16015 - SNAPshot observations of the largest sample of lensed candidates in the Equatorial and Southern Sky identified with Herschel

Cycle: 26, Proposal Category: SNAP

(Availability Mode: SUPPORTED)

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VISITS

Visit	***Targets used in Visit***	***Configurations used in Visit***	***Orbits Used***	***Last Orbit Planner Run***	***OP Current with Visit?***
02	(2) HATLASJ141955.5-003449	WFC3/IR	1	09-Oct-2019 12:00:45.0	yes
19	(19) HELMSJ235601.5-071142	WFC3/IR	1	09-Oct-2019 12:00:46.0	yes
20	(20) HATLASJ144512.1-001510	WFC3/IR	1	09-Oct-2019 12:00:47.0	yes
21	(21) HELMSJ003032.1-021153	WFC3/IR	1	09-Oct-2019 12:00:48.0	yes
22	(22) HATLASJ234418.1-303936	WFC3/IR	1	09-Oct-2019 12:00:48.0	yes
23	(23) HATLASJ232900.6-321744	WFC3/IR	1	09-Oct-2019 12:00:49.0	yes
25	(25) HELMSJ001027.1-024624	WFC3/IR	1	09-Oct-2019 12:00:49.0	yes
26	(26) HATLASJ230815.5-343801	WFC3/IR	1	09-Oct-2019 12:00:50.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
27	(27) HELMSJ233255.4-031134	WFC3/IR	1	09-Oct-2019 12:00:51.0	yes
28	(28) HATLASJ143607.6-005442	WFC3/IR	1	09-Oct-2019 12:00:51.0	yes
31	(31) HELMSJ001325.7+042509	WFC3/IR	1	09-Oct-2019 12:00:52.0	yes
34	(34) HERSJ012106.9+003457	WFC3/IR	1	09-Oct-2019 12:00:52.0	yes
35	(35) HELMSJ002719.5+001204	WFC3/IR	1	09-Oct-2019 12:00:53.0	yes
43	(43) HELMSJ234051.5-041938	WFC3/IR	1	09-Oct-2019 12:00:53.0	yes
47	(47) HERSJ011722.3+005624	WFC3/IR	1	09-Oct-2019 12:00:54.0	yes
49	(49) HATLASJ235121.9-332902	WFC3/IR	1	09-Oct-2019 12:00:55.0	yes
51	(51) HERSJ012041.6-002705	WFC3/IR	1	09-Oct-2019 12:00:55.0	yes
54	(54) HERSJ011640.1-000454	WFC3/IR	1	09-Oct-2019 12:00:56.0	yes
60	(60) HELMSJ232500.1-005643	WFC3/IR	1	09-Oct-2019 12:00:56.0	yes
61	(61) HELMSJ001615.7+032435	WFC3/IR	1	09-Oct-2019 12:00:57.0	yes
62	(62) HERSJ010911.7-011733	WFC3/IR	1	09-Oct-2019 12:00:57.0	yes
71	(71) HELMSJ000215.9-012829	WFC3/IR	1	09-Oct-2019 12:00:58.0	yes
82	(82) HATLASJ224759.6-310134	WFC3/IR	1	09-Oct-2019 12:00:58.0	yes
94	(94) HATLASJ122459.1-005647	WFC3/IR	1	09-Oct-2019 12:00:59.0	yes
95	(95) HATLASJ115521.0-021329	WFC3/IR	1	09-Oct-2019 12:00:59.0	yes
97	(97) HATLASJ121900.8+003326	WFC3/IR	1	09-Oct-2019 12:01:00.0	yes
99	(99) HATLASJ143352.4+020417	WFC3/IR	1	09-Oct-2019 12:01:00.0	yes
0B	(101) HATLASJ142318.3+013913	WFC3/IR	1	09-Oct-2019 12:01:01.0	yes
0E	(104) HATLASJ144334.3-003034	WFC3/IR	1	09-Oct-2019 12:01:02.0	yes
0F	(105) HATLASJ145040.5+003334	WFC3/IR	1	09-Oct-2019 12:01:02.0	yes
0G	(106) HELMSJ004410.2+011821	WFC3/IR	1	09-Oct-2019 12:01:03.0	yes
0K	(110) HELMSJ233255.7-053426	WFC3/IR	1	09-Oct-2019 12:01:03.0	yes
0L	(111) HELMSJ232558.3-044525	WFC3/IR	1	09-Oct-2019 12:01:04.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
0N	(113) HELMSJ004124.0-010307	WFC3/IR	1	09-Oct-2019 12:01:04.0	yes
0O	(114) HELMSJ003758.0-010622	WFC3/IR	1	09-Oct-2019 12:01:05.0	yes
0P	(115) HELMSJ003009.2-020625	WFC3/IR	1	09-Oct-2019 12:01:05.0	yes
0R	(117) HELMSJ000336.9+014013	WFC3/IR	1	09-Oct-2019 12:01:06.0	yes
0S	(118) HELMSJ010801.8+053201	WFC3/IR	1	09-Oct-2019 12:01:07.0	yes
0T	(119) HELMSJ002936.3+020710	WFC3/IR	1	09-Oct-2019 12:01:07.0	yes
0W	(122) HELMSJ234951.6-030019	WFC3/IR	1	09-Oct-2019 12:01:08.0	yes
0Z	(125) HELMSJ233727.1-002343	WFC3/IR	1	09-Oct-2019 12:01:08.0	yes
1A	(126) HELMSJ004532.6-000123	WFC3/IR	1	09-Oct-2019 12:01:09.0	yes
1B	(127) HELMSJ002718.1+023943	WFC3/IR	1	09-Oct-2019 12:01:09.0	yes
1E	(130) HERSJ010133.8+003157	WFC3/IR	1	09-Oct-2019 12:01:10.0	yes
1F	(131) HERSJ010938.9-014830	WFC3/IR	1	09-Oct-2019 12:01:10.0	yes
1G	(132) HERSJ005847.3-010017	WFC3/IR	1	09-Oct-2019 12:01:11.0	yes
1H	(133) HERSJ012521.0+011724	WFC3/IR	1	09-Oct-2019 12:01:11.0	yes
1I	(134) HERSJ013212.2+001754	WFC3/IR	1	09-Oct-2019 12:01:12.0	yes
1K	(136) HERSJ010246.1+010543	WFC3/IR	1	09-Oct-2019 12:01:13.0	yes
1L	(137) HATLASJ012407.4-281434	WFC3/IR	1	09-Oct-2019 12:01:13.0	yes
1O	(140) HATLASJ010250.8-311723	WFC3/IR	1	09-Oct-2019 12:01:14.0	yes
1Q	(142) HATLASJ234357.7-351723	WFC3/IR	1	09-Oct-2019 12:01:14.0	yes
1S	(144) HATLASJ012046.4-282403	WFC3/IR	1	09-Oct-2019 12:01:15.0	yes
1T	(145) HATLASJ235827.6-323244	WFC3/IR	1	09-Oct-2019 12:01:16.0	yes
1U	(146) HATLASJ232623.0-342642	WFC3/IR	1	09-Oct-2019 12:01:16.0	yes
1V	(147) HATLASJ013239.9-330906	WFC3/IR	1	09-Oct-2019 12:01:17.0	yes
1W	(148) HATLASJ000007.4-334059	WFC3/IR	1	09-Oct-2019 12:01:17.0	yes
1X	(149) HATLASJ005132.8-301848	WFC3/IR	1	09-Oct-2019 12:01:18.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
1Y	(150) HATLASJ000722.1-352014	WFC3/IR	1	09-Oct-2019 12:01:18.0	yes
2B	(153) HATLASJ004853.2-303109	WFC3/IR	1	09-Oct-2019 12:01:19.0	yes
2C	(154) HATLASJ005132.0-302011	WFC3/IR	1	09-Oct-2019 12:01:19.0	yes
2E	(156) HATLASJ013004.1-305513	WFC3/IR	1	09-Oct-2019 12:01:20.0	yes
2F	(157) HATLASJ012415.9-310500	WFC3/IR	1	09-Oct-2019 12:01:21.0	yes
2G	(158) HATLASJ235623.0-354118	WFC3/IR	1	09-Oct-2019 12:01:21.0	yes
2H	(159) HATLASJ000124.9-354212	WFC3/IR	1	09-Oct-2019 12:01:22.0	yes
2M	(164) HATLASJ011823.7-274403	WFC3/IR	1	09-Oct-2019 12:01:22.0	yes
2N	(165) HATLASJ005629.6-311206	WFC3/IR	1	09-Oct-2019 12:01:23.0	yes
2O	(166) HATLASJ002054.5-312752	WFC3/IR	1	09-Oct-2019 12:01:23.0	yes
2Q	(168) HATLASJ235324.6-331110	WFC3/IR	1	09-Oct-2019 12:01:24.0	yes
2R	(169) HATLASJ002533.5-333825	WFC3/IR	1	09-Oct-2019 12:01:24.0	yes
2S	(170) HATLASJ005659.3-295038	WFC3/IR	1	09-Oct-2019 12:01:25.0	yes
2T	(171) HATLASJ234750.5-352931	WFC3/IR	1	09-Oct-2019 12:01:26.0	yes
2U	(172) HATLASJ000950.5-353828	WFC3/IR	1	09-Oct-2019 12:01:26.0	yes
2X	(175) HATLASJ011246.4-330610	WFC3/IR	1	09-Oct-2019 12:01:27.0	yes
2Y	(176) HATLASJ233024.1-325031	WFC3/IR	1	09-Oct-2019 12:01:27.0	yes
2Z	(177) HATLASJ001838.7-354132	WFC3/IR	1	09-Oct-2019 12:01:28.0	yes
3A	(178) HATLASJ001802.1-313504	WFC3/IR	1	09-Oct-2019 12:01:29.0	yes
3D	(181) HATLASJ000806.8-351204	WFC3/IR	1	09-Oct-2019 12:01:30.0	yes
3F	(183) HATLASJ012222.3-274456	WFC3/IR	1	09-Oct-2019 12:01:30.0	yes
3G	(184) HATLASJ003717.0-323306	WFC3/IR	1	09-Oct-2019 12:01:31.0	yes
3H	(185) HATLASJ225339.1-325549	WFC3/IR	1	09-Oct-2019 12:01:31.0	yes
3K	(188) HATLASJ011730.3-320719	WFC3/IR	1	09-Oct-2019 12:01:32.0	yes
3M	(190) HATLASJ012530.5-302509	WFC3/IR	1	09-Oct-2019 12:01:32.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
3P	(193) HATLASJ000745.8-342014	WFC3/IR	1	09-Oct-2019 12:01:33.0	yes
3S	(196) HATLASJ011850.0-283642	WFC3/IR	1	09-Oct-2019 12:01:33.0	yes
3T	(197) HATLASJ005849.9-290122	WFC3/IR	1	09-Oct-2019 12:01:34.0	yes
3U	(198) HATLASJ230538.5-312204	WFC3/IR	1	09-Oct-2019 12:01:35.0	yes
3W	(200) HATLASJ013216.9-320952	WFC3/IR	1	09-Oct-2019 12:01:35.0	yes

88 Total Orbits Used

ABSTRACT

We propose WFC3/IR F110W Snapshot observations of 200 gravitational lensing systems selected using Herschel submm data taken in all the major Herschel extragalactic surveys (over ~850 square degrees). This proposal aims to build upon the successful results of our cycle-19 snapshot (ID:12488) to complete the study of the brightest lensed galaxies ever discovered by Herschel in the Equatorial and Southern Sky. Our successful submm-based selection method identifies lensing events at much higher redshift than any other optical-based selection and is independent of the nature of the magnifier. With these data we will (1) characterize the morphology of the lenses and thus statistically determine what populations are responsible for the gravitational optical depth of the Universe, (2) make accurate fits to the lens light profiles disentangling the foreground lenses from the background sources (3) constrain (and in some cases directly detect) the rest-frame optical emission from the background sources providing estimates of the background source extinction, (4) identify the most extreme star-forming galaxies and rare lensing configurations in the Universe providing the best candidates for future ALMA follow-up, (5) measure the evolution of both the lens mass-density profile, constraing their assembly history, and the lens IMF. This HST program is well-timed with our on-going large spectroscopic program with SALT (3-year program, started in late 2015). This synergy guarantees the timely spectroscopic characterization of our targets securing a long-lasting legacy for this program.

OBSERVING DESCRIPTION

Our sample comprises 200 targets, selected from the widest area extragalactic Herschel surveys (H-ATLAS, HeLMS and HeRS). These targets are gravitational lens candidates with flux density above 80 mJy at 500 micron, selected according to the method presented in Negrello et al. (2010) and used in Nayyeri et al. 2016 and Bakx et al. (2017, submitted). The sample is divided as follows:

- 29+94 targets are from H-ATLAS in the GAMA and SGP fields respectively. These are distributed over >200 deg^2 divided into 4 fields (i.e. 3

equatorial fields centered at RA 9h, 12h and 14.5h and a southern field centered at RA 23h and DEC -32deg)

- 77 targets are from HeLMS and HeRS, distributed over >300 deg^2 centered on the SDSS Stripe 82 region.

The optical/near-IR emission in our targets is dominated by the galaxy that acts as a lens, typically a massive elliptical, although in some cases the lensing event can be associated to a group/cluster of galaxies. As stated in the phase-I version of this proposal, the primary goal of these snapshot observations is that of characterizing the morphology of the lensing systems and eventually to detect the background lensed galaxy after subtraction of the lens. Given that the flux density of elliptical galaxies increases with wavelength from the optical to the near-IR part of the spectrum, we have chosen to perform the snapshot observations with the WFC3/IR, using the broad F110W filter. We are aware that the F110W is sensitive to a variable background caused by He 10830 airglow emission, and we have taken this into account when we prepared the ETC simulations mentioed below. Despite this known problem we believe that by using the F110W we still have the best balance in term of S/N and expsosure time with respect to narrower filters such as the F125W, which would not be affected by the issue. This is based on our ETC simulations and on our results obtained in previous cycles using the F110W (cycle-18 : PID: 12194, PI: Negrello ; cycle-19: PID: 12488, PI: Negrello).

In cycle-18 we had data taken with WFC3/F110W and WFC3/F160W for the 5 lensing systems presented in Negrello et al. (2010) (PID: 12194, PI: Negrello) while in cycle-19 we had data taken with WFC3/F110W for 149 lens candidates. The strategy we applied in cycle-19 was based on the successful results obtained in cycle-18, hereafter summarized. In this cycle-25 we decide to apply the same strategy.

Here the summary of the results obtained in cycle-18 as examples:
Two of the targets observed in cycle-18 (ID81 and ID130, hereafter) have an SDSS r-band magnitude r<19.5 while the other three targets (ID9, ID11 and ID17) have 21.5~<r<~22.4. Based on these magnitudes (and on extrapolation of the optical fluxes to near-IR wavelengths) we decided to observe ID81 and ID130 for ~12 minutes on-source at 1.1 micron (using a WFC3-IR-DITHER-BOX-MIN pattern to sample the PSF) and ID9, ID11 and ID17 for ~23 minutes on-source at 1.1 micron (using again a WFC3- IR-DITHER-BOX-MIN patter). This strategy has allowed us to reach the following results:
- the five targets are detected at 1.1 micron with signal-to-noise ratio SNR~200-800, and their measured fluxes at 1.1 micron are in the range 10 to 250 muJy;
- in ID9 and ID11 the background galaxy is lensed into an Einstein ring clearly visible even without the subtraction of the lens. Once the foreground galaxy is subtracted, the Einstein ring is detected at SNR>~100;
- the lensed galaxy is also detected in ID17, ID81 and ID130 after the subtraction of the lens. The achieved SNR in this case is ~50-100.

As in cycle-19 (PID: 12488, PI: Negrello) with the present proposal we aim for observations that are relatively short in order to maximize the chance that our targets are observed, while still achieving a robust detection of the lensing galaxy that is needed to accurately fit its light profile (i.e. SNR>~100). By rescaling the signal-to-noise ratio with the square root of the exposure time we find that using a WFC3-IR-DITHER-BOX-MIN dither pattern with 60 second per exposure (for a total of 4 minutes on-source) we can still achieve a SNR~100-500 for the lens in systems like those discussed above (i.e. with r<~22.4), and a corresponding SNR~40-150 for the background source. These values will still allow us to fully characterize the morphology of the lensing galaxy and also to accurately measure the photometry of the background source in cases like ID9 and ID11.

52 of our targets have either a reliable optical association in SDSS with r<22.4 provided by the method described in Valiante et al. 2016 and Bourne et al. 2016 (in GAMA) or a KIDS/SDSS optical association (within 3 arcsec to the SPIRE target in SGP/HeLMS/HeRS, see below for more details). We propose to observe these targets using a WFC3-IR-DITHER-BOX-MIN pattern with individual exposures of ~63 seconds (by setting NSAMP=7 and SAMP-SEQ=SPARS10, full frame), for a total of ~252 seconds or ~4.2 minutes, (exposure ID: WFC3IR.im.1012202) on-source. Once guide-star acquisition, overheads and pointing maneuvers are taken into account, the total requested time per source, as given by the orbit planner, is ~813 seconds or ~13.5 minutes. This should provide us a S/N > 100 even in the condition of high background (exposure ID: WFC3IR.im.1012204).

The remaining targets fall below the r=22.4 limit. Using the exposure time calculator we find that an elliptical galaxy with r=23.5 at a representative redshift of z=0.5 can be detected at S/N=100 (assuming 4 frames and a circular extraction region of 1 arcsec in radius) in about ~422 seconds on-source, or ~1.8 minutes per frame (exposure ID: WFC3IR.im.1012197). The exposure time increases to ~3.3 minutes per frame if the source has r=24.0 (exposure ID: WFC3IR.im.1012192). Therefore, we propose to observe these fainter targets using a WFC3-IR-DITHER-BOX-MIN pattern with 4 individual frames of ~3 minutes each (by setting NSAMP=8 and SAMP-SEQ=SPARS25, full frame), for a total of 711.744 seconds or ~12 minutes on-source. Once guide-star acquisition, overheads and pointing maneuvers are taken into account, the total requested time per source, as given by the orbit planner, is 1,273 seconds or ~21 minutes. All our estimates are done taking into account an "average" He background.

For all the targets we provide the following "other-fluxes" quantities:
b) r-magnitude [AB]: this quantity is the magnitude of the SDSS optical source reliably associated to the SPIRE target as described in Bourne et al. 2016 and listed in the H-ATLAS GAMA DR1 catalogue described in Valiante et al. 2016; when this is not available (in SGP and HeLMS/HeRS) we use the SDSS r-magnitude associated (within 1.5 arcsec) to the most probable (within 3 arcsec) NIR counterpart (from VIKING in GAMA and SGP; from VHS/UKIDSS/2MASS in HeLMS/HeRS) associated to the SPIRE target. When no reliable NIR counterpart is found and the deeper KIDS

survey is available in the field (GAMA - partially covered and SGP) we provide the KIDS r magnitude of the closest KIDS counterpart within 3 arcsec from the SPIRE target. In HeLMS/HeRS where we do not have any KIDS data available, we do the latter association using the SDSS DR12 catalogue by Alam et al. 2015.
b) ZYJHKs-magnitude [AB]: these quantities are the magnitudes of the VIKING NIR reliably associated to the SPIRE target as described in Bourne et al. 2016 and listed in the H-ATLAS GAMA DR1 catalogue described in Valiante et al. 2016; when these are not available (in SGP and HeLMS/HeRS) we use the NIR zyJHKs magnitudes of the most probable (within 3 arcsec) NIR counterpart (from VIKING in GAMA and SGP; from VHS/UKIDSS/2MASS in HeLMS/HeRS) associated to the SPIRE target.
c) W1-magnitude [AB]: this quantity is the W1 profile-fitting magnitude of the ALLWISE source counterpart identified within 3 arcsec from the SPIRE target.

In case we do not have any of the detections described above, we use the official upper limits of each of these surveys. Since the coverage of these surveys is not uniform/complete over the sky areas where our targets are selected, the upper limit in the same band between different sources might be different according to the different survey (with different depths) available in the area.

Visit

Proposal 16015, LONG (02), implementation Wed Oct 09 16:01:36 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

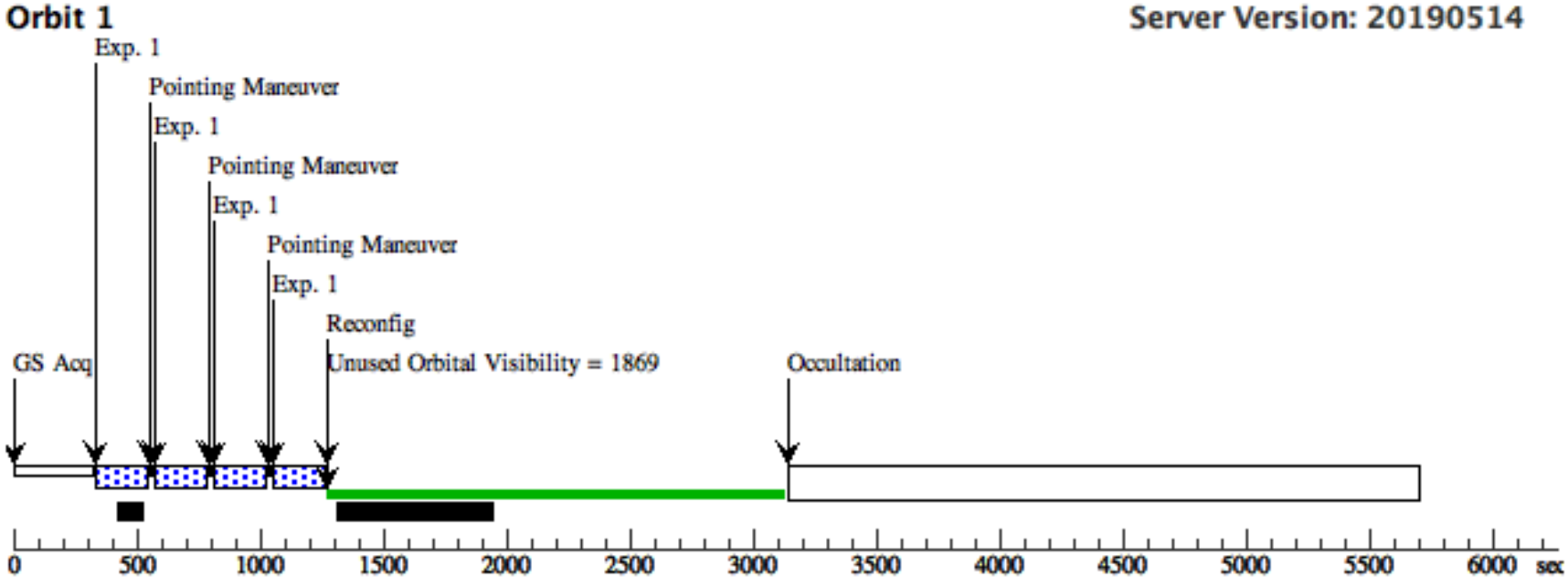
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HATLASJ141955.5-003449	RA: 14 19 55.5634 (214.9815142d) Dec: -00 34 49.04 (-.58029d) Equinox: J2000		V=(?) m(r)=25.10, m(z)=22.37, m(y)=22.11, m(j)=21.08, m(h)=22.11, m(k)=19.86, m(w1)=18.51	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(2) HATLASJ141955.5-003449	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (02) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (19), scheduling Wed Oct 09 16:01:36 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

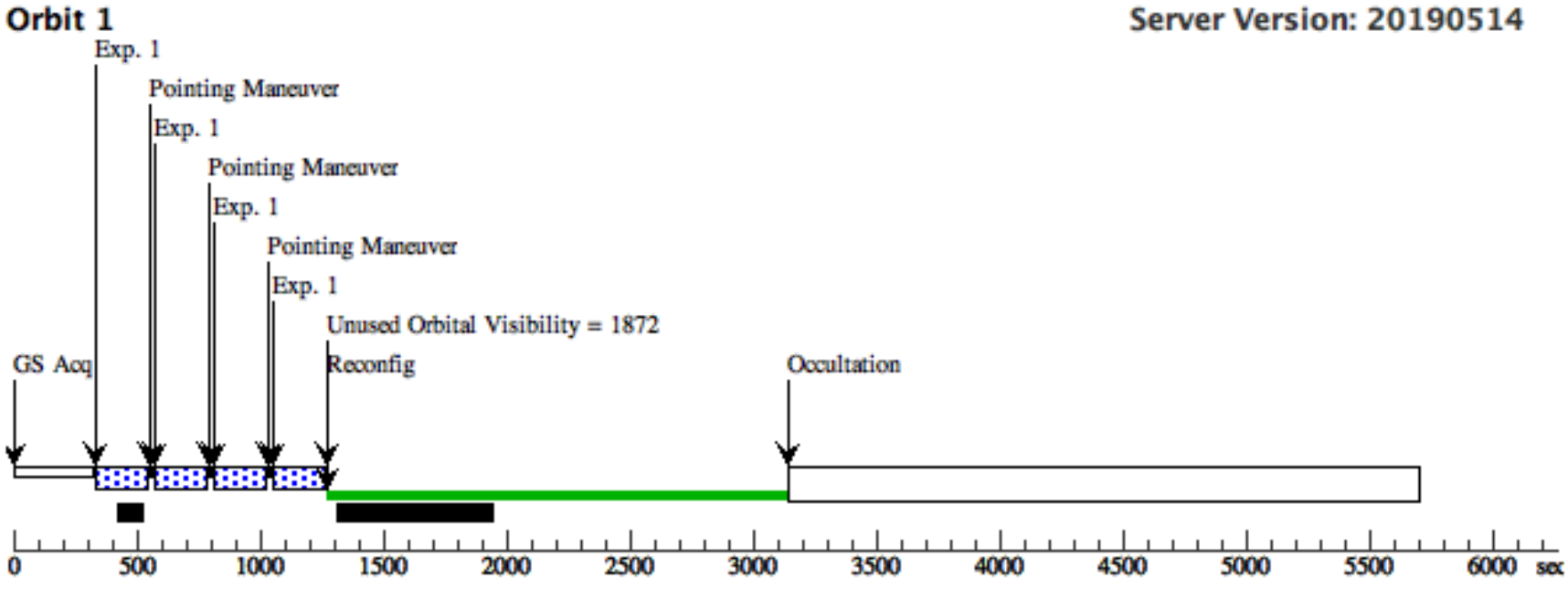
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(19)	HELMSJ235601.5-071142 Alt Name1: HELMS12	RA: 23 56 1.5000 (359.0062500d) Dec: -07 11 42.00 (-7.19500d) Equinox: J2000		V=(?) m(r)=23.53, m(z)=20.87, m(y)=-20.5, m(j)=20.48, m(h)=-20.5, m(k)=19.08, m(w1)=17.93	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(19) HELMSJ235601.5-071142	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (19) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (20), scheduling Wed Oct 09 16:01:36 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

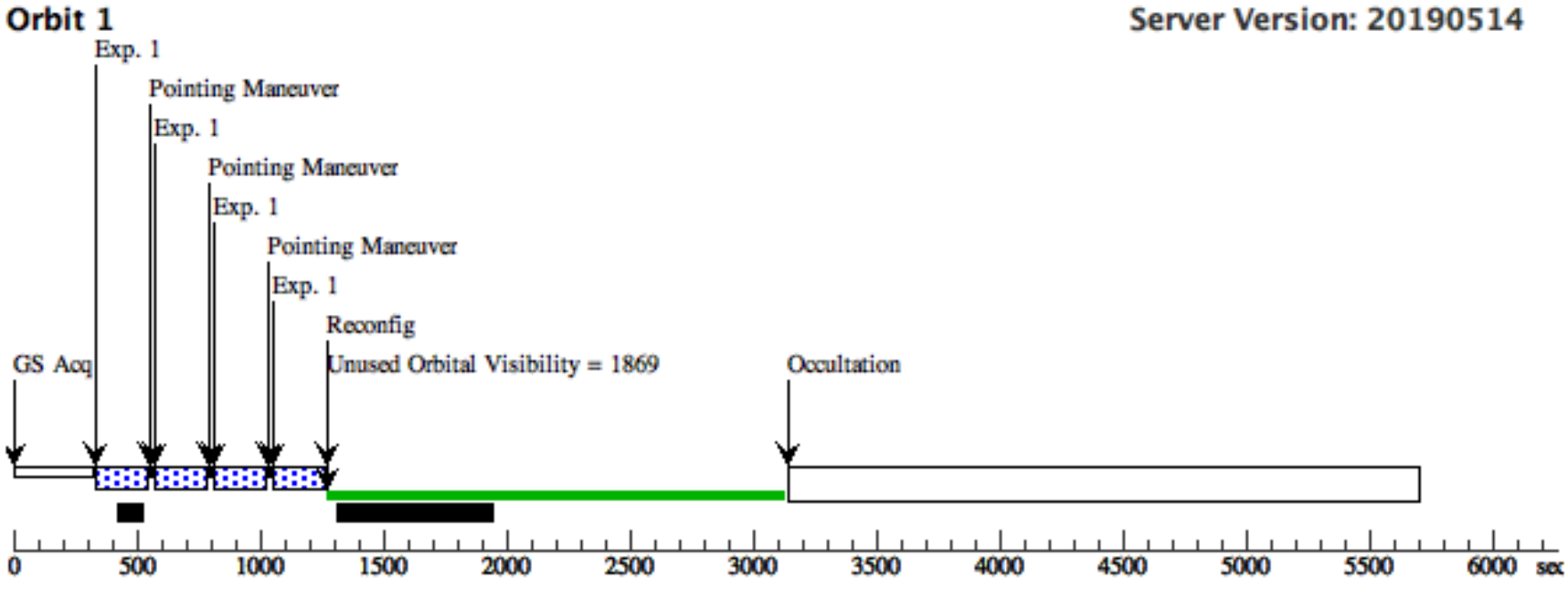
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(20)	HATLASJ144512.1-001510	RA: 14 45 12.1411 (221.3005879d) Dec: -00 15 10.93 (-.25304d) Equinox: J2000		V=(?) m(r)=23.42, m(z)=21.83, m(y)=21.43, m(j)=20.92, m(h)=21.43, m(k)=19.66, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(20) HATLASJ144512.1-001510	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (20) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (21), scheduling Wed Oct 09 16:01:36 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

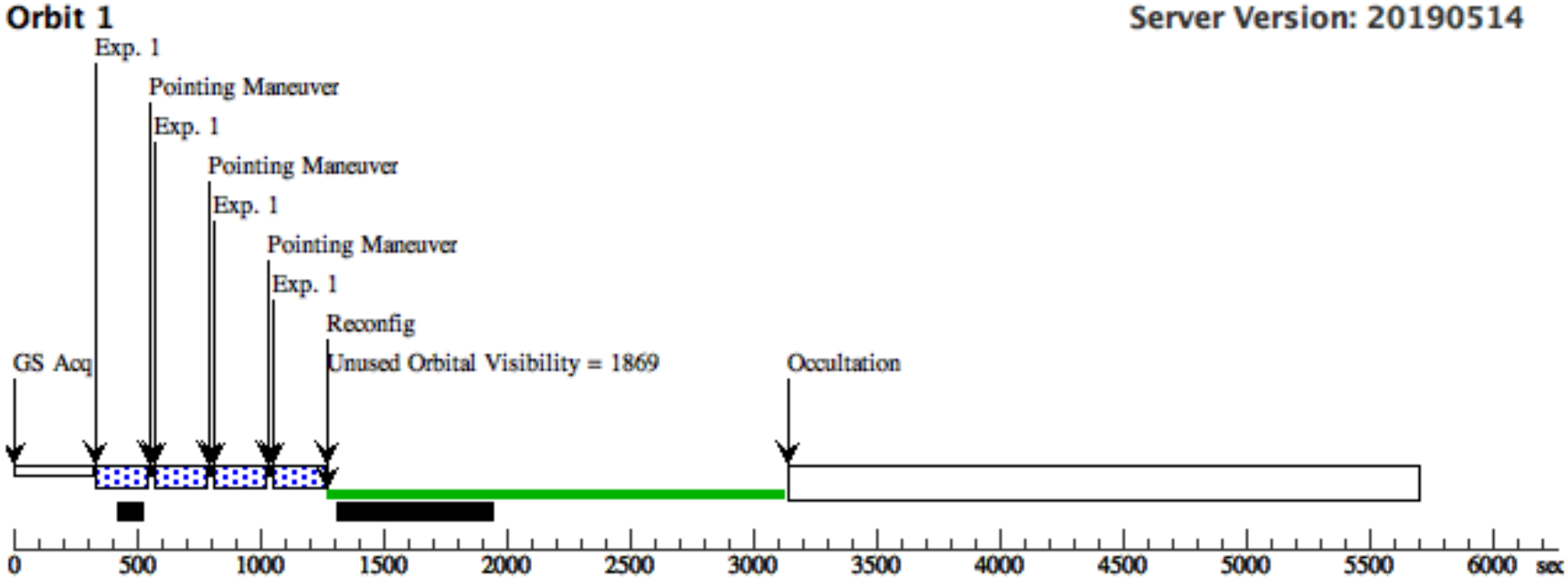
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(21)	HELMSJ003032.1-021153 Alt Name1: HELMS33	RA: 00 30 32.1000 (7.6337500d) Dec: -02 11 53.00 (-2.19806d) Equinox: J2000		V=(?) m(r)=23.41, m(z)=21.87, m(y)=-20.5, m(j)=-20.5, m(h)=-20.5, m(k)=-20.1, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(21) HELMSJ003032.1-021153	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (21) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (22), scheduling Wed Oct 09 16:01:36 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

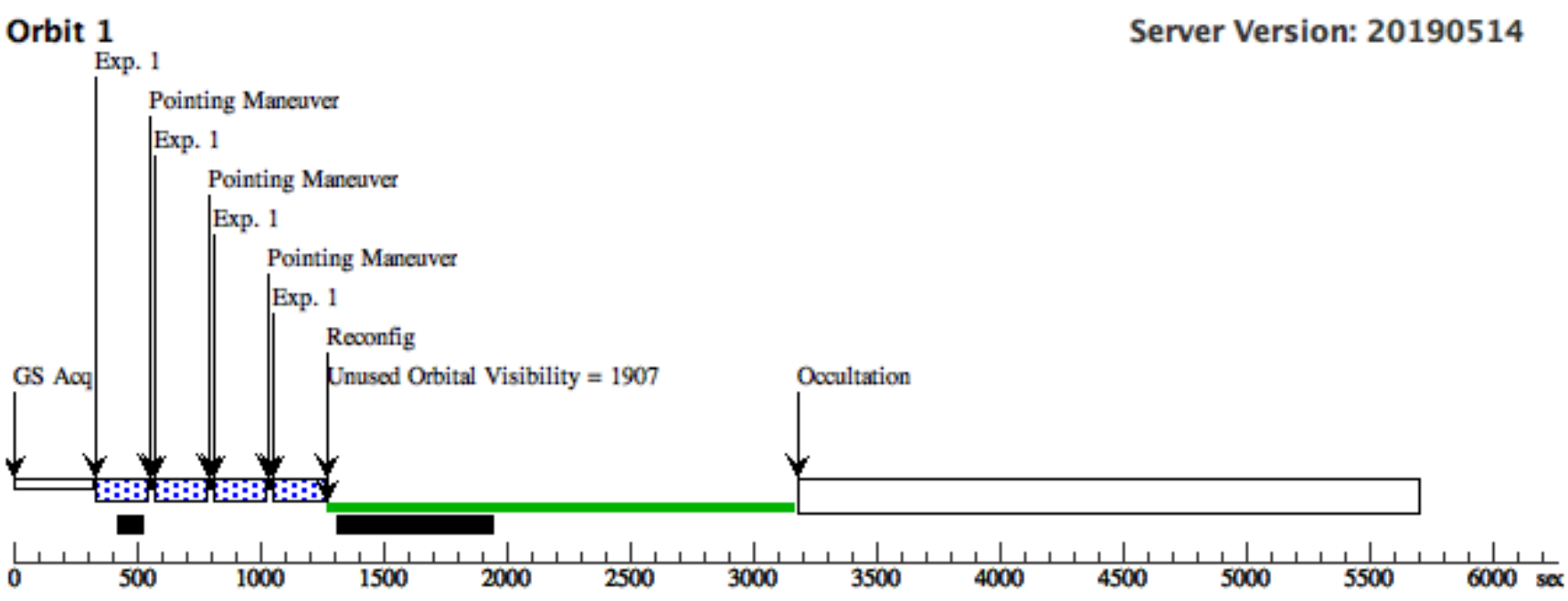
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(22)	HATLASJ234418.1-303936	RA: 23 44 18.1289 (356.0755371d) Dec: -30 39 36.45 (-30.66012d) Equinox: J2000		V=(?) m(r)=23.36, m(z)=21.37, m(y)=21.08, m(j)=20.50, m(h)=21.08, m(k)=19.59, m(w1)=18.19	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(22) HATLASJ234418.1-303936	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (22) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (23), scheduling Wed Oct 09 16:01:36 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

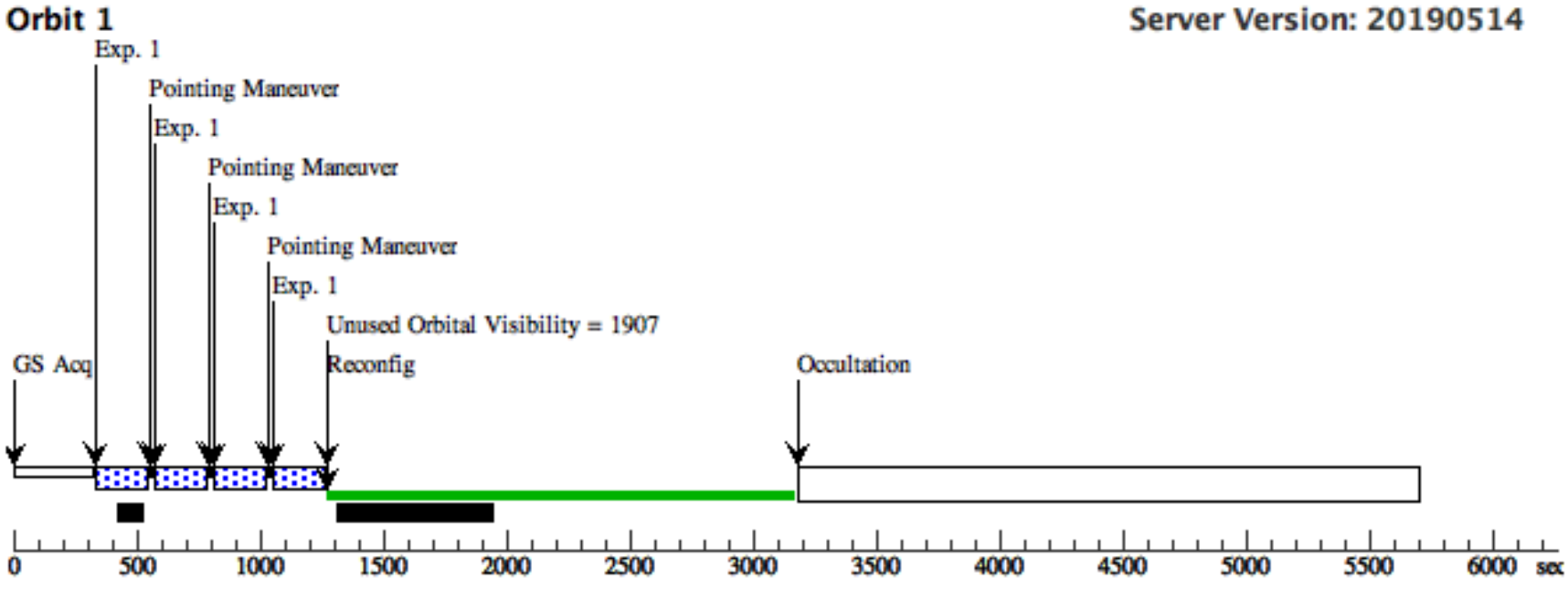
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(23)	HATLASJ232900.6-321744	RA: 23 29 0.6319 (352.2526329d) Dec: -32 17 44.11 (-32.29559d) Equinox: J2000		V=(?) m(r)=23.36, m(z)=21.83, m(y)=21.44, m(j)=21.13, m(h)=21.44, m(k)=20.39, m(w1)=19.79	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(23) HATLASJ232900.6-321744	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (23) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (25), scheduling Wed Oct 09 16:01:36 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

