 552.937252 Secs                 | (552.937 Secs)          |                              |  |
|               |                                                                                                   |               |                                  |                             |                   | SAMP-SEQ=SPAR S50        |                                                       |                                                       | [==>]                           |                         | [1]                          |  |
|               | 3                                                                                                 | F105W         | (26) ACO-1763                    | WFC3/IR, MULTIACCUM, IR-FIX | F105W             | NSAMP=12;                | POS TARG -0.340,-0.301                                | Sequence 1-5 Non-Int in 26 ACO-1763 SNhost F105W (3C) | 552.937252 Secs                 | (552.937 Secs)          |                              |  |
|               |                                                                                                   |               |                                  |                             |                   | SAMP-SEQ=SPAR S50        |                                                       |                                                       | [==>]                           |                         | [1]                          |  |
| 4             | F105W                                                                                             | (26) ACO-1763 | WFC3/IR, MULTIACCUM, IR-FIX      | F105W                       | NSAMP=12;         | POS TARG -0.608,0.244    | Sequence 1-5 Non-Int in 26 ACO-1763 SNhost F105W (3C) | 552.937252 Secs                                       | (552.937 Secs)                  |                         |                              |  |
|               |                                                                                                   |               |                                  |                             | SAMP-SEQ=SPAR S50 |                          |                                                       | [==>]                                                 |                                 | [1]                     |                              |  |
| 5             | F105W                                                                                             | (26) ACO-1763 | WFC3/IR, MULTIACCUM, IR-FIX      | F105W                       | NSAMP=8;          | POS TARG 0,0             | Sequence 1-5 Non-Int in 26 ACO-1763 SNhost F105W (3C) | 352.935448 Secs                                       | (352.935 Secs)                  |                         |                              |  |
|               |                                                                                                   |               |                                  |                             | SAMP-SEQ=SPAR S50 |                          |                                                       | [==>]                                                 |                                 | [1]                     |                              |  |



# Proposal 14096 - 23 SMACSJ0723.3-7327 SNhost F125W (ZA) - RELICS: Reionization Lensing Cluster Survey

|                                                            |                                                                                                                                                                                                                                                                                                                                                                             |                   |                                                                                      |                             |                          |                                   |                        |        |                                         |  |       |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------|-----------------------------|--------------------------|-----------------------------------|------------------------|--------|-----------------------------------------|--|-------|
| Visit                                                      | Proposal 14096, 23 SMACSJ0723.3-7327 SNhost F125W (ZA), completed                                                                                                                                                                                                                                                                                                           |                   |                                                                                      |                             |                          |                                   |                        |        | Mon Aug 07 18:08:14 GMT 2017            |  |       |
|                                                            | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                                                                                                           |                   |                                                                                      |                             |                          |                                   |                        |        |                                         |  |       |
|                                                            | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                                                                                                             |                   |                                                                                      |                             |                          |                                   |                        |        |                                         |  |       |
|                                                            | Special Requirements: SCHED 100%; BEFORE 17-JUL-2017:00:00:00                                                                                                                                                                                                                                                                                                               |                   |                                                                                      |                             |                          |                                   |                        |        |                                         |  |       |
| Comments: follow-up of a SN host galaxy behind the cluster |                                                                                                                                                                                                                                                                                                                                                                             |                   |                                                                                      |                             |                          |                                   |                        |        |                                         |  |       |
| Fixed Targets                                              | #                                                                                                                                                                                                                                                                                                                                                                           | Name              | Target Coordinates                                                                   |                             | Targ. Coord. Corrections |                                   | Fluxes                 |        | Miscellaneous                           |  |       |
|                                                            | (23)                                                                                                                                                                                                                                                                                                                                                                        | SMACSJ0723.3-7327 | RA: 07 23 19.4541 (110.8310587d)<br>Dec: -73 27 15.63 (-73.45434d)<br>Equinox: J2000 |                             |                          |                                   | V=18                   |        | Reference Frame: SIMBAD                 |  |       |
|                                                            | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                                                                                                           |                   |                                                                                      |                             |                          |                                   |                        |        |                                         |  |       |
|                                                            |                                                                                                                                                                                                                                                                                                                                                                             |                   |                                                                                      |                             |                          |                                   |                        |        |                                         |  |       |
| Exposures                                                  | #                                                                                                                                                                                                                                                                                                                                                                           | Label             | Target                                                                               | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.                      | Special Reqs.          | Groups | Exp. Time (Total)/[Actual Dur.]         |  | Orbit |
|                                                            | 1                                                                                                                                                                                                                                                                                                                                                                           | F125W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.273,0.302   |        | 552.937252 Secs (552.937 Secs)<br>[==>] |  | [1]   |
|                                                            | 2                                                                                                                                                                                                                                                                                                                                                                           | F125W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.540,-0.243  |        | 652.938154 Secs (652.938 Secs)<br>[==>] |  | [1]   |
|                                                            | 3                                                                                                                                                                                                                                                                                                                                                                           | F125W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG -0.340,-0.301 |        | 652.938154 Secs (652.938 Secs)<br>[==>] |  | [1]   |
|                                                            | 4                                                                                                                                                                                                                                                                                                                                                                           | F125W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F125W                    | NSAMP=13;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG -0.608,0.244  |        | 602.937703 Secs (602.938 Secs)<br>[==>] |  | [1]   |
|                                                            |                                                                                                                                                                                                                                                                                                                                                                             |                   |                                                                                      |                             |                          |                                   |                        |        |                                         |  |       |
| Orbit Structure                                            | <div><div>Orbit 1</div><div>Server Version: 20170613</div><div>GS AcqExp. 1</div><div>Exp. 2</div><div>Exp. 3</div><div>Exp. 4</div><div>Reconfig</div><div>Unused Orbital Visibility = 26</div><div>Occultation</div><div>Pointing Maneuver</div><div>Pointing Maneuver</div><div>Pointing Maneuver</div><div>05001000150020002500300035004000450050005500 sec</div></div> |                   |                                                                                      |                             |                          |                                   |                        |        |                                         |  |       |