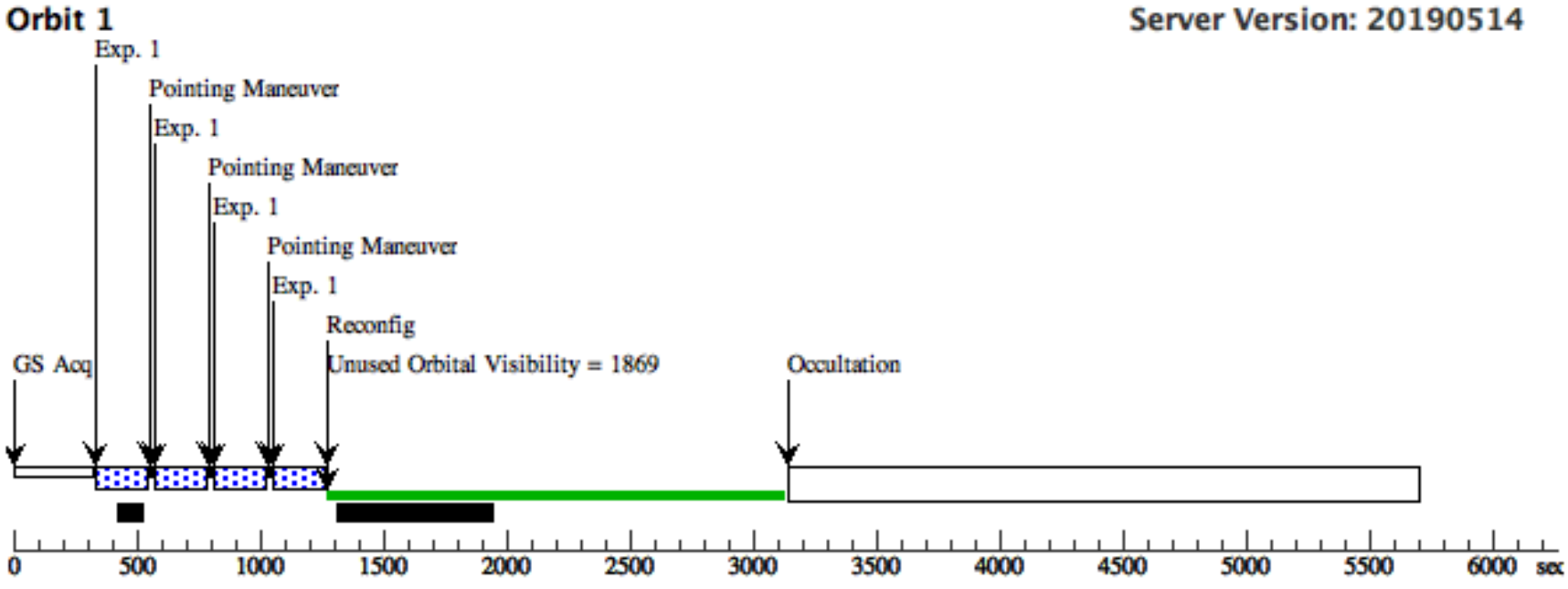
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(25)	HELMSJ001027.1-024624 Alt Name1: HELMS30	RA: 00 10 27.1000 (2.6129167d) Dec: -02 46 24.00 (-2.77333d) Equinox: J2000		V=(?) m(r)=23.15, m(z)=20.79, m(y)=-20.5, m(j)=20.55, m(h)=-20.5, m(k)=19.40, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(25) HELMSJ001027.1-024624	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (25) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (26), scheduling Wed Oct 09 16:01:37 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

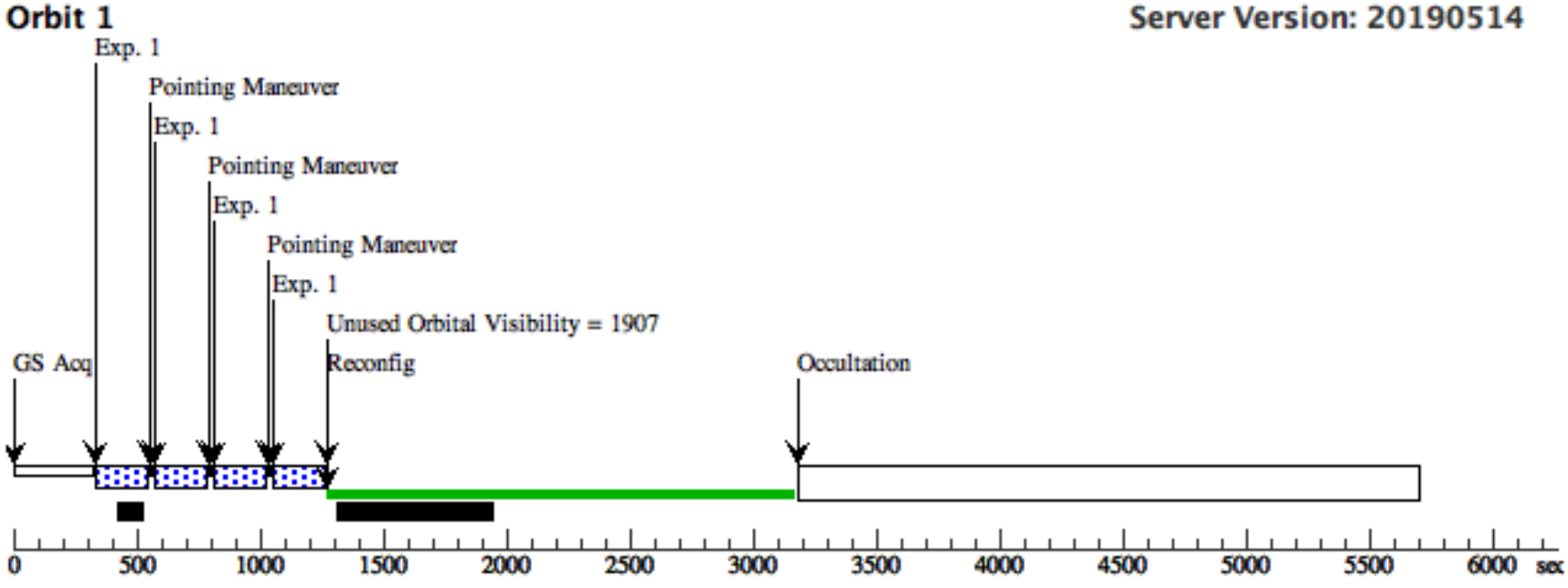
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(26)	HATLASJ230815.5-343801	RA: 23 08 15.5914 (347.0649642d) Dec: -34 38 1.32 (-34.63370d) Equinox: J2000		V=(?) m(r)=23.04, m(z)=21.13, m(y)=20.76, m(j)=20.50, m(h)=20.76, m(k)=19.70, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(26) HATLASJ230815.5-343801	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (26) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (27), scheduling Wed Oct 09 16:01:37 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

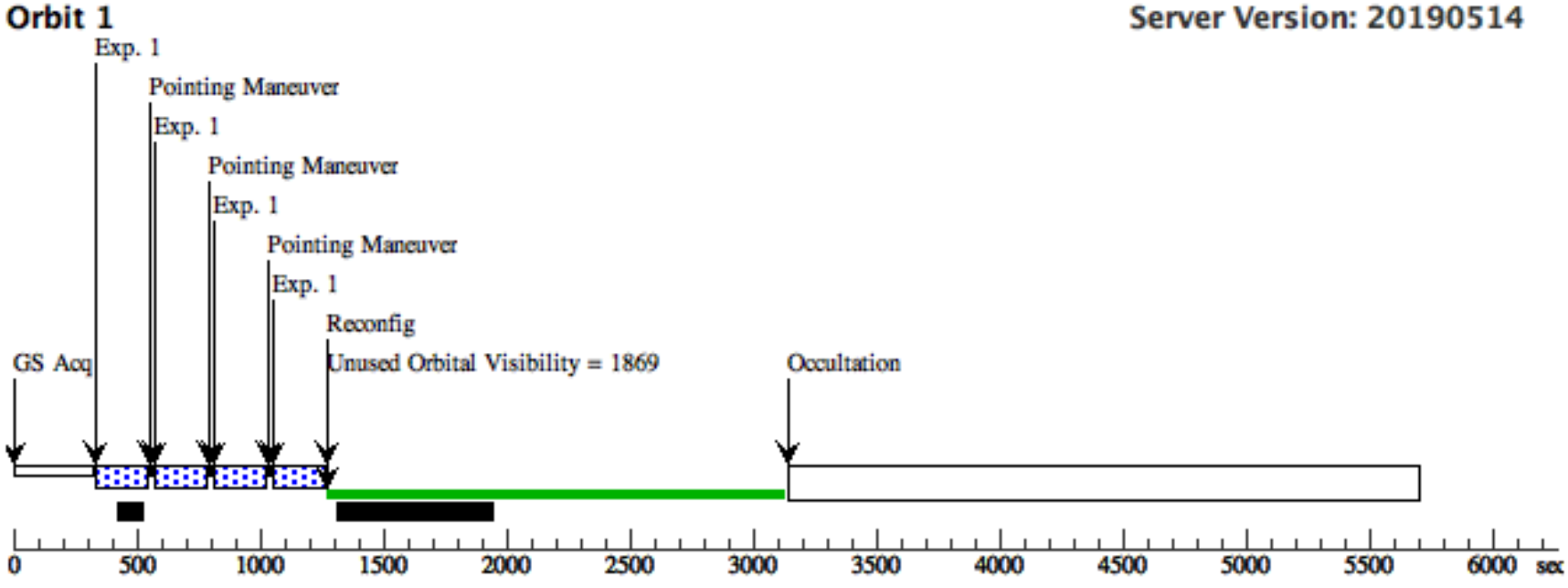
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(27)	HELMSJ233255.4-031134 Alt Name1: HELMS2	RA: 23 32 55.4000 (353.2308333d) Dec: -03 11 34.00 (-3.19278d) Equinox: J2000		V=(?) m(r)=22.92, m(z)=21.01, m(y)=-20.5, m(j)=-20.5, m(h)=-20.5, m(k)=-20.1, m(w1)=18.50	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(27) HELMSJ233255.4-031134	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (27) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (28), scheduling Wed Oct 09 16:01:37 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

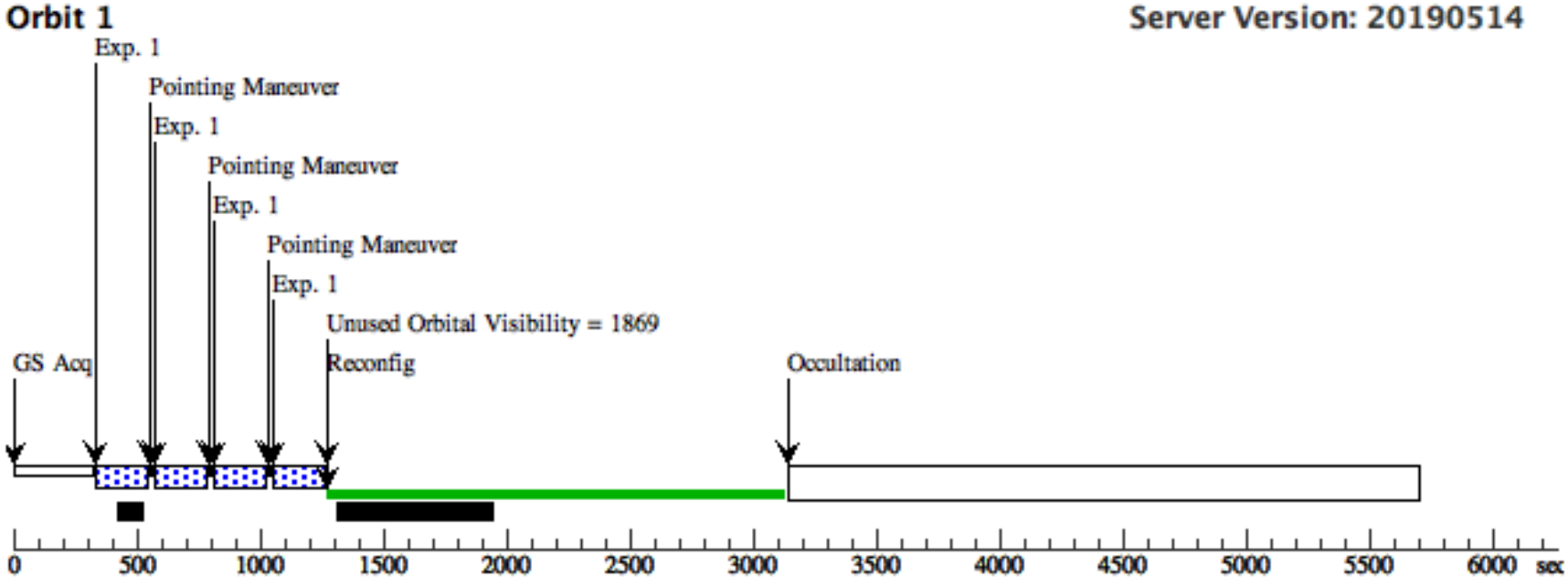
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(28)	HATLASJ143607.6-005442	RA: 14 36 7.6915 (219.0320479d) Dec: -00 54 42.03 (-.91168d) Equinox: J2000		V=(?) m(r)=22.86, m(z)=21.31, m(y)=20.97, m(j)=20.82, m(h)=20.97, m(k)=20.18, m(w1)=18.95	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(28) HATLASJ143607.6-005442	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (28) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (31), scheduling Wed Oct 09 16:01:37 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

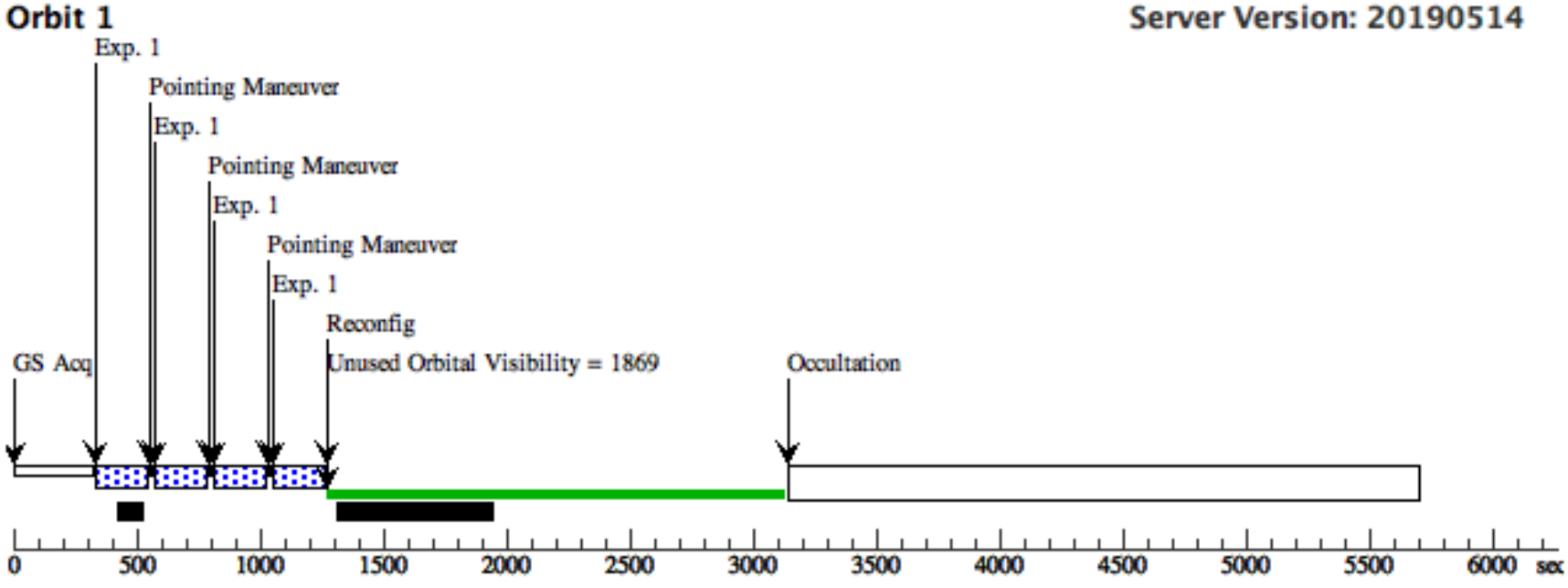
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(31)	HELMSJ001325.7+042509 Alt Name1: HELMS56	RA: 00 13 25.7000 (3.3570833d) Dec: +04 25 9.00 (4.41917d) Equinox: J2000		V=(?) m(r)=22.68, m(z)=21.79, m(y)=-20.5, m(j)=-20.5, m(h)=-20.5, m(k)=-20.1, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(31) HELMSJ001325.7+042509	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (31) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (34), implementation Wed Oct 09 16:01:37 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

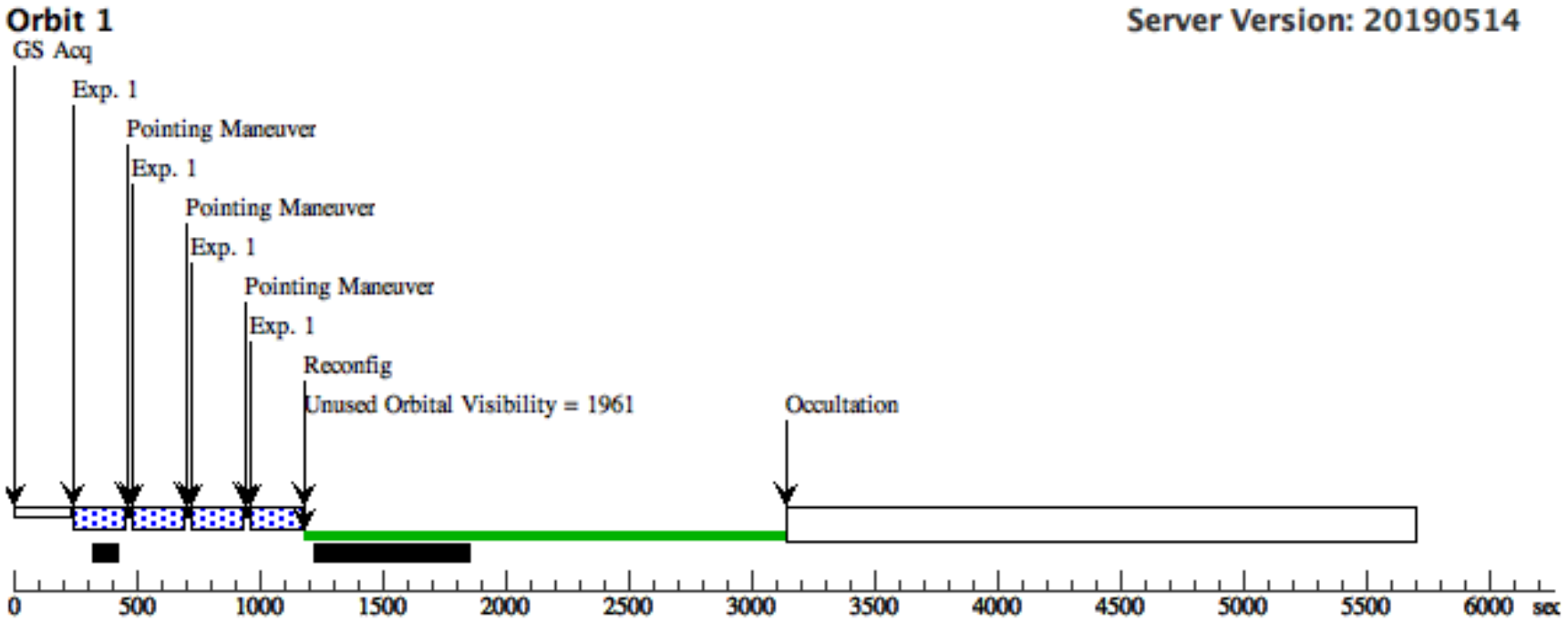
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(34)	HERSJ012106.9+003457 Alt Name1: HERS15	RA: 01 21 6.9000 (20.2787500d) Dec: +00 34 57.00 (.58250d) Equinox: J2000		V=(?) m(r)=22.64, m(z)=20.55, m(y)=-20.5, m(j)=20.30, m(h)=-20.5, m(k)=19.39, m(w1)=18.37	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(34) HERSJ012106.9 +003457	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25	GS ACQ SCENARIO SINGLE	Pattern 1, Exps 1-1 in LONG (34) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (35), implementation Wed Oct 09 16:01:37 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

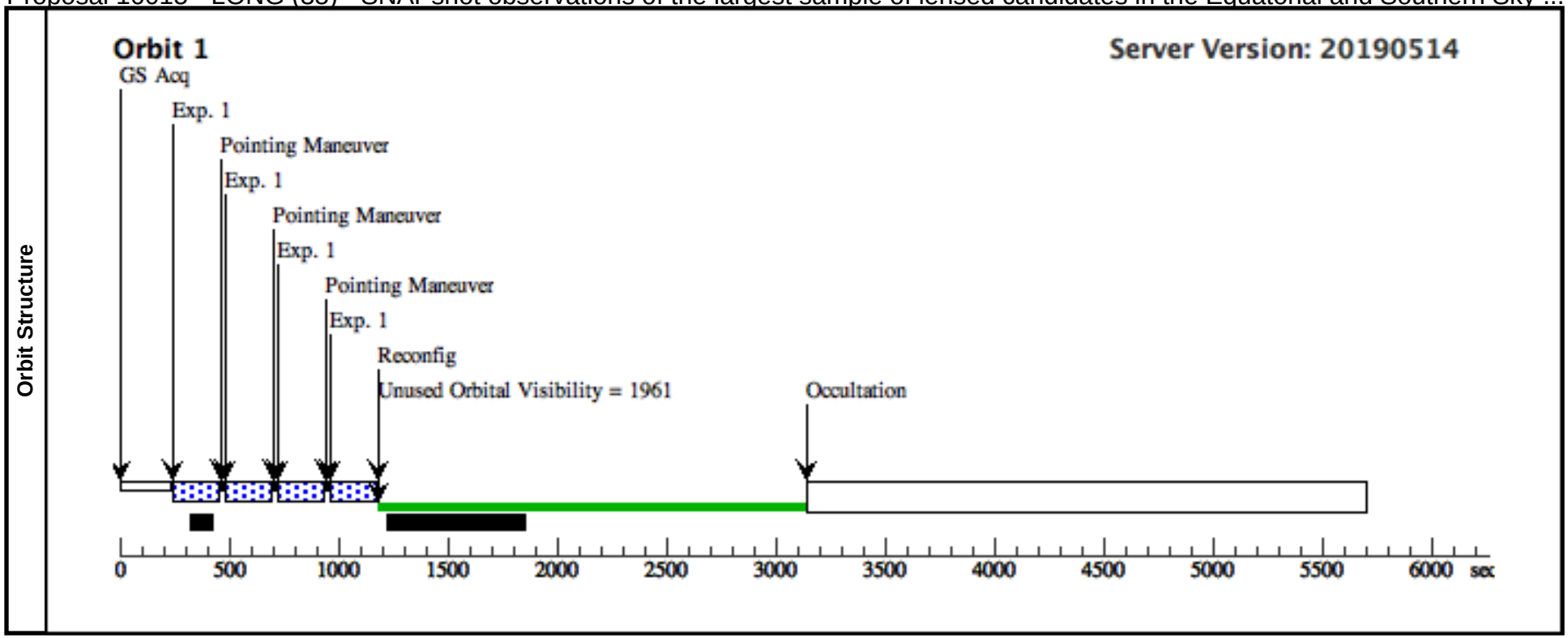
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(35)	HELMSJ002719.5+001204 Alt Name1: HELMS34	RA: 00 27 19.5000 (6.8312500d) Dec: +00 12 4.00 (.20111d) Equinox: J2000		V=(?) m(r)=22.60, m(z)=20.85, m(y)=-20.5, m(j)=20.80, m(h)=-20.5, m(k)=19.16, m(w1)=18.26	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(35) HELMSJ002719.5+001204	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25	GS ACQ SCENARIO SINGLE	Pattern 1, Exps 1-1 in LONG (35) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***


Orbit Structure
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GS Acq
Exp. 1
Pointing Maneuver
Exp. 1
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Exp. 1
Pointing Maneuver
Exp. 1
Reconfig
Unused Orbital Visibility = 1961
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 16015, SHORT (43), implementation Wed Oct 09 16:01:37 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

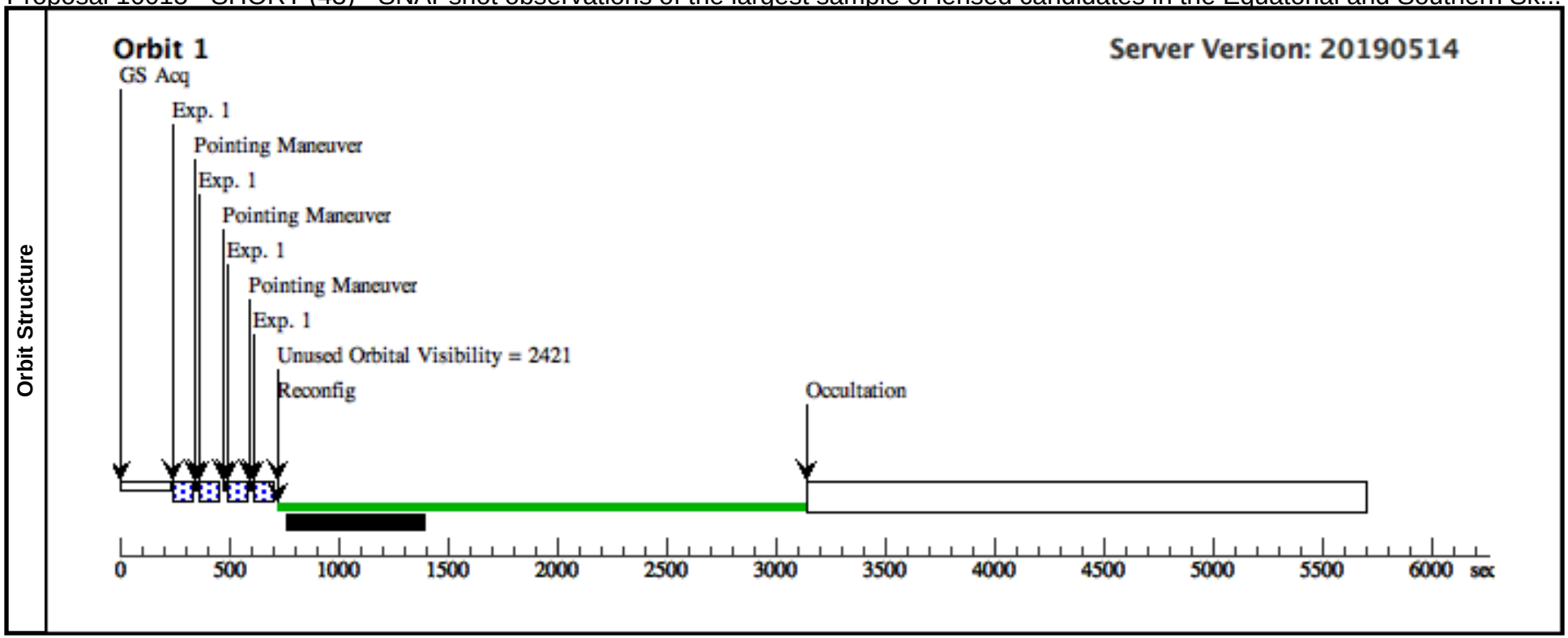
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(43)	HELMSJ234051.5-041938 Alt Name1: HELMS5	RA: 23 40 51.5000 (355.2145833d) Dec: -04 19 38.00 (-4.32722d) Equinox: J2000		V=(?) m(r)=21.75, m(z)=19.77, m(y)=-20.5, m(j)=-20.5, m(h)=-20.5, m(k)=-20.1, m(w1)=19.68	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(43) HELMSJ234051.5-041938	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=7; SAMP-SEQ=SPARS10	GS ACQ SCENARIO SINGLE	Pattern 1, Exps 1-1 in SHORT (43) (1)	62.938069 Secs (251.752 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20190514
GS Acq
Exp. 1
Pointing Maneuver
Exp. 1
Pointing Maneuver
Exp. 1
Pointing Maneuver
Exp. 1
Unused Orbital Visibility = 2421
Reconfig
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 16015, SHORT (47), scheduling Wed Oct 09 16:01:37 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

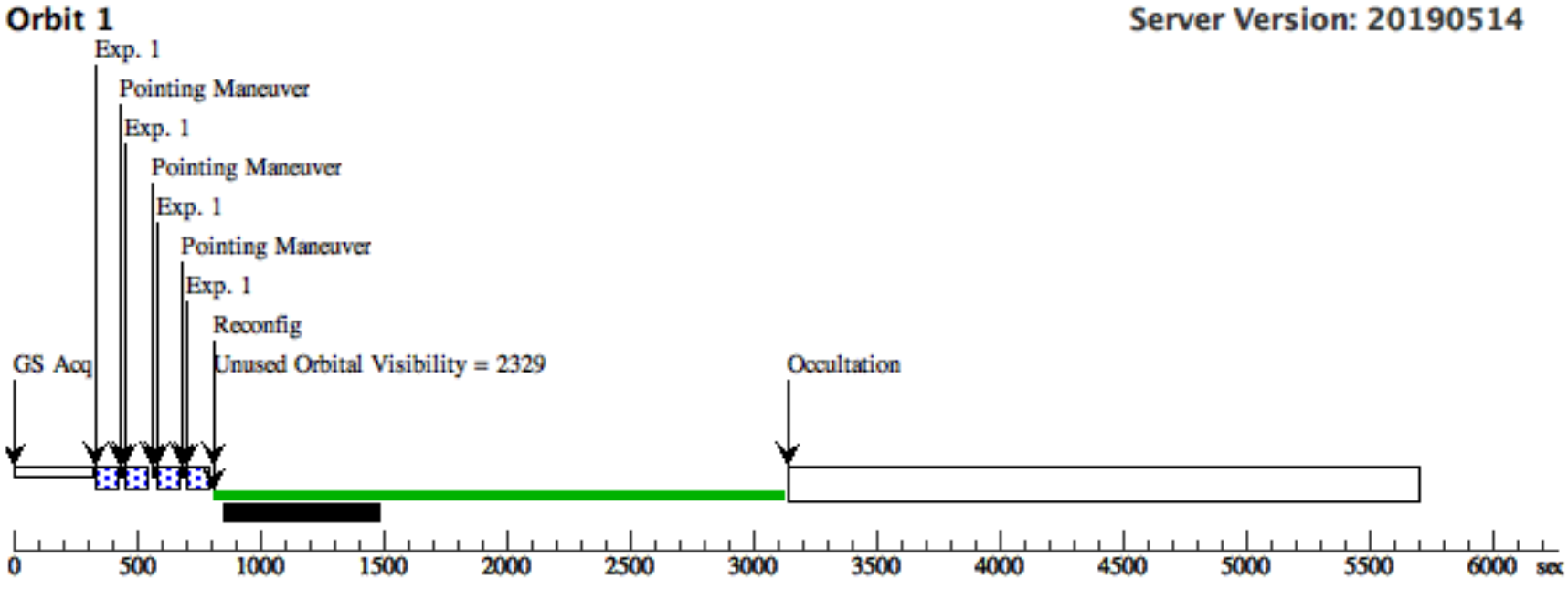
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(47)	HERSJ011722.3+005624 Alt Name1: HERS10	RA: 01 17 22.3000 (19.3429167d) Dec: +00 56 24.00 (.94000d) Equinox: J2000		V=(?) m(r)=21.58, m(z)=19.34, m(y)=-20.5, m(j)=19.53, m(h)=-20.5, m(k)=18.84, m(w1)=17.82	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(47) HERSJ011722.3+005624	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=7; SAMP-SEQ=SPARS10		Pattern 1, Exps 1-1 in SHORT (47) (1)	62.938069 Secs (251.752 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, SHORT (49), implementation Wed Oct 09 16:01:37 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

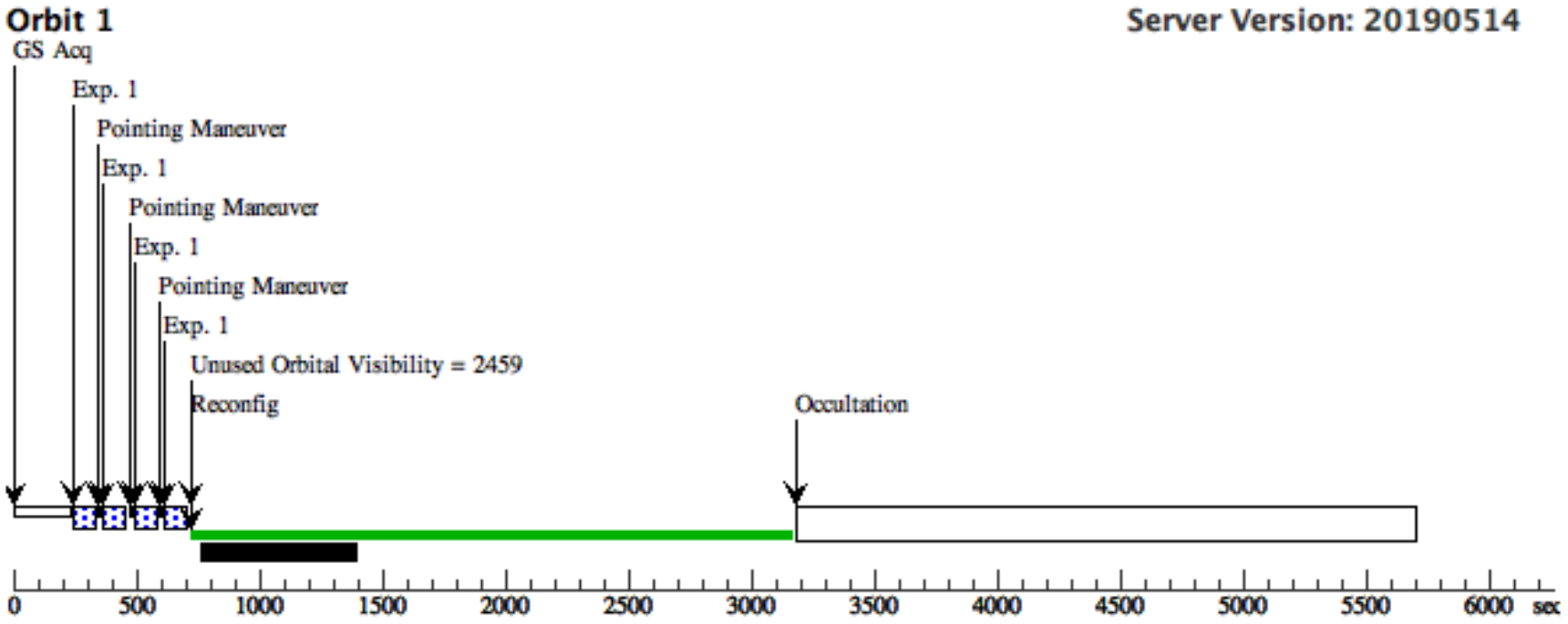
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(49)	HATLASJ235121.9-332902 Alt Name1: HERBS159	RA: 23 51 21.9919 (357.8416329d) Dec: -33 29 2.11 (-33.48392d) Equinox: J2000		V=(?) m(r)=21.55, m(z)=-22.6, m(y)=-21.9, m(j)=19.83, m(h)=-21.9, m(k)=19.07, m(w1)=17.62	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(49) HATLASJ235121.9-332902	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=7; SAMP-SEQ=SPARS10	GS ACQ SCENARIO SINGLE	Pattern 1, Exps 1-1 in SHORT (49) (1)	62.938069 Secs (251.752 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, SHORT (51), scheduling Wed Oct 09 16:01:37 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

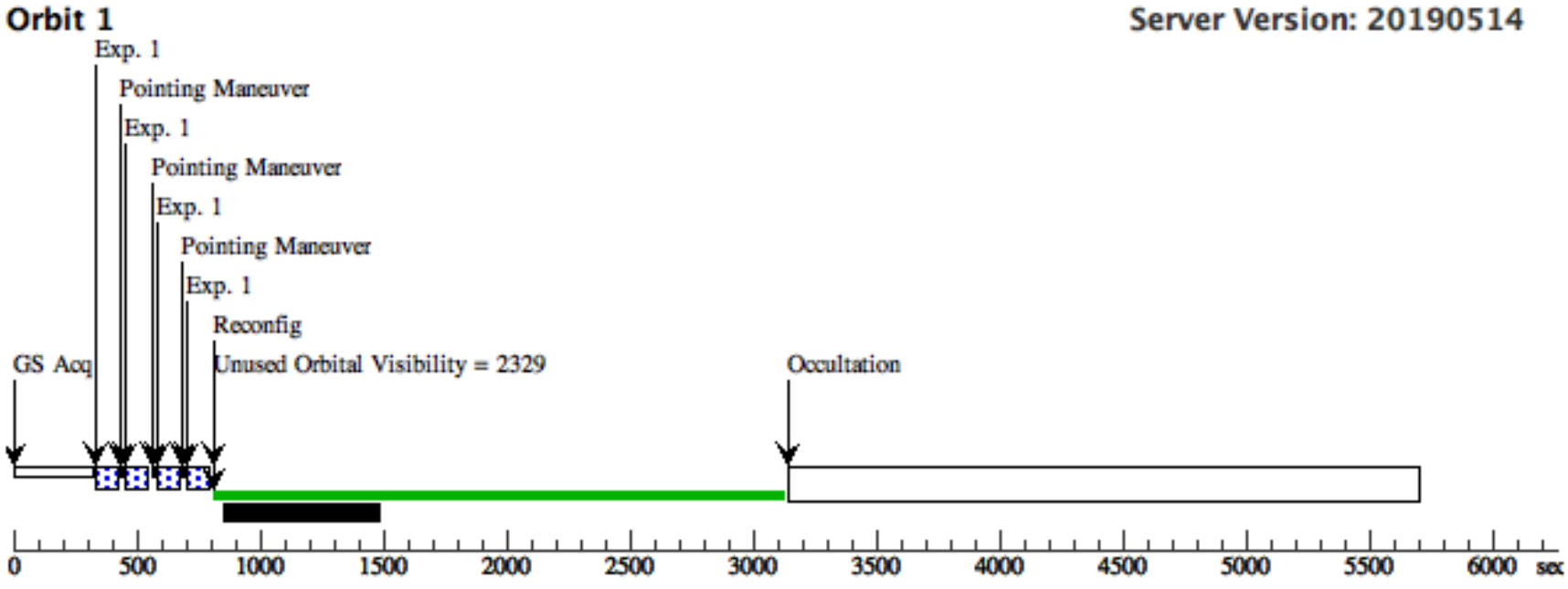
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(51)	HERSJ012041.6-002705 Alt Name1: HERS2	RA: 01 20 41.6000 (20.1733333d) Dec: -00 27 5.00 (-.45139d) Equinox: J2000		V=(?) m(r)=21.43, m(z)=19.53, m(y)=-20.5, m(j)=19.80, m(h)=-20.5, m(k)=19.15, m(w1)=17.94	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(51) HERSJ012041.6-002705	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=7; SAMP-SEQ=SPARS10		Pattern 1, Exps 1-1 in SHORT (51) (1)	62.938069 Secs (251.752 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, SHORT (54), scheduling Wed Oct 09 16:01:37 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

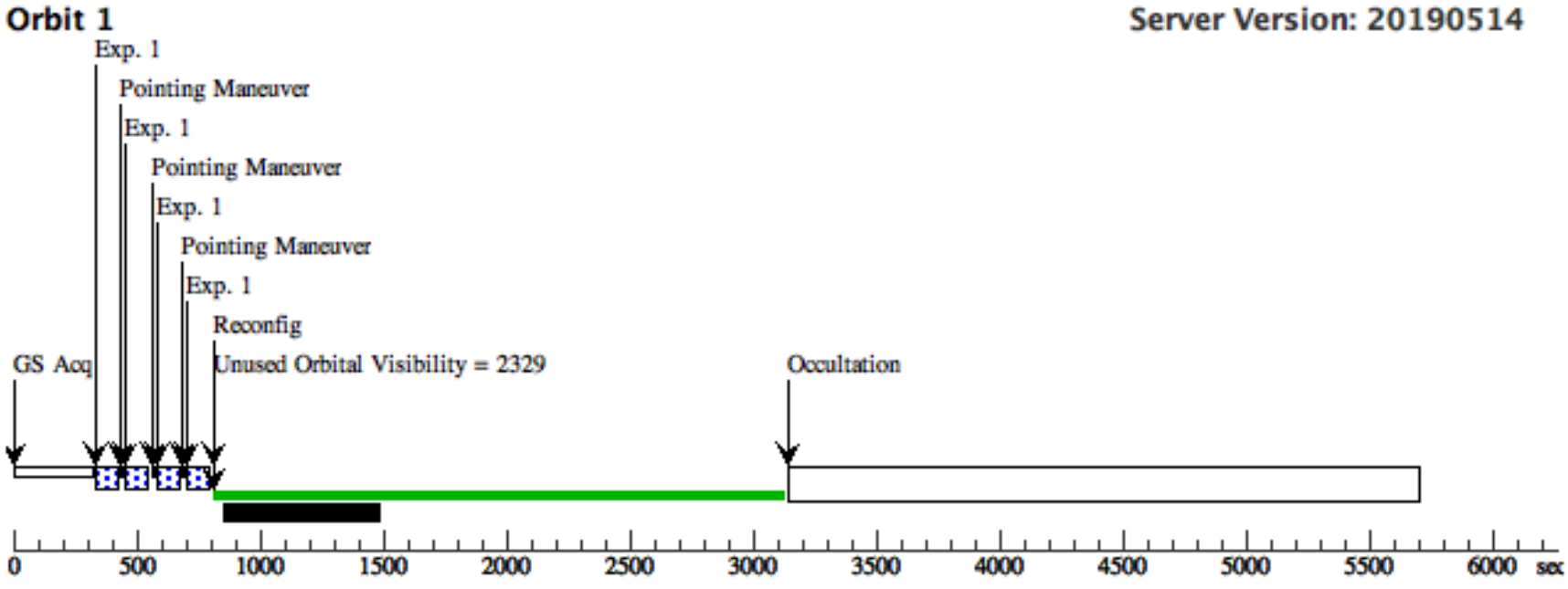
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(54)	HERSJ011640.1-000454 Alt Name1: HERS4	RA: 01 16 40.1000 (19.1670833d) Dec: -00 04 54.00 (-.08167d) Equinox: J2000		V=(?) m(r)=21.35, m(z)=20.25, m(y)=-20.5, m(j)=19.63, m(h)=-20.5, m(k)=19.04, m(w1)=18.86	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(54) HERSJ011640.1-000454	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=7; SAMP-SEQ=SPARS10		Pattern 1, Exps 1-1 in SHORT (54) (1)	62.938069 Secs (251.752 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, SHORT (60), scheduling Wed Oct 09 16:01:37 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

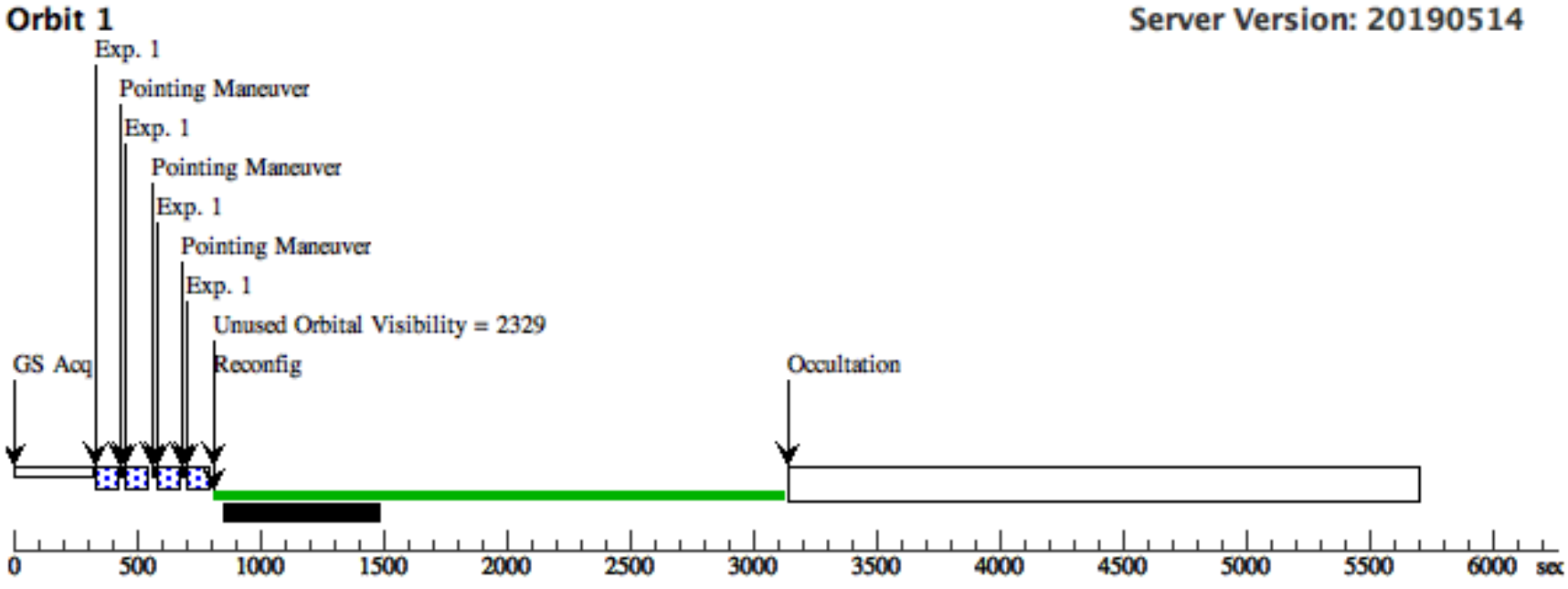
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(60)	HELMSJ232500.1-005643 Alt Name1: HELMS35	RA: 23 25 0.1000 (351.2504167d) Dec: -00 56 43.00 (-.94528d) Equinox: J2000		V=(?) m(r)=20.97, m(z)=20.76, m(y)=-20.5, m(j)=20.18, m(h)=-20.5, m(k)=19.75, m(w1)=18.51	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(60) HELMSJ232500.1-005643	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=7; SAMP-SEQ=SPARS10		Pattern 1, Exps 1-1 in SHORT (60) (1)	62.938069 Secs (251.752 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, SHORT (61), scheduling Wed Oct 09 16:01:37 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

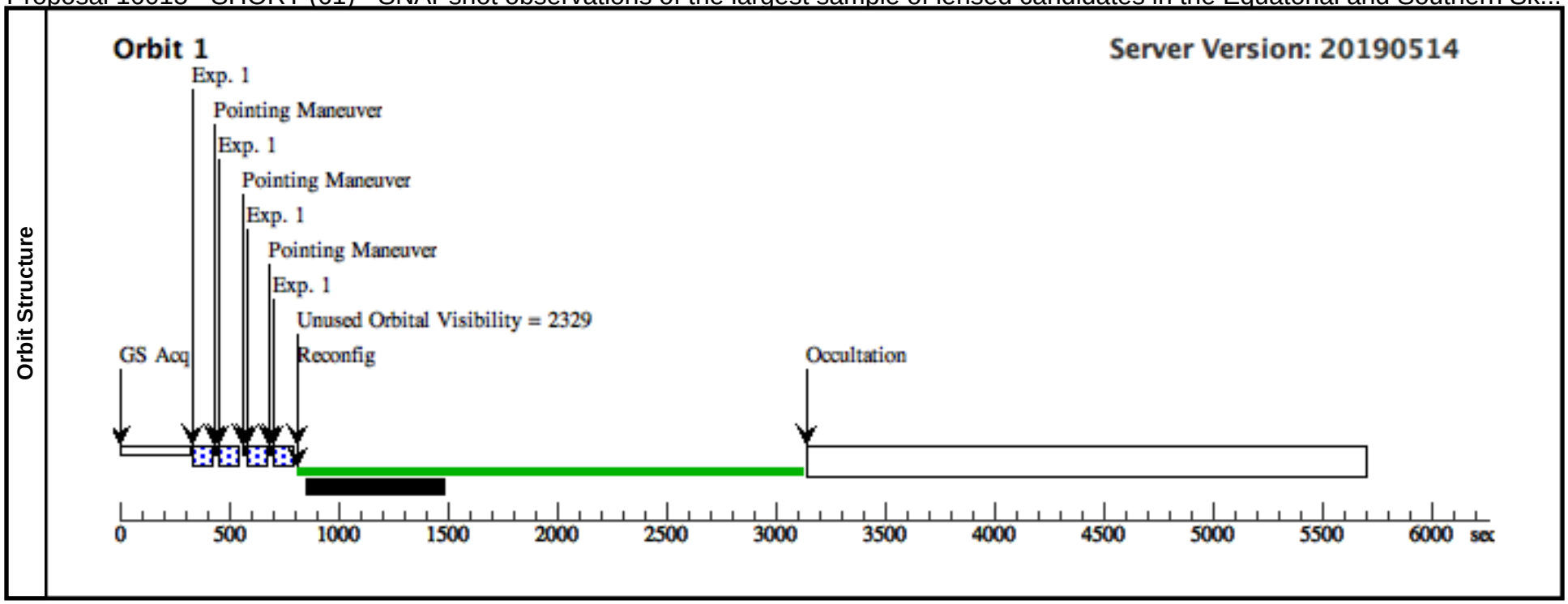
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(61)	HELMSJ001615.7+032435 Alt Name1: HELMS13	RA: 00 16 15.7000 (4.0654167d) Dec: +03 24 35.00 (3.40972d) Equinox: J2000		V=(?) m(r)=20.77, m(z)=19.00, m(y)=-20.5, m(j)=19.45, m(h)=-20.5, m(k)=18.65, m(w1)=17.78	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(61) HELMSJ001615.7+032435	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=7; SAMP-SEQ=SPARS10		Pattern 1, Exps 1-1 in SHORT (61) (1)	62.938069 Secs (251.752 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20190514
Exp. 1
Pointing Maneuver
Exp. 1
Pointing Maneuver
Exp. 1
Pointing Maneuver
Exp. 1
Unused Orbital Visibility = 2329
GS Acq
Reconfig
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 16015, SHORT (62), implementation Wed Oct 09 16:01:37 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

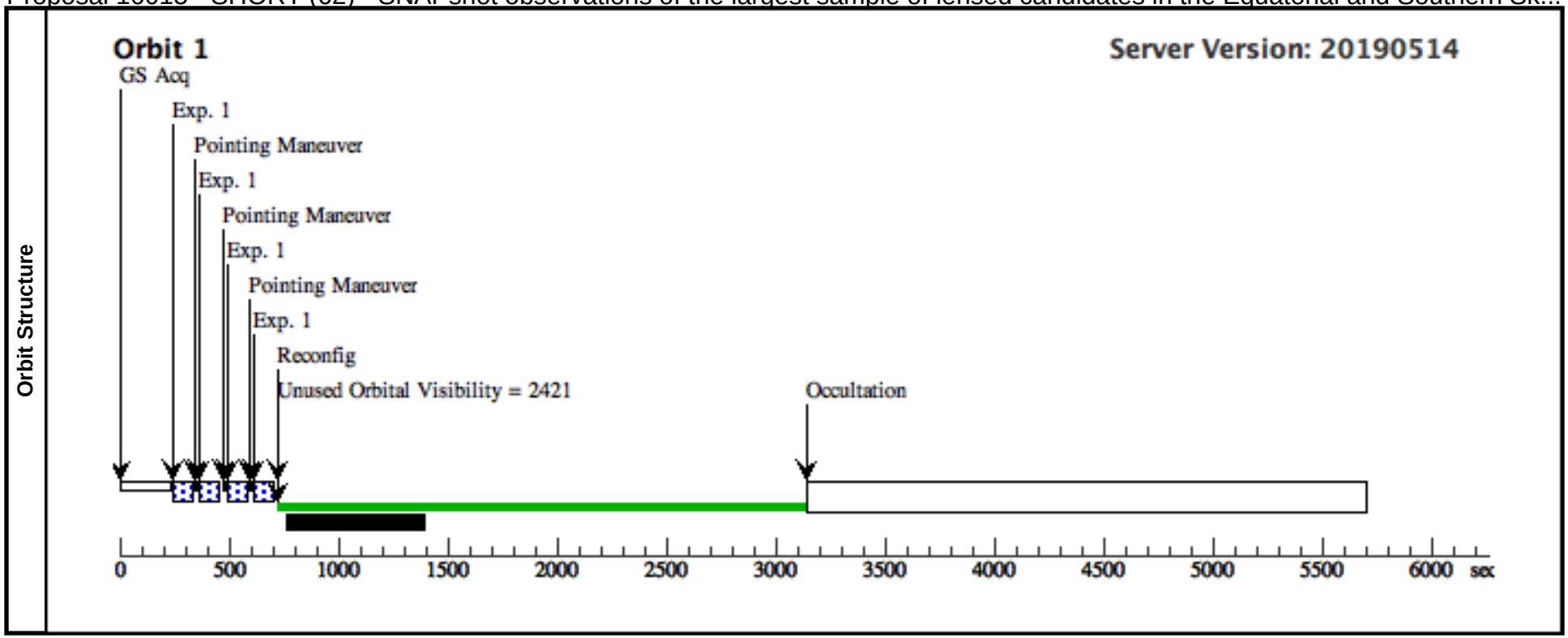
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(62)	HERSJ010911.7-011733 Alt Name1: HERS9	RA: 01 09 11.7000 (17.2987500d) Dec: -01 17 33.00 (-1.29250d) Equinox: J2000		V=(?) m(r)=20.73, m(z)=19.19, m(y)=-20.5, m(j)=19.36, m(h)=-20.5, m(k)=18.34, m(w1)=17.38	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(62) HERSJ010911.7-011733	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=7; SAMP-SEQ=SPARS10	GS ACQ SCENARIO SINGLE	Pattern 1, Exps 1-1 in SHORT (62) (1)	62.938069 Secs (251.752 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20190514
GS Acq
Exp. 1
Pointing Maneuver
Exp. 1
Pointing Maneuver
Exp. 1
Pointing Maneuver
Exp. 1
Reconfig
Unused Orbital Visibility = 2421
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 16015, SHORT (71), scheduling Wed Oct 09 16:01:37 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

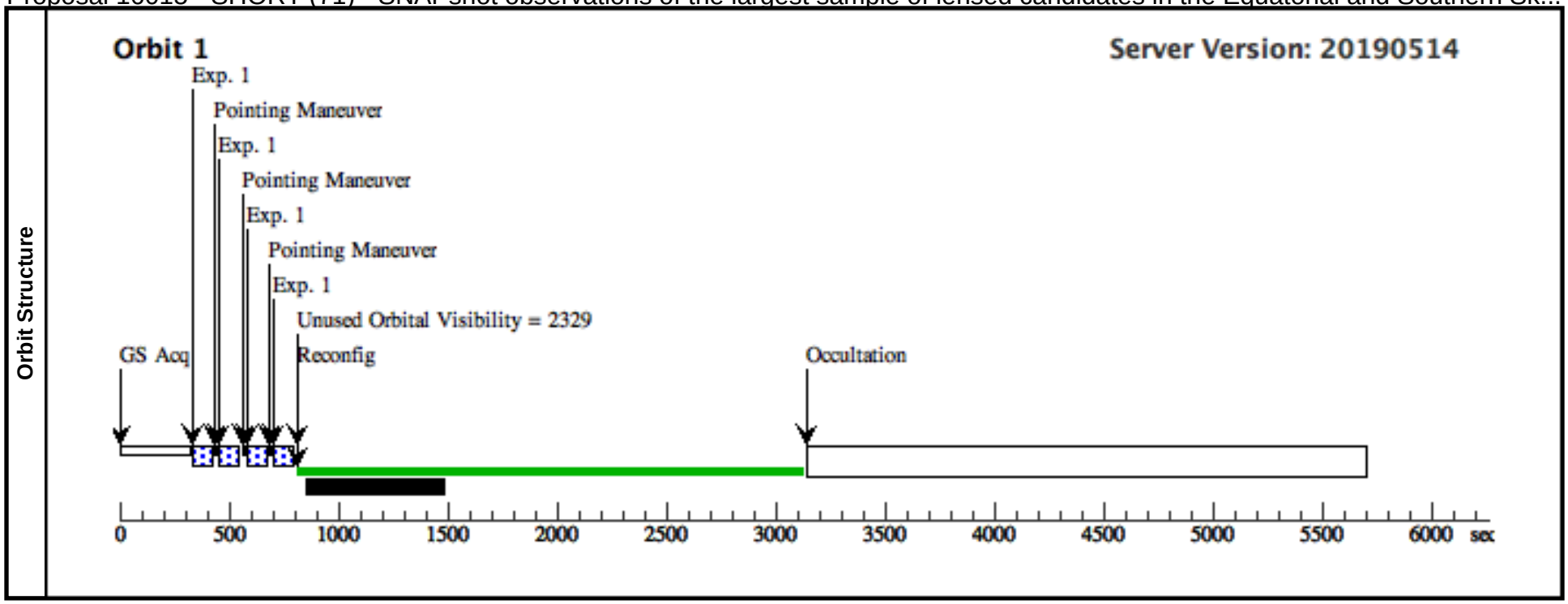
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(71)	HELMSJ000215.9-012829 Alt Name1: HELMS3	RA: 00 02 15.9000 (.5662500d) Dec: -01 28 29.00 (-1.47472d) Equinox: J2000		V=(?) m(r)=20.17, m(z)=18.48, m(y)=-20.5, m(j)=20.64, m(h)=-20.5, m(k)=19.91, m(w1)=17.22	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(71) HELMSJ000215.9-012829	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=7; SAMP-SEQ=SPARS10		Pattern 1, Exps 1-1 in SHORT (71) (1)	62.938069 Secs (251.752 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20190514
Exp. 1
Pointing Maneuver
Exp. 1
Pointing Maneuver
Exp. 1
Pointing Maneuver
Exp. 1
Unused Orbital Visibility = 2329
GS Acq
Reconfig
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 16015, SHORT (82), implementation Wed Oct 09 16:01:37 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

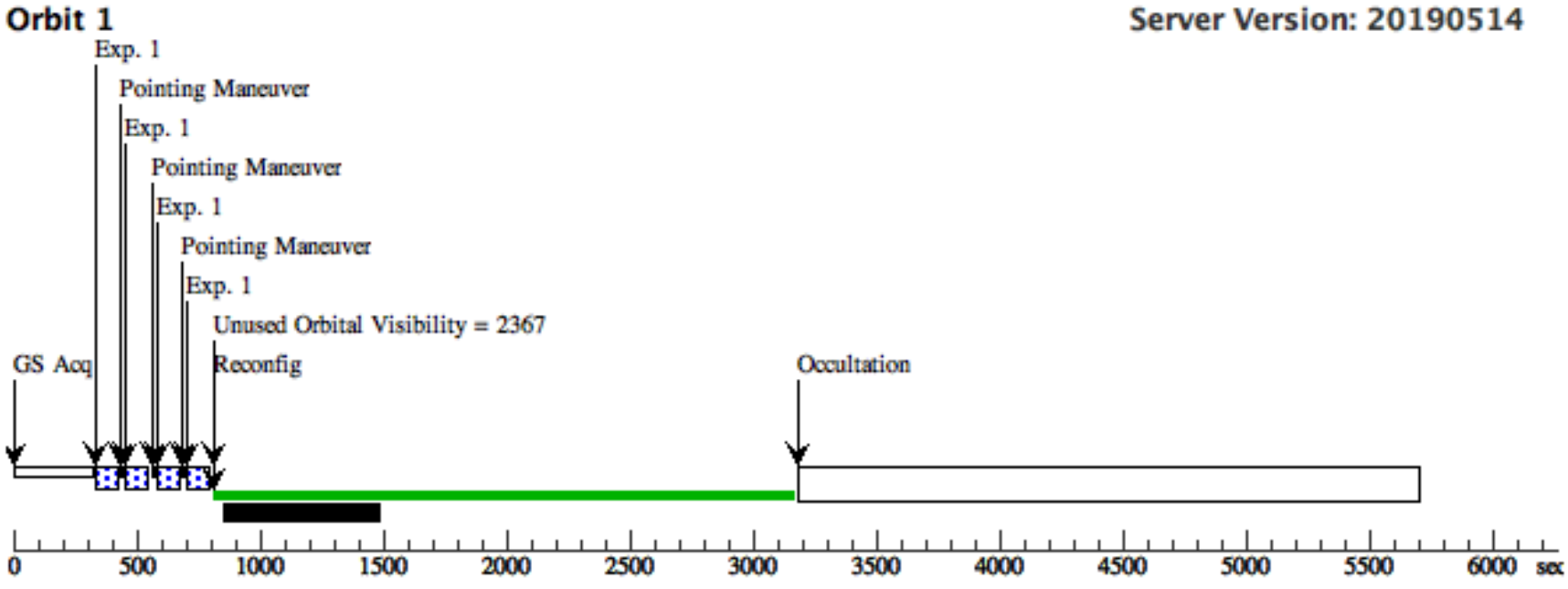
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(82)	HATLASJ224759.6-310134 Alt Name1: HERBS141	RA: 22 47 59.6544 (341.9985600d) Dec: -31 01 34.93 (-31.02637d) Equinox: J2000		V=(?) m(r)=18.41, m(z)=18.45, m(y)=18.17, m(j)=17.89, m(h)=18.17, m(k)=17.50, m(w1)=17.40	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(82) HATLASJ224759.6-310134	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=7; SAMP-SEQ=SPARS10		Pattern 1, Exps 1-1 in SHORT (82) (1)	62.938069 Secs (251.752 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (94), scheduling Wed Oct 09 16:01:37 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

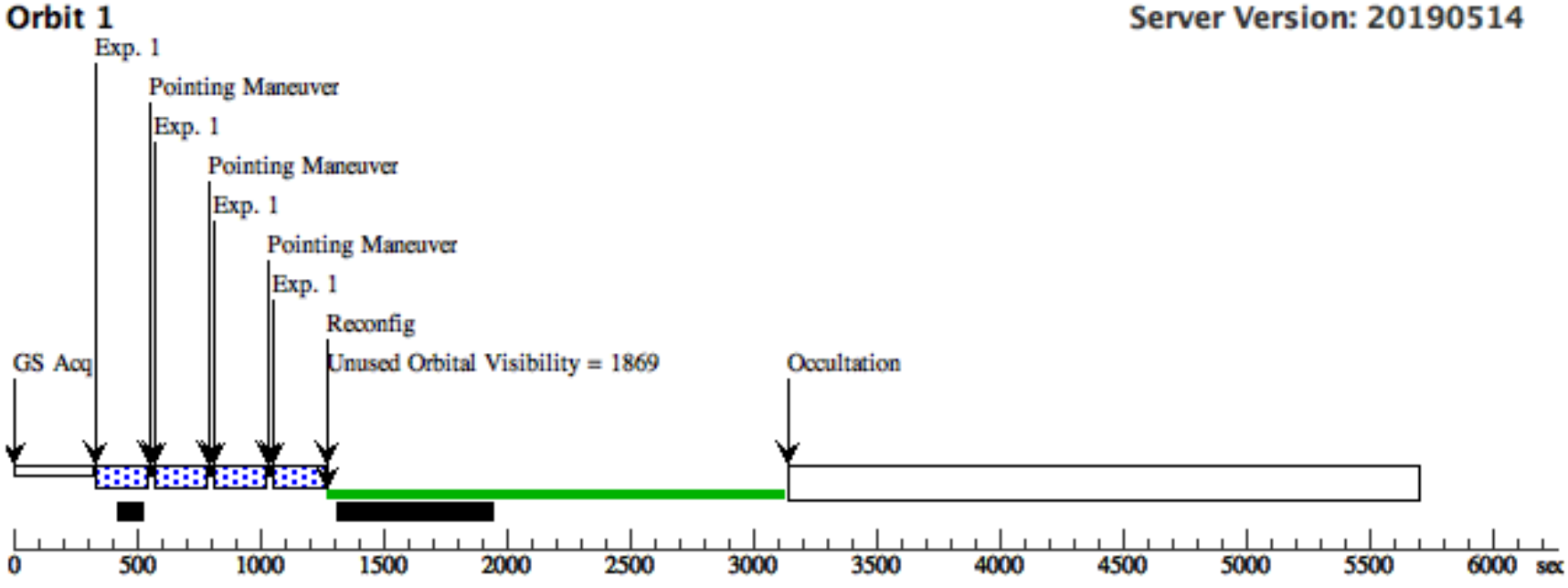
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(94)	HATLASJ122459.1-005647	RA: 12 24 59.1773 (186.2465721d) Dec: -00 56 47.39 (-.94650d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(94) HATLASJ122459.1-005647	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (94) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (95), implementation Wed Oct 09 16:01:37 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

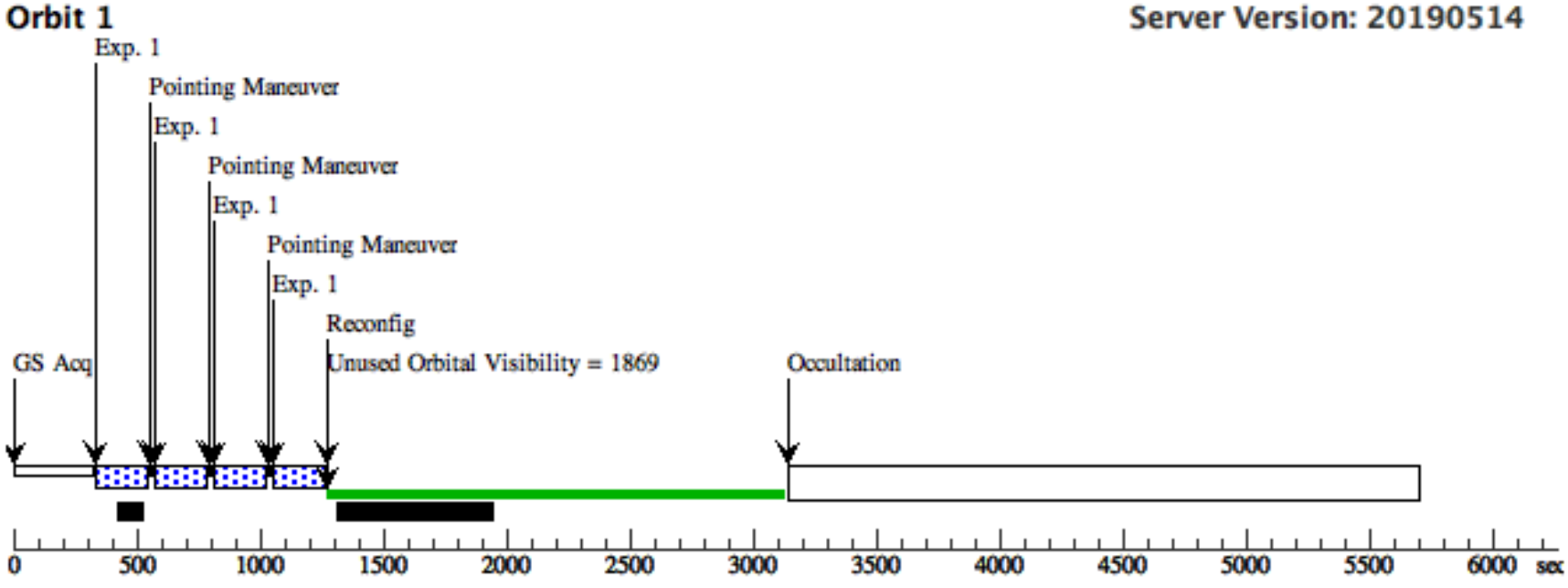
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(95)	HATLASJ115521.0-021329	RA: 11 55 21.0228 (178.8375950d) Dec: -02 13 29.47 (-2.22485d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=22.66, m(y)=-21.9, m(j)=21.74, m(h)=-21.9, m(k)=21.06, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(95) HATLASJ115521.0-021329	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (95) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (97), scheduling Wed Oct 09 16:01:37 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

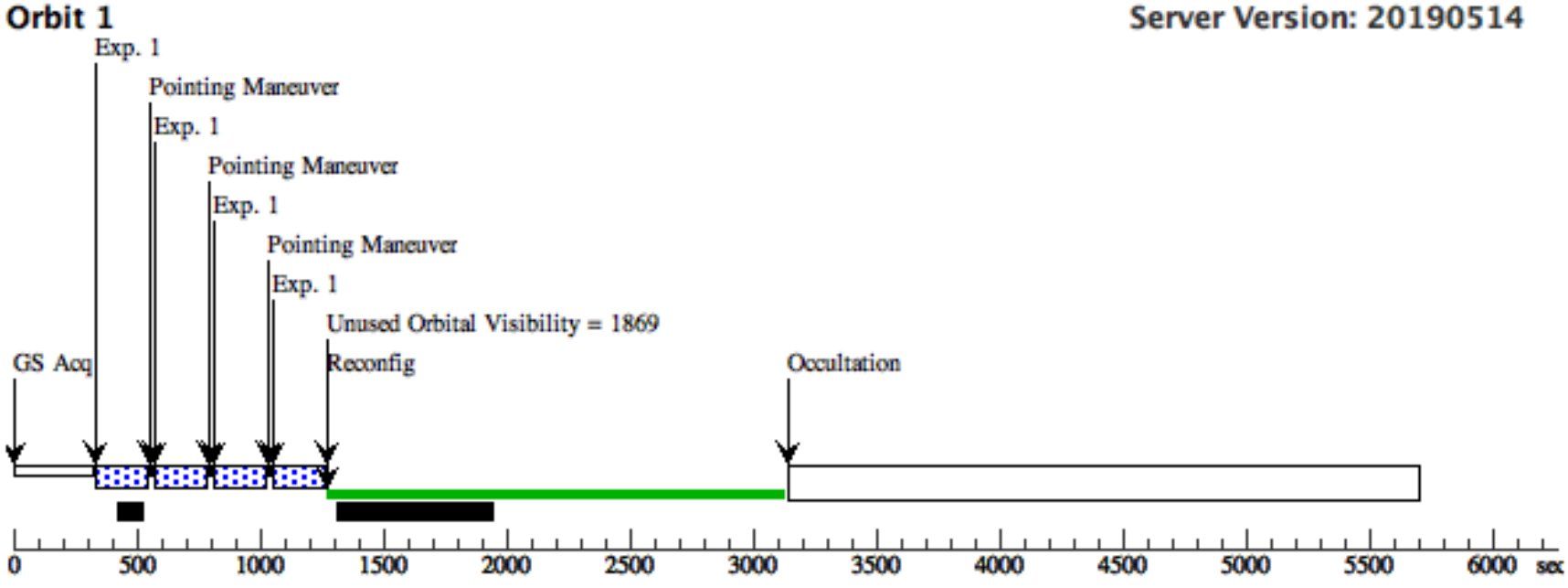
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(97)	HATLASJ121900.8+003326	RA: 12 19 0.8914 (184.7537142d) Dec: +00 33 26.87 (.55746d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(97) HATLASJ121900.8+003326	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (97) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (99), scheduling Wed Oct 09 16:01:37 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

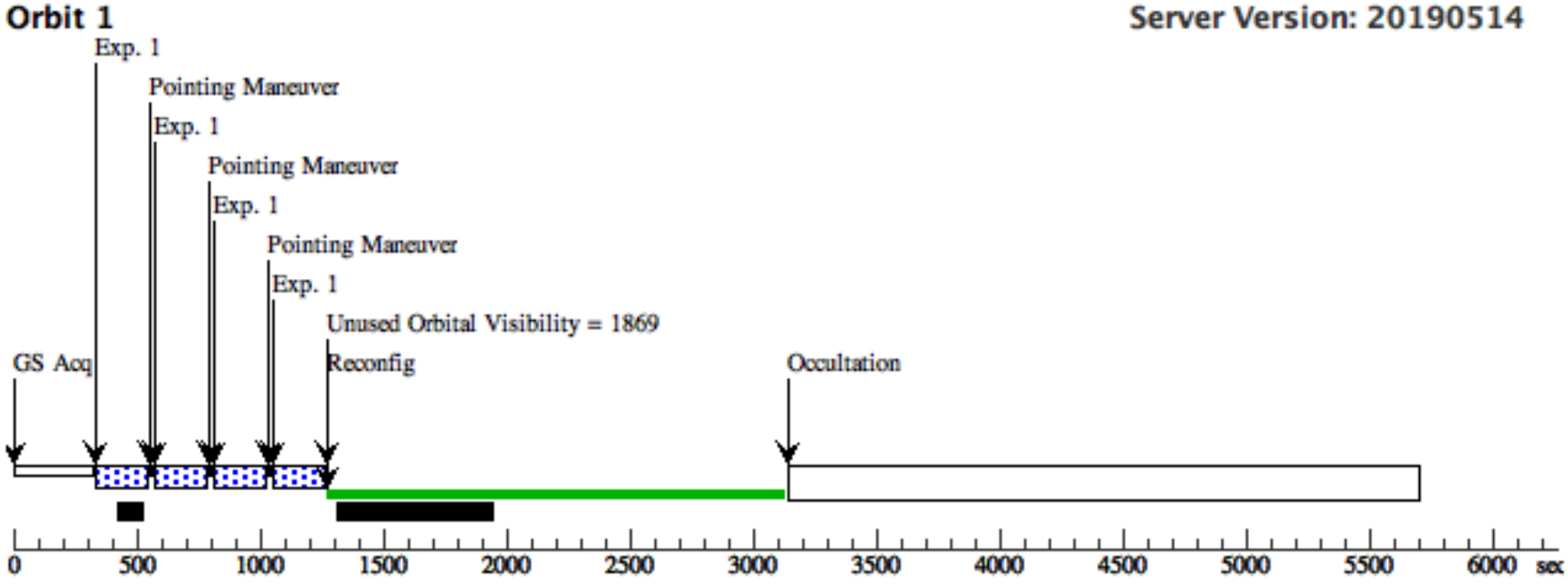
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(99)	HATLASJ143352.4+020417	RA: 14 33 52.4446 (218.4685192d) Dec: +02 04 17.23 (2.07145d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=20.06	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(99) HATLASJ143352.4+020417	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (99) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (0B), implementation Wed Oct 09 16:01:37 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

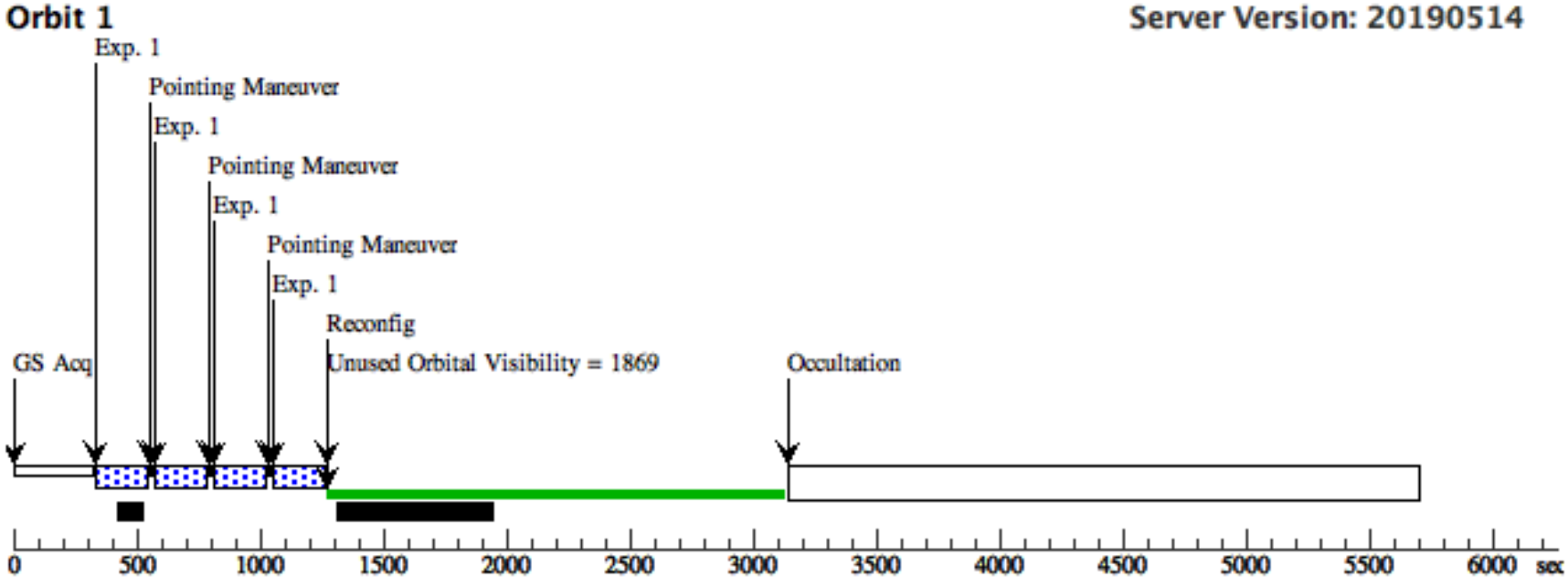
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(101)	HATLASJ142318.3+013913	RA: 14 23 18.3792 (215.8265800d) Dec: +01 39 13.80 (1.65383d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(101) HATLASJ142318.3+013913	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (0B) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (0E), scheduling Wed Oct 09 16:01:38 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