# Proposal 14096 - 23 SMACSJ0723.3-7327 SNhost F160W (ZB) - RELICS: Reionization Lensing Cluster Survey

|                                                            |                                                                                                                                                                                                                                                                                         |                   |                                                                                      |                             |                          |                                   |                        |        |                                         |       |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------|-----------------------------|--------------------------|-----------------------------------|------------------------|--------|-----------------------------------------|-------|
| Visit                                                      | Proposal 14096, 23 SMACSJ0723.3-7327 SNhost F160W (ZB), completed                                                                                                                                                                                                                       |                   |                                                                                      |                             |                          |                                   |                        |        | Mon Aug 07 18:08:14 GMT 2017            |       |
|                                                            | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                       |                   |                                                                                      |                             |                          |                                   |                        |        |                                         |       |
|                                                            | Scientific Instruments: WFC3/IR                                                                                                                                                                                                                                                         |                   |                                                                                      |                             |                          |                                   |                        |        |                                         |       |
|                                                            | Special Requirements: SCHED 100%; BEFORE 17-JUL-2017:00:00:00                                                                                                                                                                                                                           |                   |                                                                                      |                             |                          |                                   |                        |        |                                         |       |
| Comments: follow-up of a SN host galaxy behind the cluster |                                                                                                                                                                                                                                                                                         |                   |                                                                                      |                             |                          |                                   |                        |        |                                         |       |
| Fixed Targets                                              | #                                                                                                                                                                                                                                                                                       | Name              | Target Coordinates                                                                   |                             | Targ. Coord. Corrections |                                   | Fluxes                 |        | Miscellaneous                           |       |
|                                                            | (23)                                                                                                                                                                                                                                                                                    | SMACSJ0723.3-7327 | RA: 07 23 19.4541 (110.8310587d)<br>Dec: -73 27 15.63 (-73.45434d)<br>Equinox: J2000 |                             |                          |                                   | V=18                   |        | Reference Frame: SIMBAD                 |       |
|                                                            | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                       |                   |                                                                                      |                             |                          |                                   |                        |        |                                         |       |
| Exposures                                                  | #                                                                                                                                                                                                                                                                                       | Label             | Target                                                                               | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.                      | Special Reqs.          | Groups | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|                                                            | 1                                                                                                                                                                                                                                                                                       | F160W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=12;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.273,0.302   |        | 552.937252 Secs (552.937 Secs)<br>[==>] | [1]   |
|                                                            | 2                                                                                                                                                                                                                                                                                       | F160W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG 0.540,-0.243  |        | 652.938154 Secs (652.938 Secs)<br>[==>] | [1]   |
|                                                            | 3                                                                                                                                                                                                                                                                                       | F160W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=14;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG -0.340,-0.301 |        | 652.938154 Secs (652.938 Secs)<br>[==>] | [1]   |
|                                                            | 4                                                                                                                                                                                                                                                                                       | F160W             | (23) SMACSJ0723.3-7327                                                               | WFC3/IR, MULTIACCUM, IR-FIX | F160W                    | NSAMP=13;<br>SAMP-SEQ=SPAR<br>S50 | POS TARG -0.608,0.244  |        | 602.937703 Secs (602.938 Secs)<br>[==>] | [1]   |
|                                                            |                                                                                                                                                                                                                                                                                         |                   |                                                                                      |                             |                          |                                   |                        |        |                                         |       |
| Orbit Structure                                            | <div><div>Orbit 1</div><div>Server Version: 20170613</div><div>GS AcqExp. 1</div><div>Exp. 2</div><div>Exp. 3</div><div>Exp. 4</div><div>Reconfig</div><div>Unused Orbital Visibility = 26</div><div>Occultation</div><div>05001000150020002500300035004000450050005500 sec</div></div> |                   |                                                                                      |                             |                          |                                   |                        |        |                                         |       |