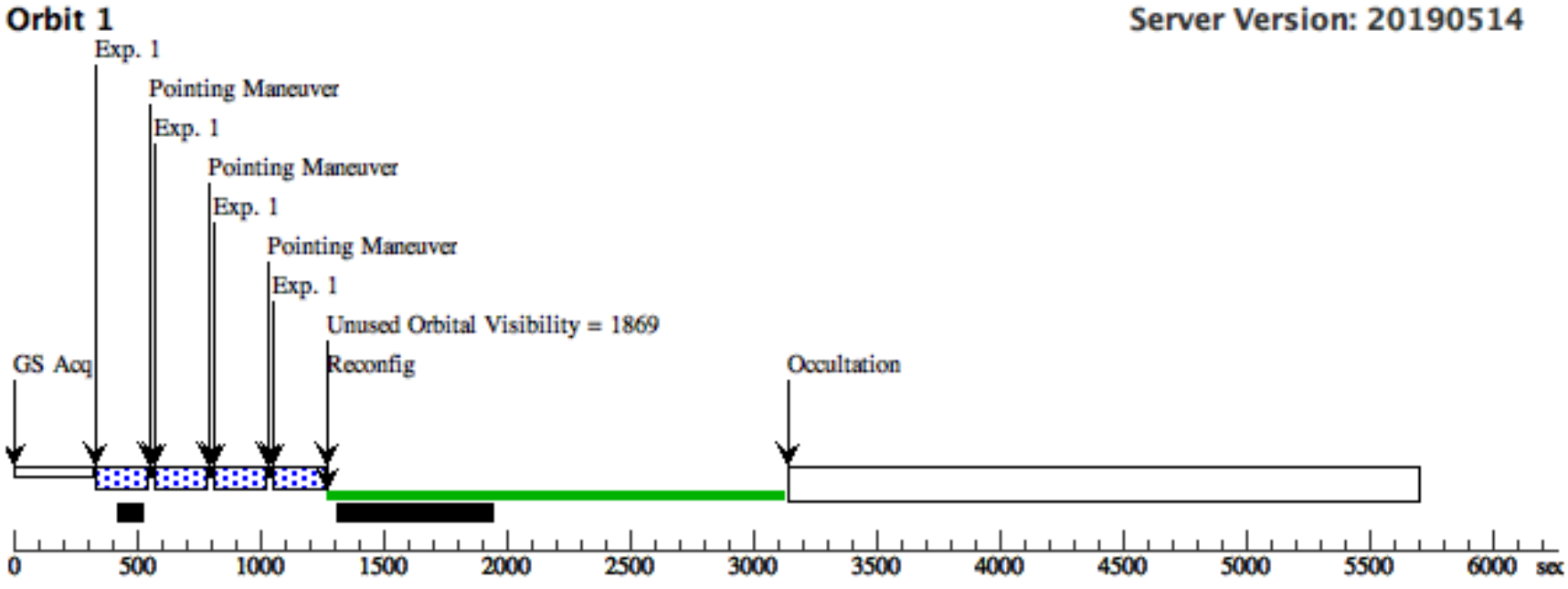
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(104)	HATLASJ144334.3-003034	RA: 14 43 34.3126 (220.8929692d) Dec: -00 30 34.30 (-.50953d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=20.20	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(104) HATLASJ144334.3-003034	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (0E) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (0F), scheduling Wed Oct 09 16:01:38 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

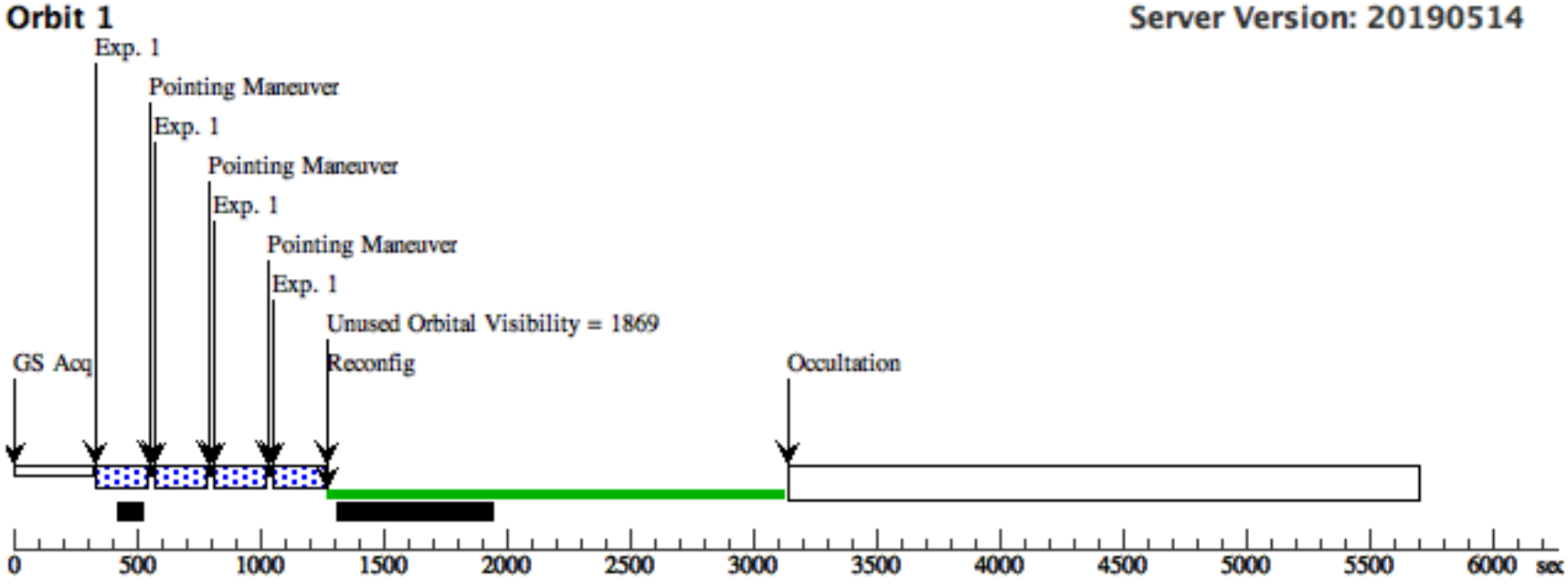
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(105)	HATLASJ145040.5+003334 Alt Name1: HATLASJ145040.5+003333	RA: 14 50 40.5067 (222.6687779d) Dec: +00 33 34.00 (.55944d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(105) HATLASJ145040.5+003334	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (0F) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (0G), scheduling Wed Oct 09 16:01:38 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

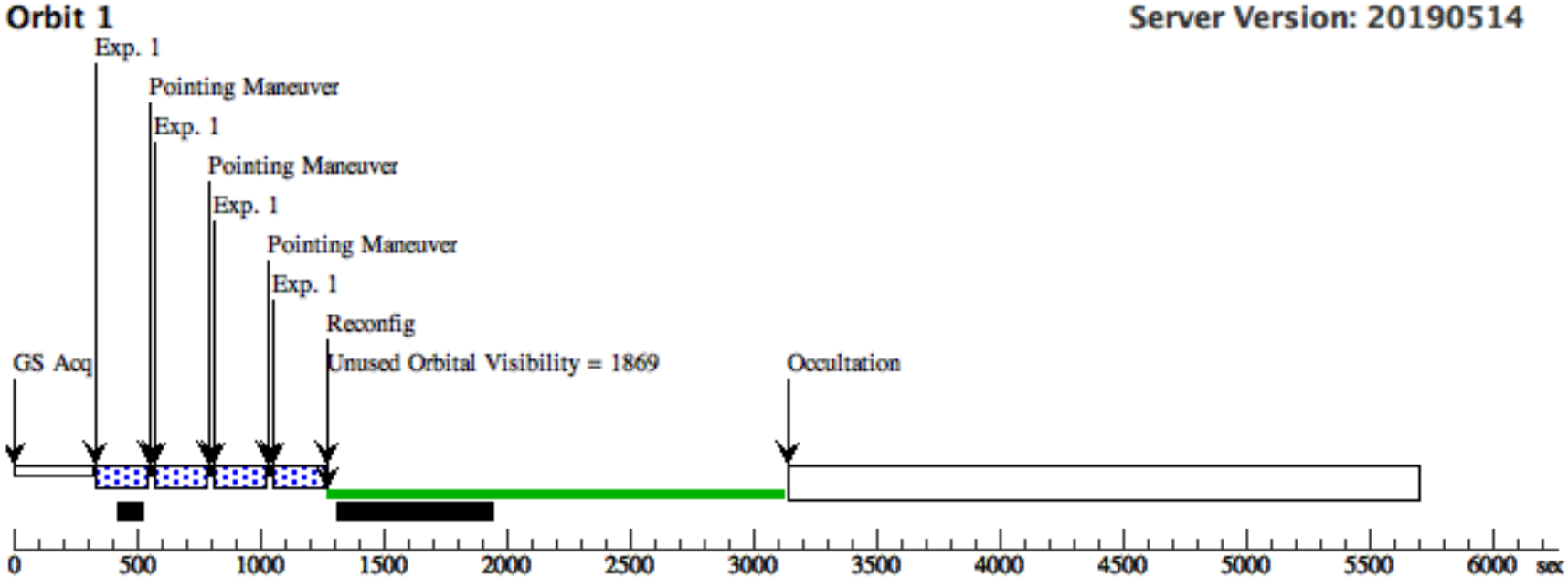
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(106)	HELMSJ004410.2+011821 Alt Name1: HELMS4	RA: 00 44 10.2000 (11.0425000d) Dec: +01 18 21.00 (1.30583d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=-20.5, m(y)=-20.5, m(j)=-20.5, m(h)=-20.5, m(k)=-20.1, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(106) HELMSJ004410.2+011821	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (0G) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (0K), scheduling Wed Oct 09 16:01:38 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

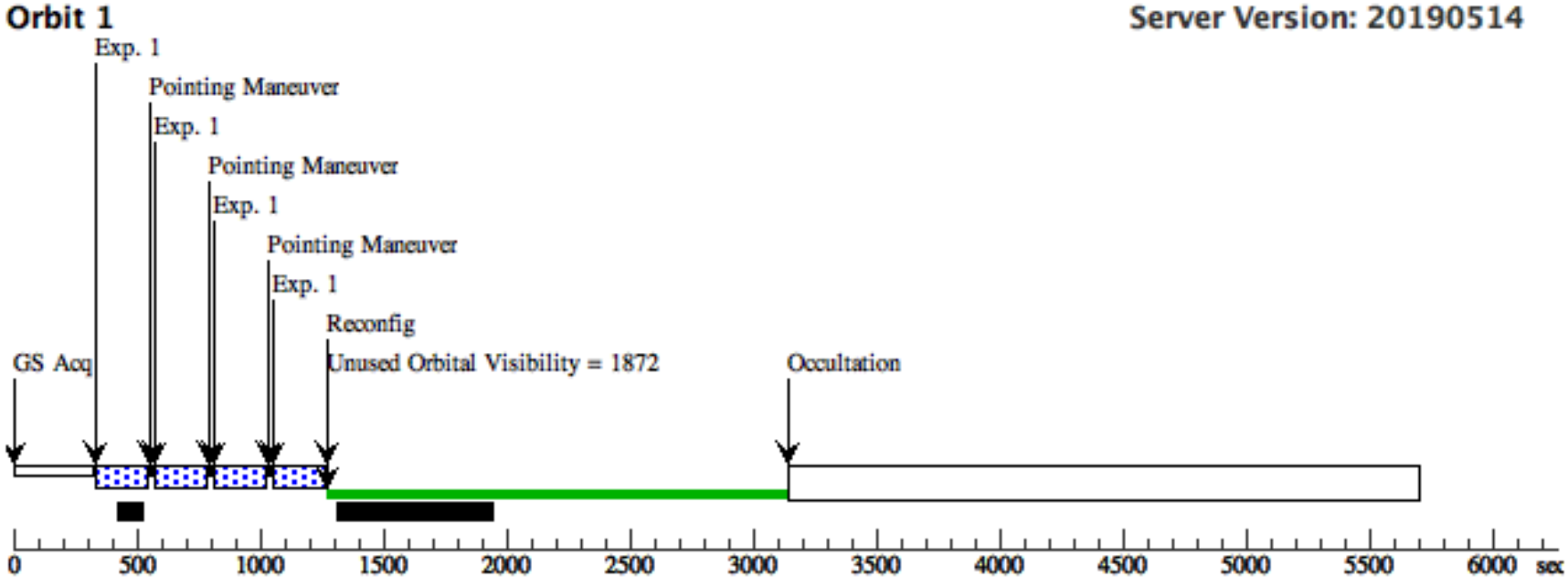
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(110)	HELMSJ233255.7-053426 Alt Name1: HELMS15	RA: 23 32 55.7000 (353.2320833d) Dec: -05 34 26.00 (-5.57389d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=-20.5, m(y)=-20.5, m(j)=-20.5, m(h)=-20.5, m(k)=20.60, m(w1)=17.83	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(110) HELMSJ233255.7-053426	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (0K) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (0L), scheduling Wed Oct 09 16:01:38 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

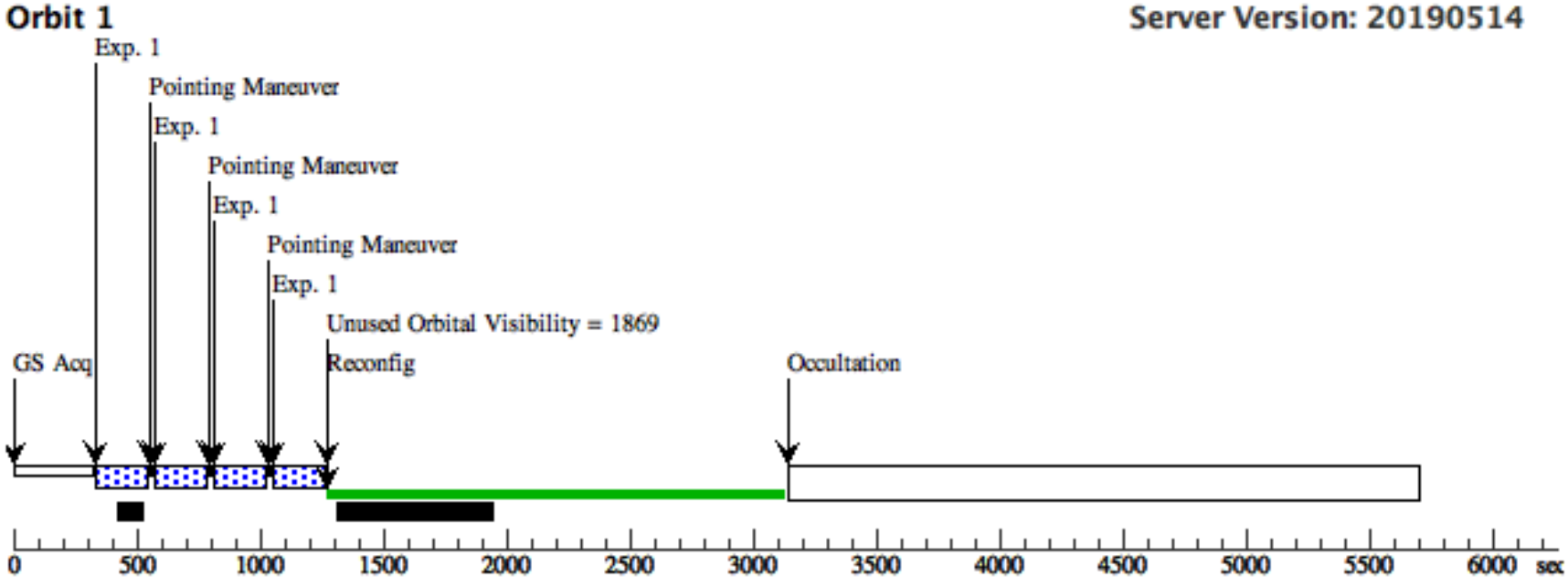
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(111)	HELMSJ232558.3-044525 Alt Name1: HELMS17	RA: 23 25 58.3000 (351.4929167d) Dec: -04 45 25.00 (-4.75694d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=-20.5, m(y)=-20.5, m(j)=-20.5, m(h)=-20.5, m(k)=-20.1, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(111) HELMSJ232558.3-044525	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (0L) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (0N), scheduling Wed Oct 09 16:01:38 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

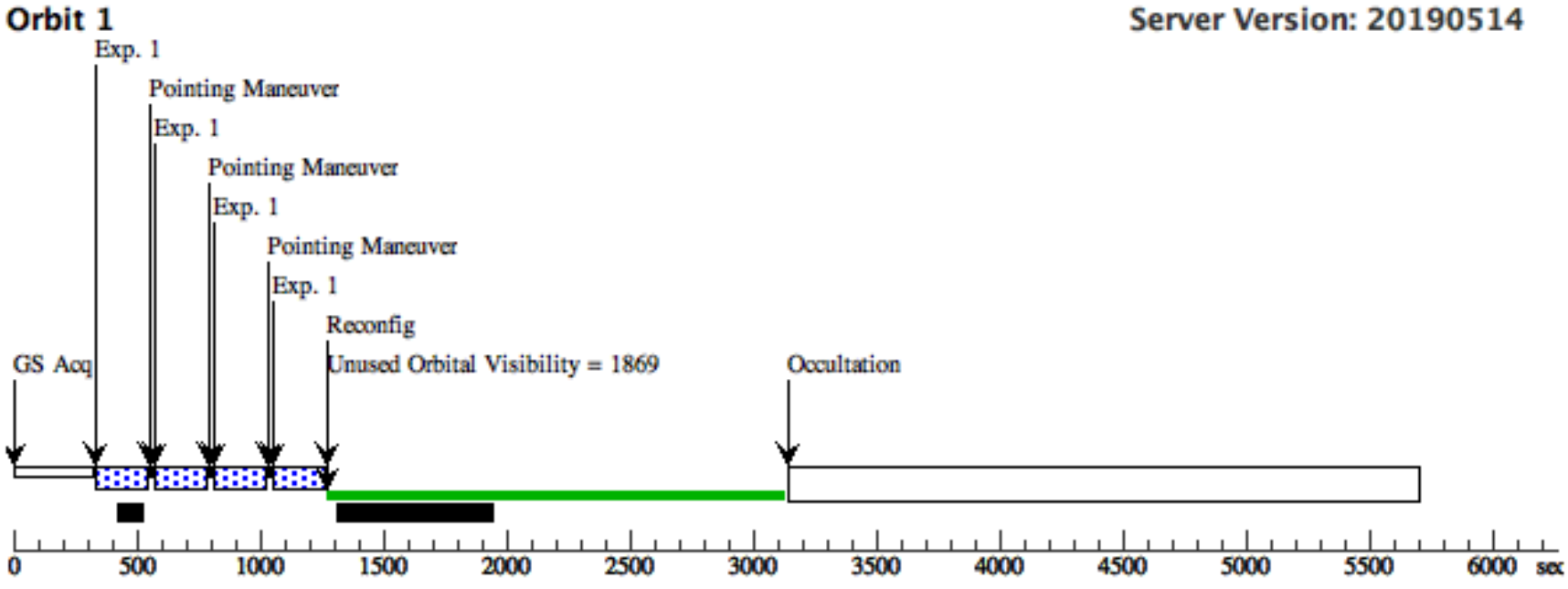
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(113)	HELMSJ004124.0-010307 Alt Name1: HELMS25	RA: 00 41 24.0000 (10.3500000d) Dec: -01 03 7.00 (-1.05194d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=-20.5, m(y)=-20.5, m(j)=20.34, m(h)=-20.5, m(k)=19.04, m(w1)=17.56	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(113) HELMSJ004124.0-010307	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (0N) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (0O), scheduling Wed Oct 09 16:01:38 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

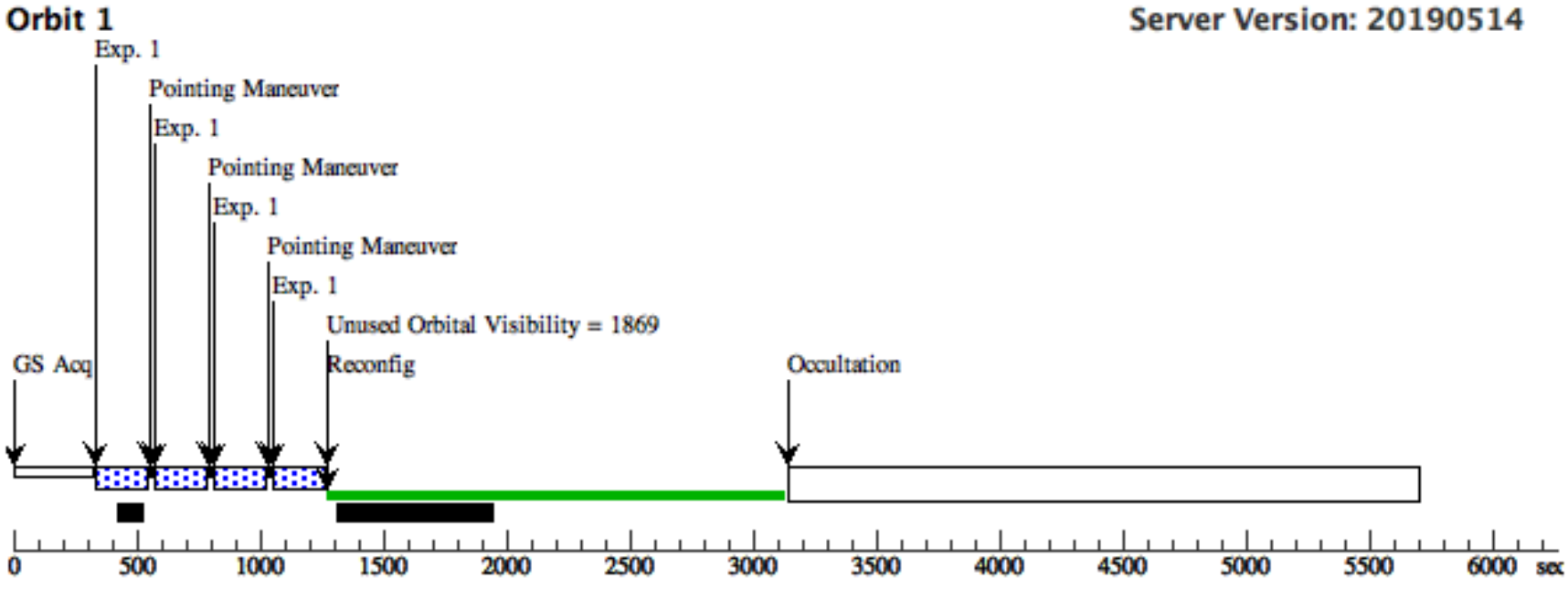
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(114)	HELMSJ003758.0-010622 Alt Name1: HELMS27	RA: 00 37 58.0000 (9.4916667d) Dec: -01 06 22.00 (-1.10611d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=-20.5, m(y)=-20.5, m(j)=-20.5, m(h)=-20.5, m(k)=-20.1, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(114) HELMSJ003758.0-010622	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (0O) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (0P), scheduling Wed Oct 09 16:01:38 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

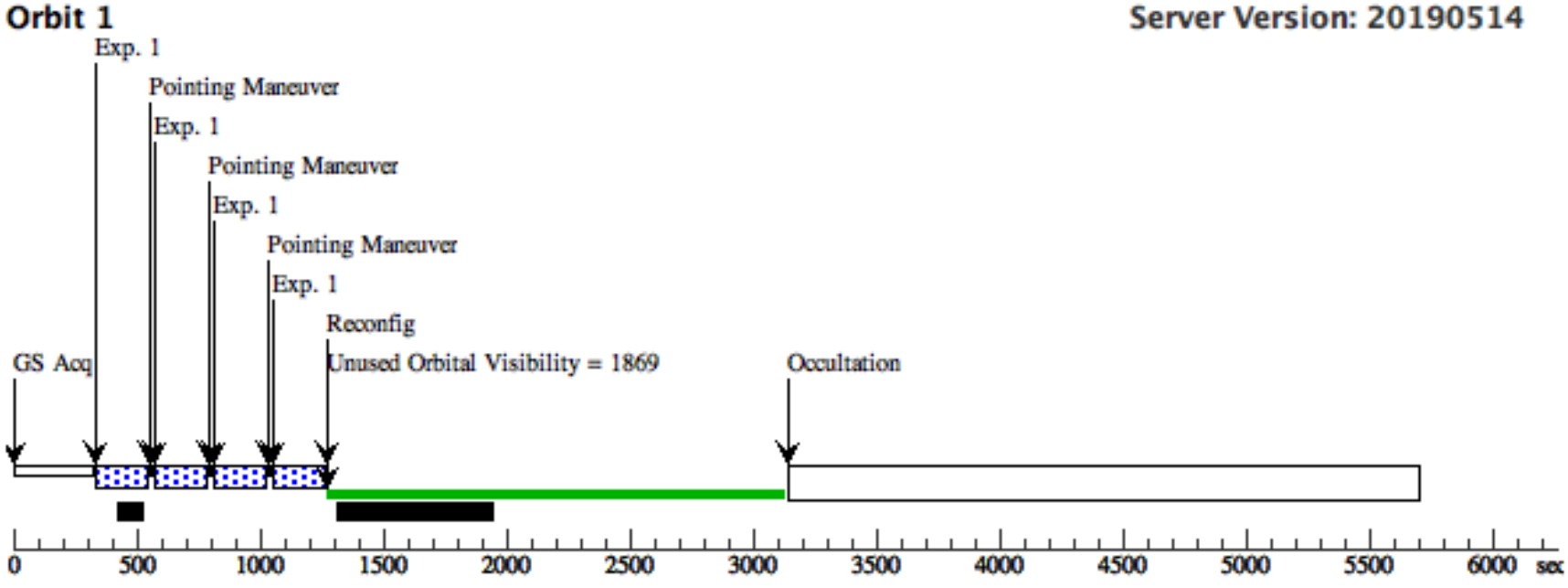
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(115)	HELMSJ003009.2-020625 Alt Name1: HELMS28	RA: 00 30 9.2000 (7.5383333d) Dec: -02 06 25.00 (-2.10694d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=-20.5, m(y)=-20.5, m(j)=-20.5, m(h)=-20.5, m(k)=-20.1, m(w1)=19.30	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(115) HELMSJ003009.2-020625	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (0P) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (0R), scheduling Wed Oct 09 16:01:38 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

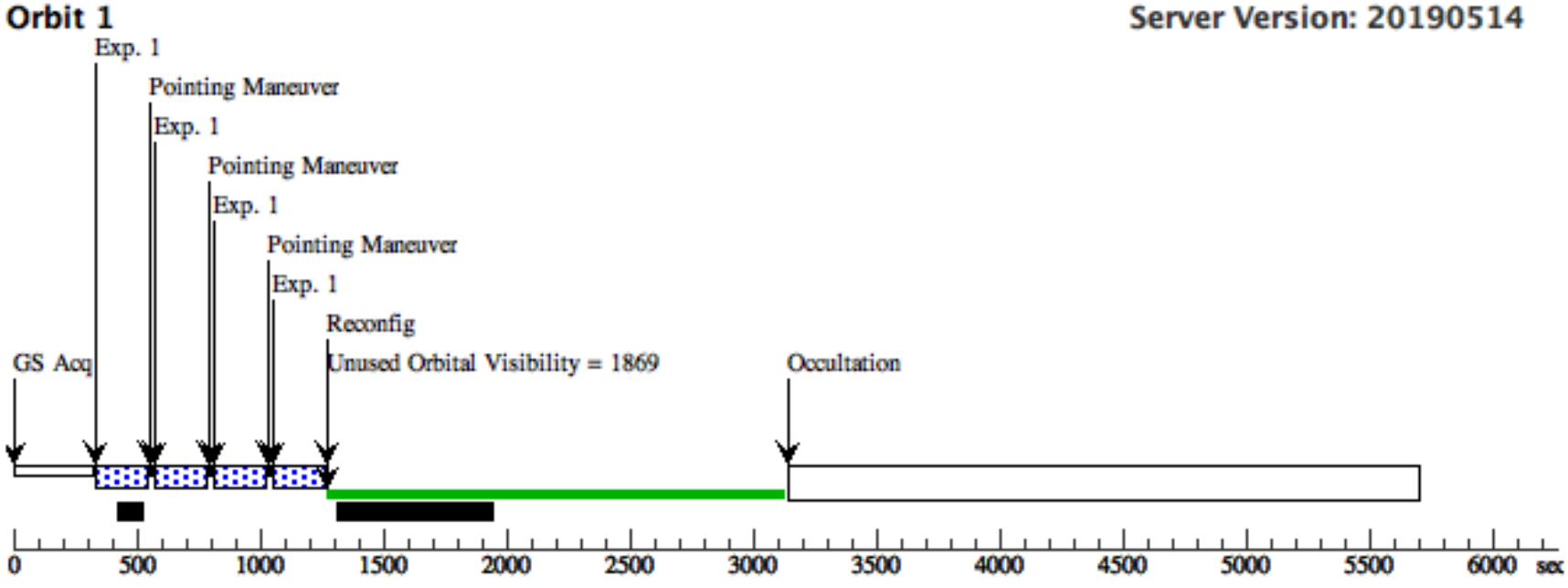
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(117)	HELMSJ000336.9+014013 Alt Name1: HELMS32	RA: 00 03 36.9000 (.9037500d) Dec: +01 40 13.00 (1.67028d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=-20.5, m(y)=-20.5, m(j)=-20.5, m(h)=-20.5, m(k)=-20.1, m(w1)=18.76	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(117) HELMSJ000336.9+014013	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (0R) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (0S), scheduling Wed Oct 09 16:01:38 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

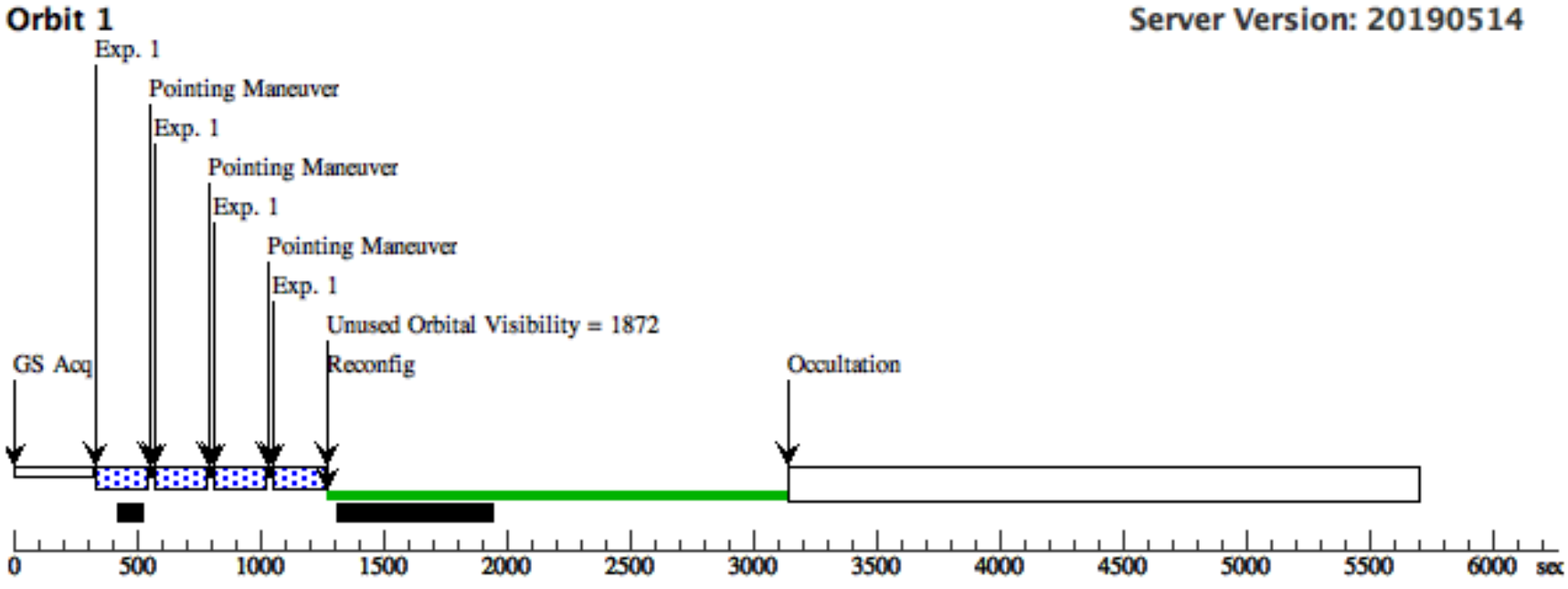
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(118)	HELMSJ010801.8+053201 Alt Name1: HELMS37	RA: 01 08 1.8000 (17.0075000d) Dec: +05 32 1.00 (5.53361d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=-20.5, m(y)=-20.5, m(j)=-20.5, m(h)=-20.5, m(k)=-20.1, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(118) HELMSJ010801.8+053201	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (0S) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (0T), implementation Wed Oct 09 16:01:38 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

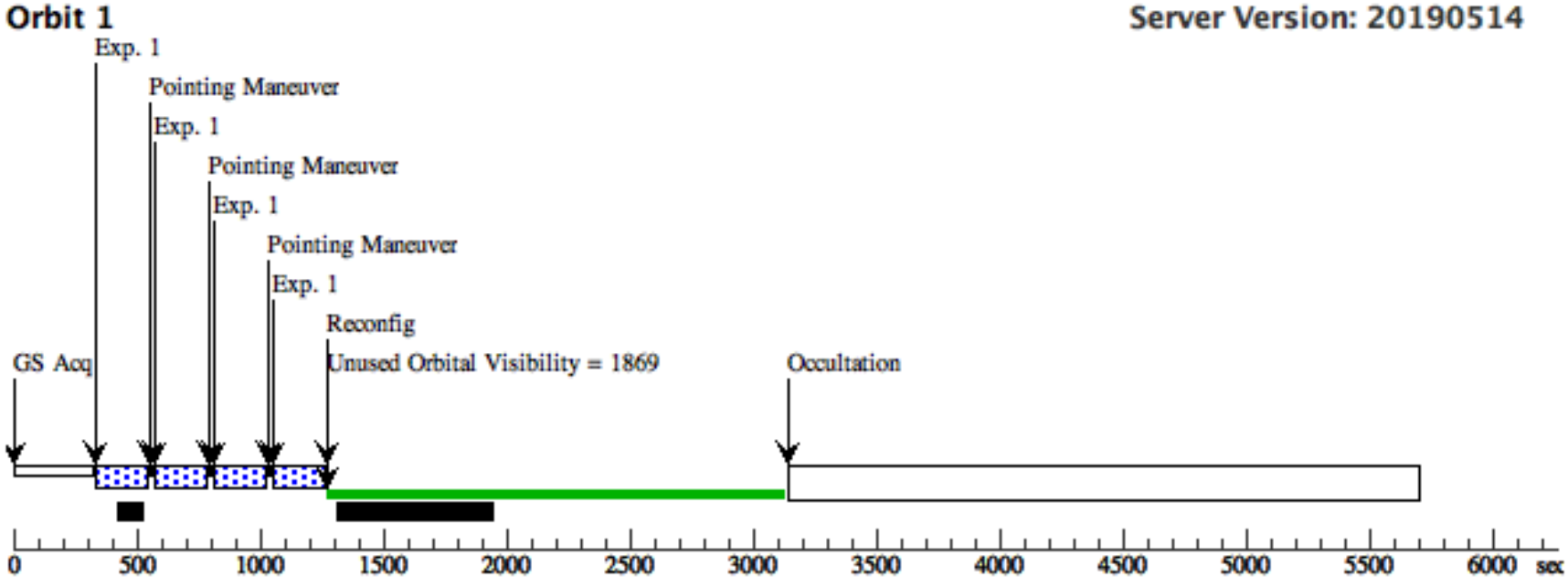
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(119)	HELMSJ002936.3+020710 Alt Name1: HELMS39	RA: 00 29 36.3000 (7.4012500d) Dec: +02 07 10.00 (2.11944d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=-20.5, m(y)=-20.5, m(j)=-20.5, m(h)=-20.5, m(k)=-20.1, m(w1)=19.76	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(119) HELMSJ002936.3+020710	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (0T) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (0W), implementation Wed Oct 09 16:01:38 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

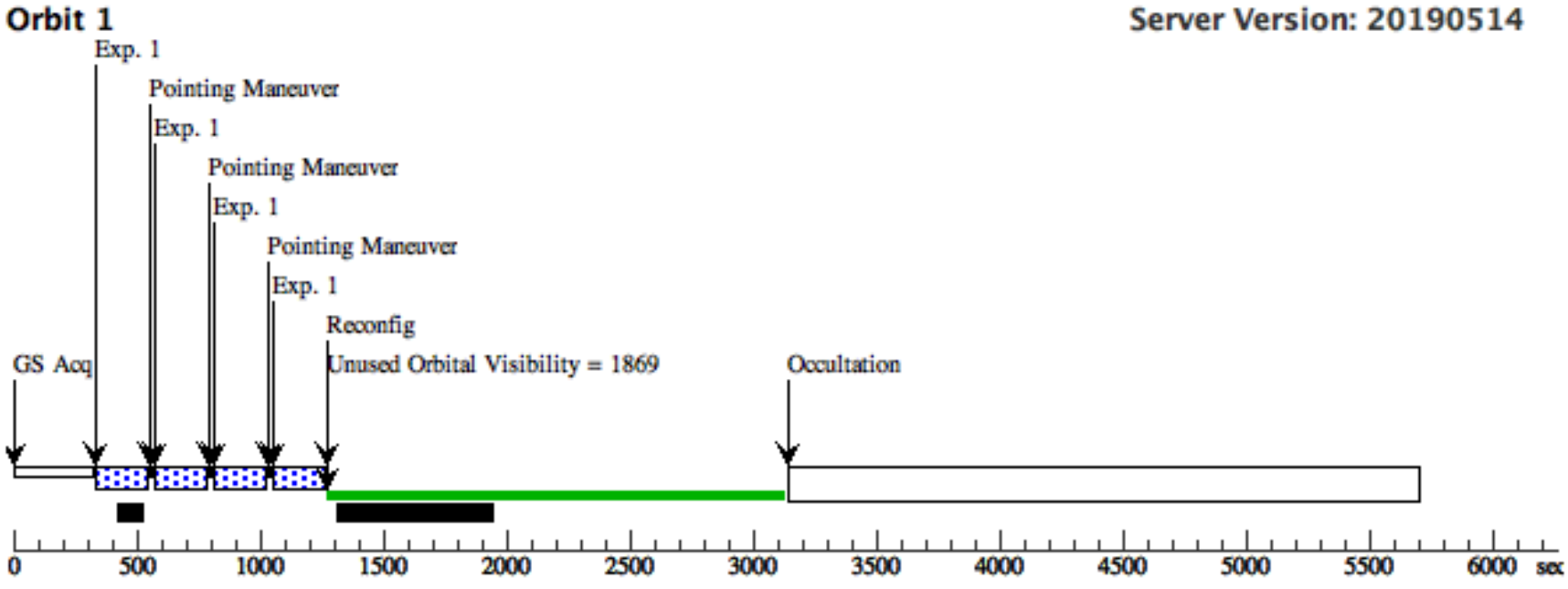
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(122)	HELMSJ234951.6-030019 Alt Name1: HELMS47	RA: 23 49 51.6000 (357.4650000d) Dec: -03 00 19.00 (-3.00528d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=-20.5, m(y)=-20.5, m(j)=-20.5, m(h)=-20.5, m(k)=-20.1, m(w1)=19.49	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(122) HELMSJ234951.6-030019	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (0W) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (0Z), scheduling Wed Oct 09 16:01:38 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

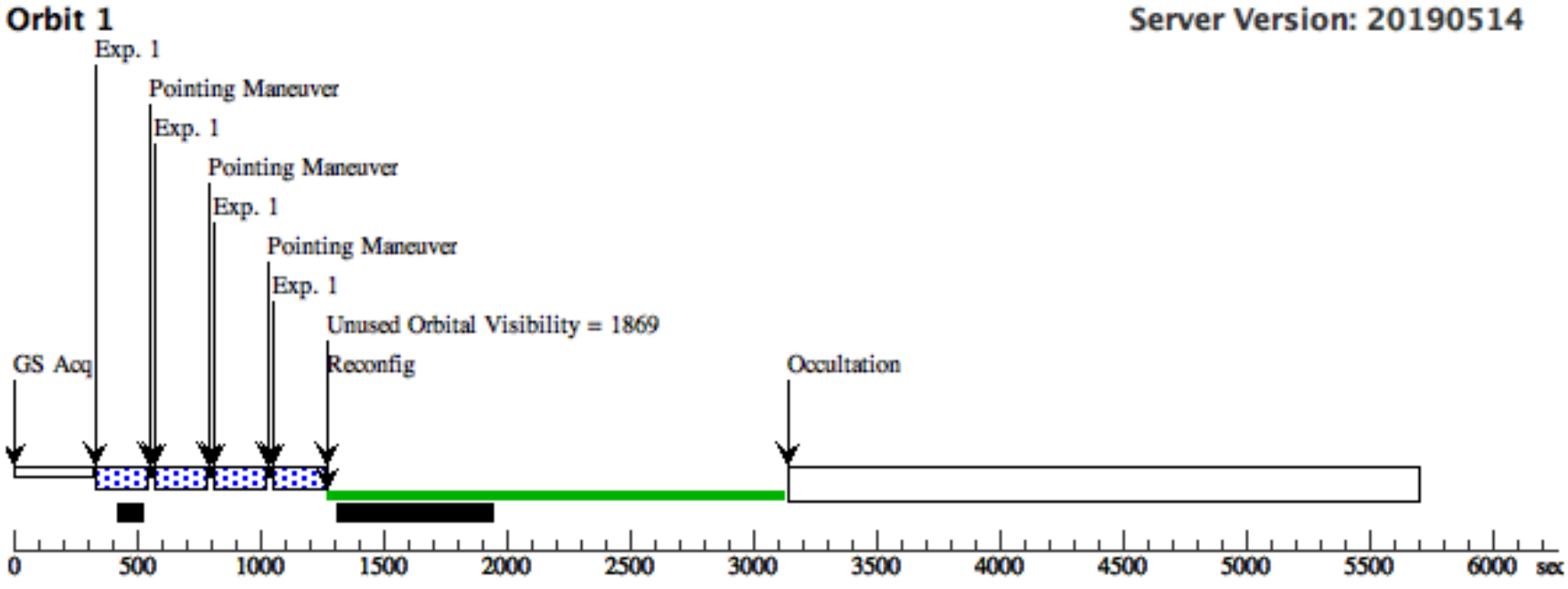
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(125)	HELMSJ233727.1-002343 Alt Name1: HELMS52	RA: 23 37 27.1000 (354.3629167d) Dec: -00 23 43.00 (-.39528d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=-20.5, m(y)=-20.5, m(j)=20.52, m(h)=-20.5, m(k)=19.44, m(w1)=18.21	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(125) HELMSJ233727.1-002343	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (0Z) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (1A), scheduling Wed Oct 09 16:01:38 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

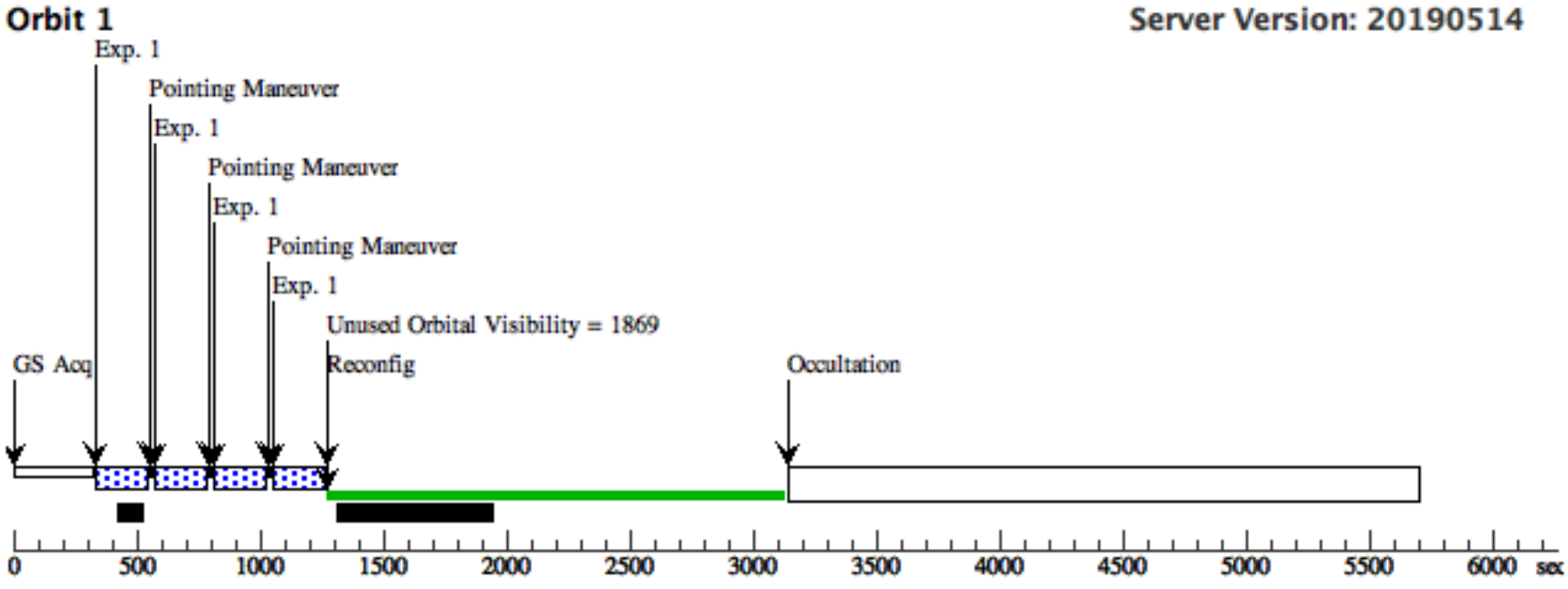
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(126)	HELMSJ004532.6-000123 Alt Name1: HELMS53	RA: 00 45 32.6000 (11.3858333d) Dec: -00 01 23.00 (-.02306d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=-20.5, m(y)=-20.5, m(j)=-20.5, m(h)=-20.5, m(k)=-20.1, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(126) HELMSJ004532.6-000123	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (1A) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (1B), scheduling Wed Oct 09 16:01:38 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

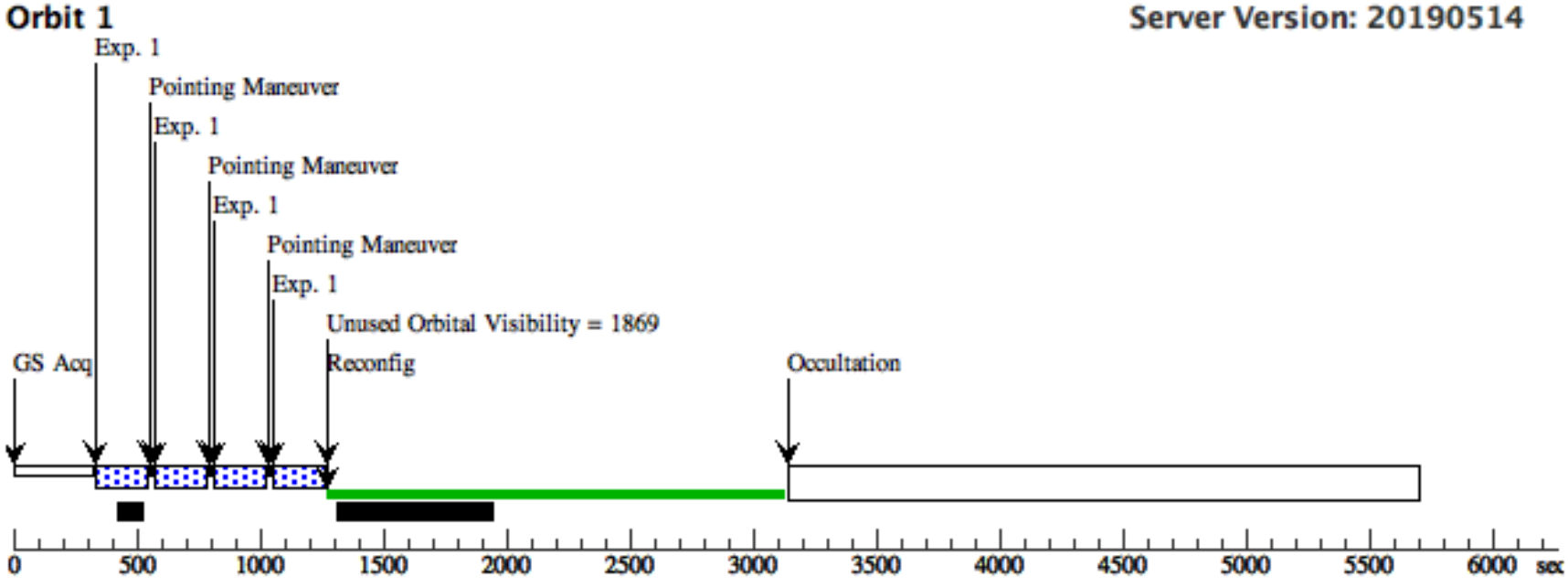
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(127)	HELMSJ002718.1+023943 Alt Name1: HELMS54	RA: 00 27 18.1000 (6.8254167d) Dec: +02 39 43.00 (2.66194d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=-20.5, m(y)=-20.5, m(j)=-20.5, m(h)=-20.5, m(k)=-20.1, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(127) HELMSJ002718.1+023943	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (1B) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (1E), scheduling Wed Oct 09 16:01:38 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

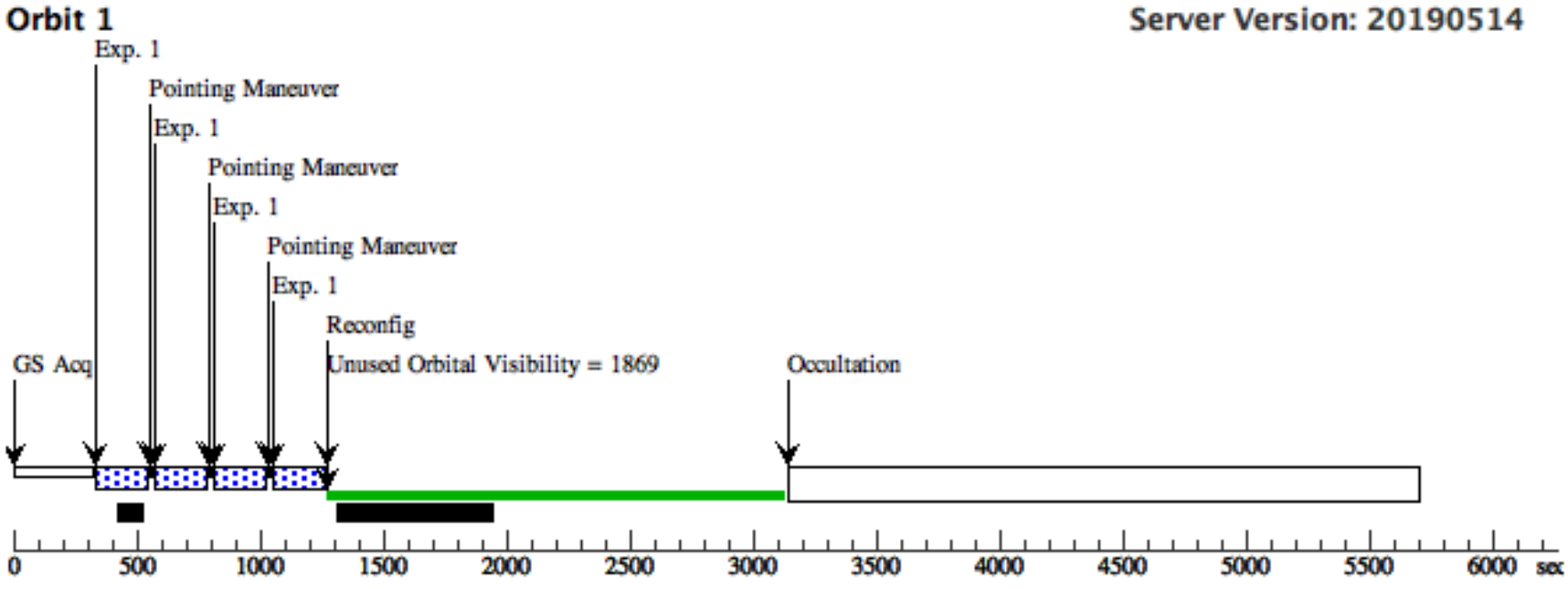
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(130)	HERSJ010133.8+003157 Alt Name1: HERS7	RA: 01 01 33.8000 (15.3908333d) Dec: +00 31 57.00 (.53250d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=-20.5, m(y)=-20.5, m(j)=-20.5, m(h)=-20.5, m(k)=-20.1, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(130) HERSJ010133.8+003157	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (1E) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (1F), scheduling Wed Oct 09 16:01:38 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

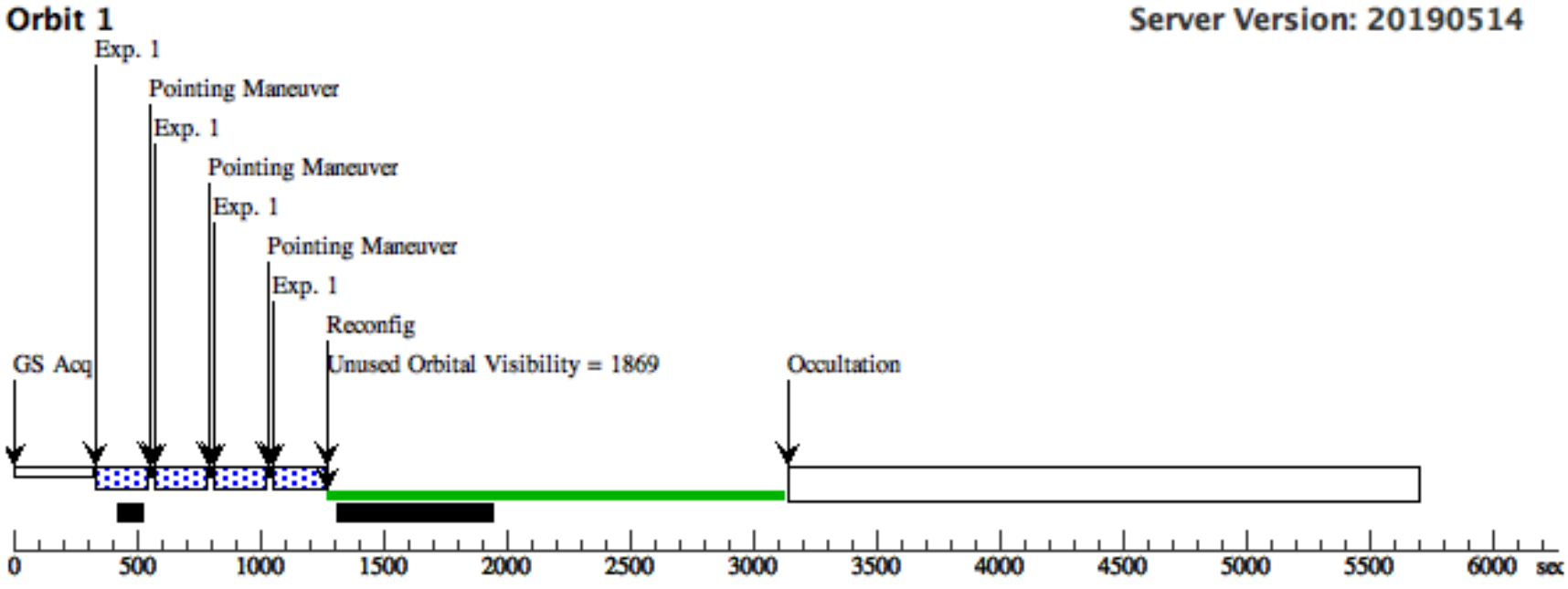
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(131)	HERSJ010938.9-014830 Alt Name1: HERS8	RA: 01 09 38.9000 (17.4120833d) Dec: -01 48 30.00 (-1.80833d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=-20.5, m(y)=-20.5, m(j)=-20.5, m(h)=-20.5, m(k)=-20.1, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(131) HERSJ010938.9-014830	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (1F) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (1G), scheduling Wed Oct 09 16:01:38 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

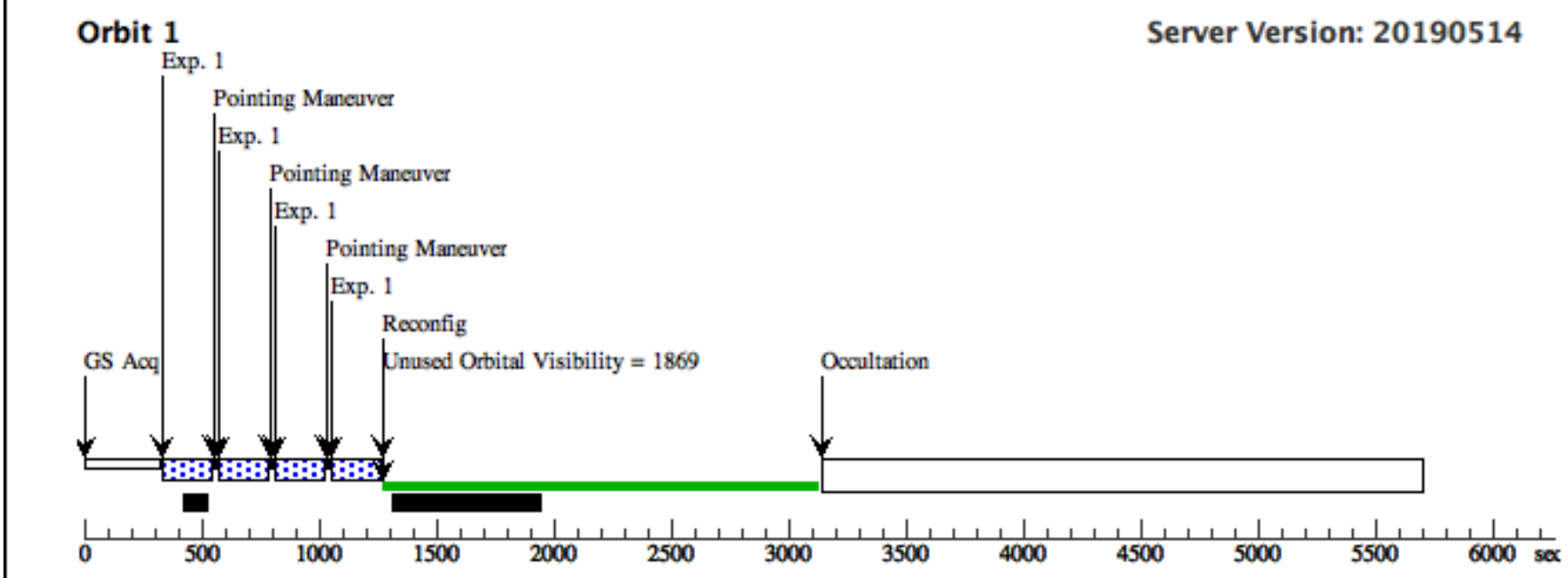
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(132)	HERSJ005847.3-010017 Alt Name1: HERS11	RA: 00 58 47.3000 (14.6970833d) Dec: -01 00 17.00 (-1.00472d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=-20.5, m(y)=-20.5, m(j)=-20.5, m(h)=-20.5, m(k)=-20.1, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(132) HERSJ005847.3-010017	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (1G) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (1H), scheduling Wed Oct 09 16:01:38 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

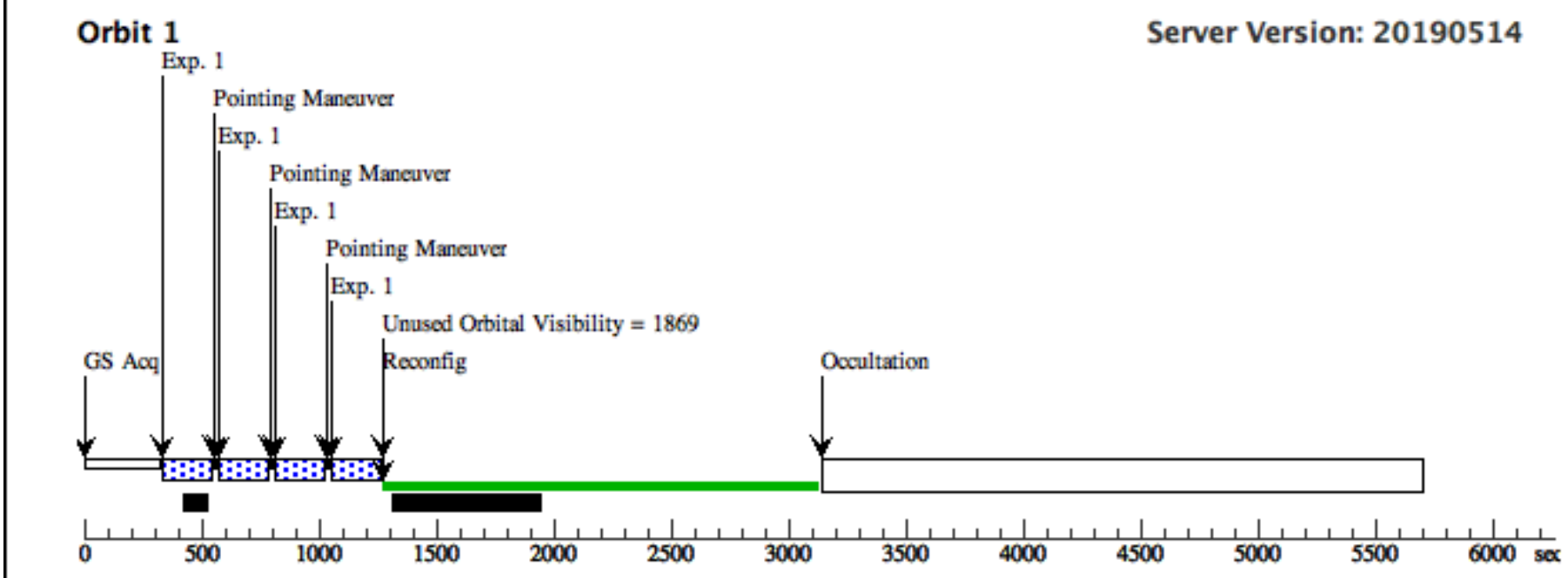
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(133)	HERSJ012521.0+011724 Alt Name1: HERS13	RA: 01 25 21.0000 (21.3375000d) Dec: +01 17 24.00 (1.29000d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=-20.5, m(y)=-20.5, m(j)=21.19, m(h)=-20.5, m(k)=20.48, m(w1)=19.09	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(133) HERSJ012521.0+011724	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (1H) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (1I), scheduling Wed Oct 09 16:01:38 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

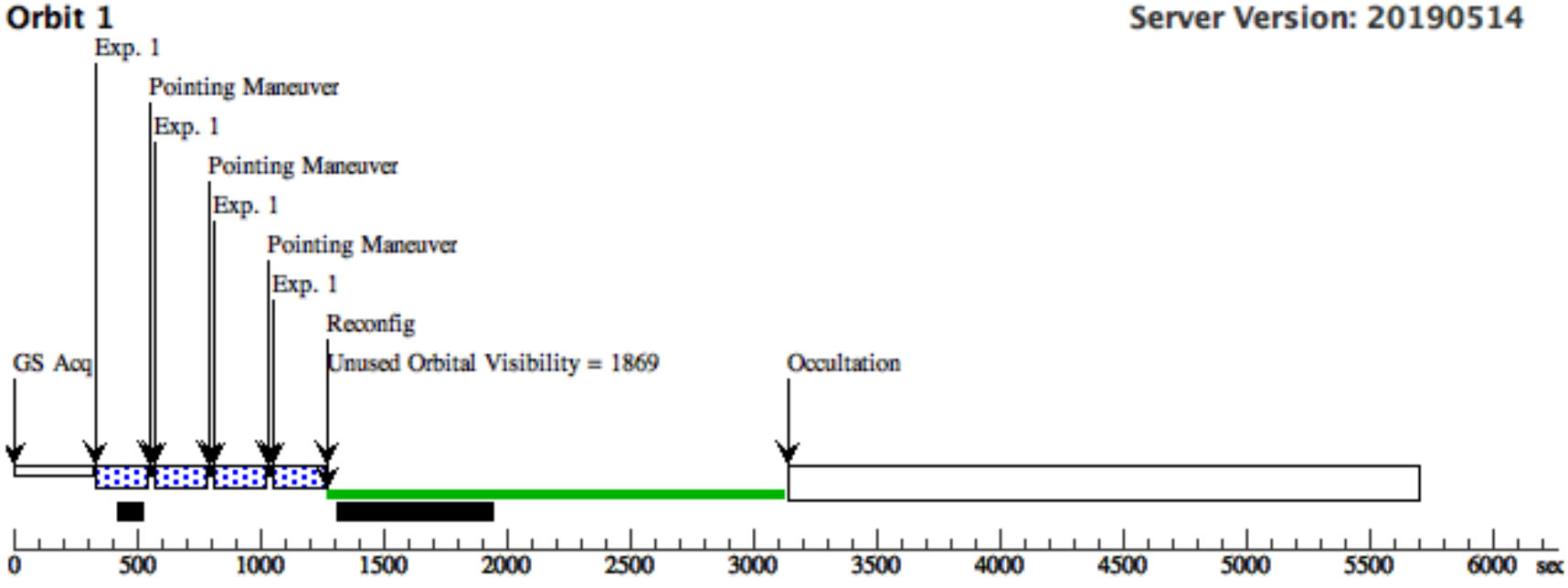
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(134)	HERSJ013212.2+001754 Alt Name1: HERS18	RA: 01 32 12.2000 (23.0508333d) Dec: +00 17 54.00 (.29833d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=-20.5, m(y)=-20.5, m(j)=-20.5, m(h)=-20.5, m(k)=-20.1, m(w1)=19.77	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(134) HERSJ013212.2+001754	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (1I) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (1K), scheduling Wed Oct 09 16:01:38 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

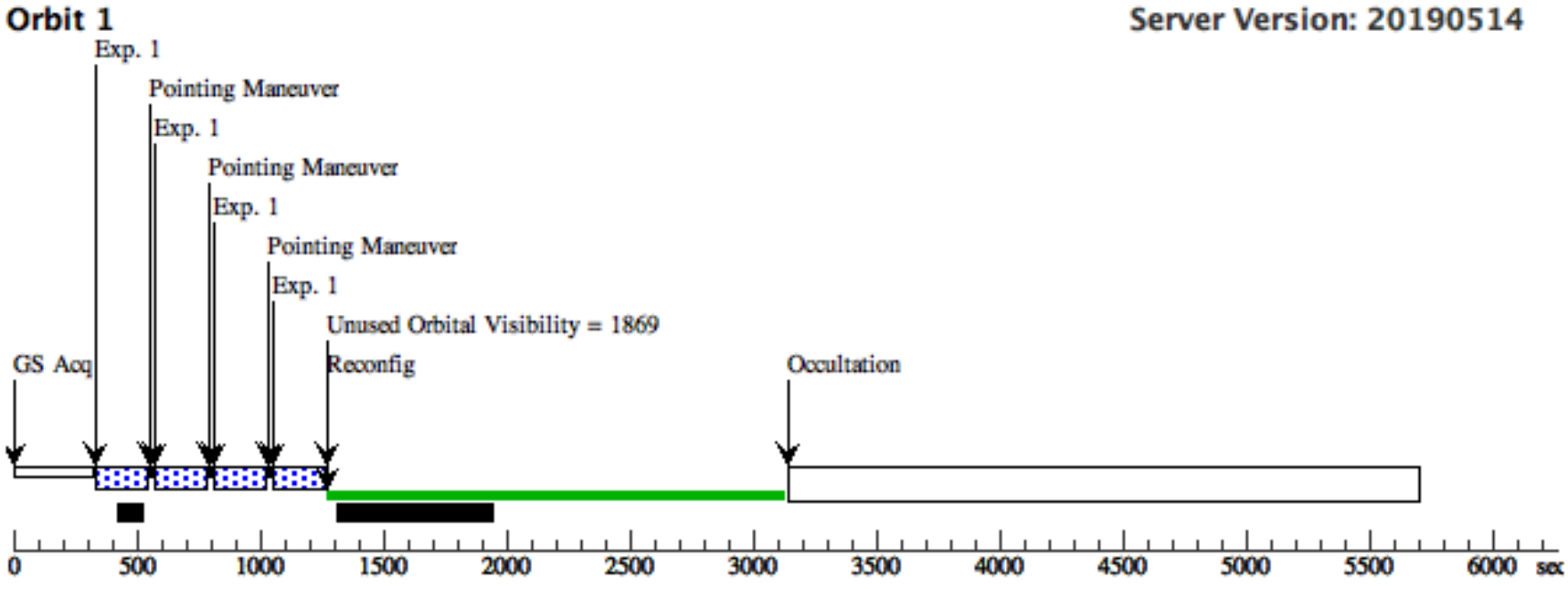
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(136)	HERSJ010246.1+010543 Alt Name1: HERS20	RA: 01 02 46.1000 (15.6920833d) Dec: +01 05 43.00 (1.09528d) Equinox: J2000		V=(?) m(r)=-22.2, m(z)=-20.5, m(y)=-20.5, m(j)=-20.5, m(h)=-20.5, m(k)=19.82, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(136) HERSJ010246.1+010543	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (1K) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (1L), scheduling Wed Oct 09 16:01:38 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

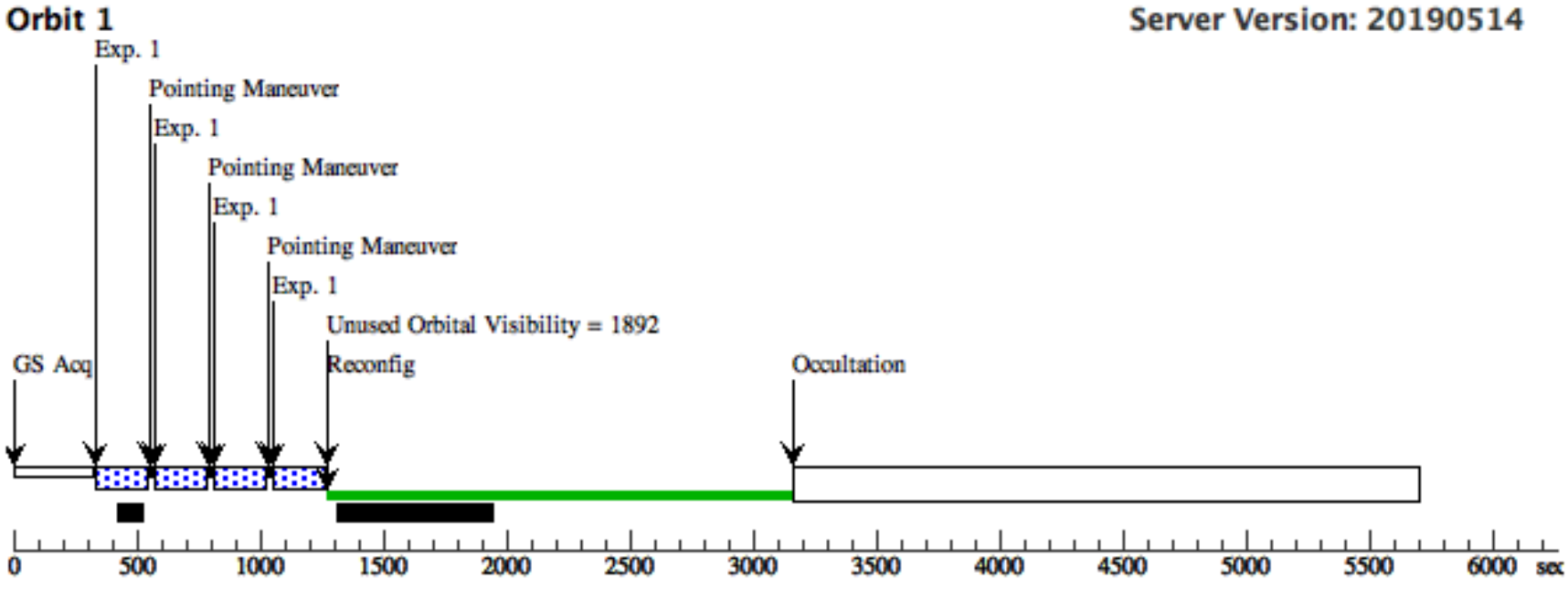
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(137)	HATLASJ012407.4-281434 Alt Name1: HATLASJ012407.3-281434	RA: 01 24 7.3978 (21.0308242d) Dec: -28 14 34.23 (-28.24284d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=21.89, m(y)=21.96, m(j)=21.30, m(h)=21.96, m(k)=20.17, m(w1)=18.71	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(137) HATLASJ012407.4-281434	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (1L) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (1O), scheduling Wed Oct 09 16:01:38 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

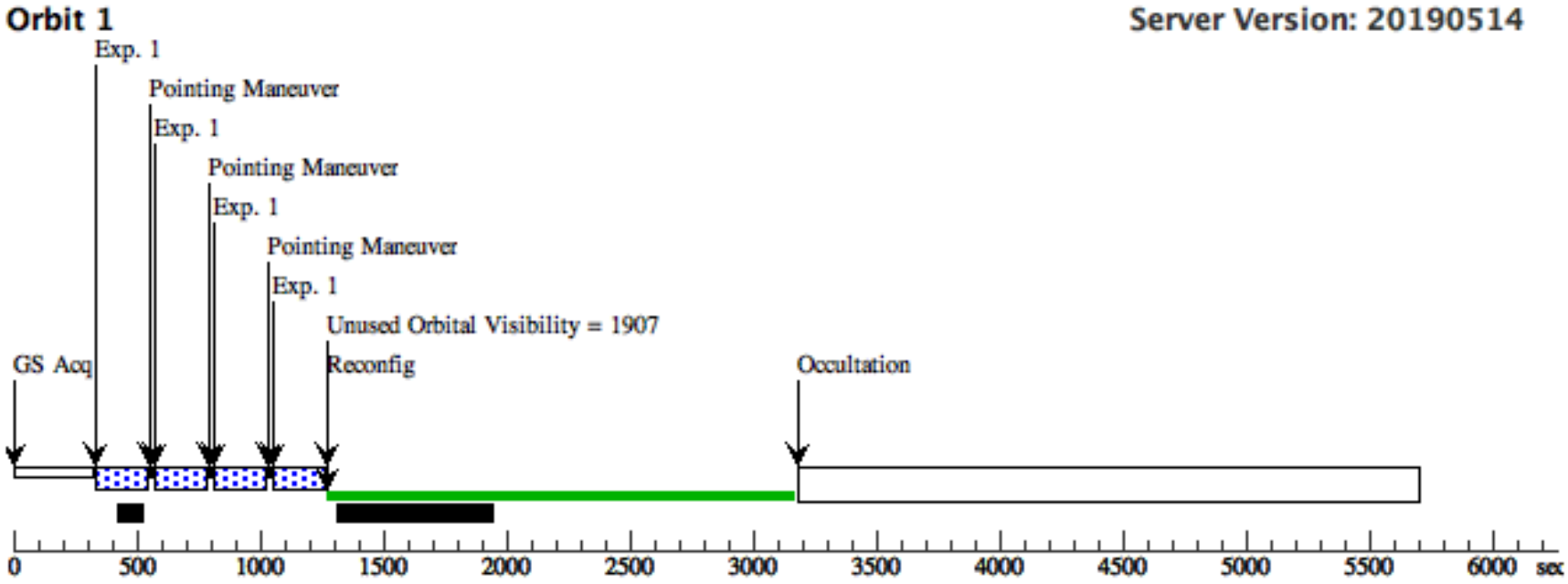
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(140)	HATLASJ010250.8-311723	RA: 01 02 50.8517 (15.7118821d) Dec: -31 17 23.15 (-31.28976d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=21.98, m(y)=-21.9, m(j)=21.08, m(h)=-21.9, m(k)=20.20, m(w1)=18.52	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(140) HATLASJ010250.8-311723	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (1O) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (1Q), scheduling Wed Oct 09 16:01:38 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

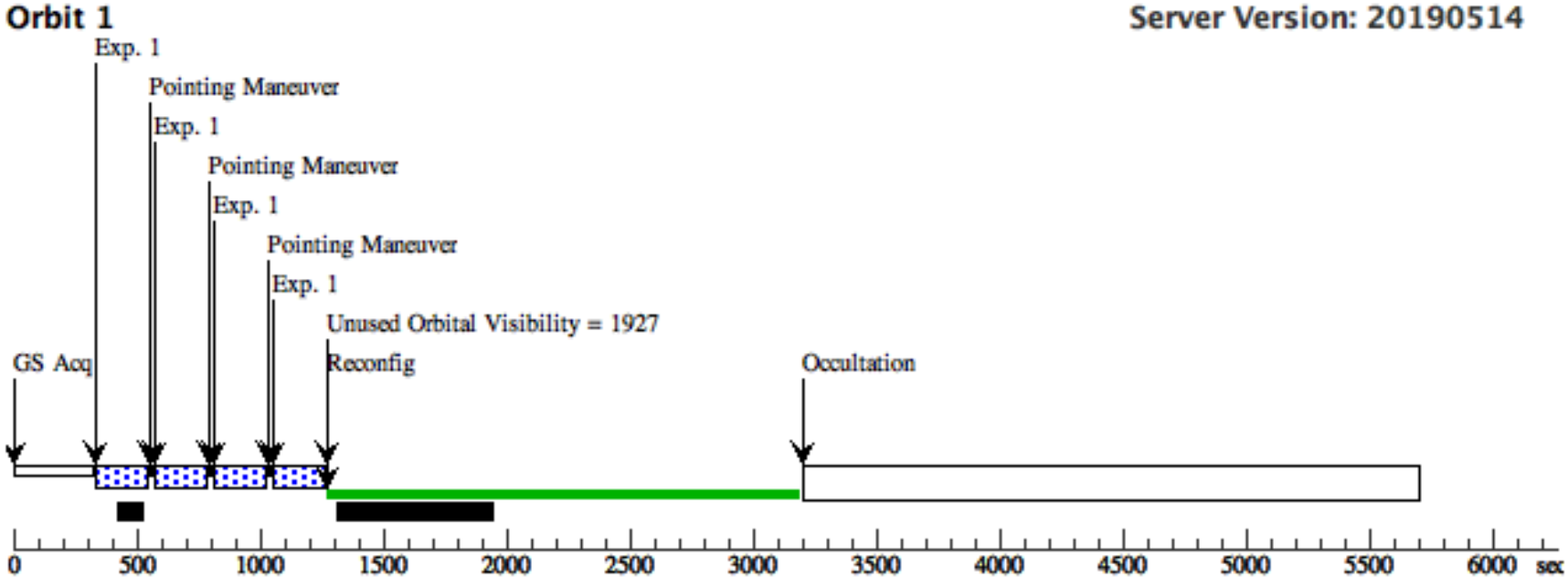
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(142)	HATLASJ234357.7-351723	RA: 23 43 57.7310 (355.9905458d) Dec: -35 17 23.57 (-35.28988d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=17.31	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(142) HATLASJ234357.7-351723	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (1Q) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (1S), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

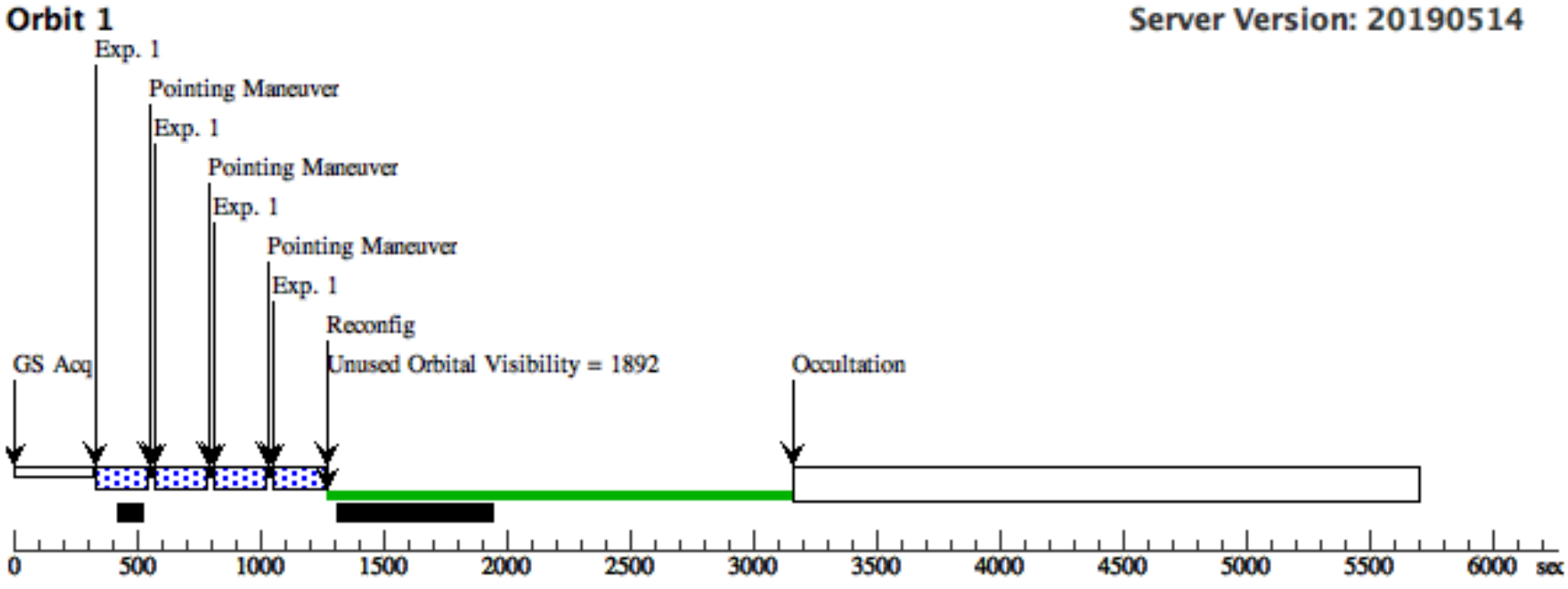
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(144)	HATLASJ012046.4-282403	RA: 01 20 46.4602 (20.1935842d) Dec: -28 24 3.48 (-28.40097d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=20.21, m(y)=19.89, m(j)=19.59, m(h)=19.89, m(k)=18.99, m(w1)=18.83	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(144) HATLASJ012046.4-282403	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (1S) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (1T), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

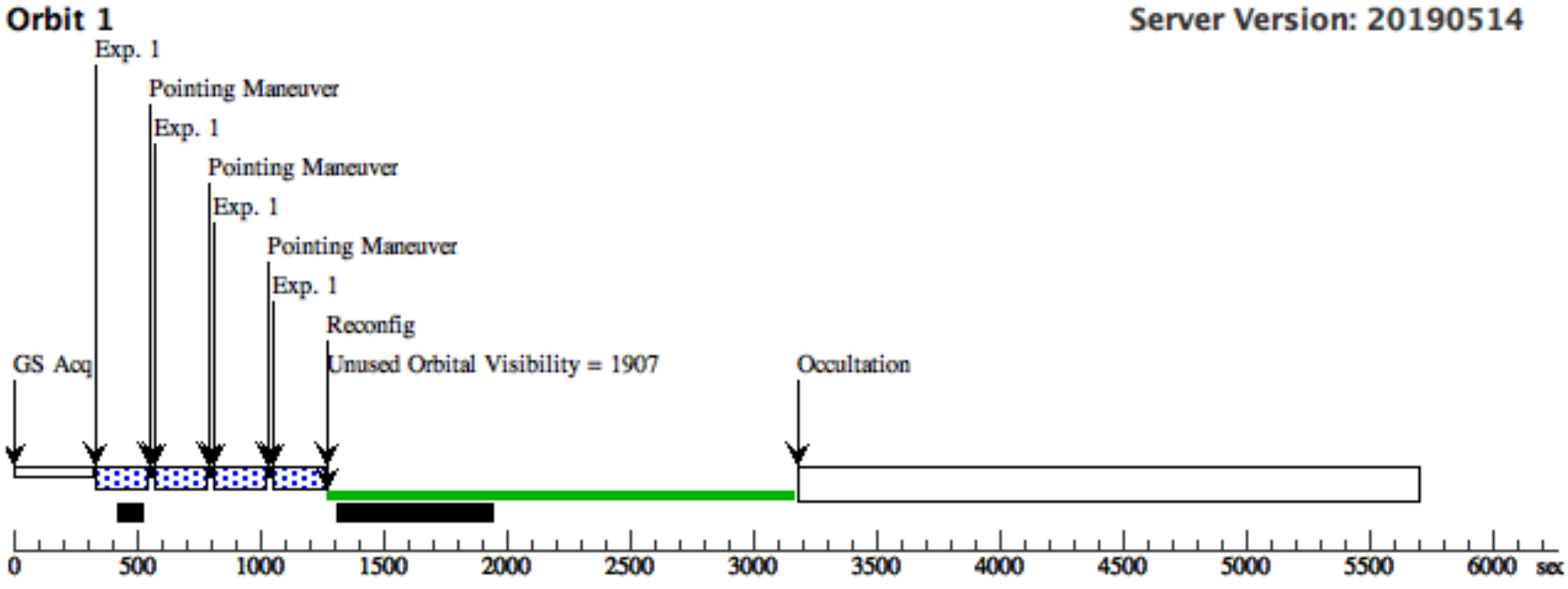
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(145)	HATLASJ235827.6-323244	RA: 23 58 27.6823 (359.6153429d) Dec: -32 32 44.11 (-32.54559d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=20.46, m(h)=-21.9, m(k)=19.61, m(w1)=18.66	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(145) HATLASJ235827.6-323244	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (1T) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (1U), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

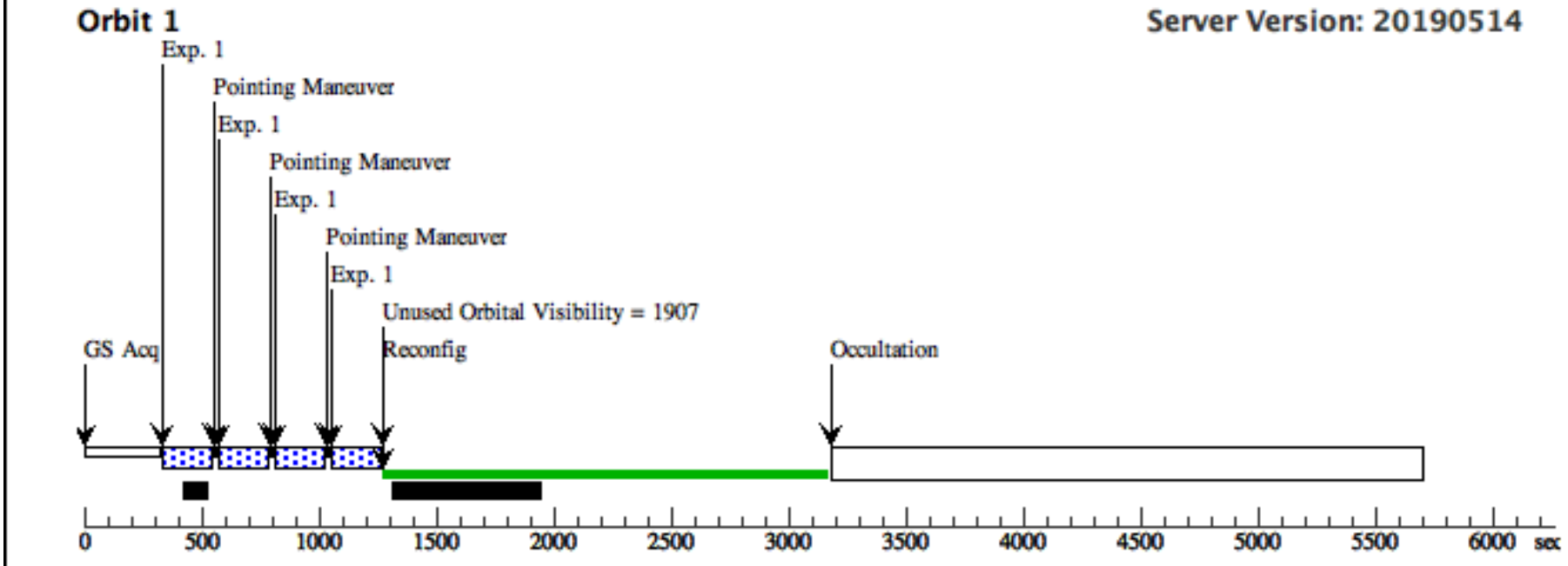
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(146)	HATLASJ232623.0-342642	RA: 23 26 23.0484 (351.5960350d) Dec: -34 26 42.36 (-34.44510d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=21.77, m(h)=-21.9, m(k)=20.40, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(146) HATLASJ232623.0-342642	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (1U) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (1V), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

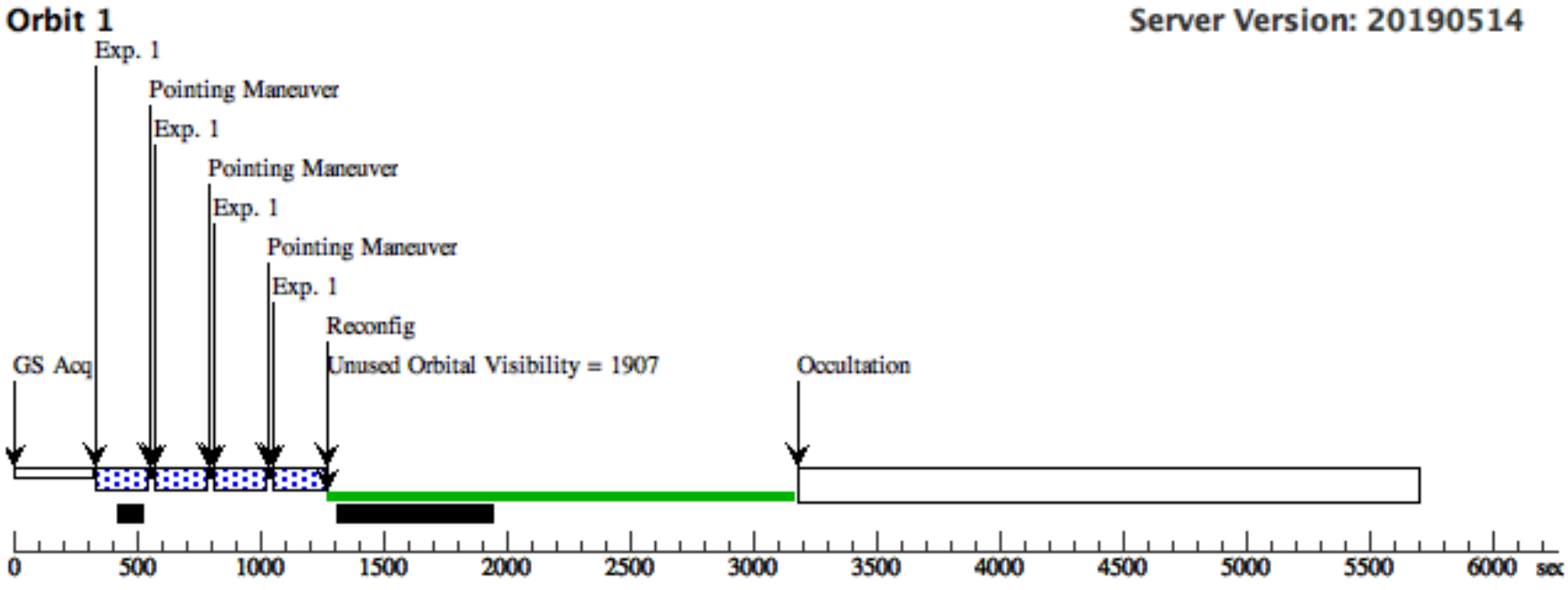
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(147)	HATLASJ013239.9-330906	RA: 01 32 39.9754 (23.1665642d) Dec: -33 09 6.62 (-33.15184d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(147) HATLASJ013239.9-330906	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (1V) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (1W), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

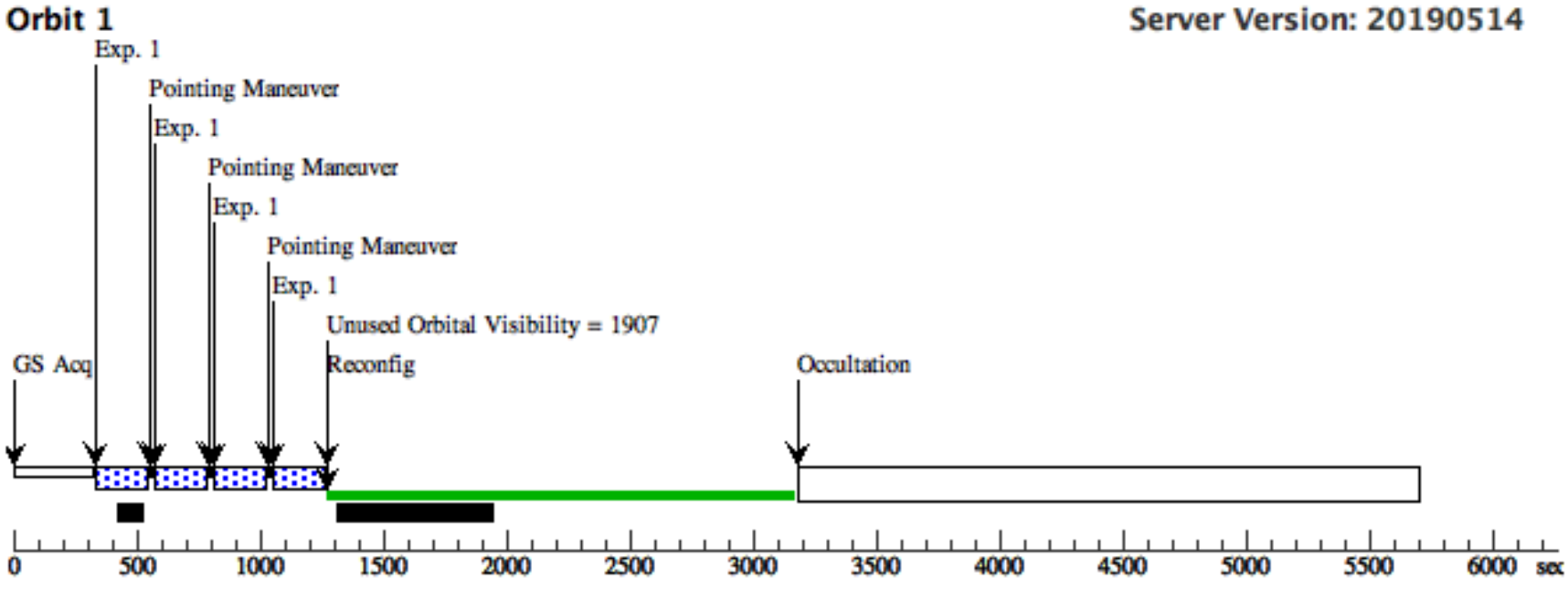
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(148)	HATLASJ000007.4-334059	RA: 00 00 7.4854 (.0311892d) Dec: -33 40 59.73 (-33.68326d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=20.67, m(y)=20.47, m(j)=20.19, m(h)=20.47, m(k)=19.62, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(148) HATLASJ000007.4-334059	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (1W) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (1X), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

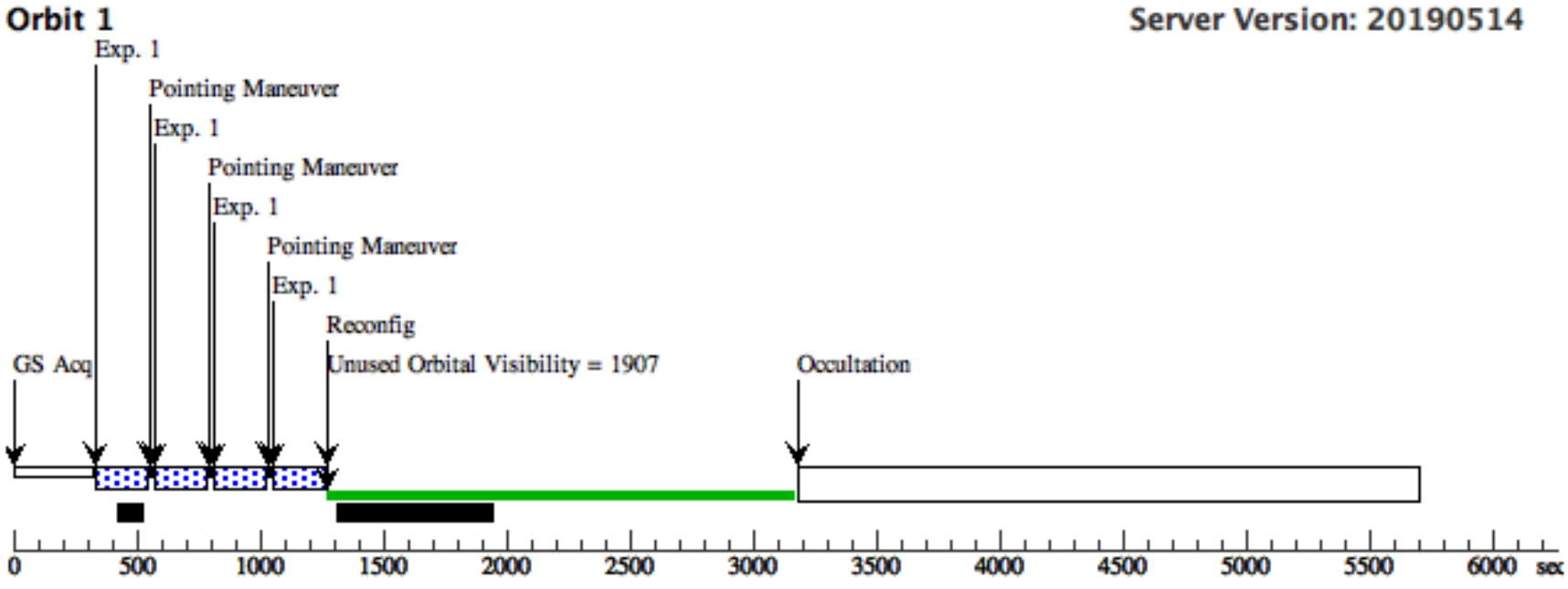
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(149)	HATLASJ005132.8-301848	RA: 00 51 32.8078 (12.8866992d) Dec: -30 18 48.06 (-30.31335d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=18.88	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(149) HATLASJ005132.8-301848	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (1X) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (1Y), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

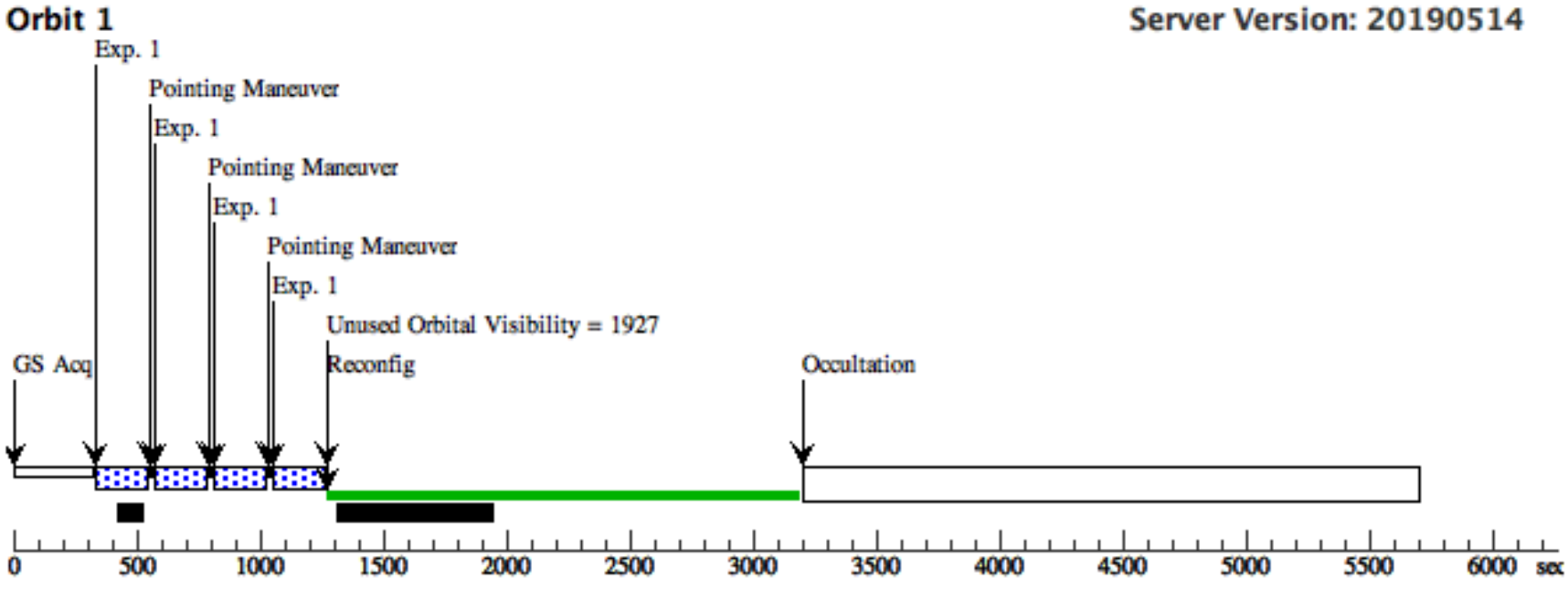
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(150)	HATLASJ000722.1-352014	RA: 00 07 22.1640 (1.8423500d) Dec: -35 20 14.52 (-35.33737d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=17.67	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(150) HATLASJ000722.1-352014	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (1Y) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (2B), implementation Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

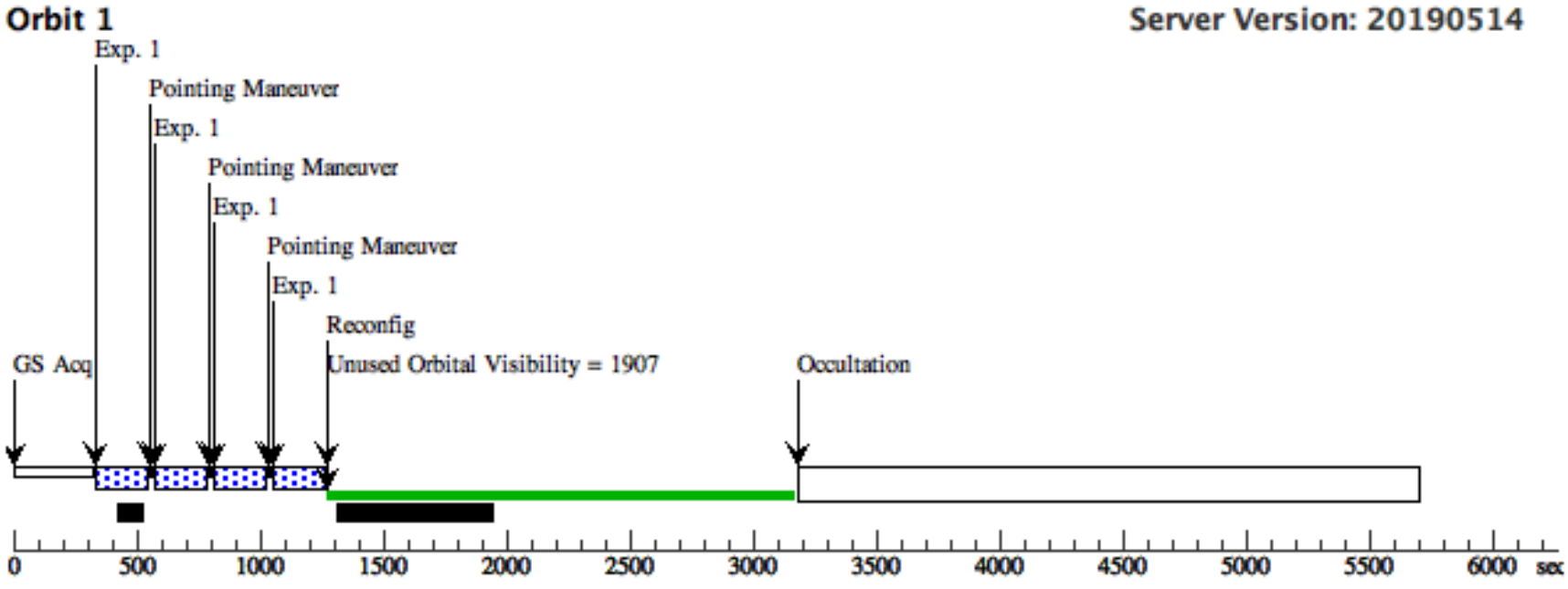
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(153)	HATLASJ004853.2-303109	RA: 00 48 53.2618 (12.2219242d) Dec: -30 31 9.56 (-30.51932d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=20.69, m(y)=20.33, m(j)=20.14, m(h)=20.33, m(k)=19.39, m(w1)=18.34	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(153) HATLASJ004853.2-303109	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (2B) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (2C), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

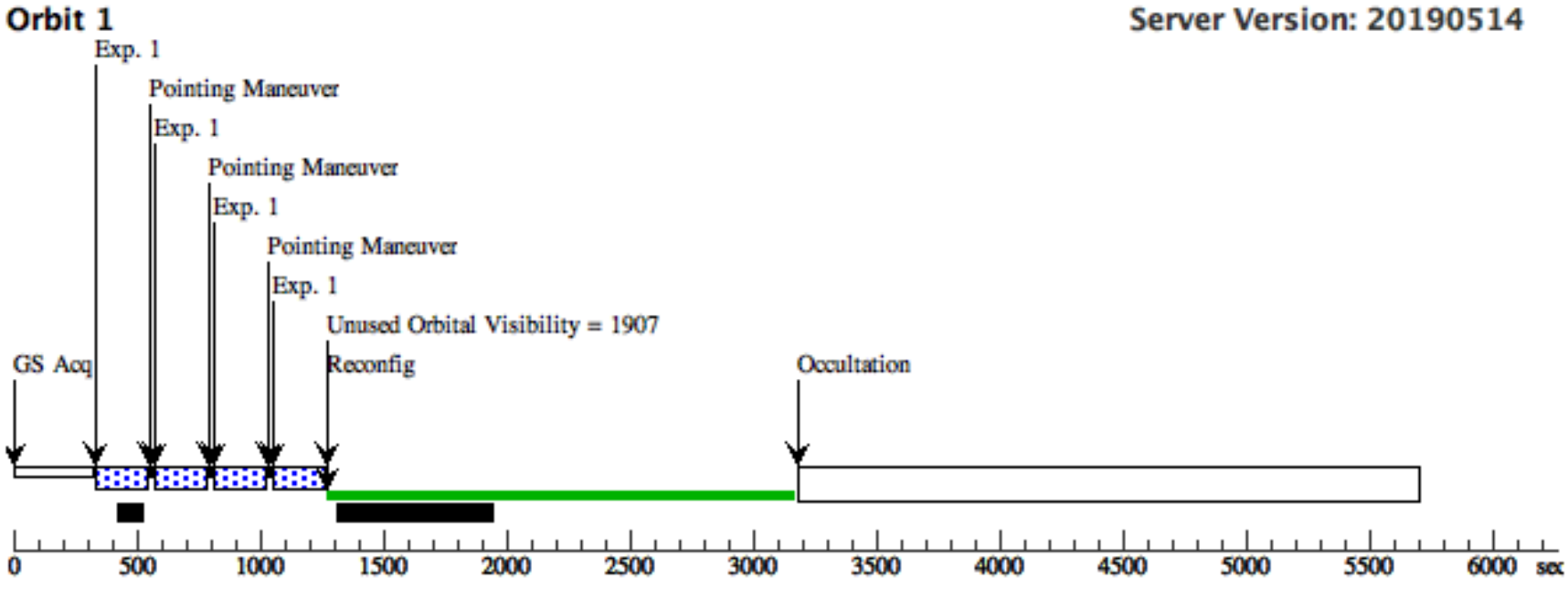
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(154)	HATLASJ005132.0-302011	RA: 00 51 32.0016 (12.8833400d) Dec: -30 20 11.87 (-30.33663d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(154) HATLASJ005132.0-302011	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (2C) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (2E), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

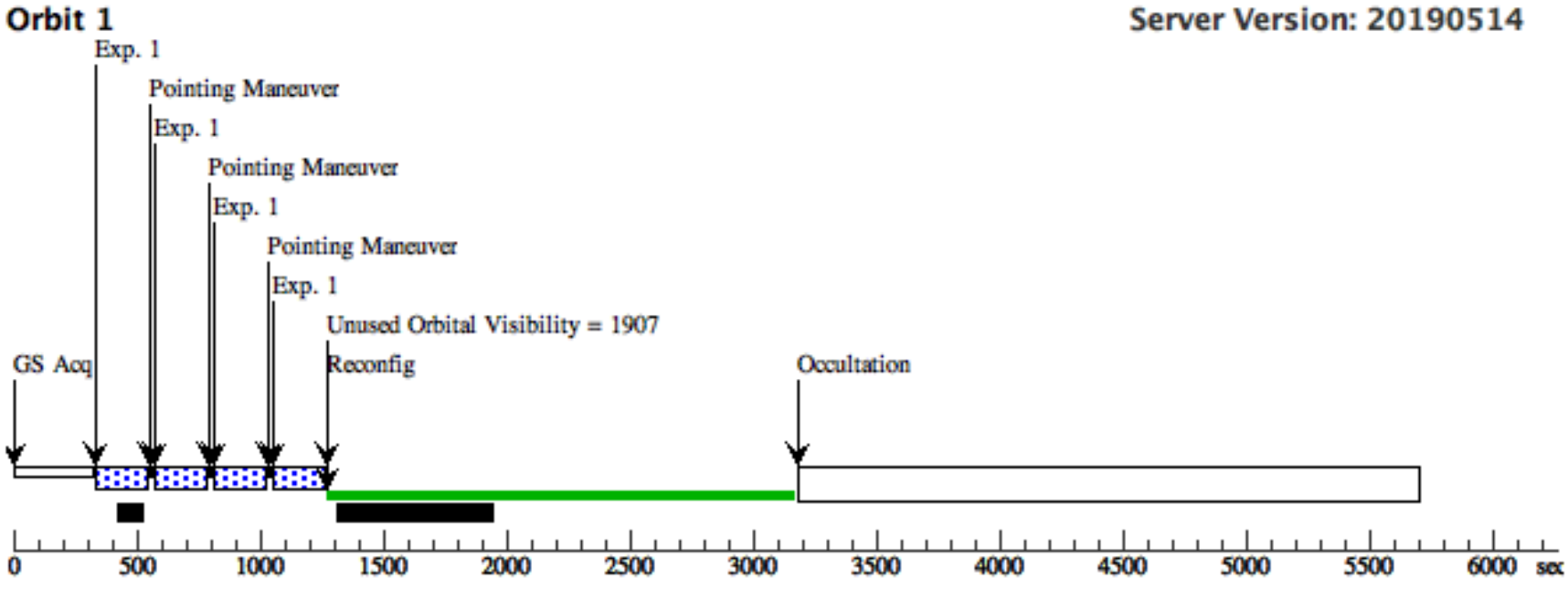
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(156)	HATLASJ013004.1-305513 Alt Name1: HATLASJ013004.0-305513	RA: 01 30 4.0973 (22.5170721d) Dec: -30 55 13.83 (-30.92051d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=19.11	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(156) HATLASJ013004.1-305513	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (2E) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (2F), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

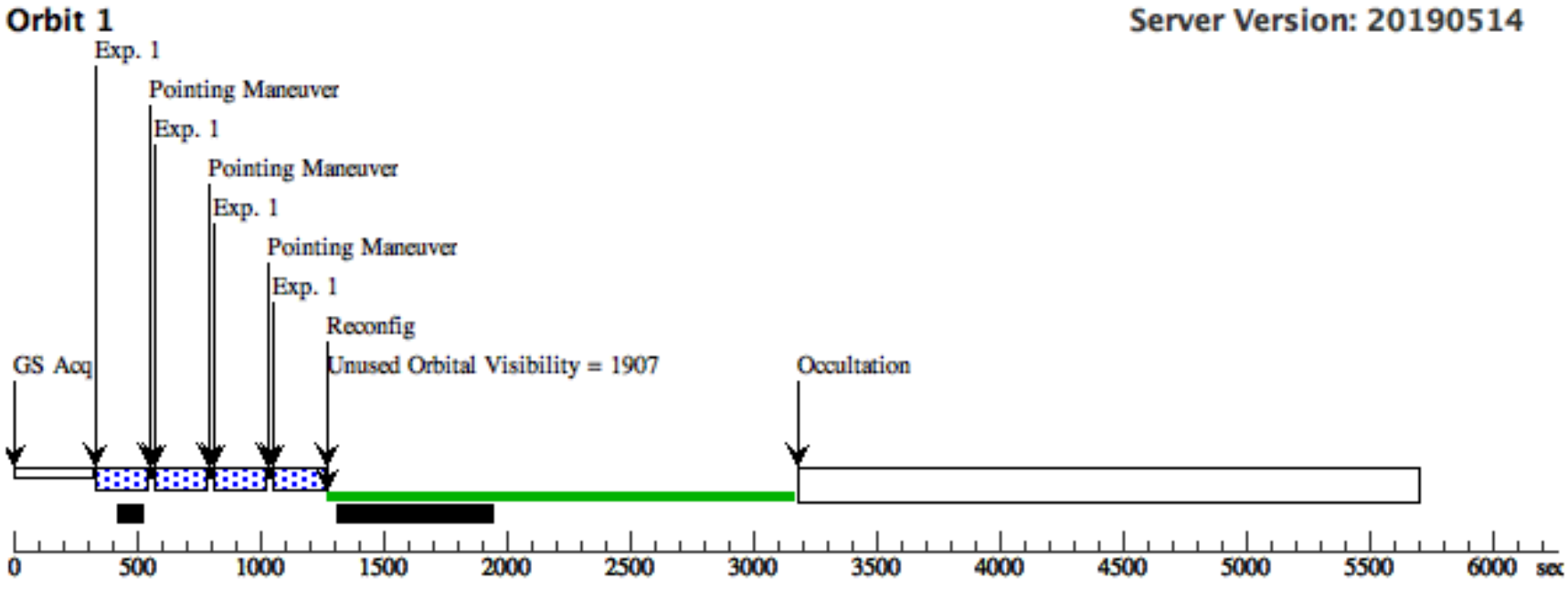
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(157)	HATLASJ012415.9-310500	RA: 01 24 15.9758 (21.0665658d) Dec: -31 05 0.16 (-31.08338d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=20.39, m(y)=20.11, m(j)=19.79, m(h)=20.11, m(k)=18.92, m(w1)=18.35	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(157) HATLASJ012415.9-310500	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (2F) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (2G), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

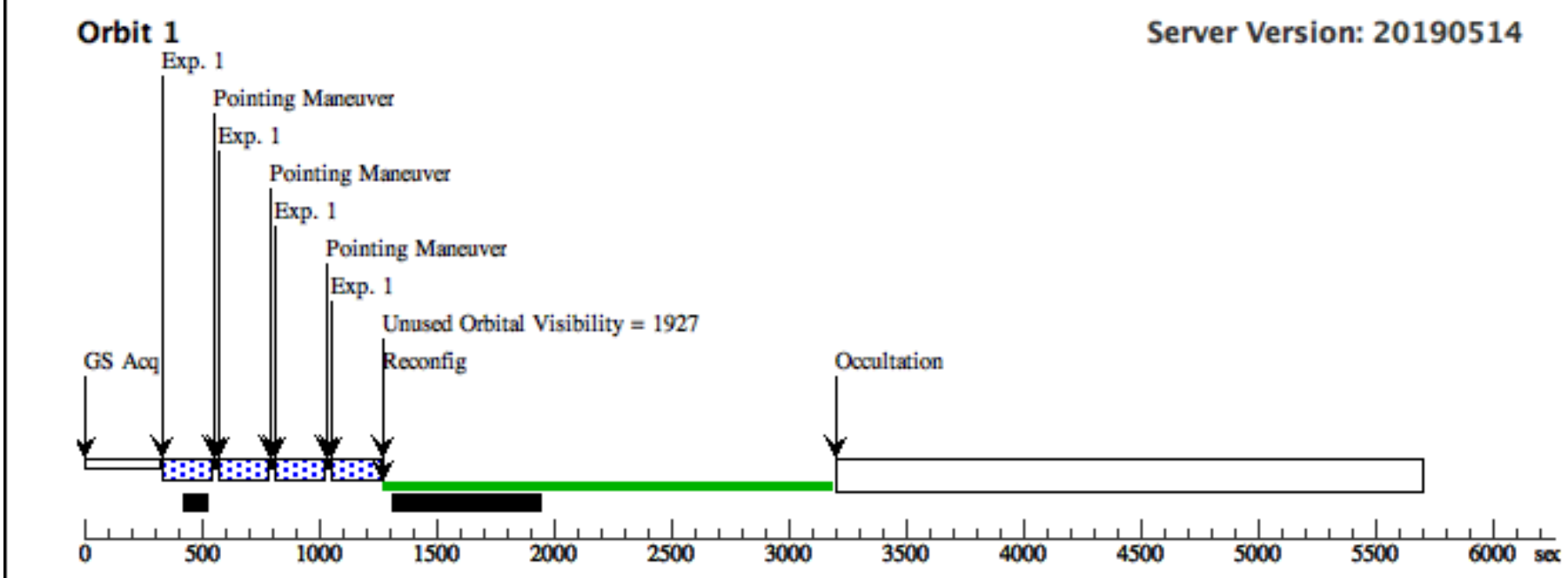
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(158)	HATLASJ235623.0-354118 Alt Name1: HATLASJ255623.0-354118	RA: 23 56 23.0698 (359.0961242d) Dec: -35 41 18.78 (-35.68855d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=20.19	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(158) HATLASJ235623.0-354118	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (2G) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (2H), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

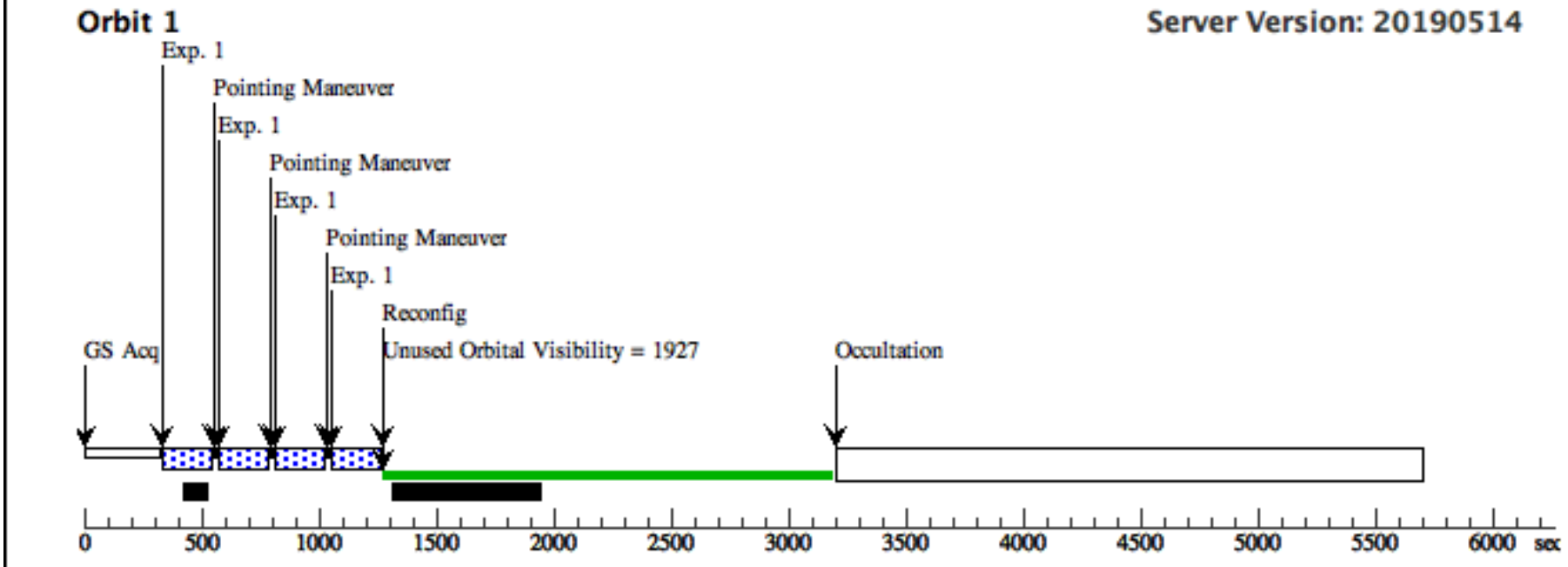
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(159)	HATLASJ000124.9-354212	RA: 00 01 24.8971 (.3537379d) Dec: -35 42 12.05 (-35.70335d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(159) HATLASJ000124.9-354212	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (2H) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (2M), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

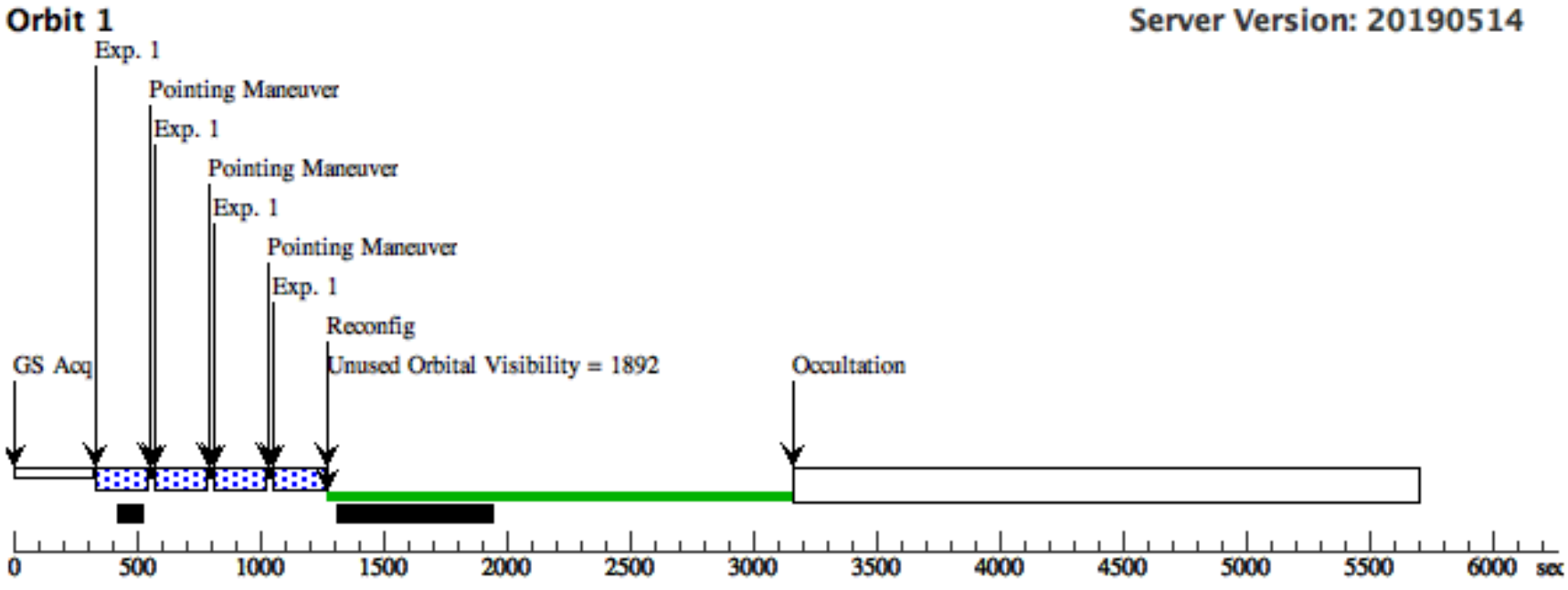
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(164)	HATLASJ011823.7-274403 Alt Name1: HERBS75	RA: 01 18 23.7874 (19.5991142d) Dec: -27 44 3.82 (-27.73439d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(164) HATLASJ011823.7-274403	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (2M) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (2N), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

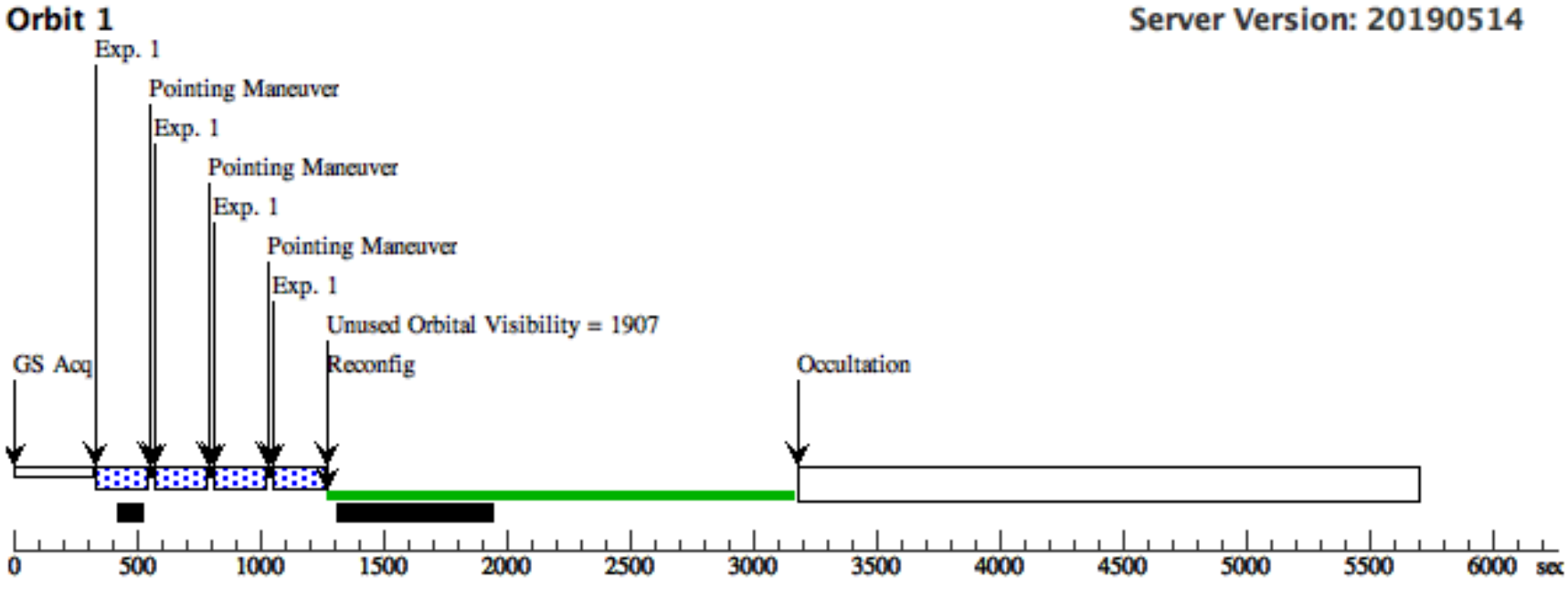
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(165)	HATLASJ005629.6-311206 Alt Name1: HERBS77	RA: 00 56 29.6124 (14.1233850d) Dec: -31 12 6.01 (-31.20167d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(165) HATLASJ005629.6-311206	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (2N) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (2O), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

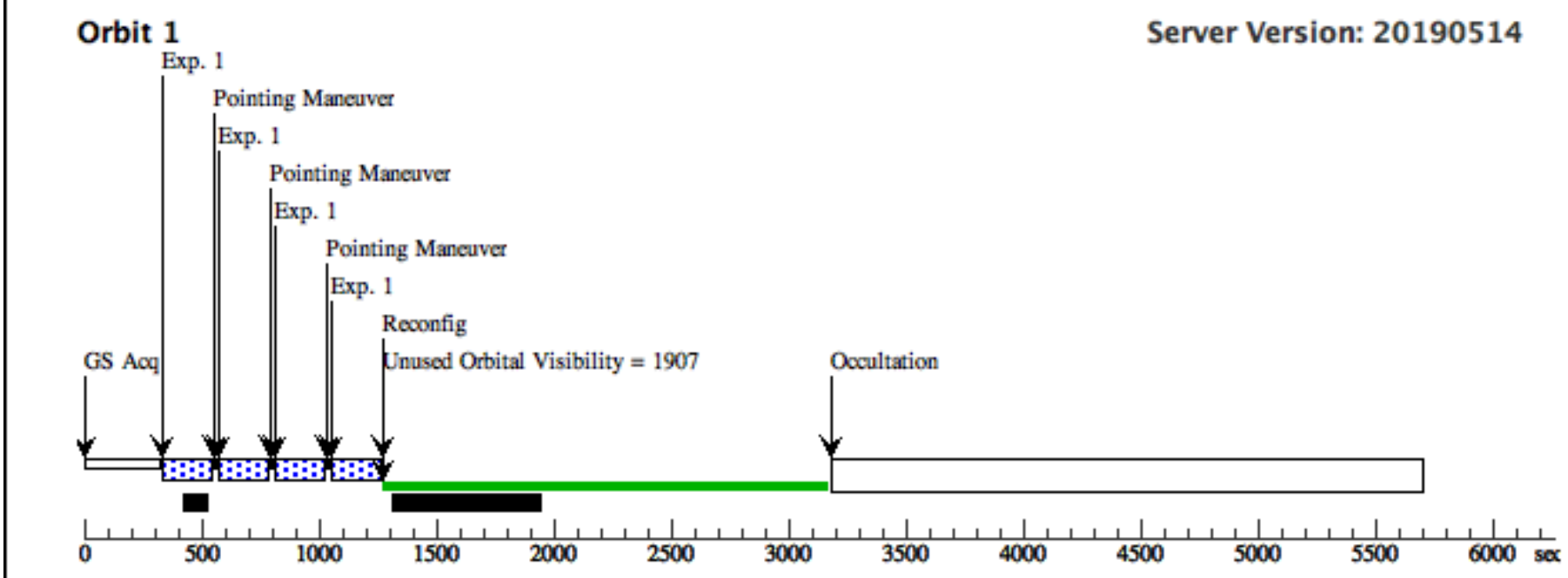
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(166)	HATLASJ002054.5-312752 Alt Name1: HERBS81	RA: 00 20 54.5803 (5.2274179d) Dec: -31 27 52.42 (-31.46456d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=21.62, m(h)=-21.9, m(k)=-21.2, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(166) HATLASJ002054.5-312752	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (2O) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (2Q), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

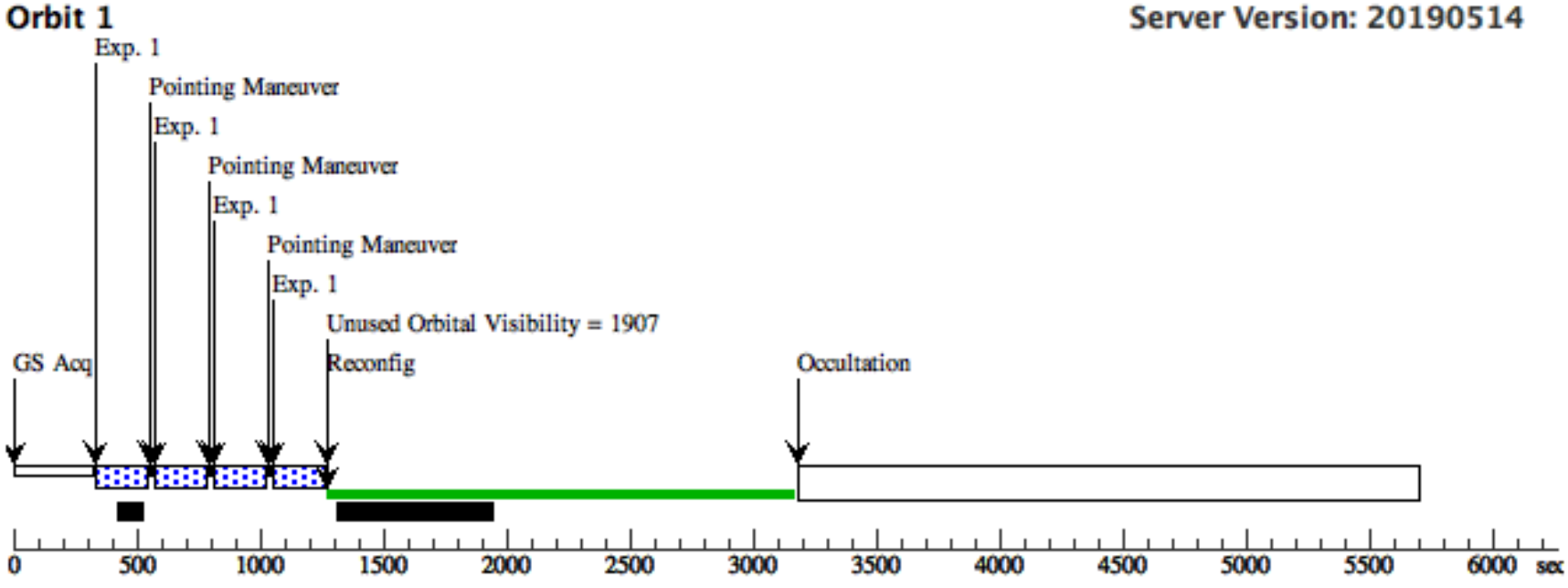
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(168)	HATLASJ235324.6-331110 Alt Name1: HERBS86	RA: 23 53 24.6610 (358.3527542d) Dec: -33 11 10.86 (-33.18635d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=20.16, m(h)=-21.9, m(k)=19.46, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(168) HATLASJ235324.6-331110	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (2Q) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (2R), implementation Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

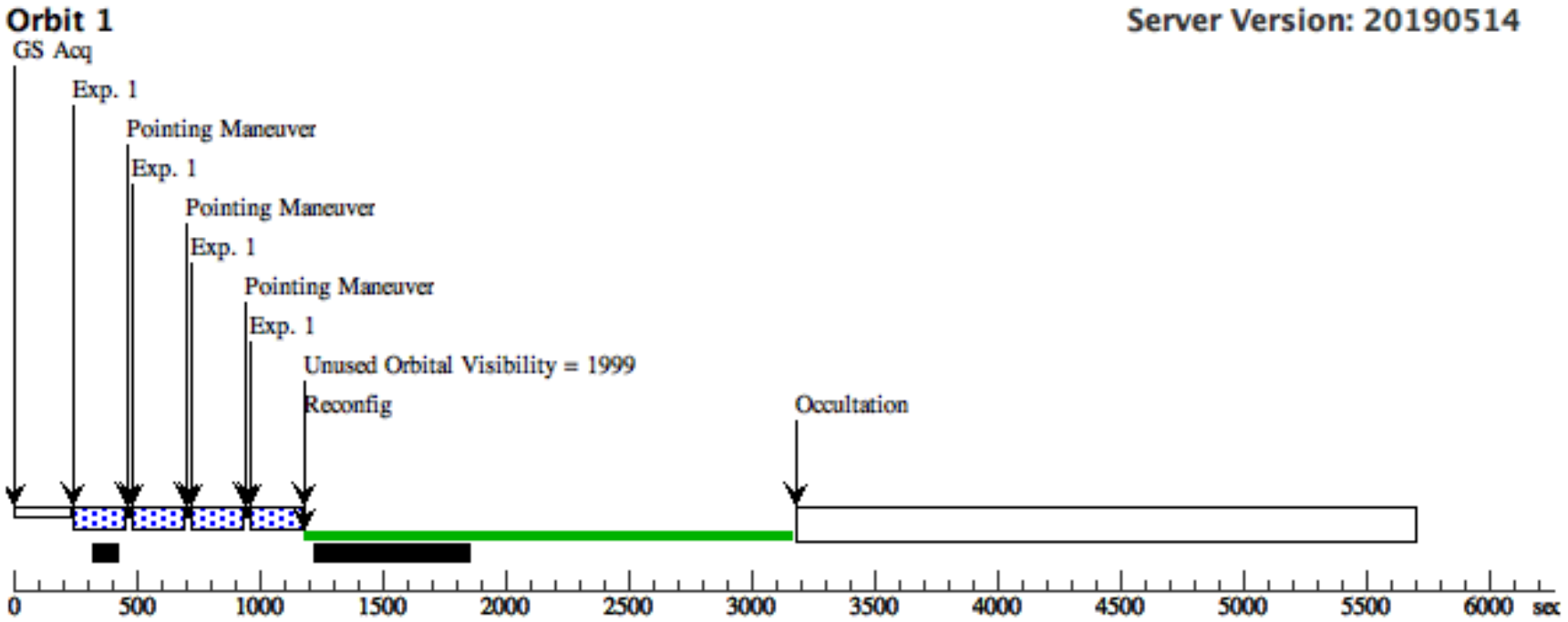
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(169)	HATLASJ002533.5-333825 Alt Name1: HERBS87	RA: 00 25 33.5808 (6.3899200d) Dec: -33 38 25.98 (-33.64055d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=21.97, m(y)=21.72, m(j)=21.29, m(h)=21.72, m(k)=20.33, m(w1)=19.33	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(169) HATLASJ002533.5-333825	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25	GS ACQ SCENARIO SINGLE	Pattern 1, Exps 1-1 in LONG (2R) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (2S), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

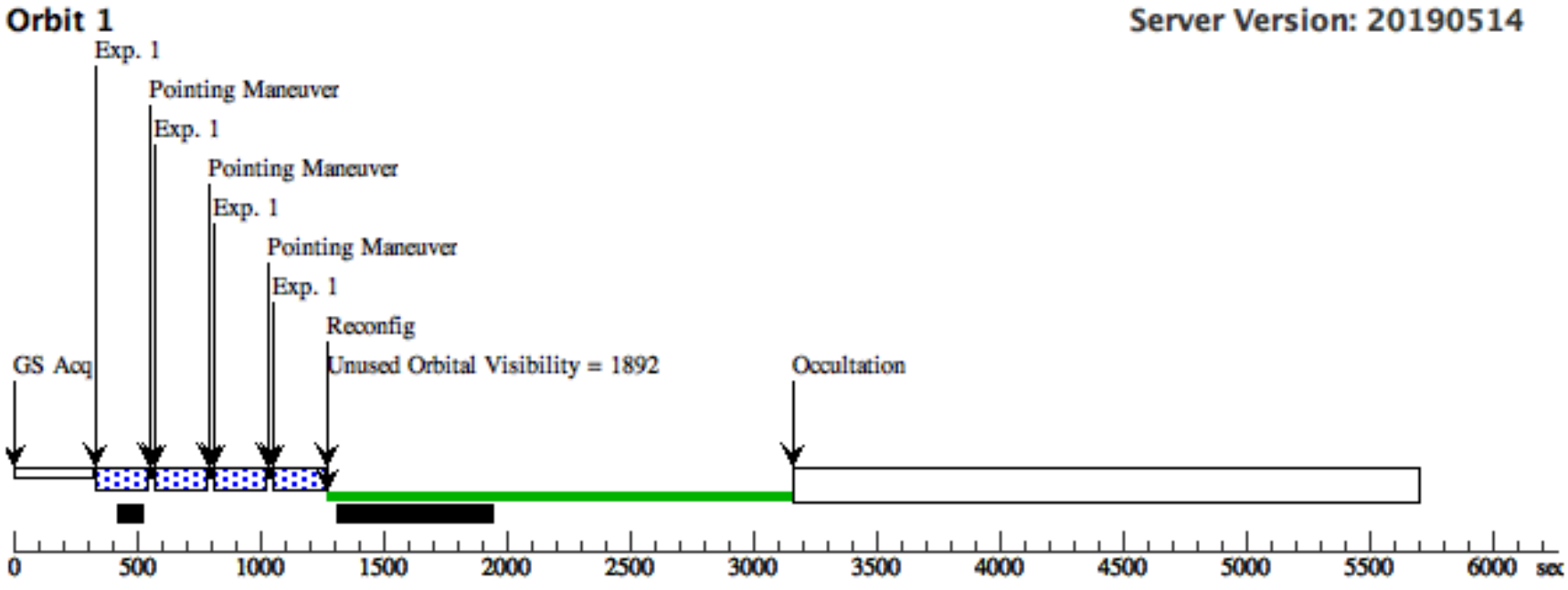
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(170)	HATLASJ005659.3-295038 Alt Name1: HERBS90	RA: 00 56 59.3597 (14.2473321d) Dec: -29 50 38.62 (-29.84406d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=21.21, m(y)=20.80, m(j)=20.34, m(h)=20.80, m(k)=19.53, m(w1)=18.99	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(170) HATLASJ005659.3-295038	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (2S) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (2T), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

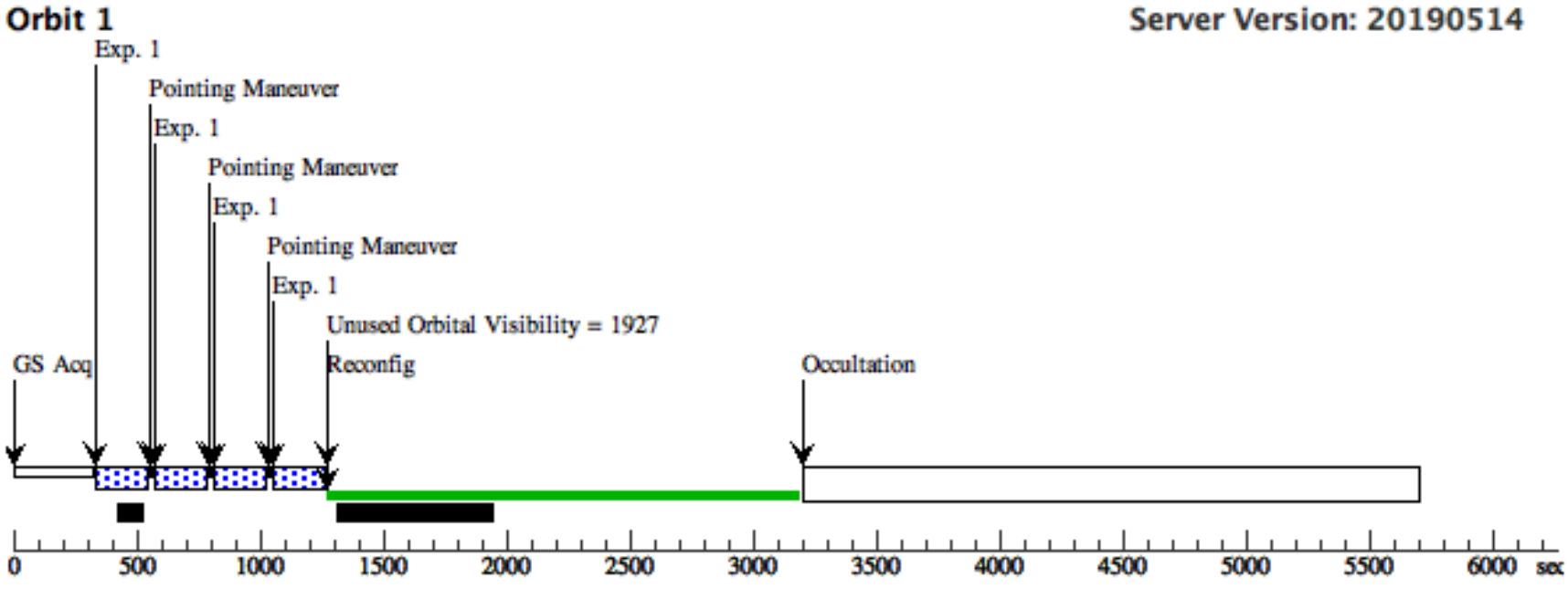
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(171)	HATLASJ234750.5-352931 Alt Name1: HERBS93	RA: 23 47 50.5404 (356.9605850d) Dec: -35 29 31.07 (-35.49196d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=18.22	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(171) HATLASJ234750.5-352931	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (2T) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (2U), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

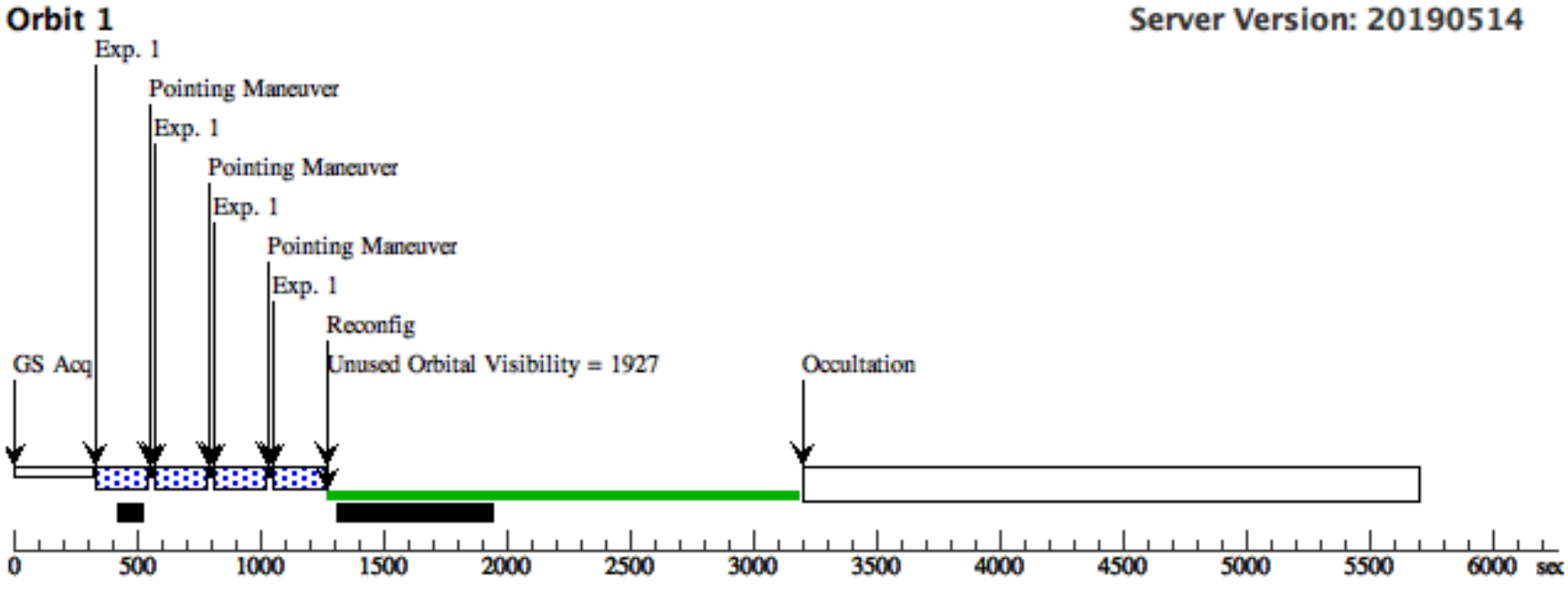
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(172)	HATLASJ000950.5-353828 Alt Name1: HERBS94	RA: 00 09 50.5258 (2.4605242d) Dec: -35 38 28.92 (-35.64137d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(172) HATLASJ000950.5-353828	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (2U) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (2X), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

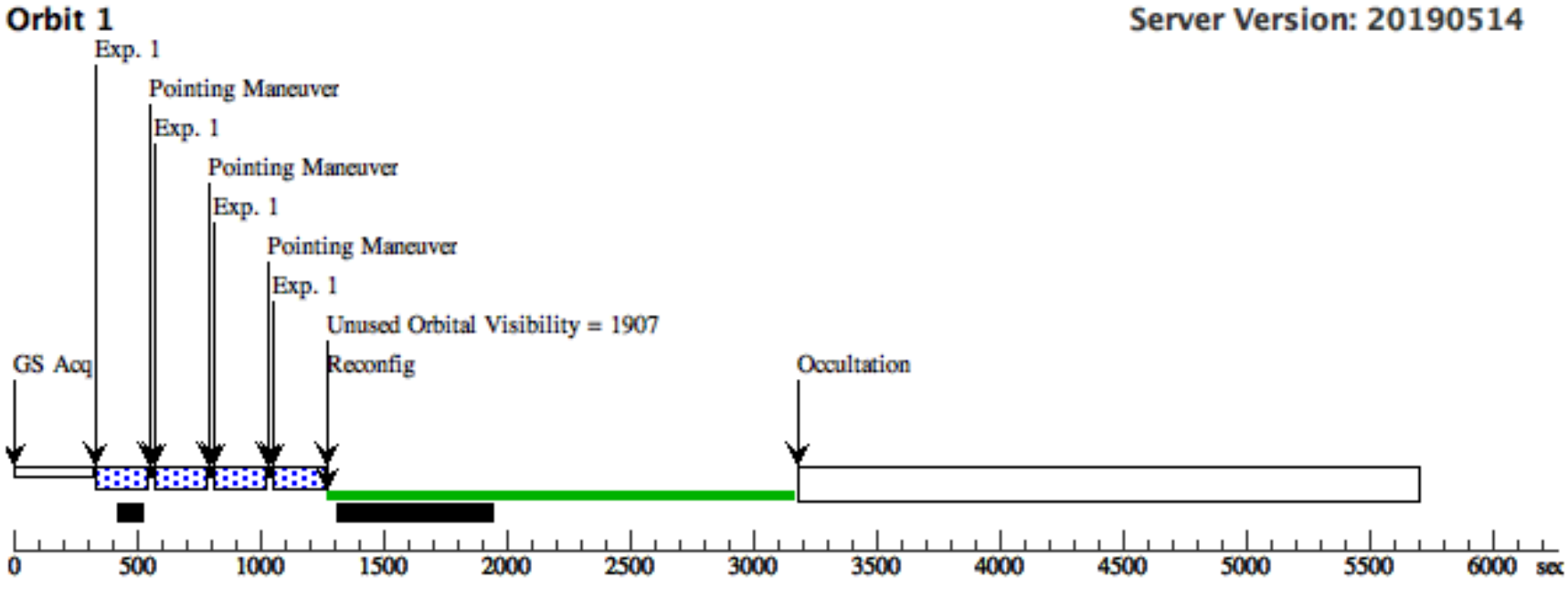
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(175)	HATLASJ011246.4-330610 Alt Name1: HERBS101	RA: 01 12 46.4501 (18.1935421d) Dec: -33 06 10.77 (-33.10299d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(175) HATLASJ011246.4-330610	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (2X) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (2Y), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

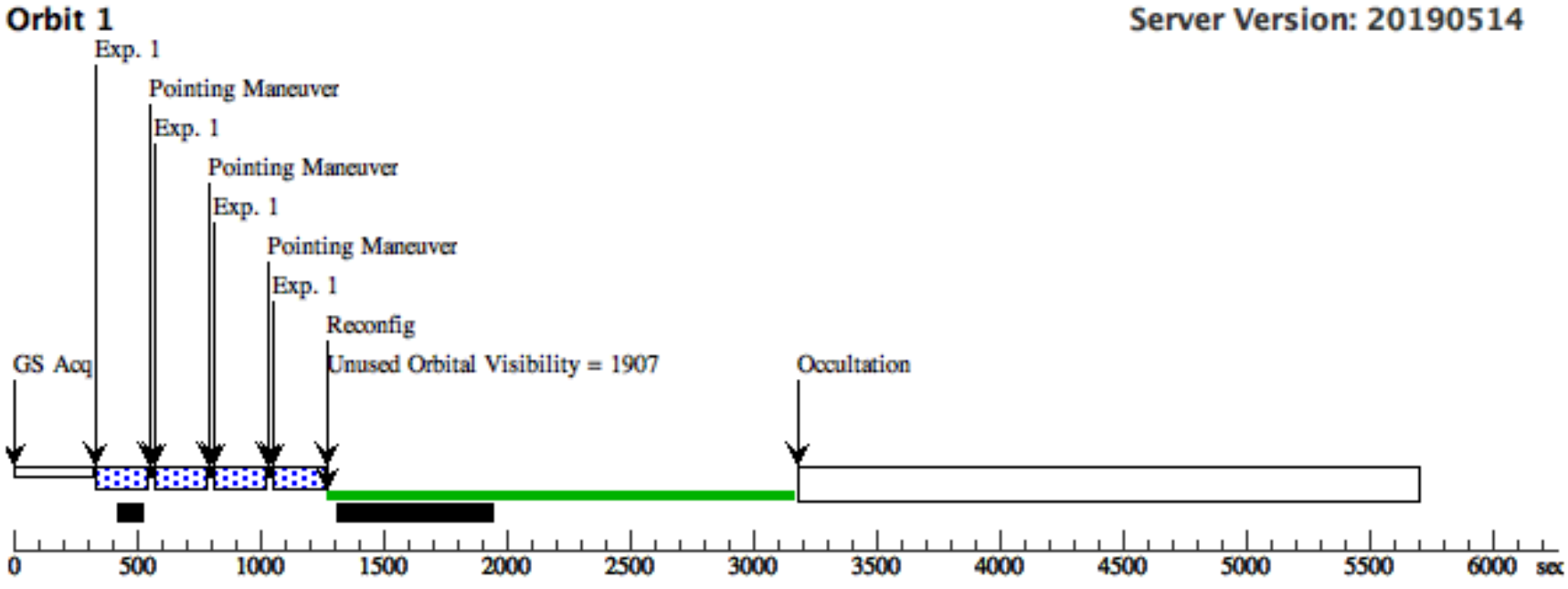
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(176)	HATLASJ233024.1-325031 Alt Name1: HERBS102	RA: 23 30 24.1435 (352.6005979d) Dec: -32 50 31.97 (-32.84221d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(176) HATLASJ233024.1-325031	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (2Y) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (2Z), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

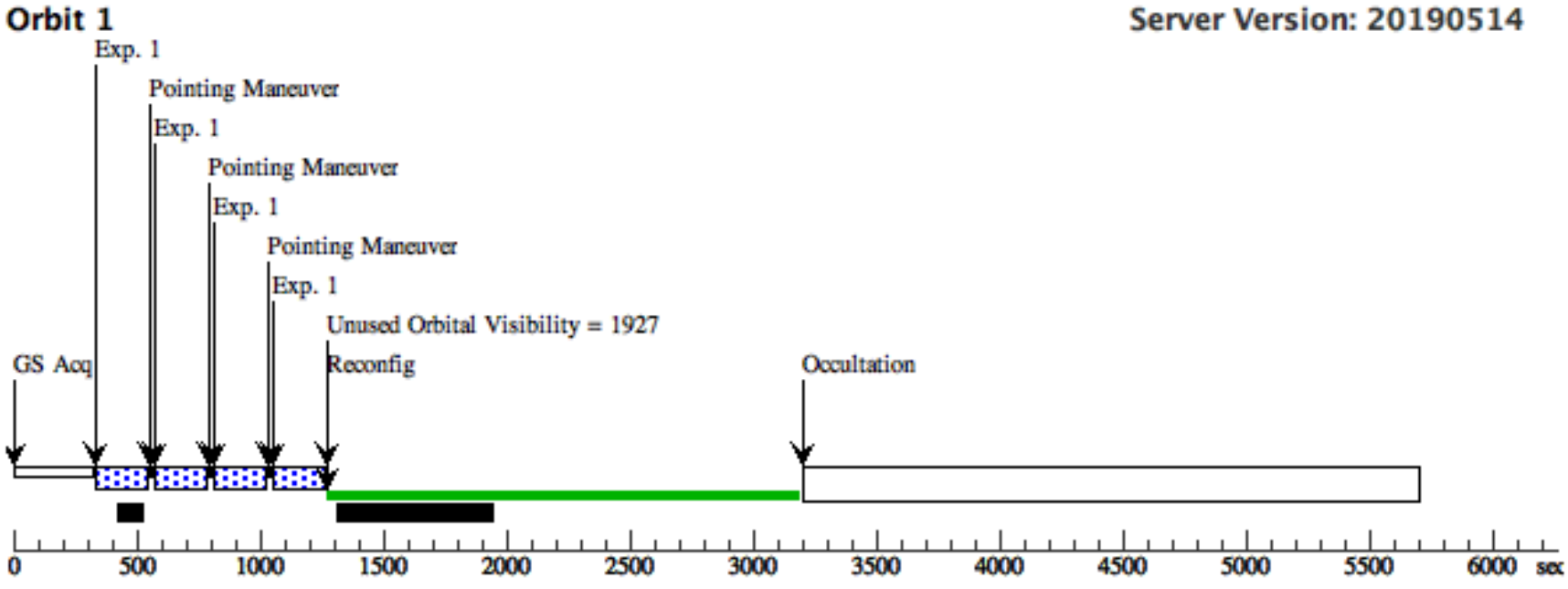
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(177)	HATLASJ001838.7-354132 Alt Name1: HERBS104	RA: 00 18 38.7048 (4.6612700d) Dec: -35 41 32.94 (-35.69248d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=18.46	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(177) HATLASJ001838.7-354132	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (2Z) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (3A), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

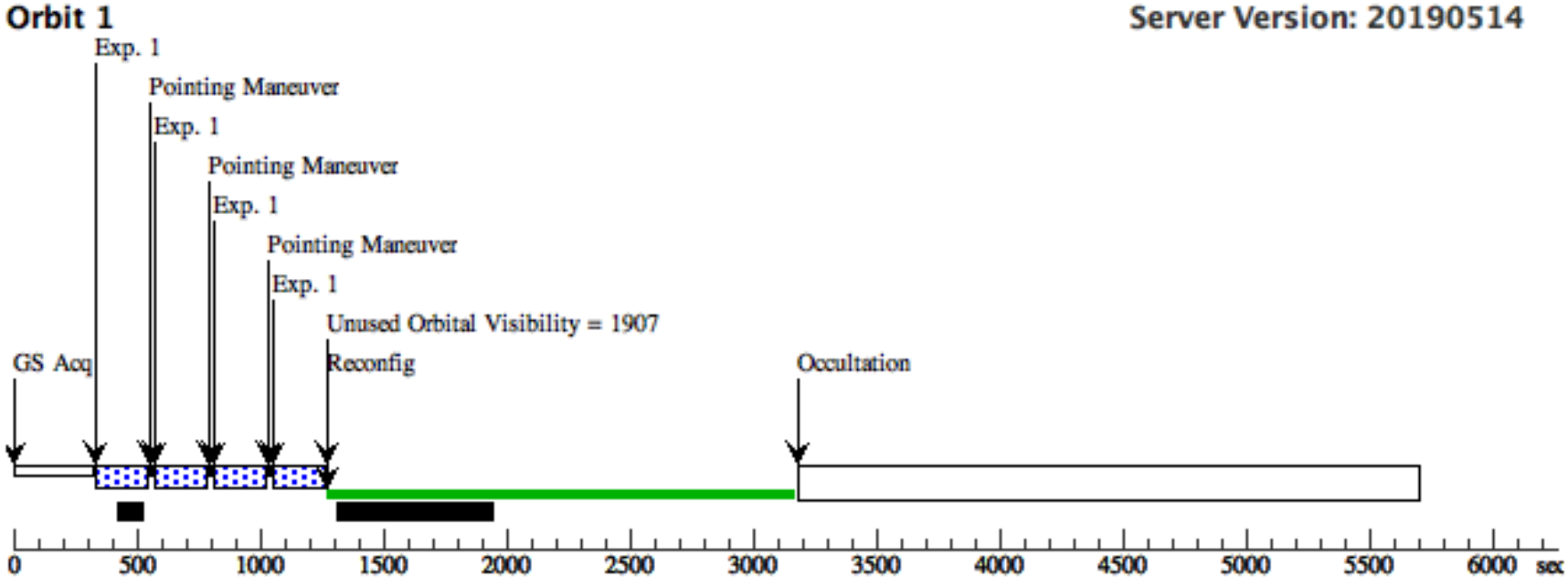
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(178)	HATLASJ001802.1-313504 Alt Name1: HERBS106	RA: 00 18 2.1614 (4.5090058d) Dec: -31 35 4.76 (-31.58466d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=19.86, m(j)=19.76, m(h)=19.86, m(k)=19.08, m(w1)=17.98	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(178) HATLASJ001802.1-313504	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (3A) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (3D), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

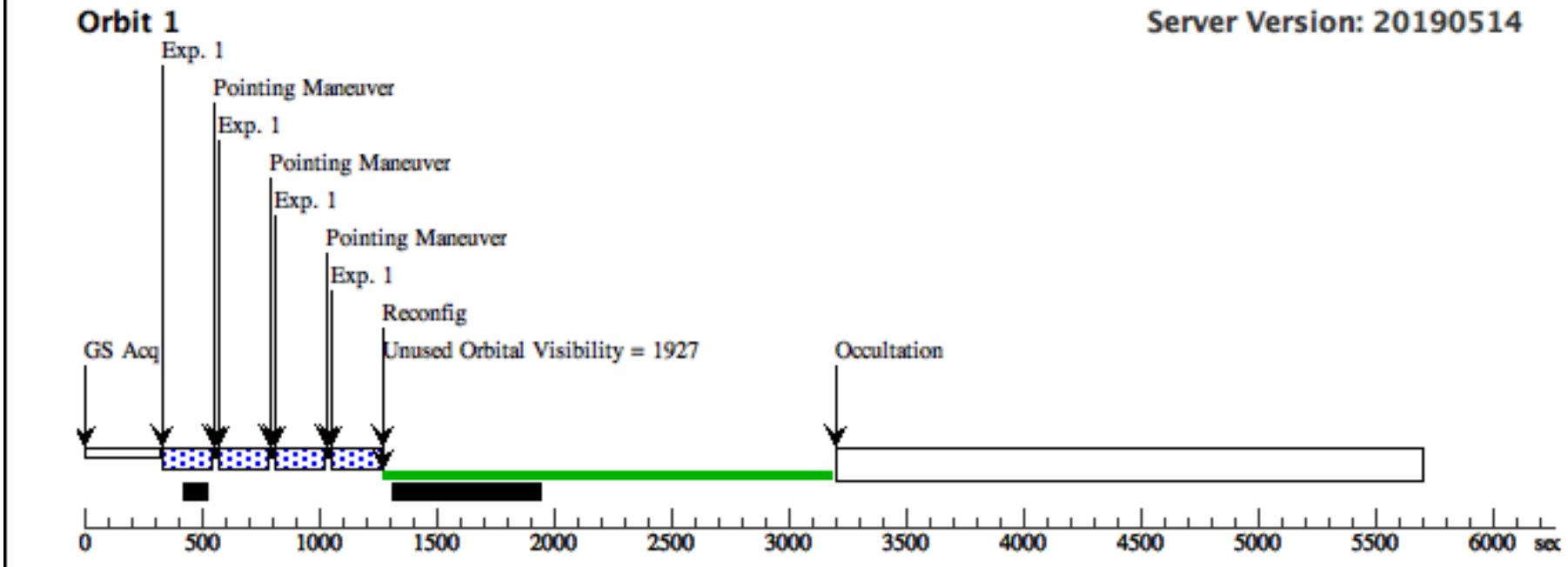
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(181)	HATLASJ000806.8-351204 Alt Name1: HERBS117	RA: 00 08 6.8030 (2.0283458d) Dec: -35 12 4.96 (-35.20138d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(181) HATLASJ000806.8-351204	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (3D) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (3F), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

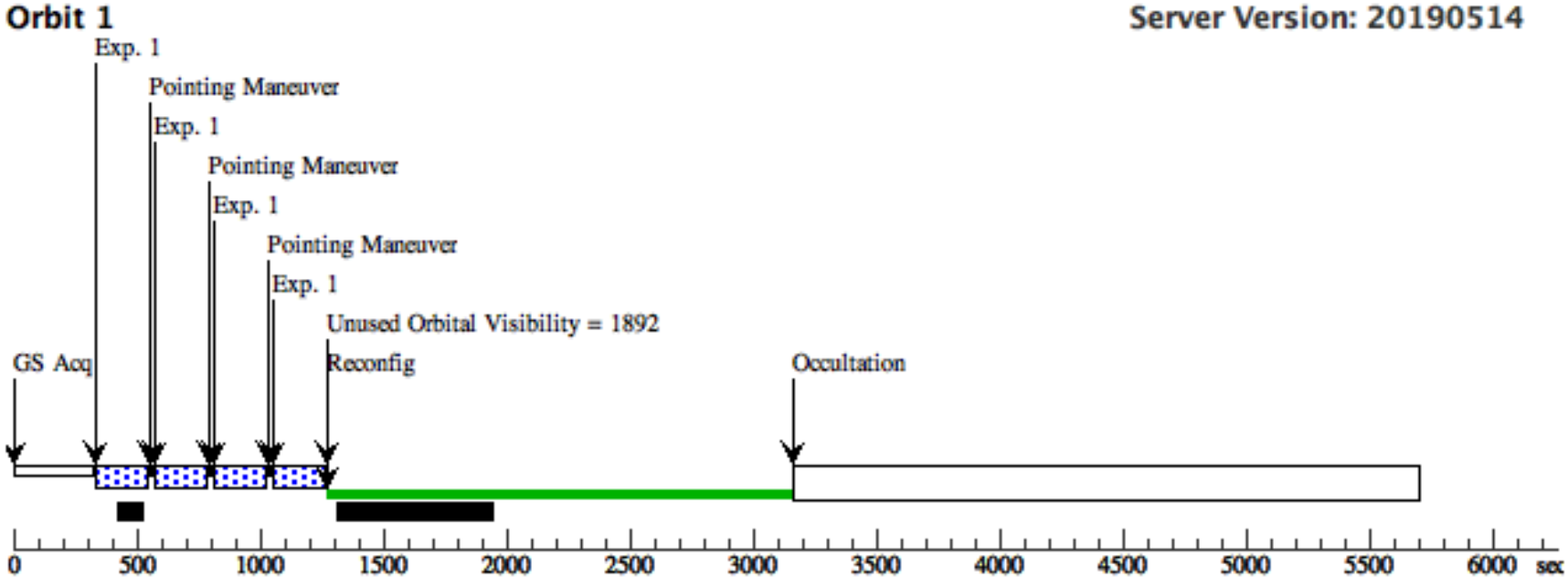
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(183)	HATLASJ012222.3-274456 Alt Name1: HERBS120	RA: 01 22 22.3246 (20.5930192d) Dec: -27 44 56.46 (-27.74902d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(183) HATLASJ012222.3-274456	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (3F) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (3G), scheduling Wed Oct 09 16:01:39 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

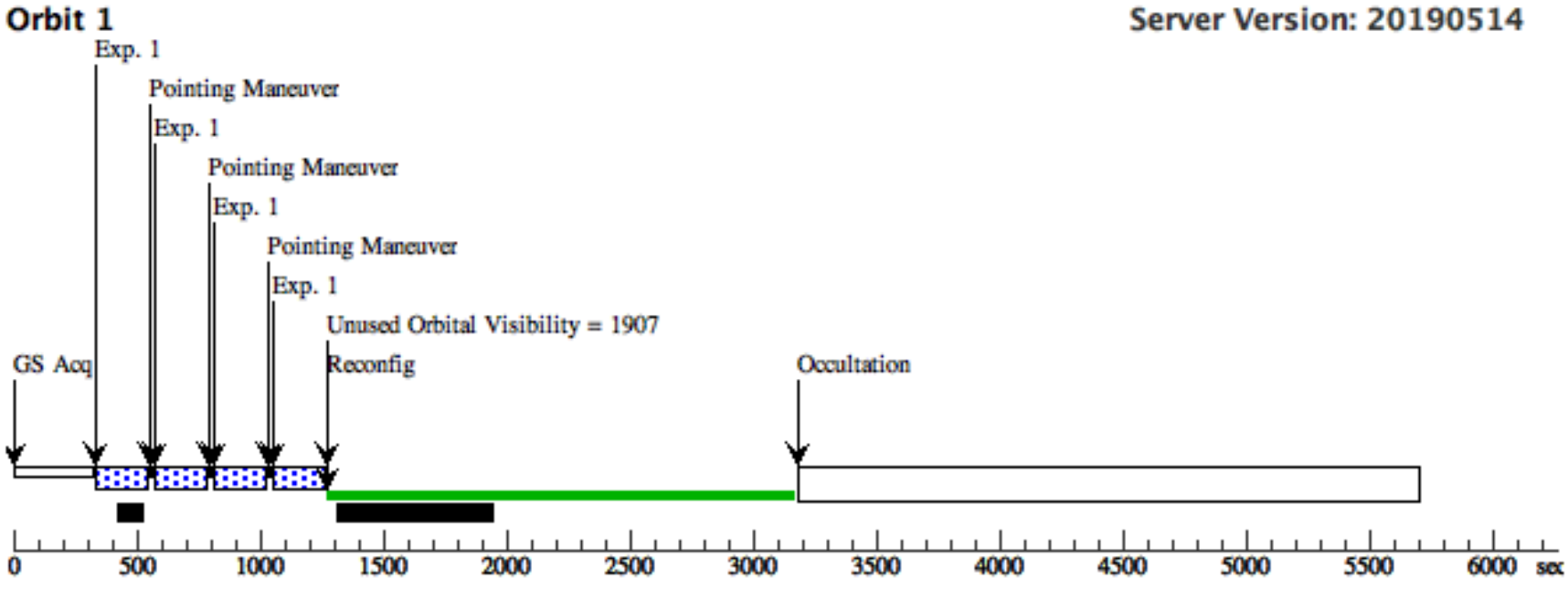
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(184)	HATLASJ003717.0-323306 Alt Name1: HERBS122	RA: 00 37 16.9985 (9.3208271d) Dec: -32 33 6.70 (-32.55186d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=23.36, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=21.47, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(184) HATLASJ003717.0-323306	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (3G) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (3H), implementation Wed Oct 09 16:01:40 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

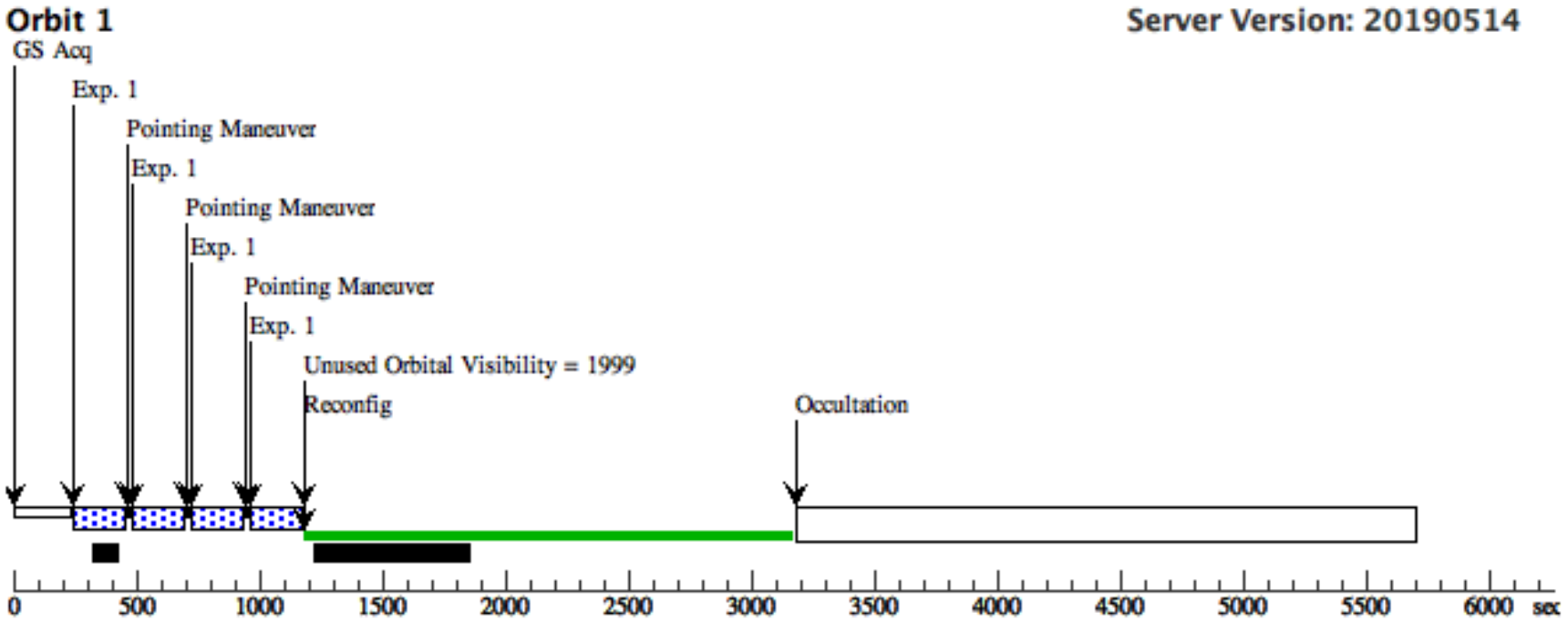
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(185)	HATLASJ225339.1-325549 Alt Name1: HERBS131	RA: 22 53 39.1294 (343.4130392d) Dec: -32 55 49.71 (-32.93048d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(185) HATLASJ225339.1-325549	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25	GS ACQ SCENARIO SINGLE	Pattern 1, Exps 1-1 in LONG (3H) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (3K), scheduling Wed Oct 09 16:01:40 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

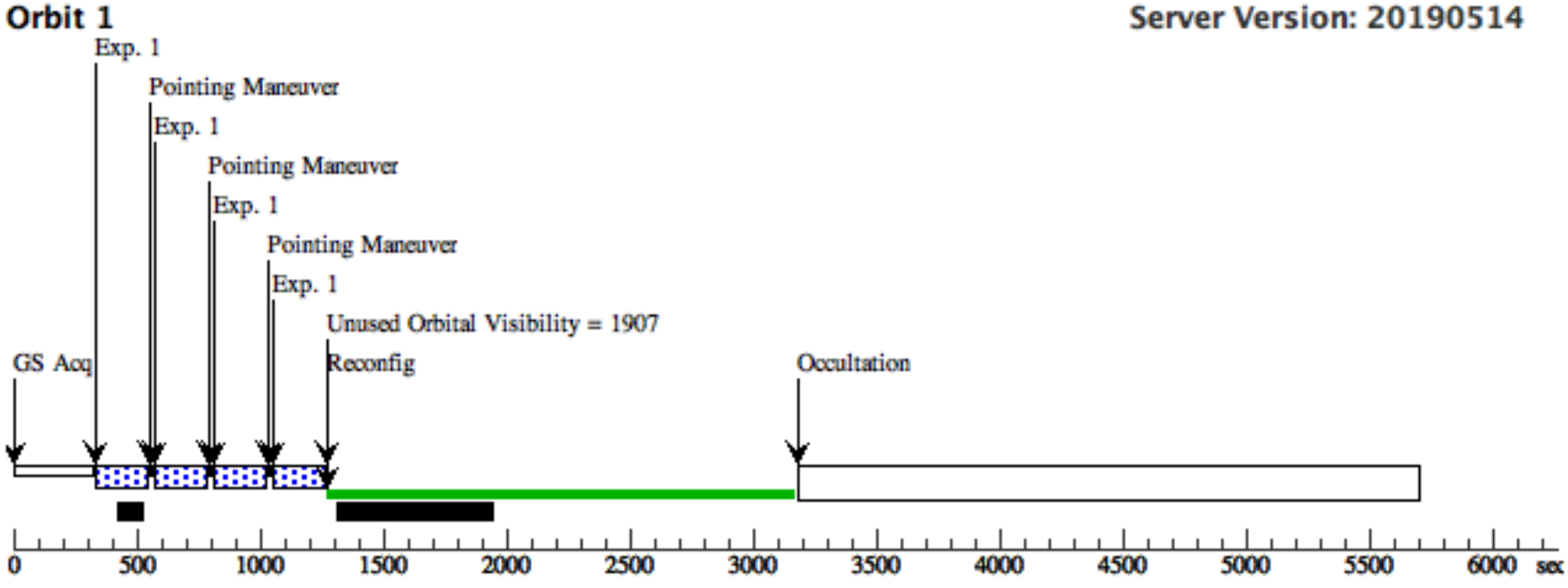
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(188)	HATLASJ011730.3-320719 Alt Name1: HERBS138	RA: 01 17 30.3252 (19.3763550d) Dec: -32 07 19.37 (-32.12205d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(188) HATLASJ011730.3-320719	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (3K) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (3M), scheduling Wed Oct 09 16:01:40 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

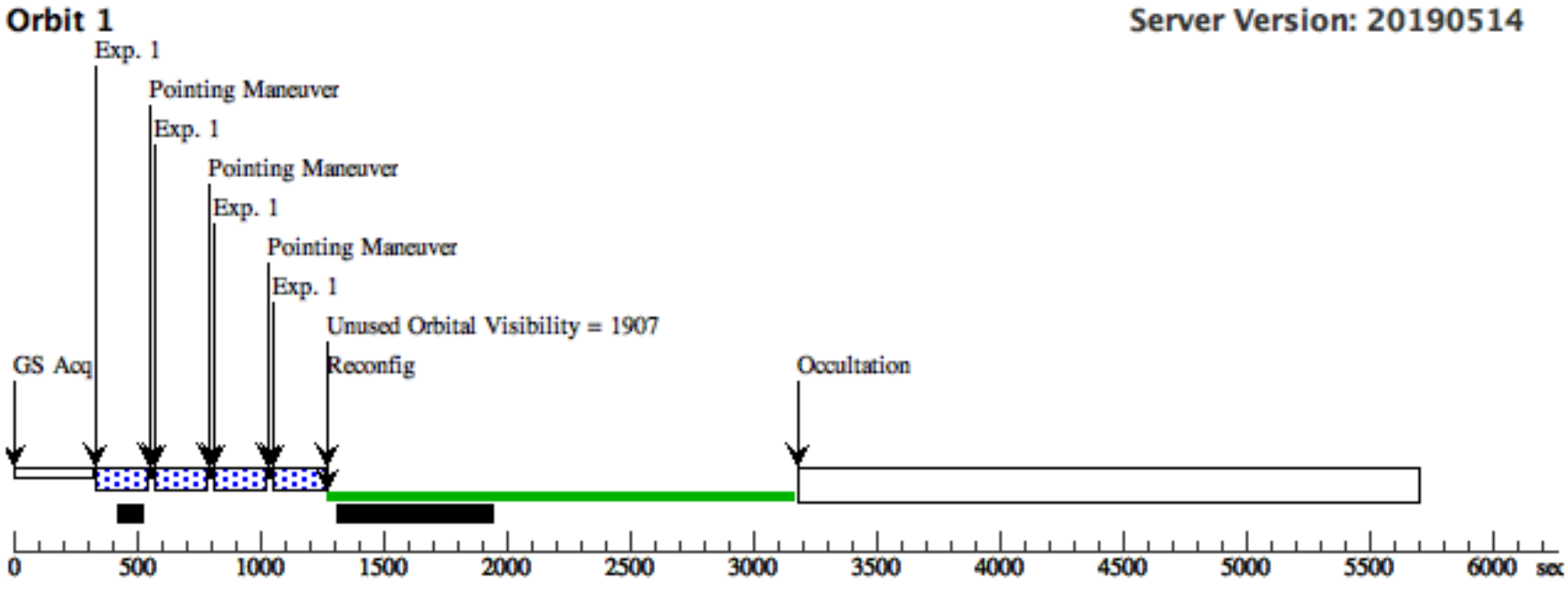
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(190)	HATLASJ012530.5-302509 Alt Name1: HERBS151	RA: 01 25 30.5309 (21.3772121d) Dec: -30 25 9.00 (-30.41917d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(190) HATLASJ012530.5-302509	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (3M) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (3P), scheduling Wed Oct 09 16:01:40 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

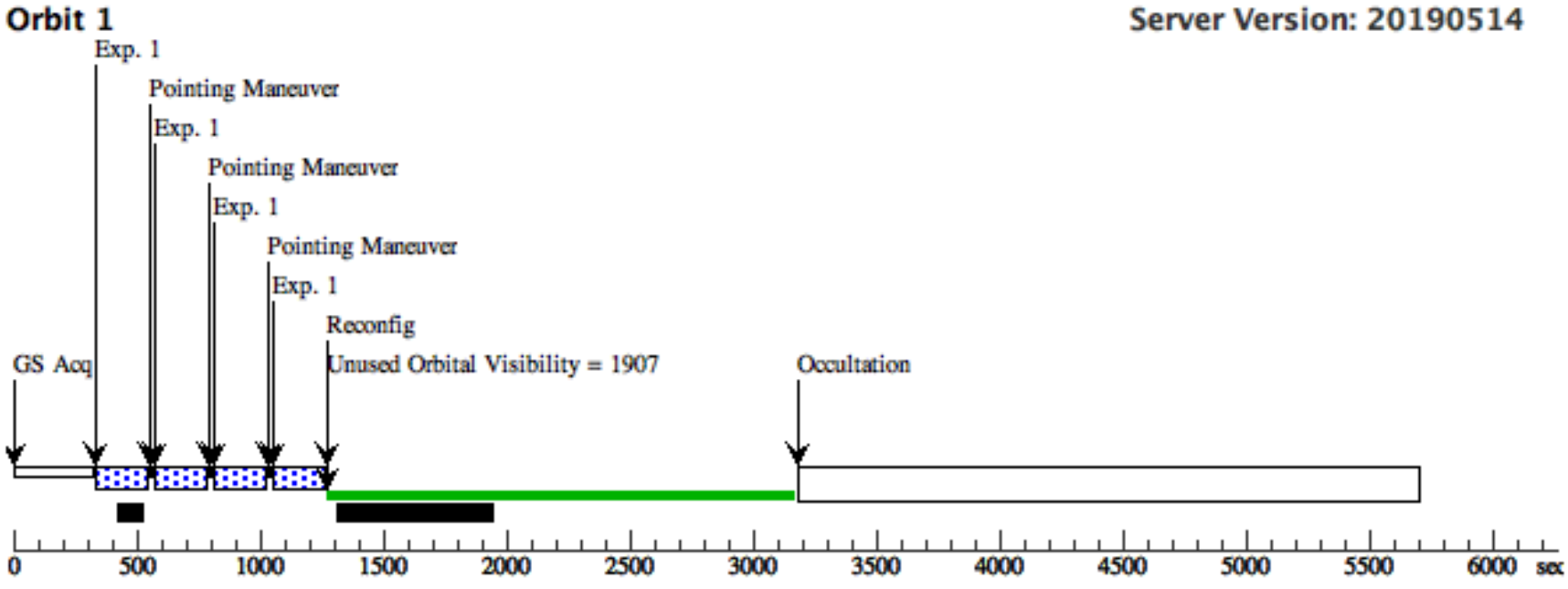
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(193)	HATLASJ000745.8-342014 Alt Name1: HERBS163	RA: 00 07 45.8378 (1.9409908d) Dec: -34 20 14.46 (-34.33735d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=20.96, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(193) HATLASJ000745.8-342014	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (3P) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (3S), scheduling Wed Oct 09 16:01:40 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

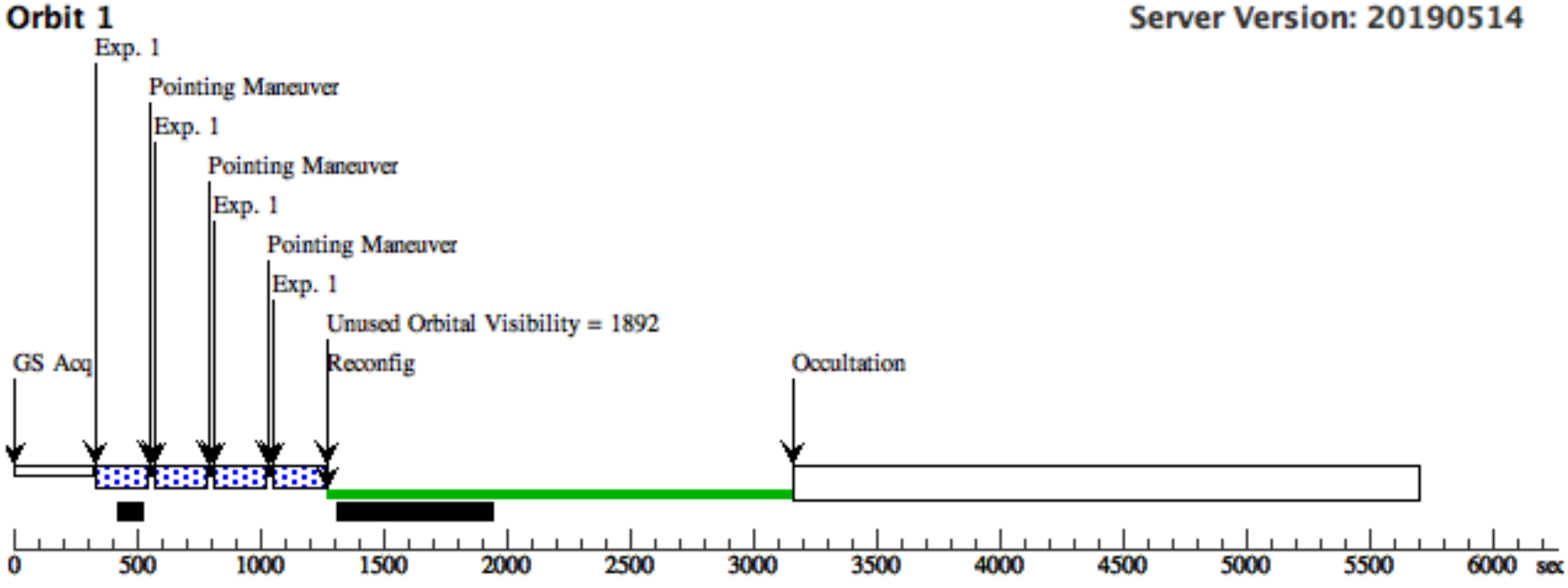
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(196)	HATLASJ011850.0-283642 Alt Name1: HERBS178	RA: 01 18 50.0938 (19.7087242d) Dec: -28 36 42.44 (-28.61179d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=21.23, m(w1)=18.99	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(196) HATLASJ011850.0-283642	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (3S) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (3T), scheduling Wed Oct 09 16:01:40 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

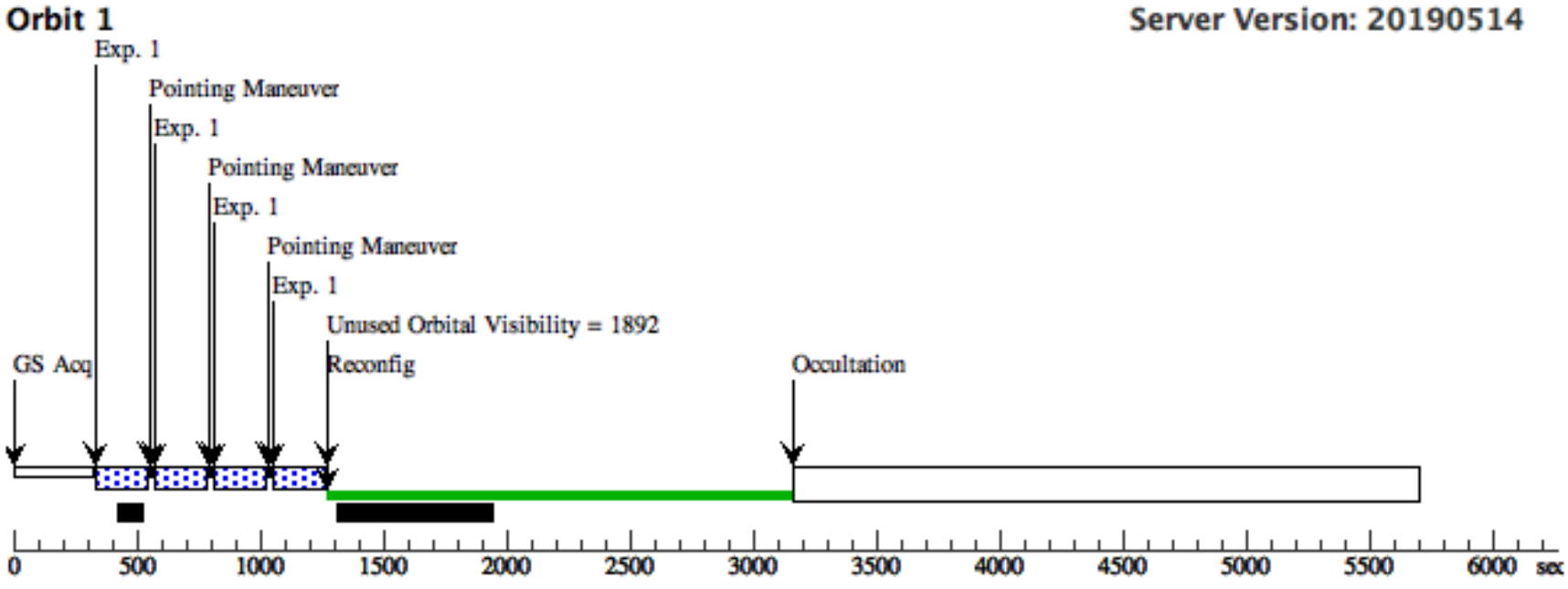
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(197)	HATLASJ005849.9-290122 Alt Name1: HERBS181	RA: 00 58 49.9594 (14.7081642d) Dec: -29 01 22.32 (-29.02287d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=21.48, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(197) HATLASJ005849.9-290122	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (3T) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (3U), scheduling Wed Oct 09 16:01:40 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

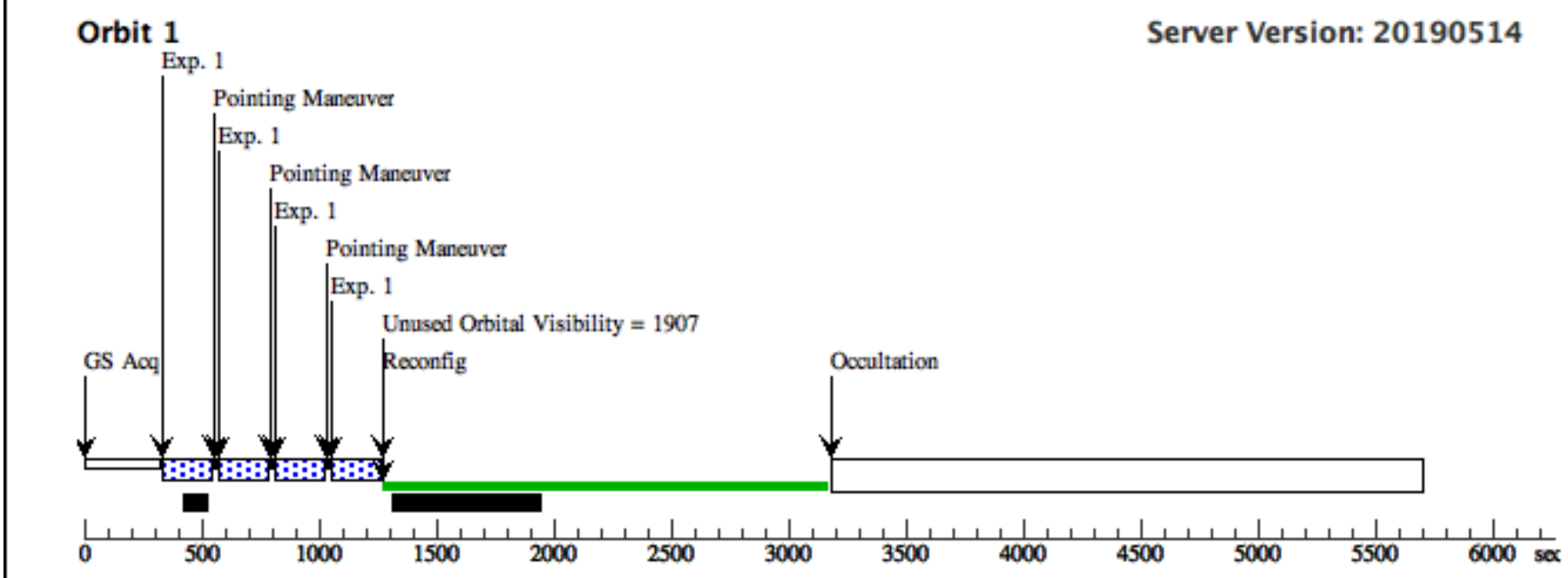
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(198)	HATLASJ230538.5-312204 Alt Name1: HERBS182	RA: 23 05 38.5334 (346.4105558d) Dec: -31 22 4.05 (-31.36779d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=-19.8	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(198) HATLASJ230538.5-312204	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (3U) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16015, LONG (3W), scheduling Wed Oct 09 16:01:40 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(200)	HATLASJ013216.9-320952 Alt Name1: HERBS186	RA: 01 32 16.9939 (23.0708079d) Dec: -32 09 52.80 (-32.16467d) Equinox: J2000		V=(?) m(r)=-25.2, m(z)=-22.6, m(y)=-21.9, m(j)=-20.8, m(h)=-21.9, m(k)=-21.2, m(w1)=20.49	Reference Frame: Other

Comments: All magnitudes are in AB. Upper limits are indicated by negative magnitudes.
Category=GALAXY
Description=[GRAVITATIONAL LENS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(200) HATLASJ013216.9-320952	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=8; SAMP-SEQ=SPARS25		Pattern 1, Exps 1-1 in LONG (3W) (1)	177.935896 Secs (711.744 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure