15133 - Solving the Mystery of Galaxy Bulges and Bulge Substructure

Cycle: 25, Proposal Category: GO

(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?*
01	(1) NGC0289	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:00:34.0	yes
02	(2) NGC0613	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:00:36.0	yes
56	(2) NGC0613	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:00:37.0	yes
03	(3) NGC1079	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:00:39.0	yes
04	(4) NGC1097	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:00:40.0	yes
05	(5) NGC1201	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:00:42.0	yes
06	(6) NGC1300	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:00:43.0	yes
07	(7) NGC1367	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:00:45.0	yes
08	(8) NGC1440	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:00:47.0	yes
09	(9) IC2051	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:00:48.0	yes
10	(10) NGC1553	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:00:50.0	yes
11	(11) NGC1566	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:00:51.0	yes
12	(12) NGC2775	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:00:52.0	yes
13	(13) NGC3351	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:00:54.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
14	(14) NGC3368	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:00:55.0	yes
15	(15) NGC3412	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:00:57.0	yes
16	(16) NGC3489	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:00:58.0	yes
17	(17) NGC3626	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:00.0	yes
18	(18) NGC3887	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:01.0	yes
19	(19) NGC4643	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:03.0	yes
20	(20) NGC4699	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:04.0	yes
21	(21) NGC4941	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:06.0	yes
22	(22) NGC4984	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:07.0	yes
23	(23) NGC5121	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:08.0	yes
24	(24) NGC5248	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:10.0	yes
25	(25) NGC5363	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:11.0	yes
26	(26) NGC5364	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:13.0	yes
27	(27) NGC6744	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:14.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
28	(28) NGC7177	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:16.0	yes
29	(29) NGC7513	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:17.0	yes
30	(30) NGC4237	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:19.0	yes
31	(31) NGC4321	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:20.0	yes
32	(32) NGC4340	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:21.0	yes
33	(33) NGC4371	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:23.0	yes
34	(34) NGC4377	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:24.0	yes
35	(35) NGC4379	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:25.0	yes
36	(36) NGC4380	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:27.0	yes
37	(37) NGC4421	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:28.0	yes
38	(38) NGC4440	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:30.0	yes
39	(39) NGC4450	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:31.0	yes
40	(40) NGC4457	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:33.0	yes
41	(41) NGC4459	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:34.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
42	(42) NGC4501	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:36.0	yes
43	(43) NGC4528	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:37.0	yes
44	(44) NGC4531	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:38.0	yes
55	(44) NGC4531	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:40.0	yes
45	(45) NGC4548	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:41.0	yes
46	(46) NGC4578	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:42.0	yes
47	(47) NGC4579	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:44.0	yes
48	(48) NGC4580	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:45.0	yes
49	(49) NGC4596	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:47.0	yes
50	(50) NGC4608	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:48.0	yes
51	(51) NGC4612	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:50.0	yes
52	(52) NGC4689	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:51.0	yes
53	(53) NGC4698	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:53.0	yes
54	(54) NGC4754	WFC3/IR WFC3/UVIS	1	30-Jan-2019 09:01:54.0	yes

56 Total Orbits Used

ABSTRACT

Understanding galaxy bulges is crucial for understanding galaxy evolution and the growth of supermassive black holes (SMBHs). Recent studies have shown that at least some -- perhaps most -- disk-galaxy bulges are actually composite structures, with both classical-bulge (spheroid) and pseudobulge (disky) components; this calls into question the standard practice of using simple, low-resolution bulge/disk decompositions to determine spheroid and SMBH mass functions. We propose WFC3 optical and near-IR imaging of a volume- and mass-limited sample of local disk galaxies to determine the full range of pure-classical, pure-pseudobulge, and composite-bulge frequencies and parameters, including stellar masses for classical bulges, disky pseudobulges, and boxy/peanut-shaped bulges. We will combine this with ground-based spectroscopy to determine the stellar-kinematic and population characteristics of the different substructures revealed by our WFC3 imaging. This will help resolve growing uncertainties about the status and nature of bulges and their relation to SMBH masses, and will provide an essential local-universe reference for understanding bulge (and SMBH) formation and evolution.

OBSERVING DESCRIPTION

The primary aim of our proposal is high-resolution imaging of the stellar structure in the central 1-2 kpc of our galaxies, sufficient to properly resolve compact classical bulges with half-light radii as small as ~ 25 pc and distinguish them from (even smaller) nuclear star clusters, as well as to separate such features from the kpc-scale disky pseudobulges and boxy/peanut-shaped bulges that they may be embedded in. We also need to minimize dust extinction, which can be strong in the nuclear regions of spiral galaxies. This calls for WFC3/IR images using the reddest (F160W) filter. We will use standard four-point dithers to permit pixel subsampling so that we properly sample the PSF.

We also request optical imaging with WFC3/UVIS in g (F475W) and i (F814W), for several purposes. First, g - i color images allow us to better identify and mask (or extinction-correct) dust lanes which may affect the F160W IR images, especially the inner kiloparsec. Second, g - i colors are ideal for estimating H-band (F160W) stellar mass-to-light (M/L) ratios (Zibetti et al. 2009); we will use these to construct high-resolution stellar-mass maps, and to convert our decomposition of different stellar components into stellar mass estimates and fractions. Finally, in cases where dust extinction is not strong, the smaller optical PSFs will provide extra leverage for identifying, separating, and measuring small nuclear structures, particularly nuclear star clusters.

To maximize our efficiency, we plan to make all exposures for a given galaxy in a single orbit, for a total of 54 orbits. We can do this with a

combination of 600s in F160W, 500s in F814W, and 700s in F475W, each split into four dithers. Since the pixel sizes undersample the PSFs in both F475W for UVIS and F160W in IR, four-point dithers will allow us to properly recover the PSF. Although PSF is marginally sampled by the native pixel scale in F814W, we need to guard against possible saturation of individual exposures by bright nuclei, so we also choose four-point dithers for F814W to avoid longer individual exposure times. The UVIS observations will use 1K x 1K subarrays to minimize readout overheads; since this subarray size spans 1-2 kpc in radius for essentially all of our galaxies, our science will not be significantly affected.

The ETC indicates that the F160W exposures will yield S/N per pixel = 14 for mu_H = 20 mag arcsec^{-2}, which means that for typical galaxies in our sample we will have S/N > 10 per pixel out to ~ 5 kpc in semi-major axis, and S/N > 1 essentially everywhere in the image. (The surface brightness reaches mu_H ~ 20 at ~ 3--4 kpc for a typical galaxy in our sample.) For the F814W exposures, we estimate S/N per pixel = 13 for mu_i = 19, which implies S/N > 10 out to ~ 1 kpc, and S/N > 1 out to ~ 4 kpc (well beyond the size of the subarray images we will actually obtain). For the F475W exposures, we estimate S/N = 6.7 per pixel for mu_g = 21, which means S/N > 10 out to almost 2 kpc. Thus we should achieve S/N > 10 for the inner 1-2 kpc in all filters, sufficient for accurate color maps and photometric mass estimation, and S/N > 10 out to 4-5 kpc in our F160W images, ideal for making low-noise unsharp masks and accurate 2D image fitting.

One galaxy (NGC 3489) is sufficiently bright in the nucleus (based on existing WFPC2 images) that our standard UVIS exposures run the risk of slightly saturating the central pixel; for this galaxy, we reduce the sub-exposure times in F475W and F814W to 150s and 100s respectively, for total UVIS exposure times of 600s and 400s.

Use of the Orbit Planner shows that most of our galaxies underfill the orbits by only 20-30 seconds; since no significant S/N would be gained by expanding the UVIS exposures, we leave these visits as is. However, there are five galaxies (IC 2051, NGC 1553, NGC 1566, NGC 5121, and NGC 6744) where our standard visit would underfill the orbits by 80-420 seconds; we have used the Auto-Adjust facility in the Orbit Planner to expand the UVIS exposures accordingly for these galaxies. (Checks of existing HST optical images for these galaxies show no danger of nuclear saturation for the longer exposure times.)

Previous optical imaging with WFPC2 and/or ACS exist for 36 galaxies in our sample. However, many of these are in only a single band and do not provide the necessary g - i color information. In addition, the majority were obtained with WFPC2, and often suffer from undersampling of the PSF due to the 0.1-arcsec pixels of the WF chips. While seven galaxies have satisfactory optical imaging (dithered, unsaturated WFC3/UVIS exposures in multiple colors), none of these have high quality IR data. Because the IR data is crucial to our science goals and because we obtain no time savings by dropping the optical observations, we propose re-observing these particular targets. None of our targets have prior WFC3/IR imaging. About one

quarter have been observed with NICMOS2 or NICMOS3, but these images typically suffer from low S/N and either very limited fields of view (NICMOS2) or strongly undersample the PSF (in the case of NICMOS3 with its 0.2-arcsec pixels).

Visit

Proposal 15133, NGC0289 - new (01), completed Wed Jan 30 14:01:55 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

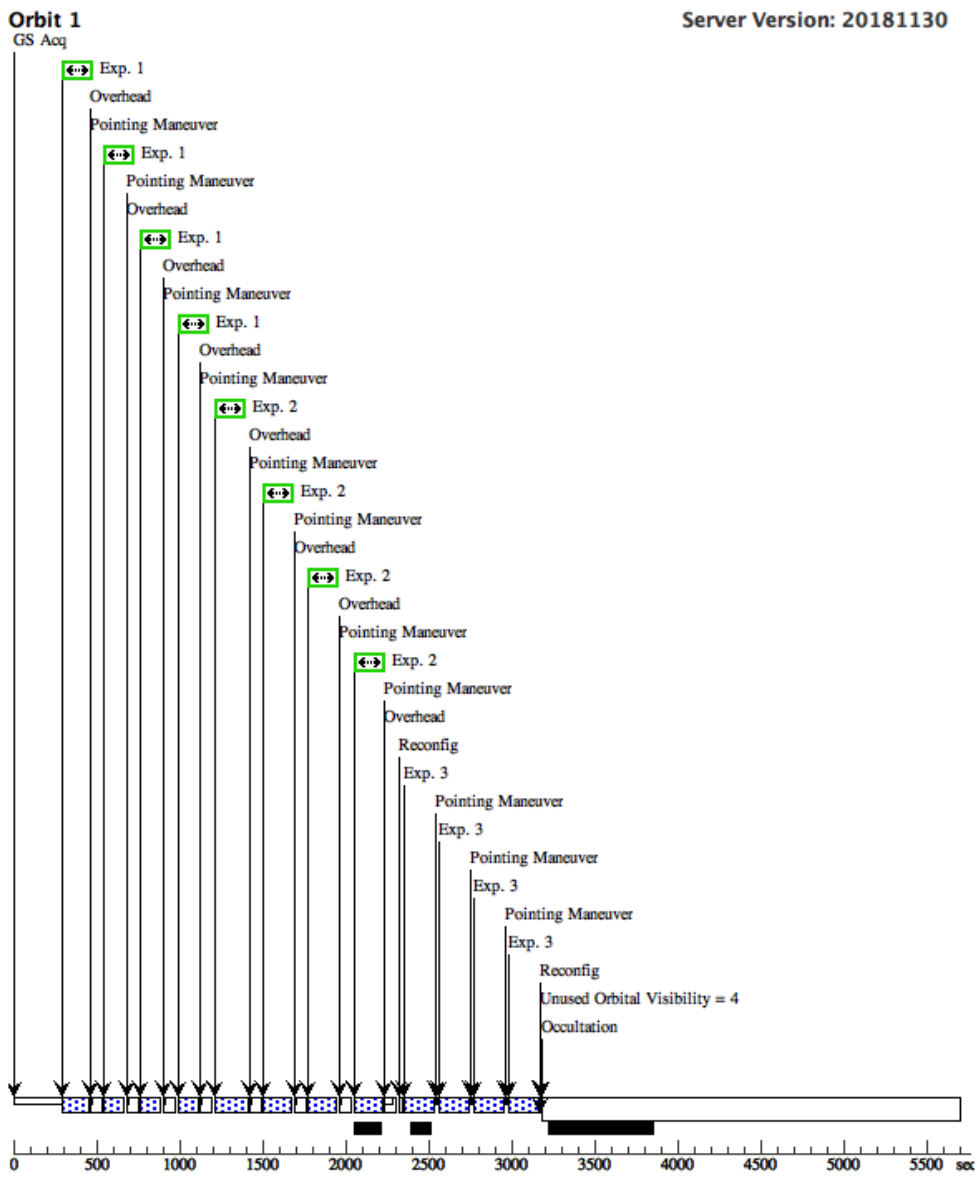
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	NGC0289	RA: 00 52 42.3600 (13.1765000d) Dec: -31 12 21.00 (-31.20583d) Equinox: J2000		V=10.72	Reference Frame: ICRS

Comments:
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) NGC0289	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9		Pattern 3, Exps 1-1 in NGC0289 - new (01) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(1) NGC0289	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC0289 - new (01) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(1) NGC0289	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC0289 - new (01) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC0613 - new (02), failed Wed Jan 30 14:01:55 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC0613 - new (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

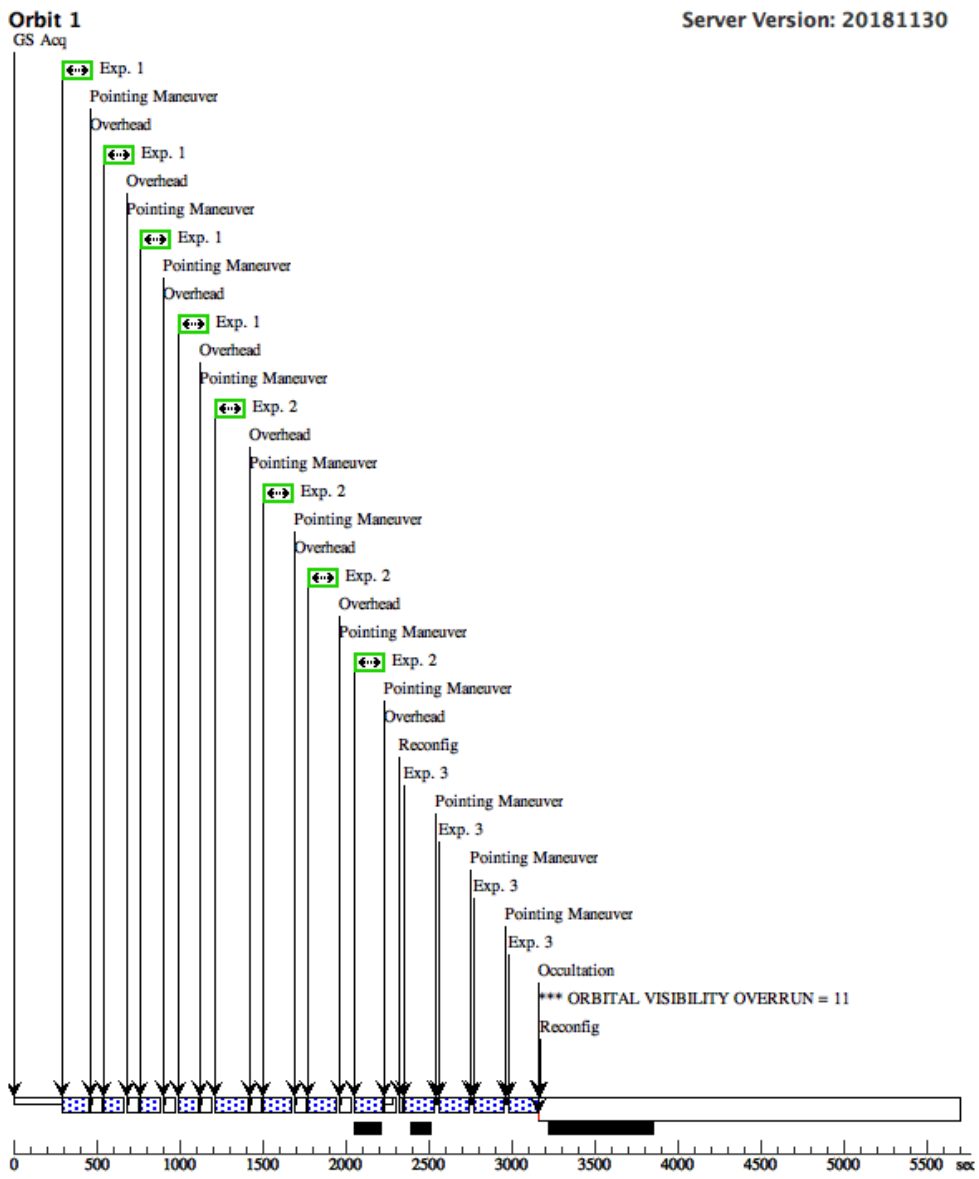
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	NGC0613	RA: 01 34 18.1704 (23.5757100d) Dec: -29 25 6.10 (-29.41836d) Equinox: J2000		V=10.05	Reference Frame: NED

Comments: This object was generated by the targetselector and retrieved from the NED database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(2) NGC0613	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9		Pattern 3, Exps 1-1 in NGC0613 - new (02) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(2) NGC0613	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC0613 - new (02) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(2) NGC0613	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC0613 - new (02) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC0613 - new (56), completed Wed Jan 30 14:01:55 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Comments: HOPR repeat of visit 2

Diagnostics

(NGC0613 - new (56)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

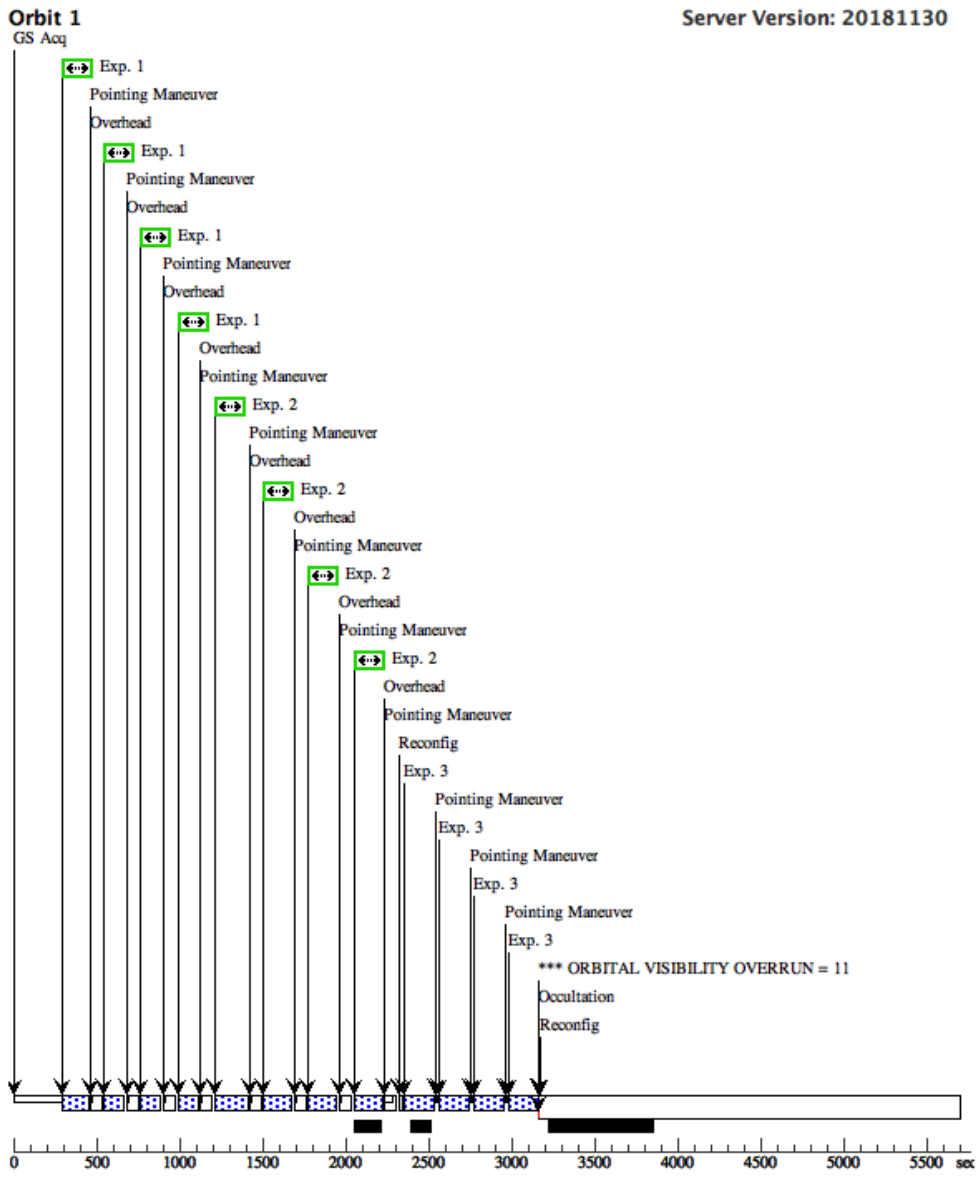
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	NGC0613	RA: 01 34 18.1704 (23.5757100d) Dec: -29 25 6.10 (-29.41836d) Equinox: J2000		V=10.05	Reference Frame: NED

Comments: This object was generated by the targetselector and retrieved from the NED database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(2) NGC0613	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9		Pattern 3, Exps 1-1 in NGC0613 - new (56) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(2) NGC0613	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC0613 - new (56) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(2) NGC0613	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC0613 - new (56) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC1079 - new (03), completed Wed Jan 30 14:01:55 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC1079 - new (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

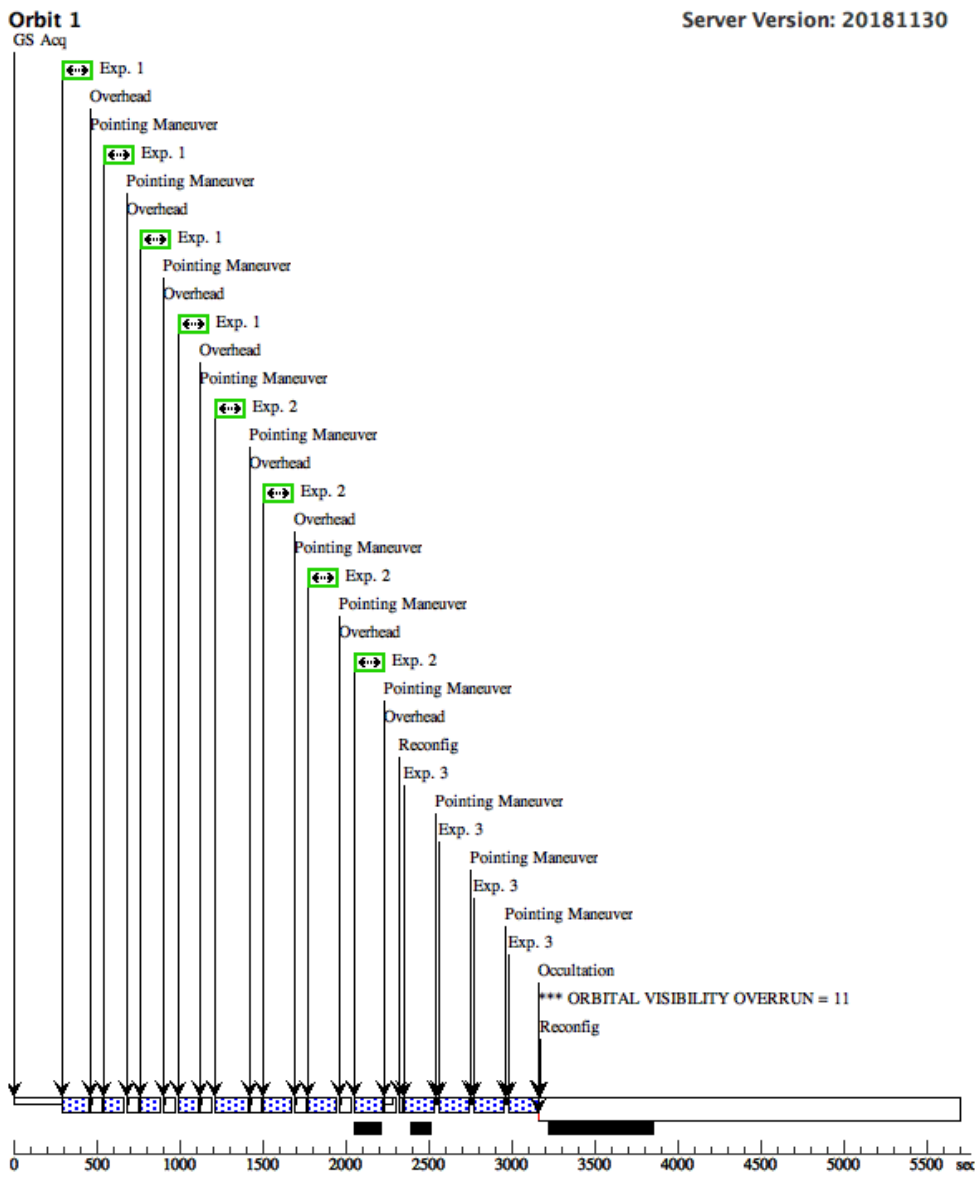
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	NGC1079	RA: 02 43 44.3400 (40.9347500d) Dec: -29 00 12.10 (-29.00336d) Equinox: J2000		V=11.46	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(3) NGC1079	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC1079 - new (03) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
2		(3) NGC1079	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC1079 - new (03) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
3		(3) NGC1079	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC1079 - new (03) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***

Orbit Structure



Visit

Proposal 15133, NGC1097 - new (04), completed Wed Jan 30 14:01:55 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

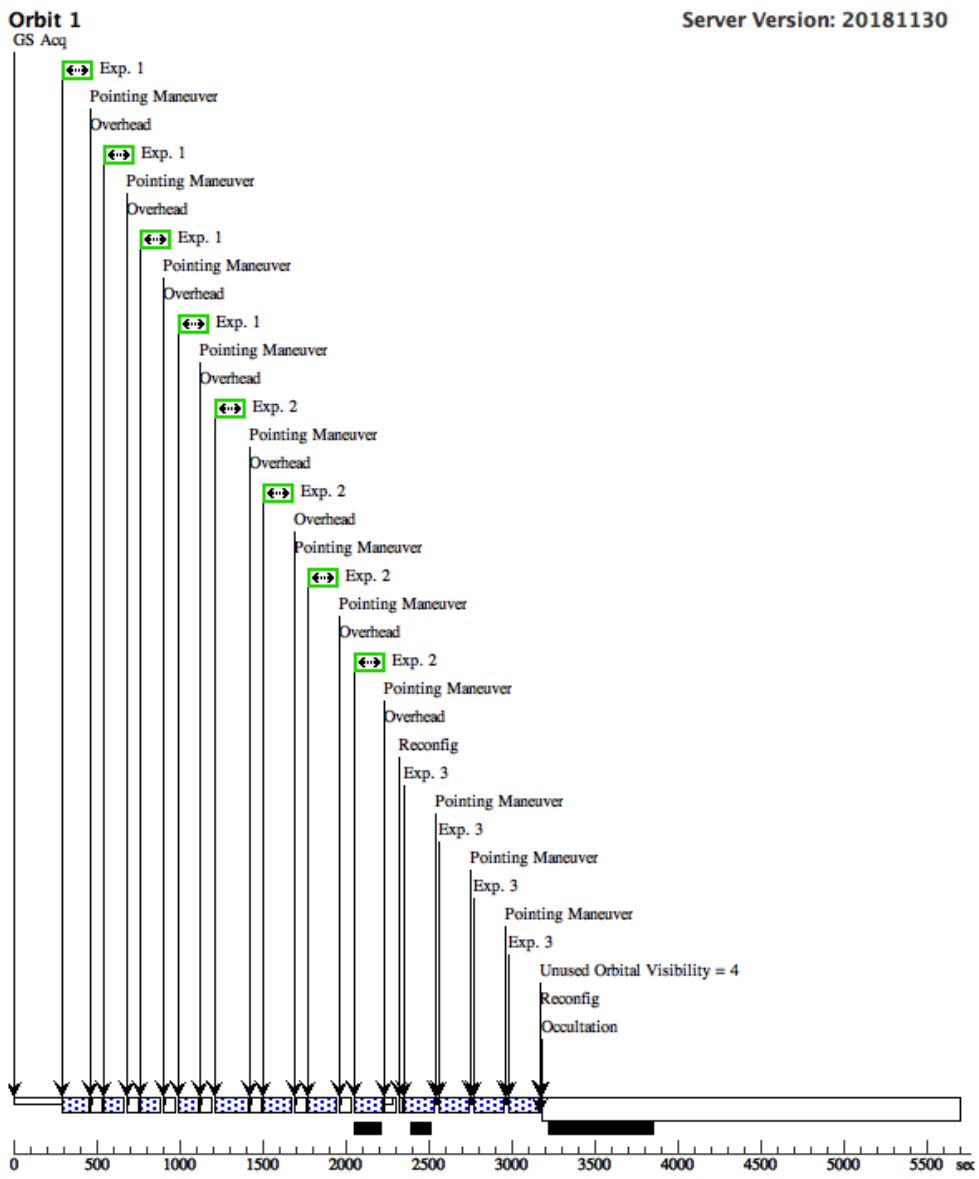
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	NGC1097	RA: 02 46 19.0590 (41.5794125d) Dec: -30 16 29.68 (-30.27491d) Equinox: J2000		V=9.48	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(4) NGC1097	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC1097 - new (04) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(4) NGC1097	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC1097 - new (04) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(4) NGC1097	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC1097 - new (04) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC1201 - new (05), completed Wed Jan 30 14:01:56 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC1201 - new (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

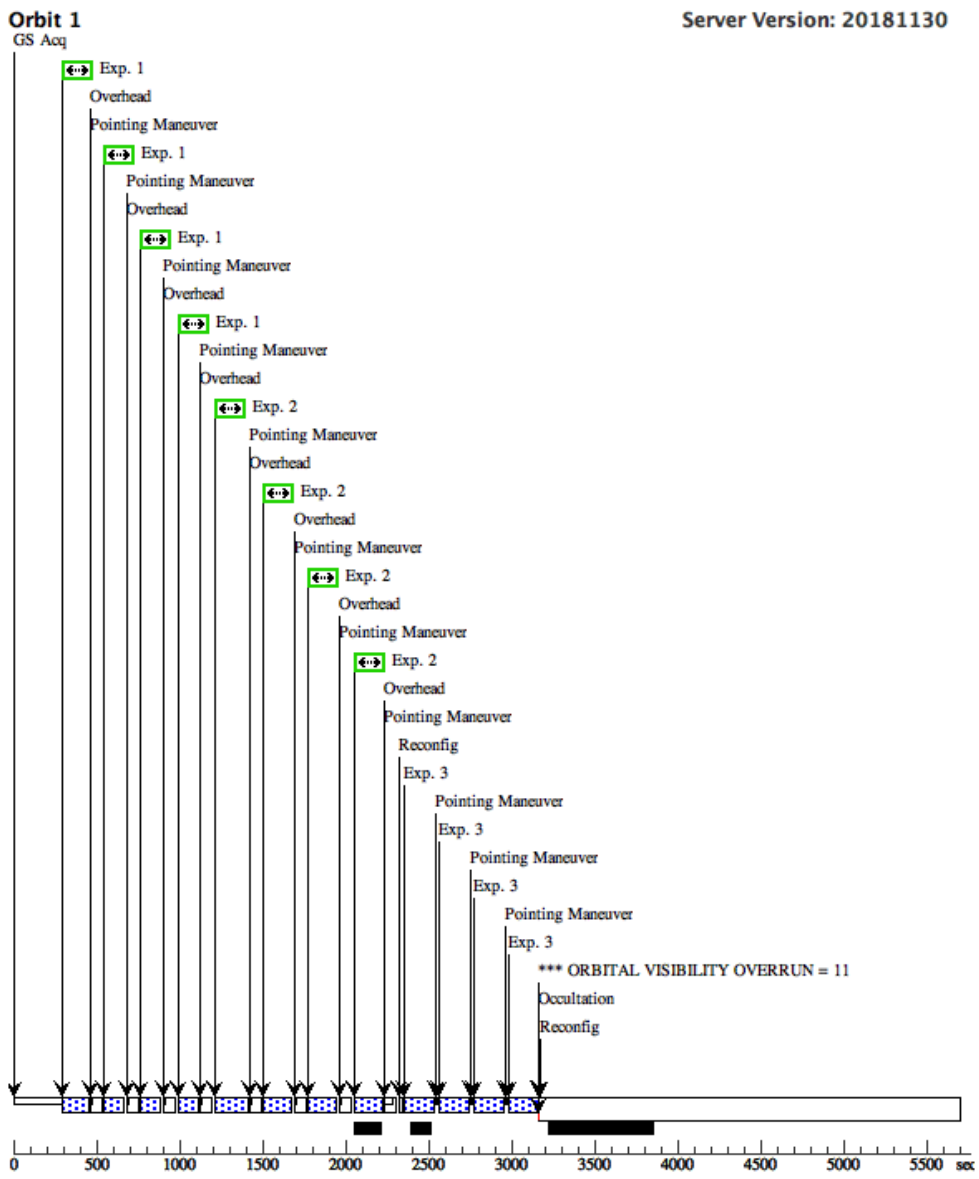
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	NGC1201	RA: 03 04 7.9800 (46.0332500d) Dec: -26 04 10.70 (-26.06964d) Equinox: J2000		V=10.73	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, LENTICULAR, NUCLEUS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(5) NGC1201	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9		Pattern 3, Exps 1-1 in NGC1201 - new (05) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(5) NGC1201	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC1201 - new (05) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(5) NGC1201	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC1201 - new (05) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC1300 - new (06), completed Wed Jan 30 14:01:56 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC1300 - new (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

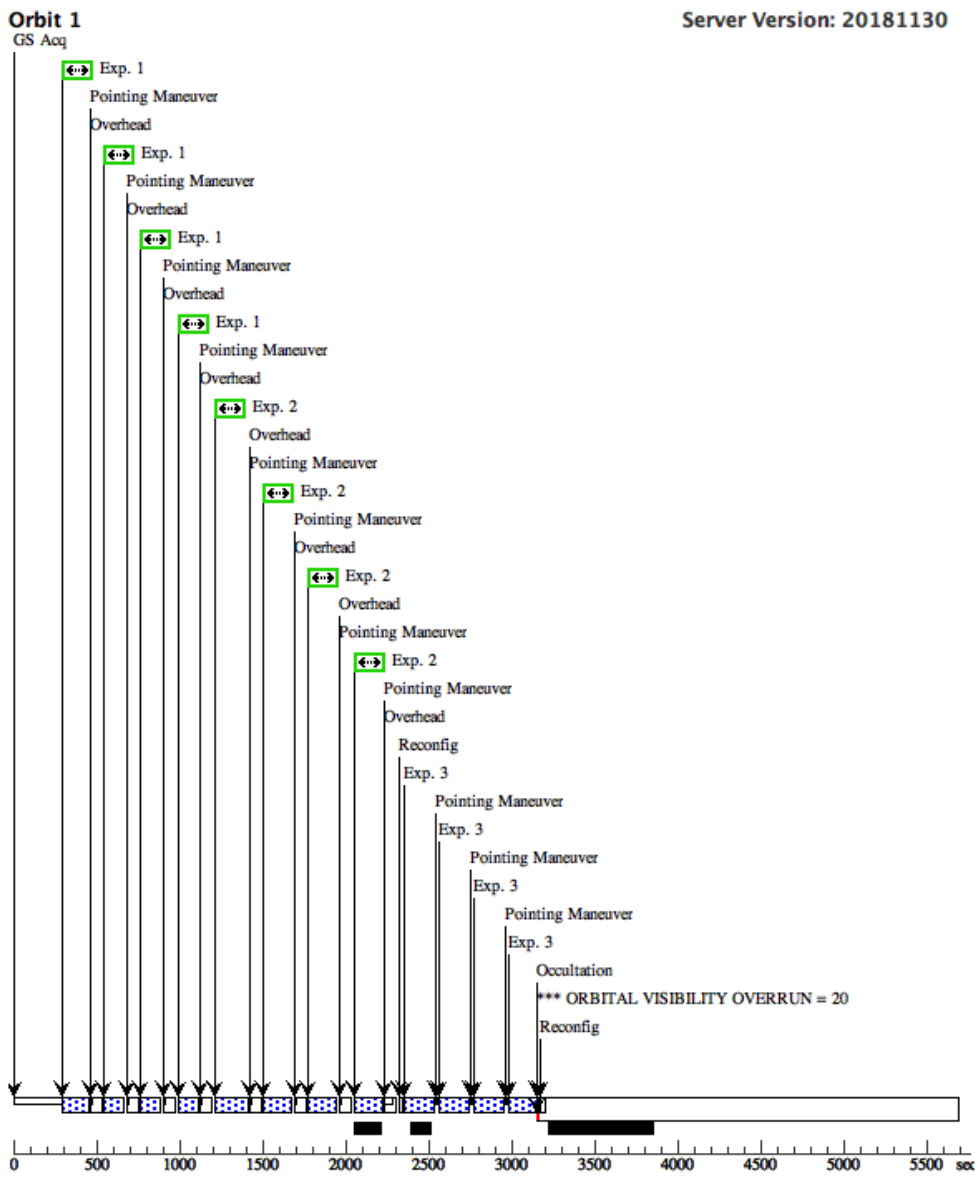
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	NGC1300	RA: 03 19 41.0790 (49.9211625d) Dec: -19 24 40.90 (-19.41136d) Equinox: J2000		V=10.42	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(6) NGC1300	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9		Pattern 3, Exps 1-1 in NGC1300 - new (06) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(6) NGC1300	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC1300 - new (06) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(6) NGC1300	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC1300 - new (06) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC1367 - new (07), completed Wed Jan 30 14:01:56 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC1367 - new (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

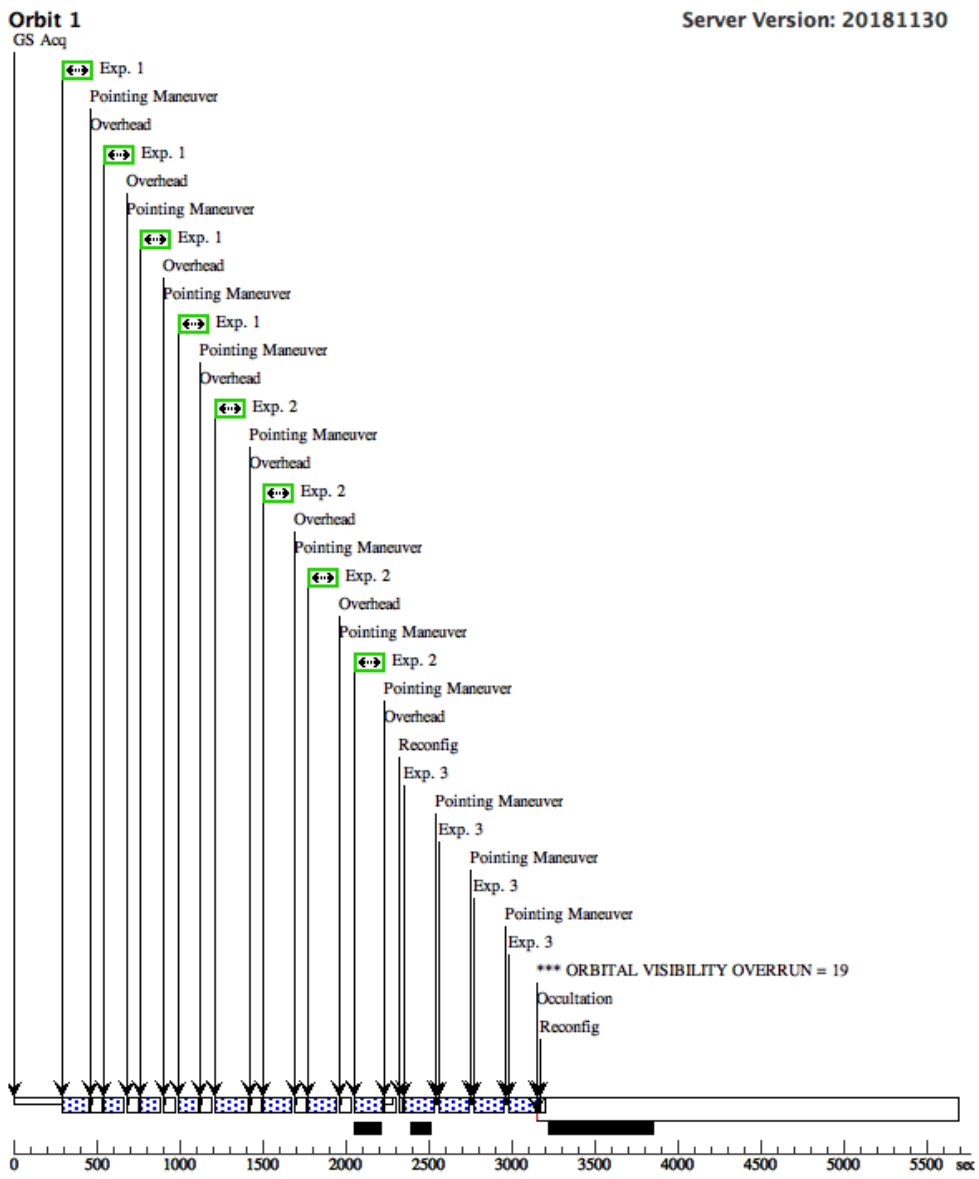
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	NGC1367	RA: 03 35 1.3410 (53.7555875d) Dec: -24 55 59.64 (-24.93323d) Equinox: J2000		V=10.67	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(7) NGC1367	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9		Pattern 3, Exps 1-1 in NGC1367 - new (07) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(7) NGC1367	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC1367 - new (07) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(7) NGC1367	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC1367 - new (07) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC1440 - new (08), completed Wed Jan 30 14:01:56 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC1440 - new (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

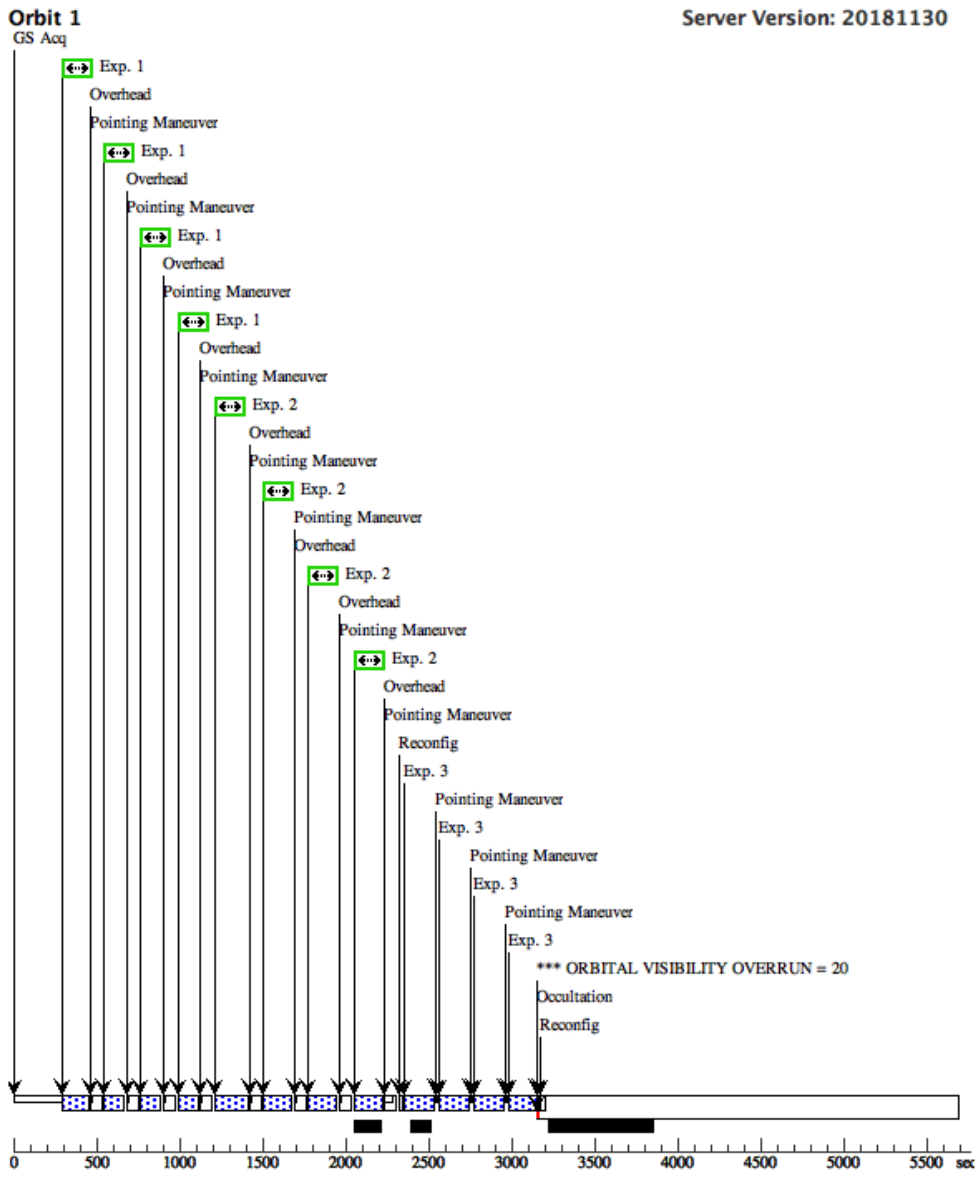
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	NGC1440	RA: 03 45 2.9040 (56.2621000d) Dec: -18 15 57.76 (-18.26604d) Equinox: J2000		V=11.53	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, LENTICULAR, NUCLEUS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(8) NGC1440	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9		Pattern 3, Exps 1-1 in NGC1440 - new (08) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(8) NGC1440	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC1440 - new (08) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(8) NGC1440	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC1440 - new (08) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, IC2051 - autoexpand (09), completed Wed Jan 30 14:01:56 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(IC2051 - autoexpand (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

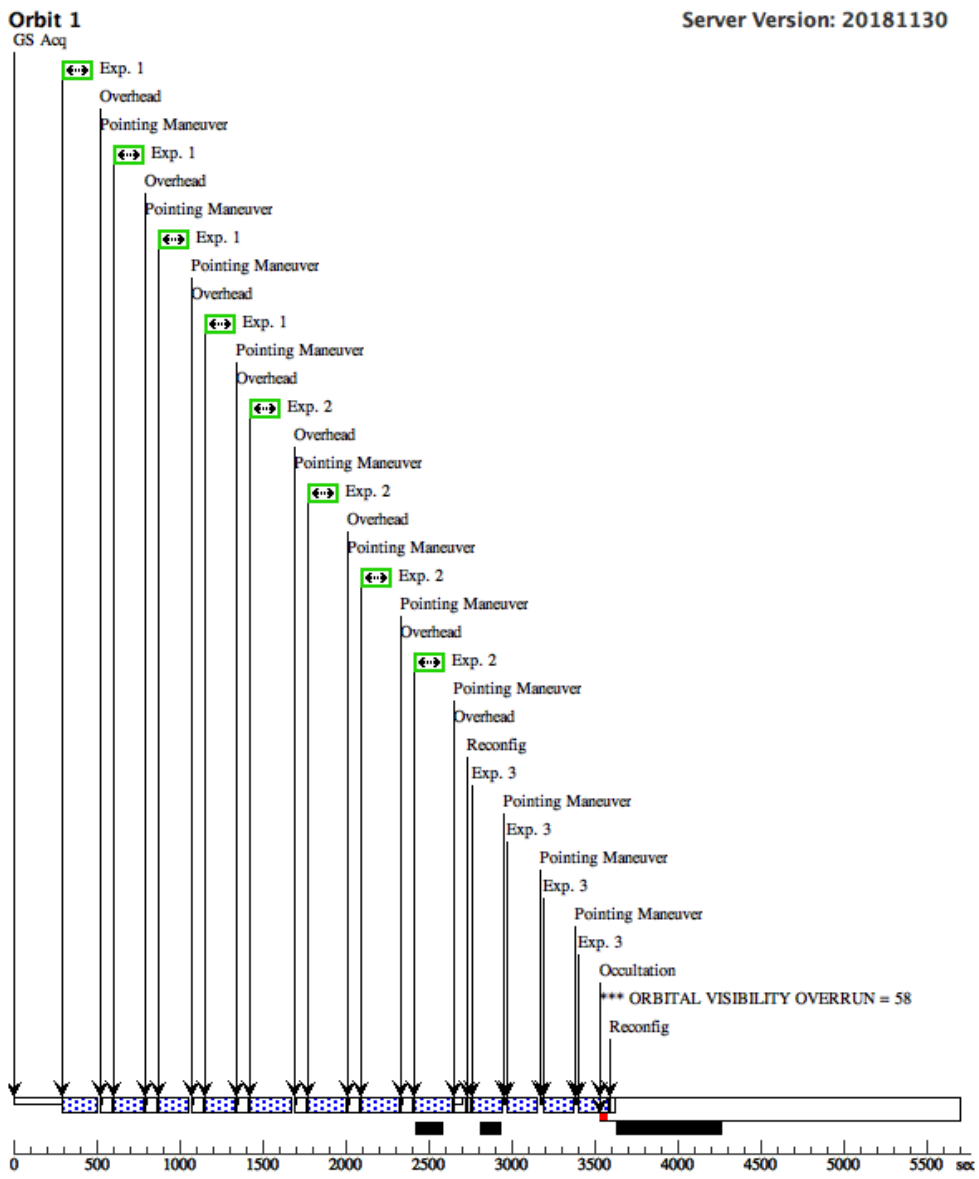
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(9)	IC2051	RA: 03 52 0.8300 (58.0034583d) Dec: -83 49 50.50 (-83.83069d) Equinox: J2000		V=10.63	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(9) IC2051	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9		Pattern 3, Exps 1-1 in IC2051 - autoexpand (09) (3)	125 Secs (716 Secs) *[==>179.0 Secs (Pattern 1)]* *[==>179.0 Secs (Pattern 2)]* *[==>179.0 Secs (Pattern 3)]* *[==>179.0 Secs (Pattern 4)]*	***[1]***
2		(9) IC2051	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in IC2051 - autoexpand (09) (3)	175 Secs (916 Secs) *[==>229.0 Secs (Pattern 1)]* *[==>229.0 Secs (Pattern 2)]* *[==>229.0 Secs (Pattern 3)]* *[==>229.0 Secs (Pattern 4)]*	***[1]***
3		(9) IC2051	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in IC2051 - autoexpand (09) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC1553 - autoexpand (10), completed Wed Jan 30 14:01:56 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC1553 - autoexpand (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

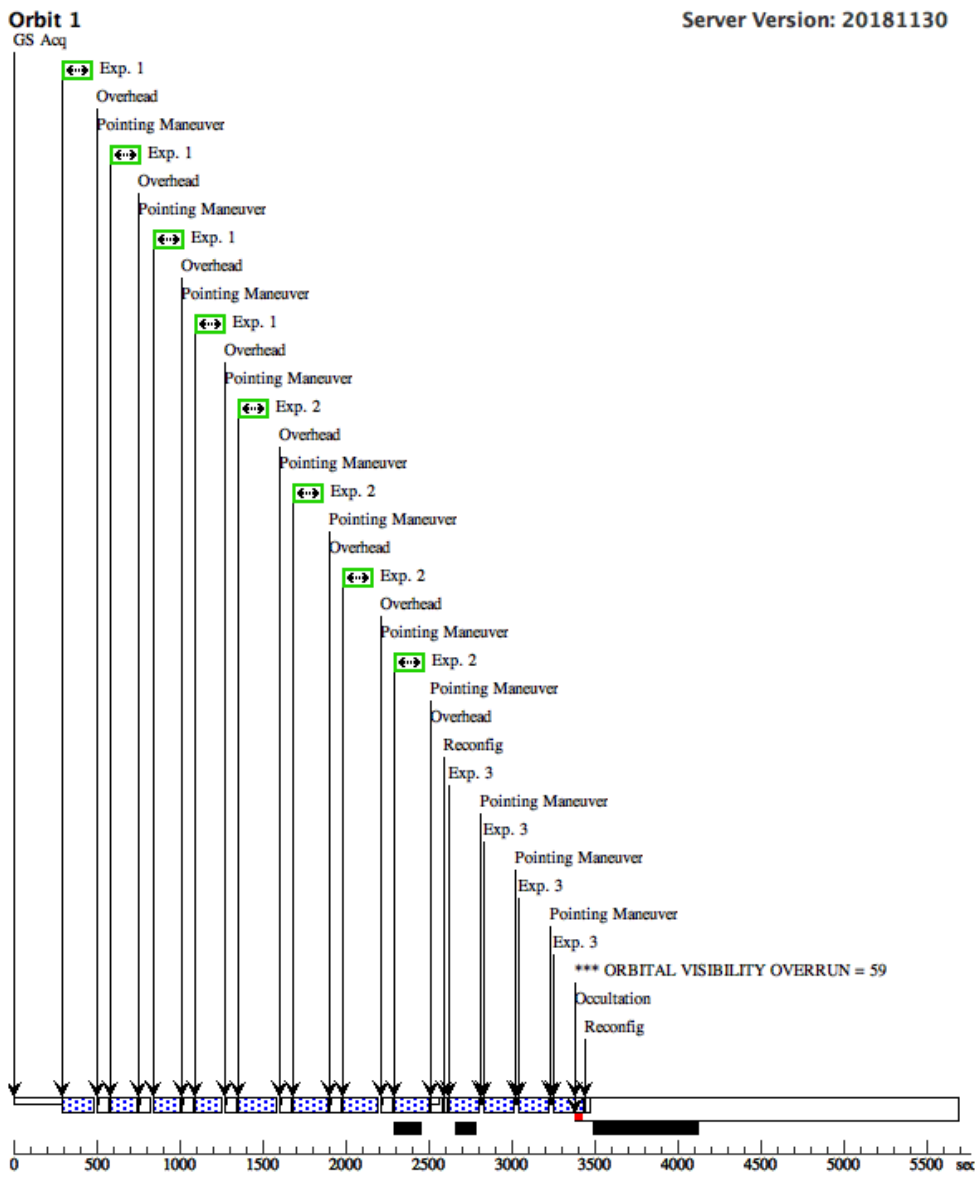
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(10)	NGC1553	RA: 04 16 10.4660 (64.0436083d) Dec: -55 46 48.50 (-55.78014d) Equinox: J2000		V=9.40	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, LENTICULAR, NUCLEUS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(10) NGC1553	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9		Pattern 3, Exps 1-1 in NGC1553 - autoexpand (10) (3)	125 Secs (644 Secs) *[==>161.0 Secs (Pattern 1)]* *[==>161.0 Secs (Pattern 2)]* *[==>161.0 Secs (Pattern 3)]* *[==>161.0 Secs (Pattern 4)]*	***[1]***
2		(10) NGC1553	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC1553 - autoexpand (10) (3)	175 Secs (844 Secs) *[==>211.0 Secs (Pattern 1)]* *[==>211.0 Secs (Pattern 2)]* *[==>211.0 Secs (Pattern 3)]* *[==>211.0 Secs (Pattern 4)]*	***[1]***
3		(10) NGC1553	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC1553 - autoexpand (10) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC1566 - auotexpand (11), completed Wed Jan 30 14:01:56 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC1566 - auotexpand (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

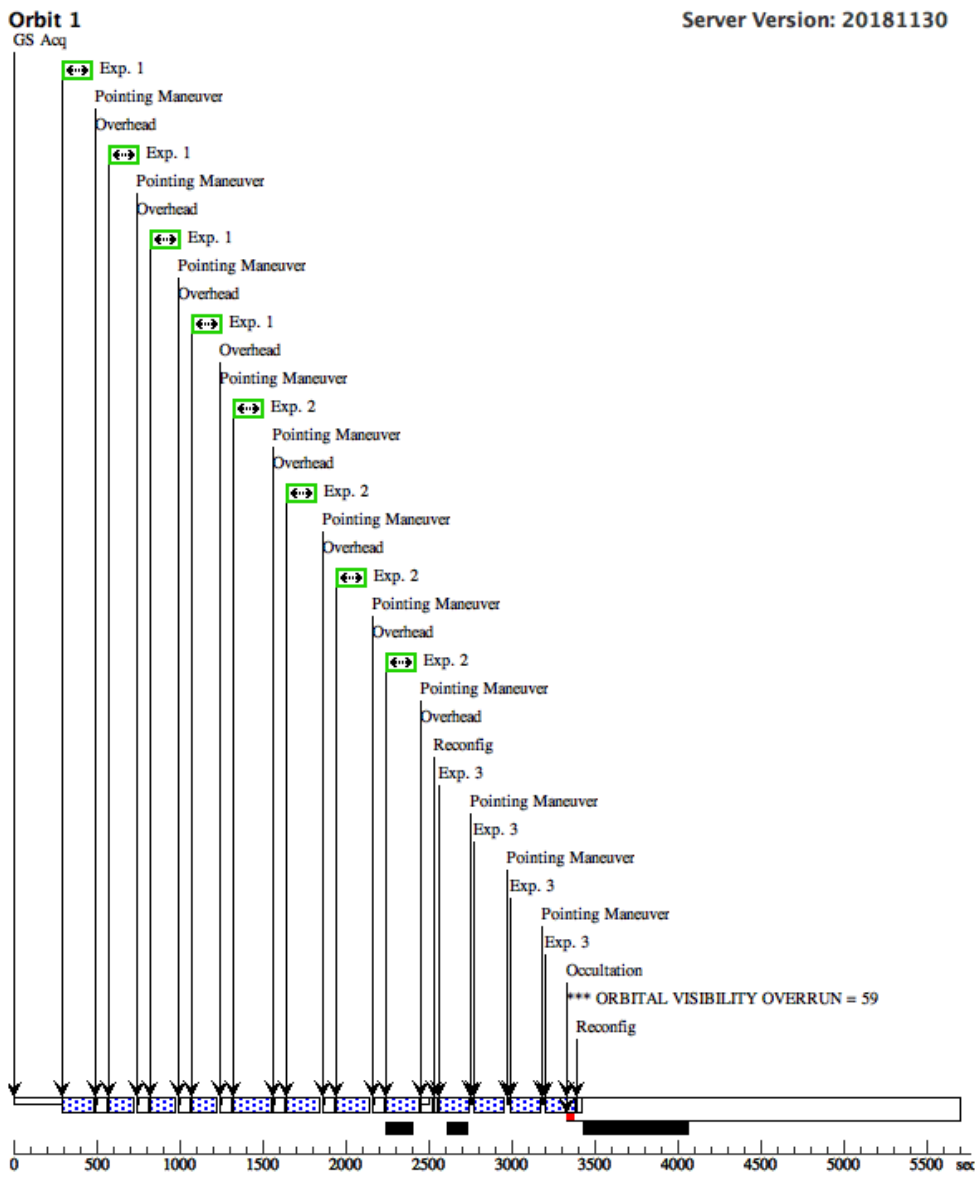
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(11)	NGC1566	RA: 04 20 0.4190 (65.0017458d) Dec: -54 56 16.11 (-54.93781d) Equinox: J2000		V=9.73	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(11) NGC1566	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC1566 - auotexpand (11) (3)	125 Secs (616 Secs) *[==>154.0 Secs (Pattern 1)]* *[==>154.0 Secs (Pattern 2)]* *[==>154.0 Secs (Pattern 3)]* *[==>154.0 Secs (Pattern 4)]*	***[1]***
2		(11) NGC1566	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC1566 - auotexpand (11) (3)	175 Secs (816 Secs) *[==>204.0 Secs (Pattern 1)]* *[==>204.0 Secs (Pattern 2)]* *[==>204.0 Secs (Pattern 3)]* *[==>204.0 Secs (Pattern 4)]*	***[1]***
3		(11) NGC1566	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC1566 - auotexpand (11) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC2775 - new (12), completed Wed Jan 30 14:01:56 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC2775 - new (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

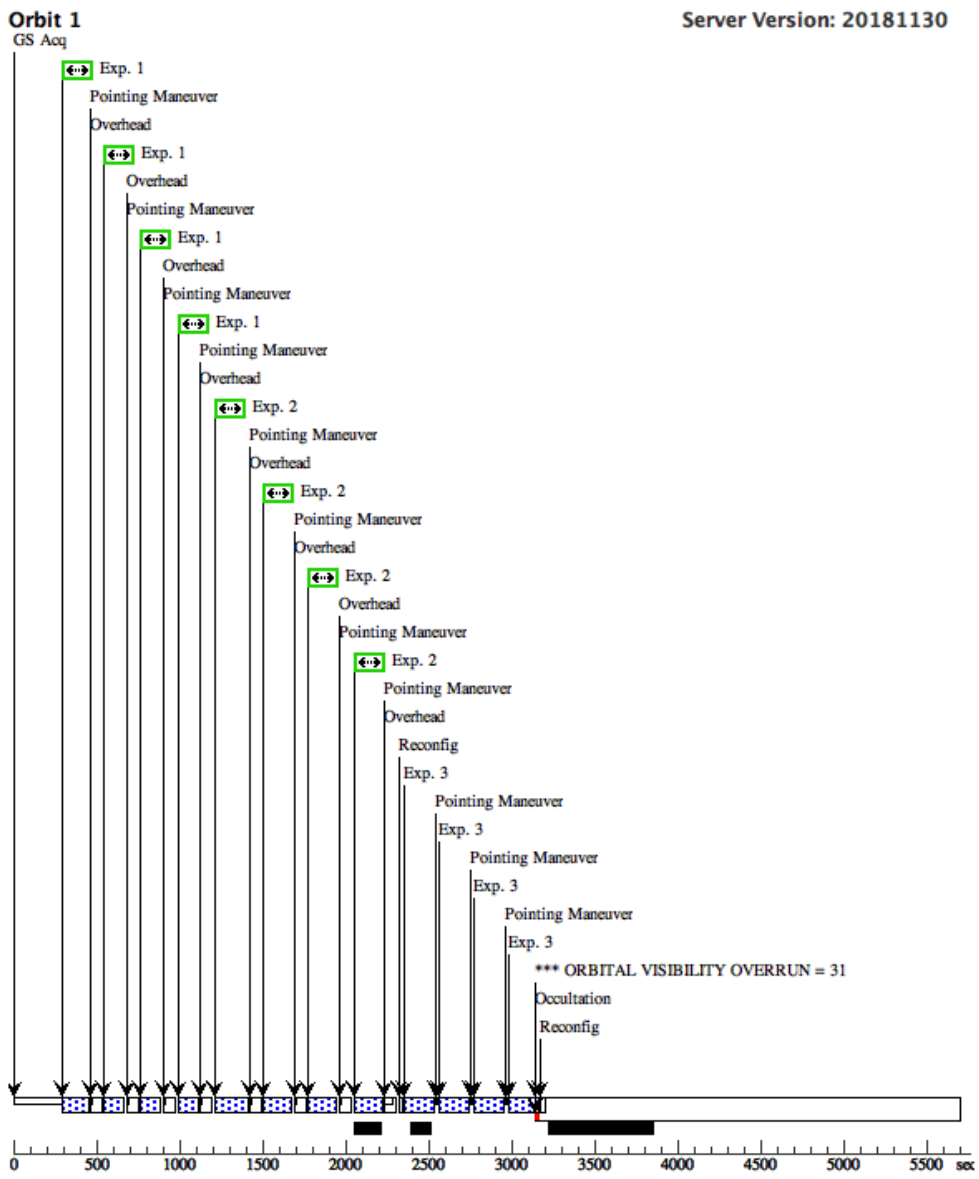
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(12)	NGC2775	RA: 09 10 20.1120 (137.5838000d) Dec: +07 02 16.53 (7.03792d) Equinox: J2000		V=10.13	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(12) NGC2775	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9		Pattern 3, Exps 1-1 in NGC2775 - new (12) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(12) NGC2775	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC2775 - new (12) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(12) NGC2775	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC2775 - new (12) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC3351 - new (13), completed Wed Jan 30 14:01:56 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC3351 - new (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

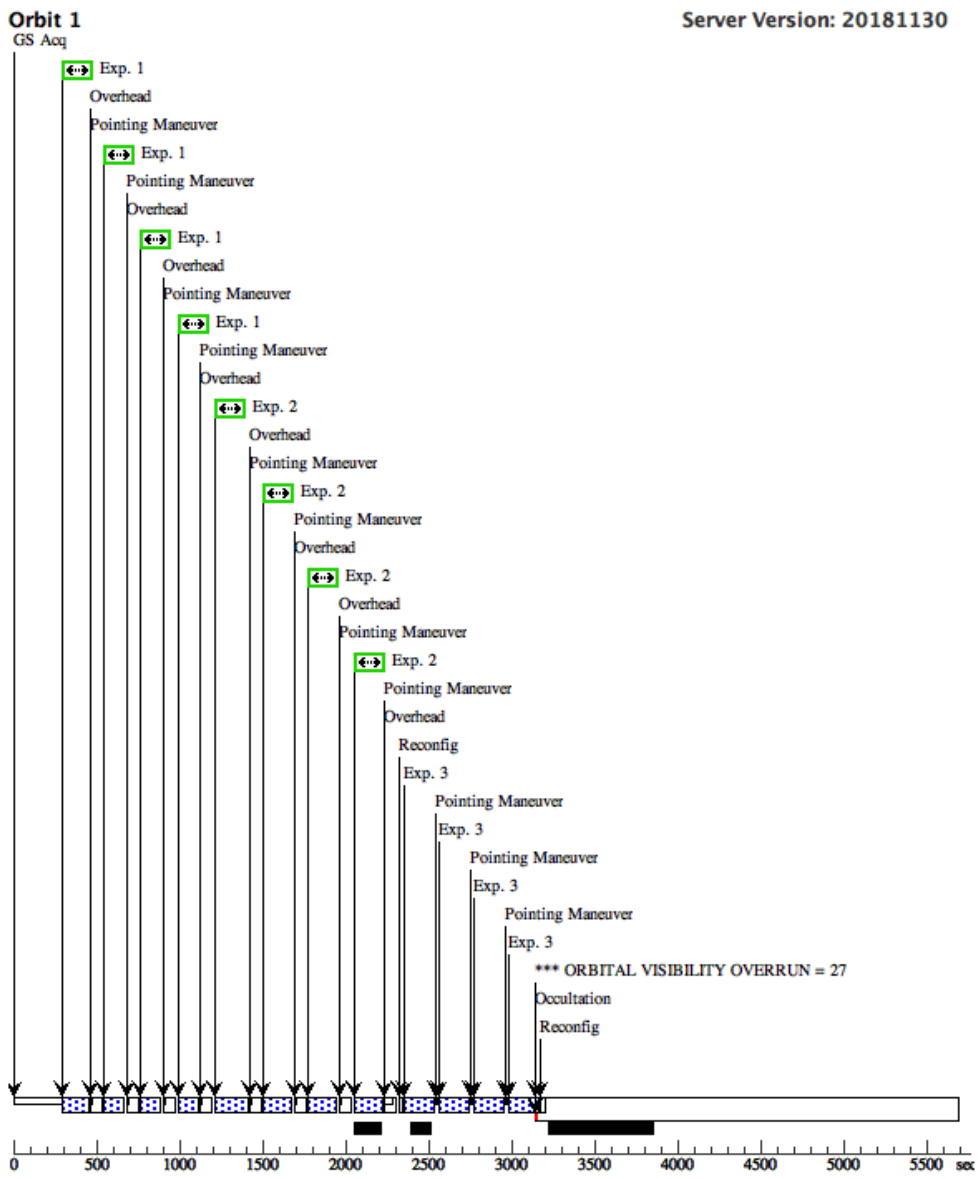
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(13)	NGC3351 Alt Name1: M95	RA: 10 43 57.7330 (160.9905542d) Dec: +11 42 13.70 (11.70381d) Equinox: J2000		V=9.73	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(13) NGC3351	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9		Pattern 3, Exps 1-1 in NGC3351 - new (13) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(13) NGC3351	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC3351 - new (13) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(13) NGC3351	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC3351 - new (13) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC3368 - new (14), completed Wed Jan 30 14:01:56 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC3368 - new (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

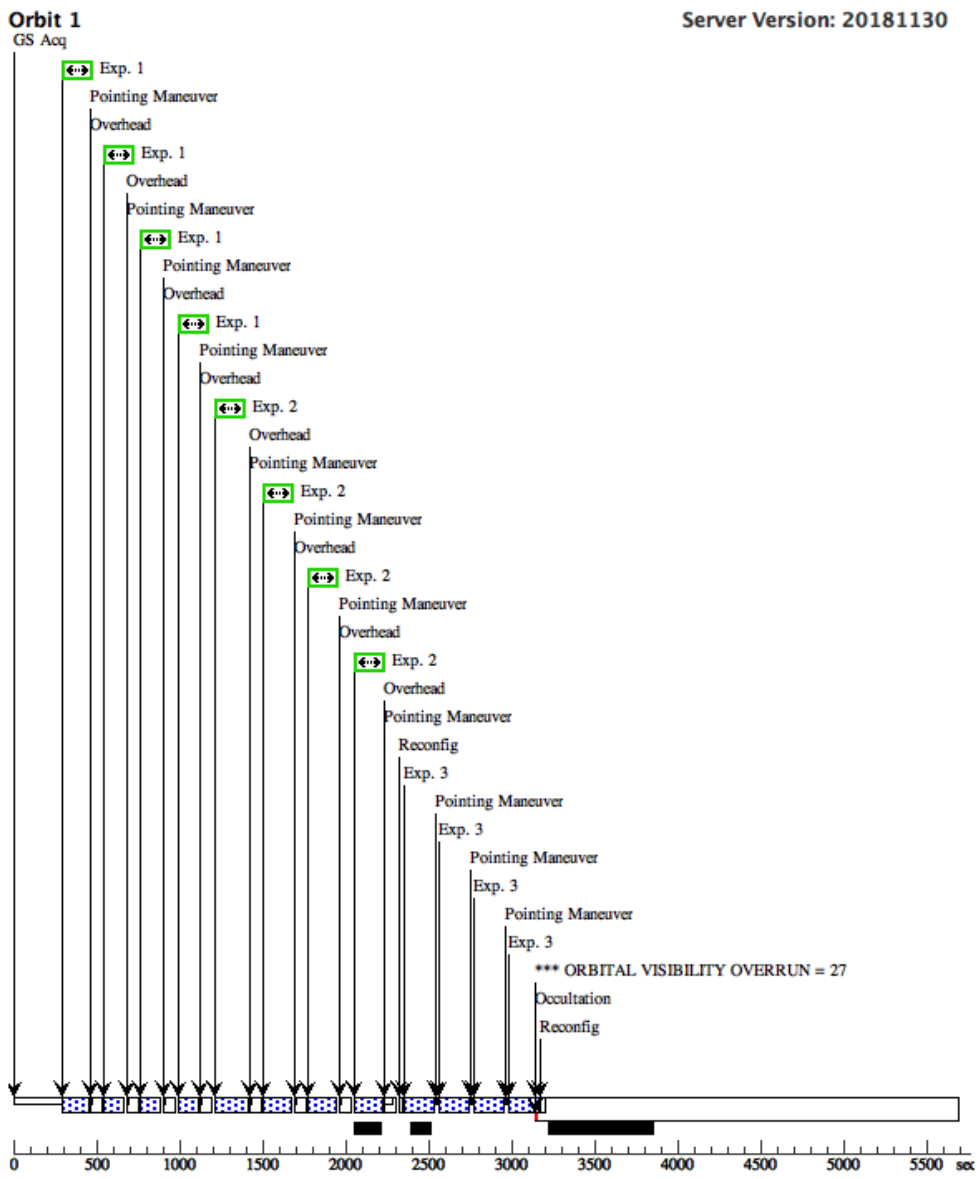
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(14)	NGC3368 Alt Name1: M96	RA: 10 46 45.7440 (161.6906000d) Dec: +11 49 11.78 (11.81994d) Equinox: J2000		V=9.25	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(14) NGC3368	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9		Pattern 3, Exps 1-1 in NGC3368 - new (14) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(14) NGC3368	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC3368 - new (14) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(14) NGC3368	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC3368 - new (14) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC3412 - new (15), completed Wed Jan 30 14:01:56 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC3412 - new (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

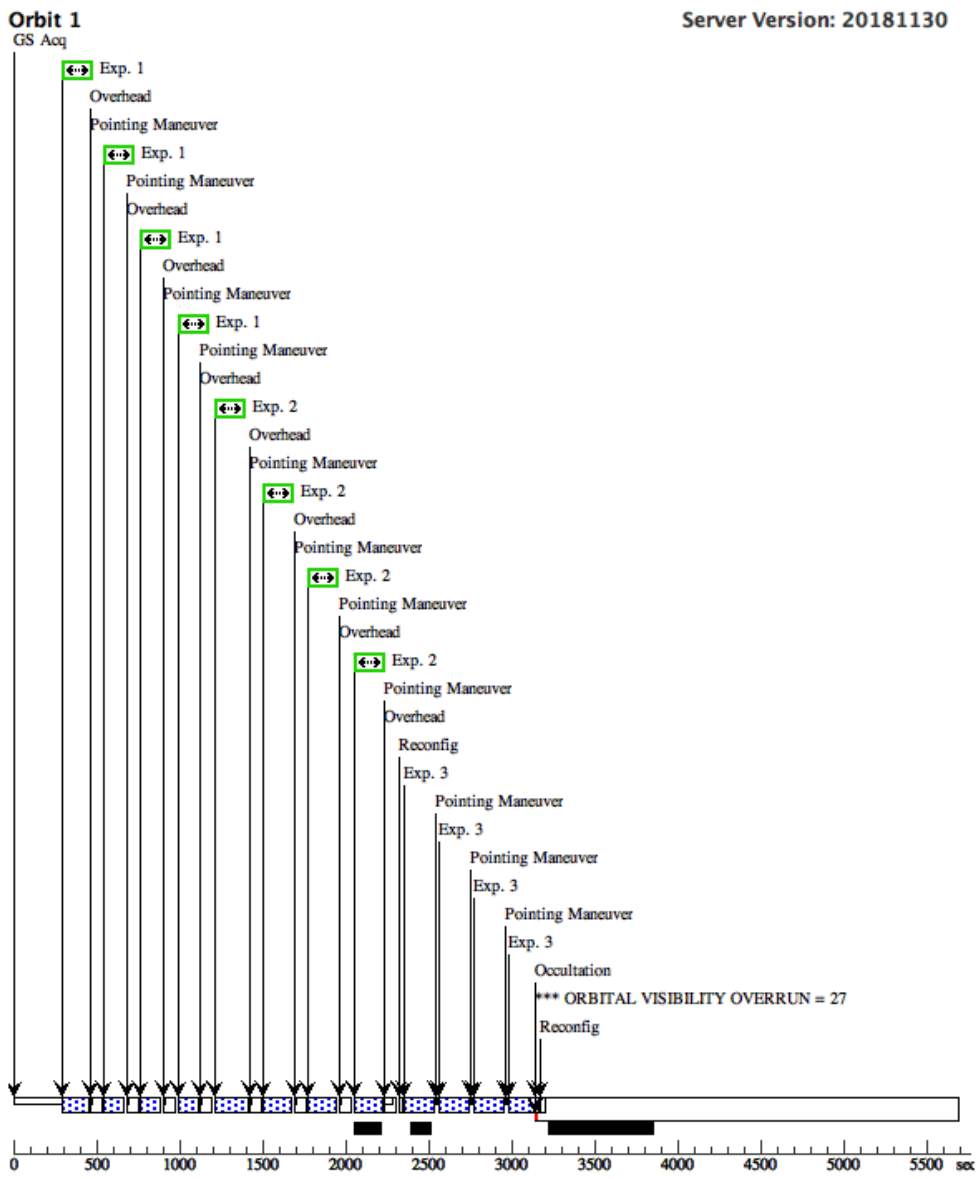
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(15)	NGC3412	RA: 10 50 53.3130 (162.7221375d) Dec: +13 24 43.71 (13.41214d) Equinox: J2000		V=10.54	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, LENTICULAR, NUCLEUS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(15) NGC3412	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9		Pattern 3, Exps 1-1 in NGC3412 - new (15) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(15) NGC3412	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC3412 - new (15) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(15) NGC3412	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC3412 - new (15) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC3489 - shortened (16), completed Wed Jan 30 14:01:56 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

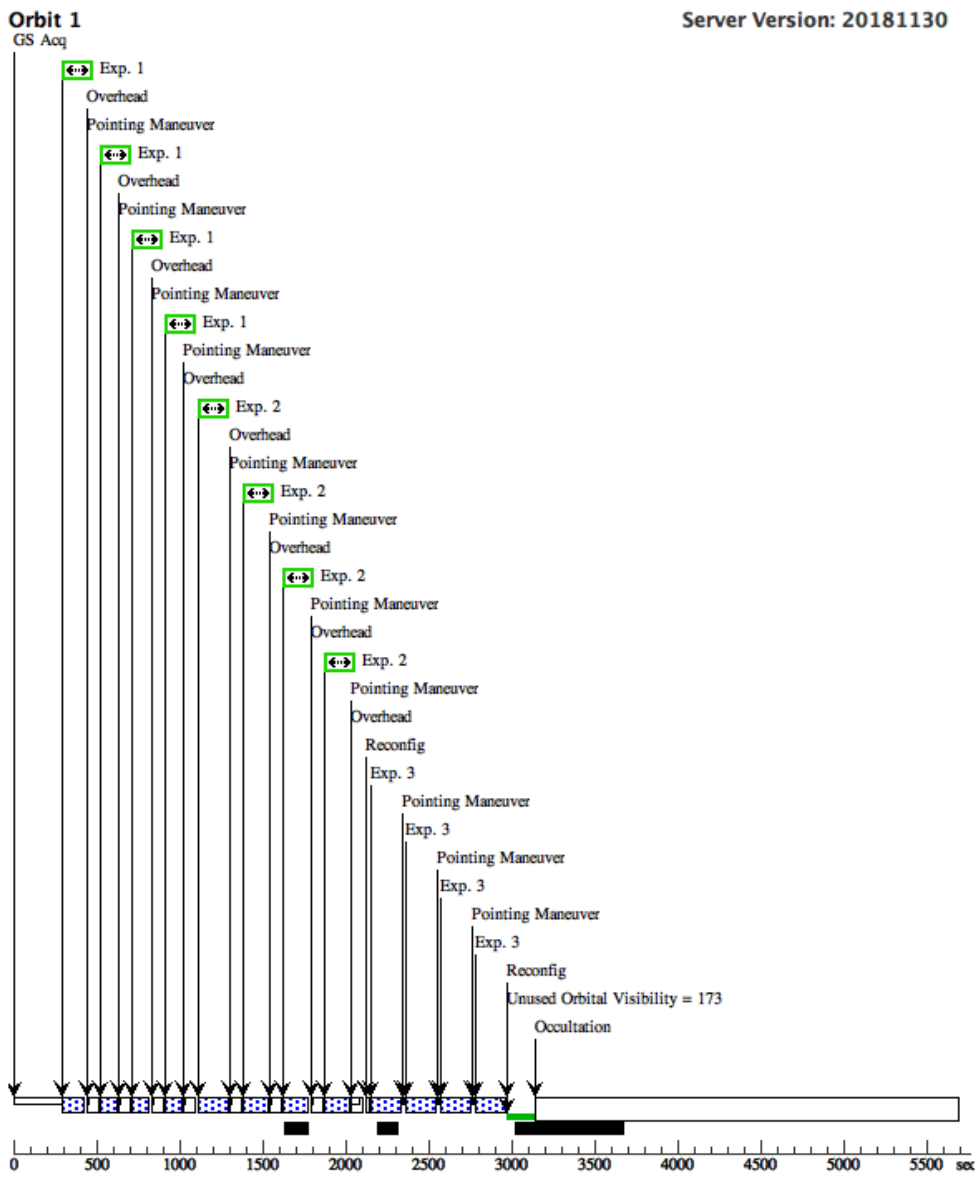
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(16)	NGC3489	RA: 11 00 18.5700 (165.0773750d) Dec: +13 54 4.40 (13.90122d) Equinox: J2000		V=10.29	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, LENTICULAR, NUCLEUS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(16) NGC3489	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9		Pattern 3, Exps 1-1 in NGC3489 - shortened (16) (3)	100 Secs (400 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(16) NGC3489	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC3489 - shortened (16) (3)	150 Secs (600 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(16) NGC3489	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC3489 - shortened (16) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC3626 - new (17), completed Wed Jan 30 14:01:56 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC3626 - new (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

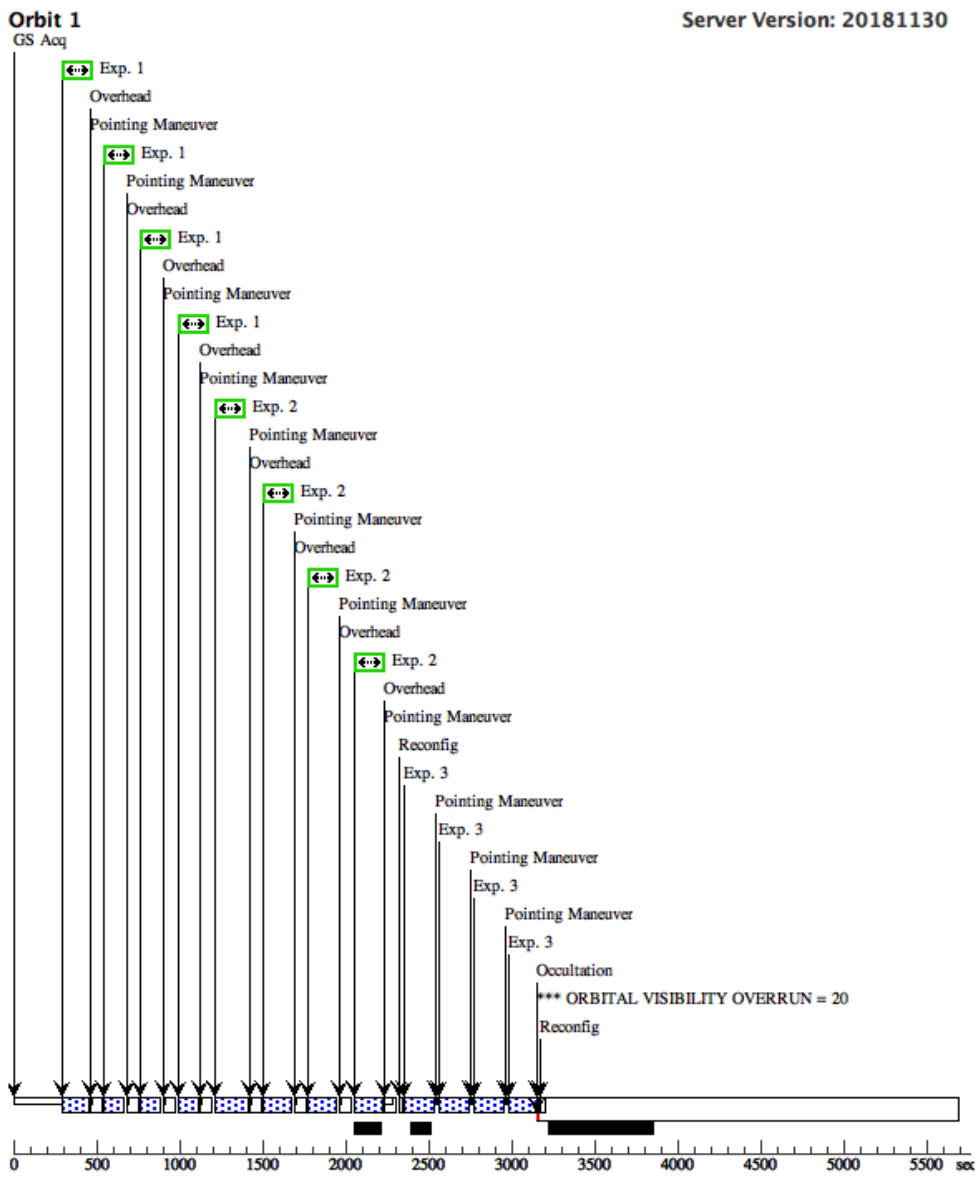
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(17)	NGC3626	RA: 11 20 3.8110 (170.0158792d) Dec: +18 21 24.62 (18.35684d) Equinox: J2000		V=10.96	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, LENTICULAR, NUCLEUS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(17) NGC3626	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9		Pattern 3, Exps 1-1 in NGC3626 - new (17) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(17) NGC3626	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC3626 - new (17) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(17) NGC3626	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC3626 - new (17) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC3887 - new (18), completed Wed Jan 30 14:01:57 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC3887 - new (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

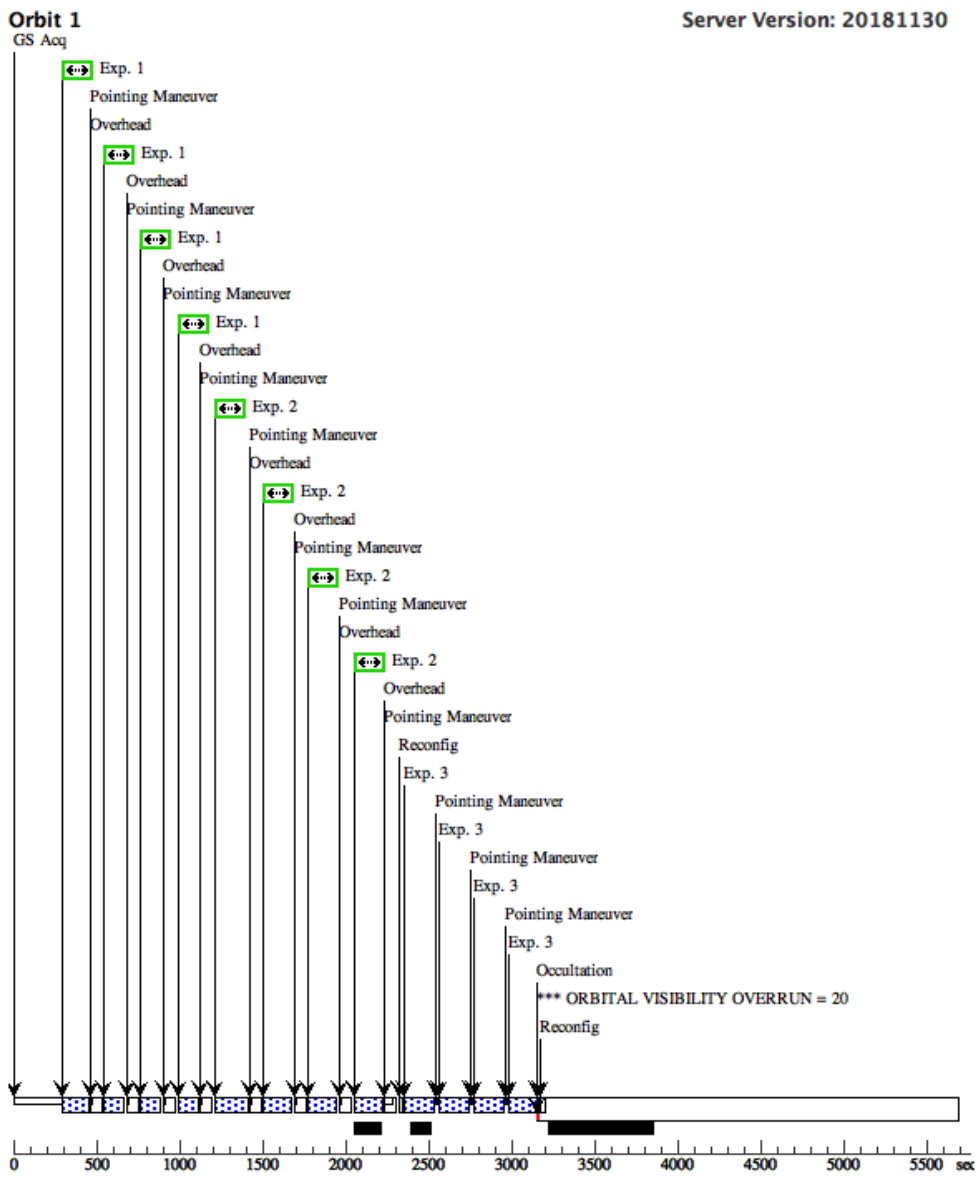
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(18)	NGC3887	RA: 11 47 4.5630 (176.7690125d) Dec: -16 51 16.71 (-16.85464d) Equinox: J2000		V=10.41	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(18) NGC3887	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC3887 - new (18) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
2		(18) NGC3887	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC3887 - new (18) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
3		(18) NGC3887	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC3887 - new (18) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4643 - new (19), completed Wed Jan 30 14:01:57 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4643 - new (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

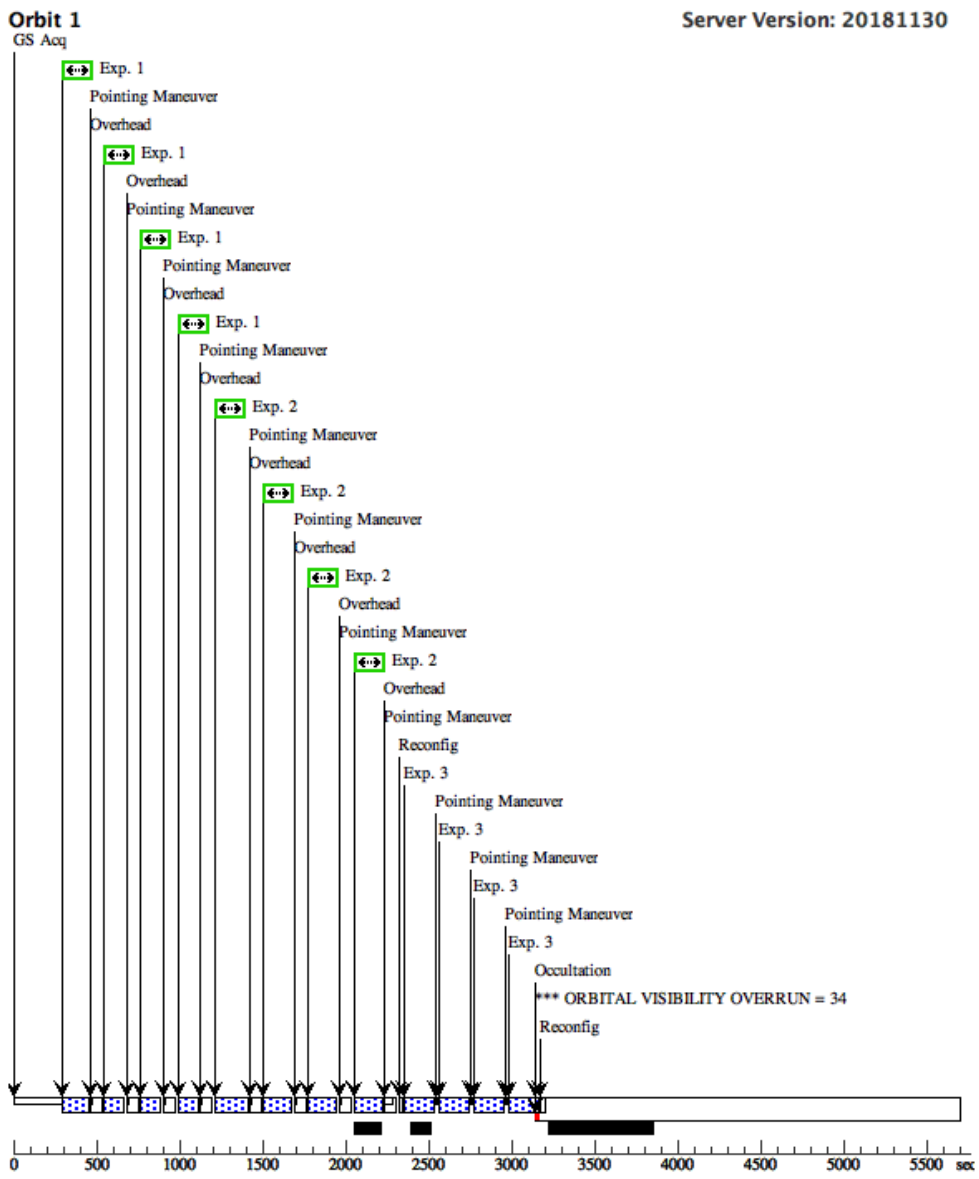
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(19)	NGC4643	RA: 12 43 20.1380 (190.8339083d) Dec: +01 58 41.77 (1.97827d) Equinox: J2000		V=10.61	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(19) NGC4643	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9		Pattern 3, Exps 1-1 in NGC4643 - new (19) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(19) NGC4643	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4643 - new (19) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(19) NGC4643	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4643 - new (19) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4699 - new (20), completed Wed Jan 30 14:01:57 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4699 - new (20)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

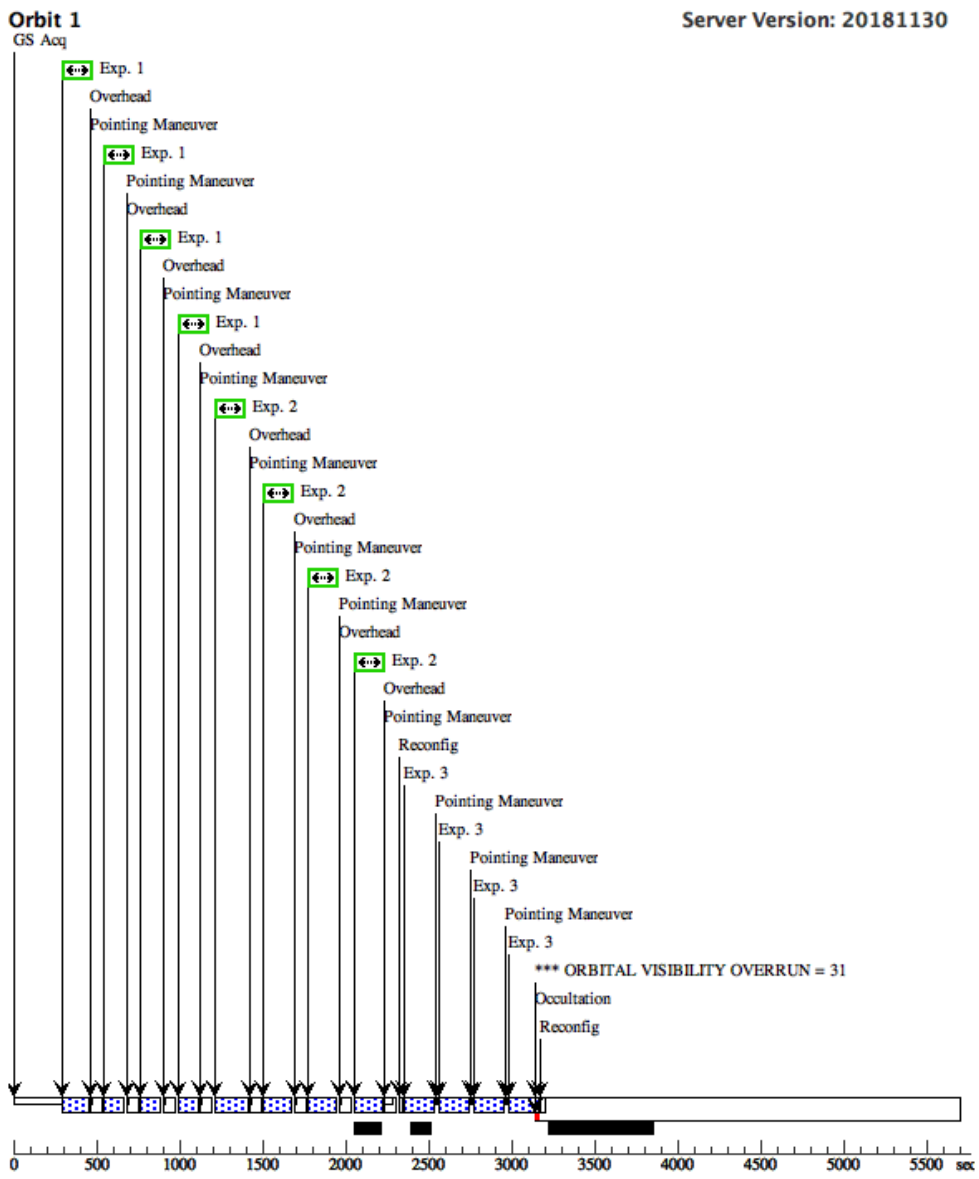
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(20)	NGC4699	RA: 12 49 2.2320 (192.2593000d) Dec: -08 39 53.49 (-8.66486d) Equinox: J2000		V=9.52	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(20) NGC4699	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9		Pattern 3, Exps 1-1 in NGC4699 - new (20) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(20) NGC4699	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4699 - new (20) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(20) NGC4699	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4699 - new (20) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4941 - new (21), completed Wed Jan 30 14:01:57 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4941 - new (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

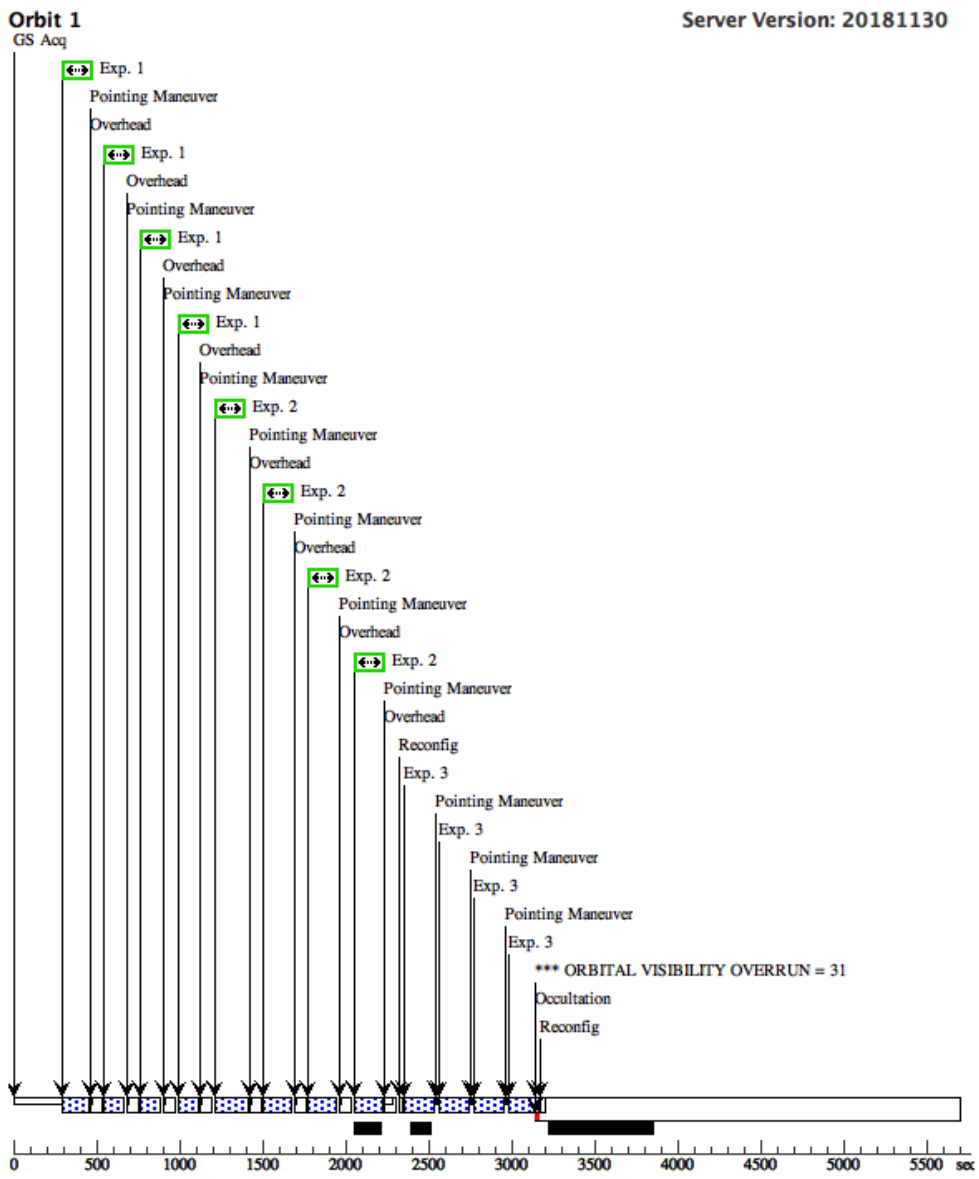
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(21)	NGC4941	RA: 13 04 13.1430 (196.0547625d) Dec: -05 33 5.83 (-5.55162d) Equinox: J2000		V=12.23	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(21) NGC4941	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC4941 - new (21) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
2		(21) NGC4941	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4941 - new (21) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
3		(21) NGC4941	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4941 - new (21) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4984 - new (22), completed Wed Jan 30 14:01:57 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4984 - new (22)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

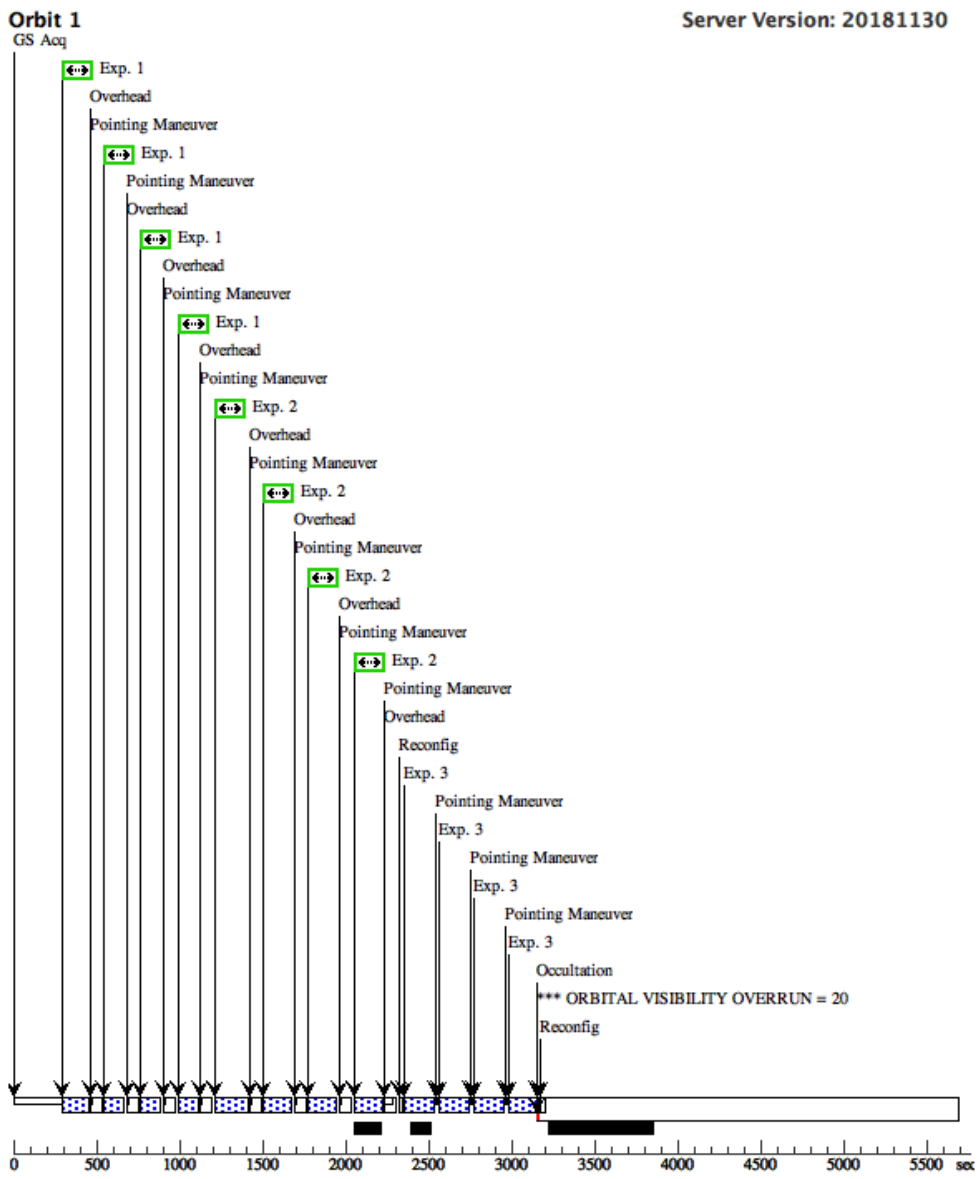
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(22)	NGC4984	RA: 13 08 57.2130 (197.2383875d) Dec: -15 30 58.67 (-15.51630d) Equinox: J2000		V=11.33	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, LENTICULAR, NUCLEUS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(22) NGC4984	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9		Pattern 3, Exps 1-1 in NGC4984 - new (22) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(22) NGC4984	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4984 - new (22) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(22) NGC4984	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4984 - new (22) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC5121 - autoexpand (23), completed Wed Jan 30 14:01:57 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC5121 - autoexpand (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

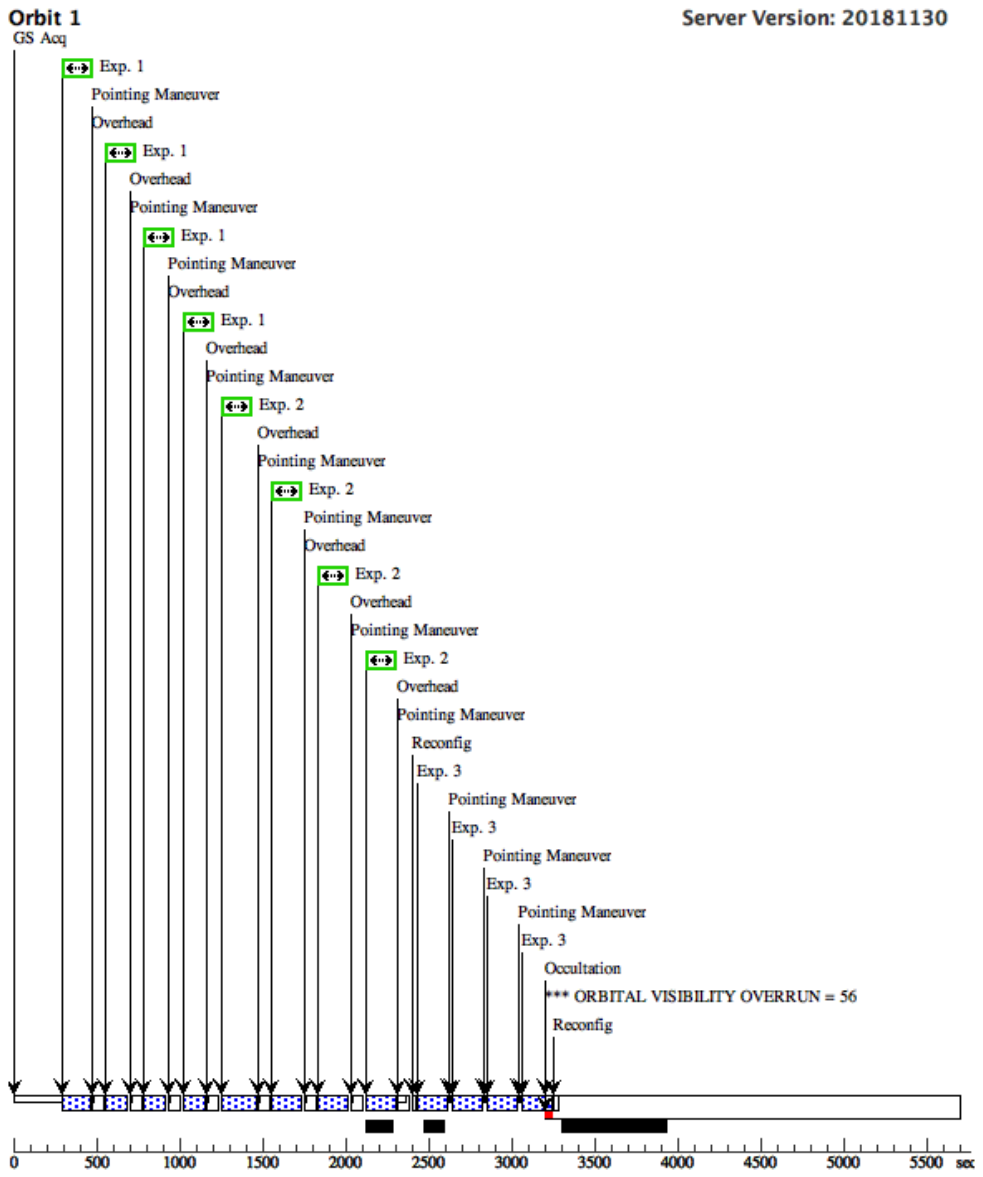
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(23)	NGC5121	RA: 13 24 45.5900 (201.1899583d) Dec: -37 40 55.99 (-37.68222d) Equinox: J2000		V=11.41	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(23) NGC5121	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9		Pattern 3, Exps 1-1 in NGC5121 - autoexpand (23) (3)	125 Secs (540 Secs) *[==>135.0 Secs (Pattern 1)]* *[==>135.0 Secs (Pattern 2)]* *[==>135.0 Secs (Pattern 3)]* *[==>135.0 Secs (Pattern 4)]*	***[1]***
2		(23) NGC5121	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC5121 - autoexpand (23) (3)	175 Secs (740 Secs) *[==>185.0 Secs (Pattern 1)]* *[==>185.0 Secs (Pattern 2)]* *[==>185.0 Secs (Pattern 3)]* *[==>185.0 Secs (Pattern 4)]*	***[1]***
3		(23) NGC5121	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC5121 - autoexpand (23) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC5248 - new (24), completed Wed Jan 30 14:01:57 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC5248 - new (24)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

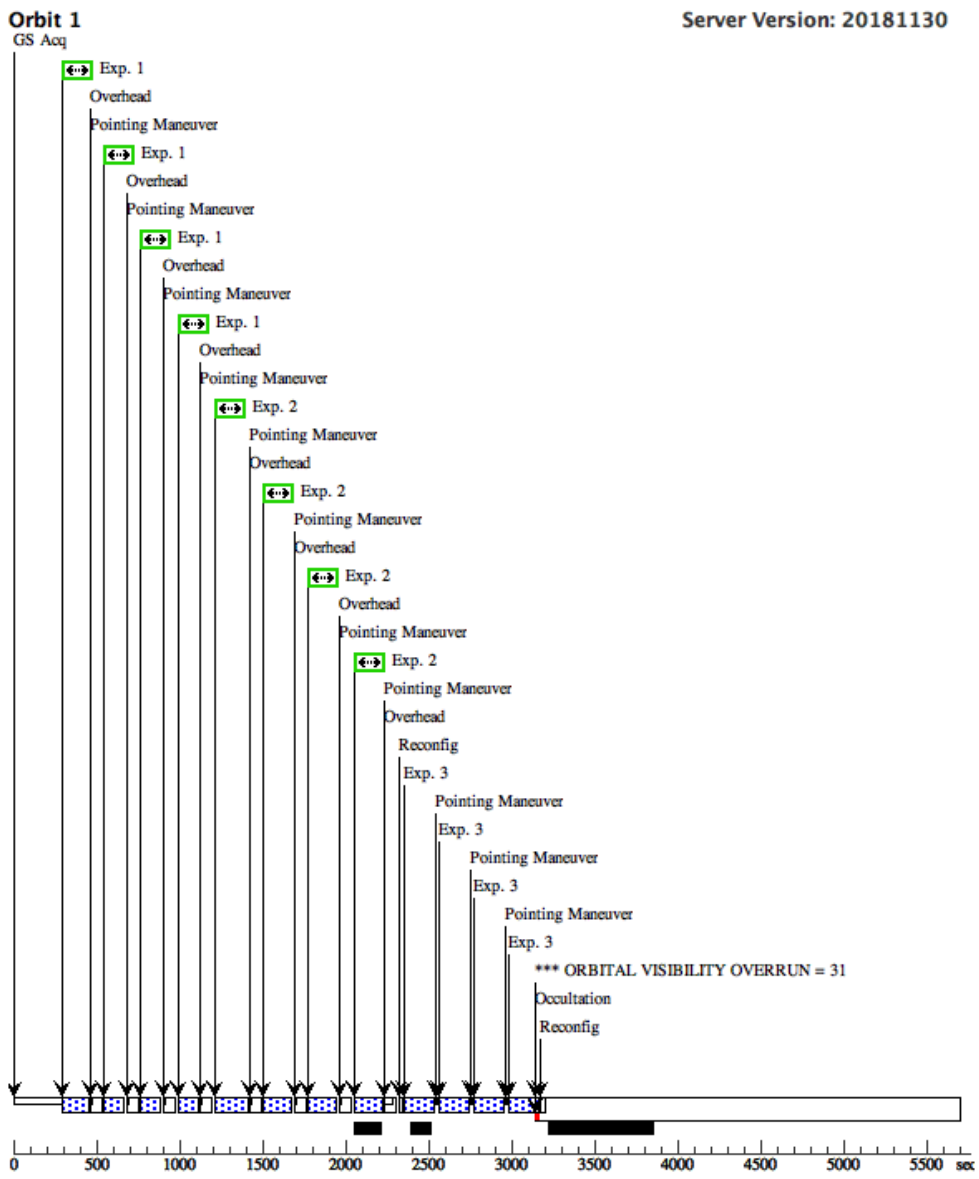
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(24)	NGC5248	RA: 13 37 32.0240 (204.3834333d) Dec: +08 53 6.64 (8.88518d) Equinox: J2000		V=10.32	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(24) NGC5248	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9		Pattern 3, Exps 1-1 in NGC5248 - new (24) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(24) NGC5248	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC5248 - new (24) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(24) NGC5248	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC5248 - new (24) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC5363 - new (25), completed Wed Jan 30 14:01:57 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC5363 - new (25)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

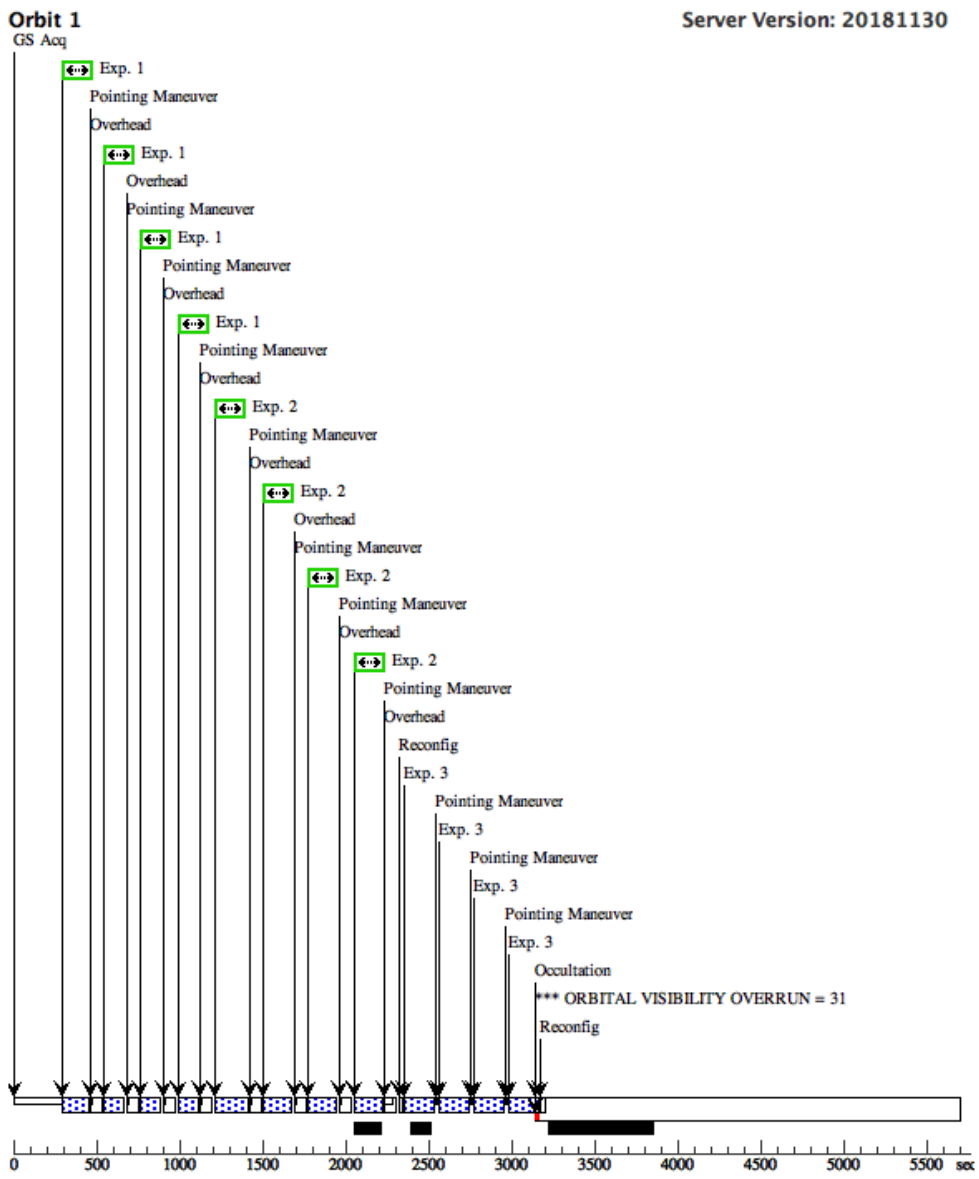
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(25)	NGC5363	RA: 13 56 7.2090 (209.0300375d) Dec: +05 15 17.18 (5.25477d) Equinox: J2000		V=10.51	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, LENTICULAR, NUCLEUS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(25) NGC5363	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC5363 - new (25) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
2		(25) NGC5363	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC5363 - new (25) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
3		(25) NGC5363	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC5363 - new (25) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***

Orbit Structure



Visit

Proposal 15133, NGC5364 - new (26), completed Wed Jan 30 14:01:57 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC5364 - new (26)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

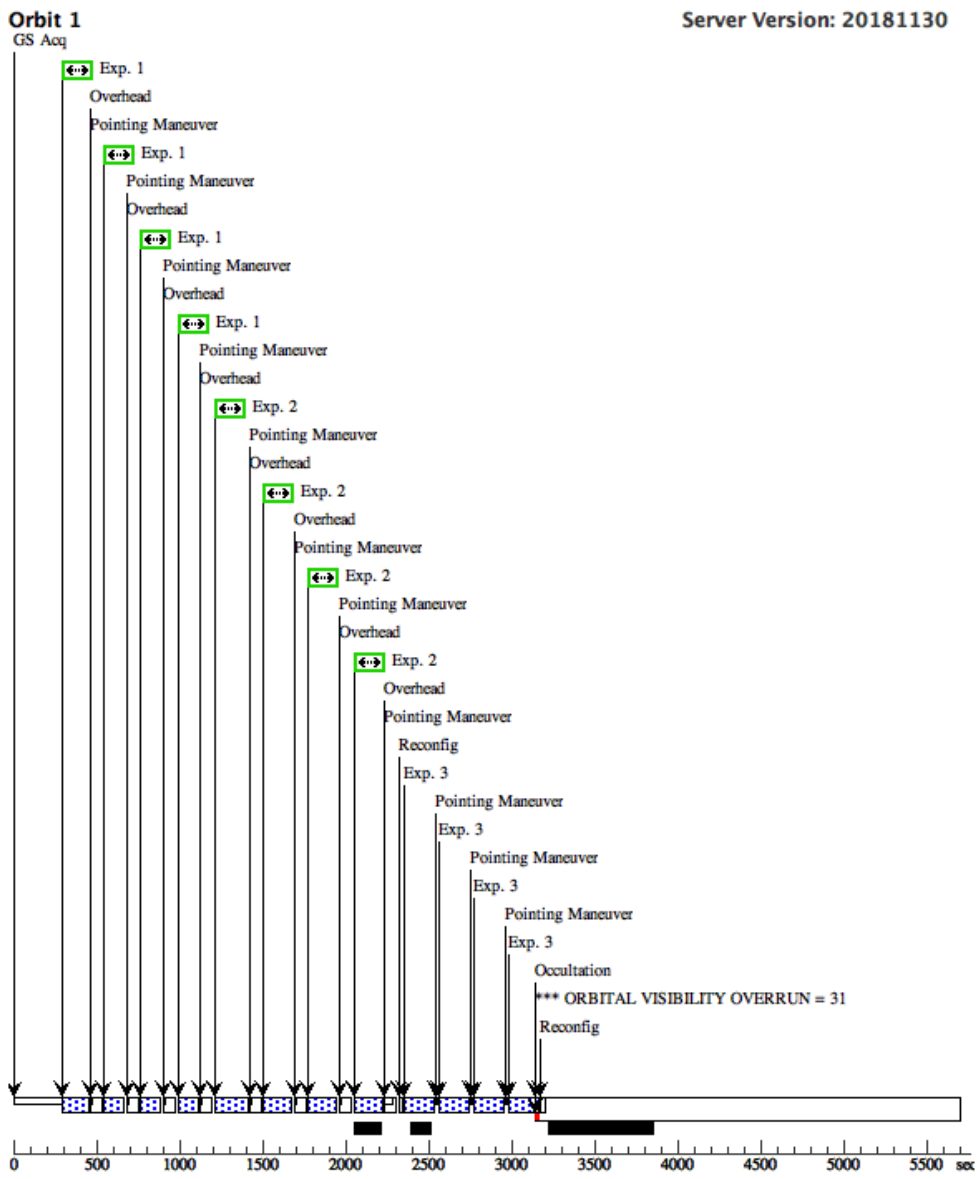
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(26)	NGC5364 Alt Name1: NGC5317	RA: 13 56 12.0040 (209.0500167d) Dec: +05 00 52.06 (5.01446d) Equinox: J2000		V=10.53	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(26) NGC5364	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC5364 - new (26) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	*[1]*
2		(26) NGC5364	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC5364 - new (26) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	*[1]*
3		(26) NGC5364	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC5364 - new (26) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	*[1]*

Orbit Structure



Visit

Proposal 15133, NGC6744 - autoexpand (27), completed Wed Jan 30 14:01:57 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC6744 - autoexpand (27)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

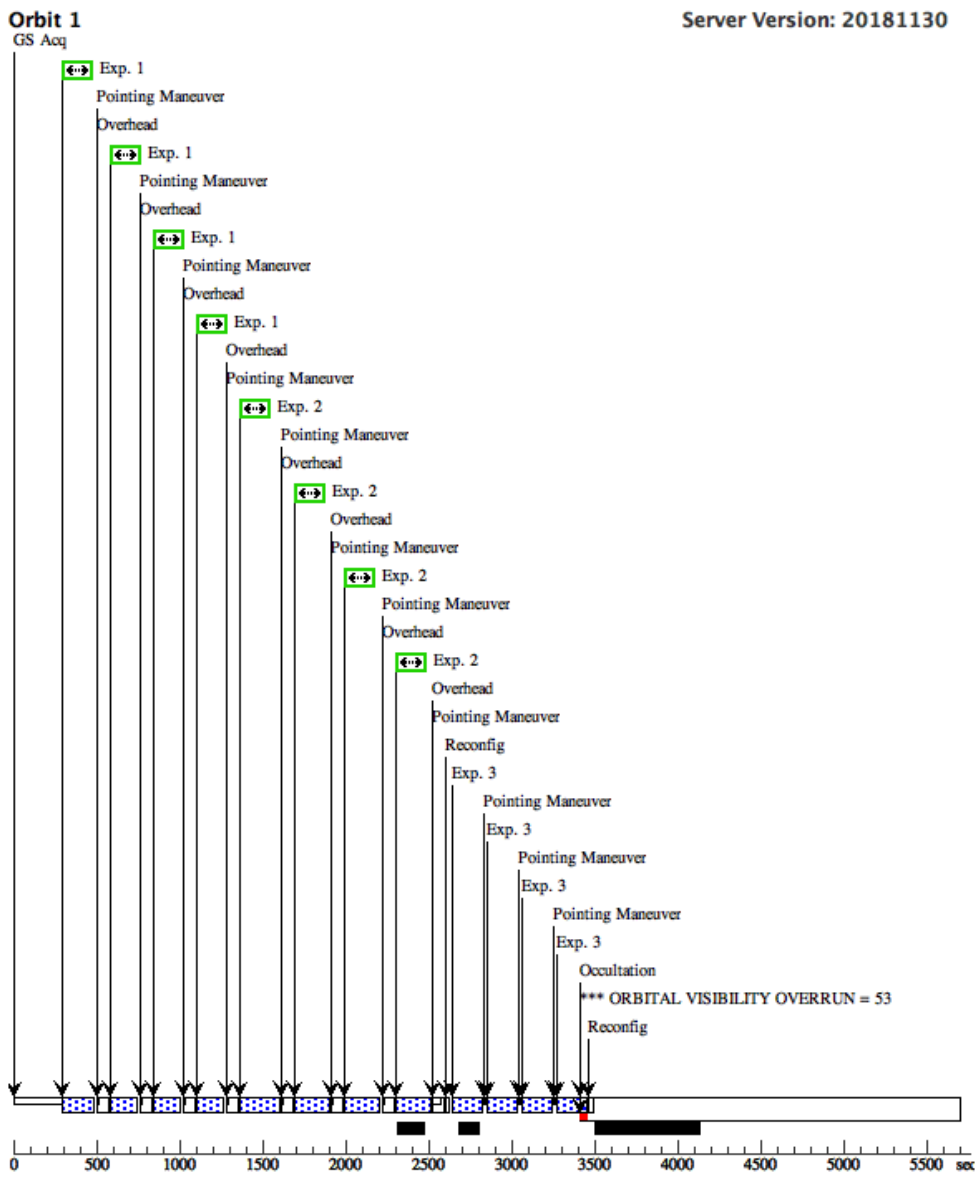
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(27)	NGC6744	RA: 19 09 46.0990 (287.4420792d) Dec: -63 51 27.14 (-63.85754d) Equinox: J2000		V=8.25	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(27) NGC6744	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9		Pattern 3, Exps 1-1 in NGC6744 - autoexpand (27) (3)	125 Secs (652 Secs) *[==>163.0 Secs (Pattern 1)]* *[==>163.0 Secs (Pattern 2)]* *[==>163.0 Secs (Pattern 3)]* *[==>163.0 Secs (Pattern 4)]*	***[1]***
2		(27) NGC6744	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC6744 - autoexpand (27) (3)	175 Secs (852 Secs) *[==>213.0 Secs (Pattern 1)]* *[==>213.0 Secs (Pattern 2)]* *[==>213.0 Secs (Pattern 3)]* *[==>213.0 Secs (Pattern 4)]*	***[1]***
3		(27) NGC6744	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC6744 - autoexpand (27) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC7177 - new (28), completed Wed Jan 30 14:01:57 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC7177 - new (28)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

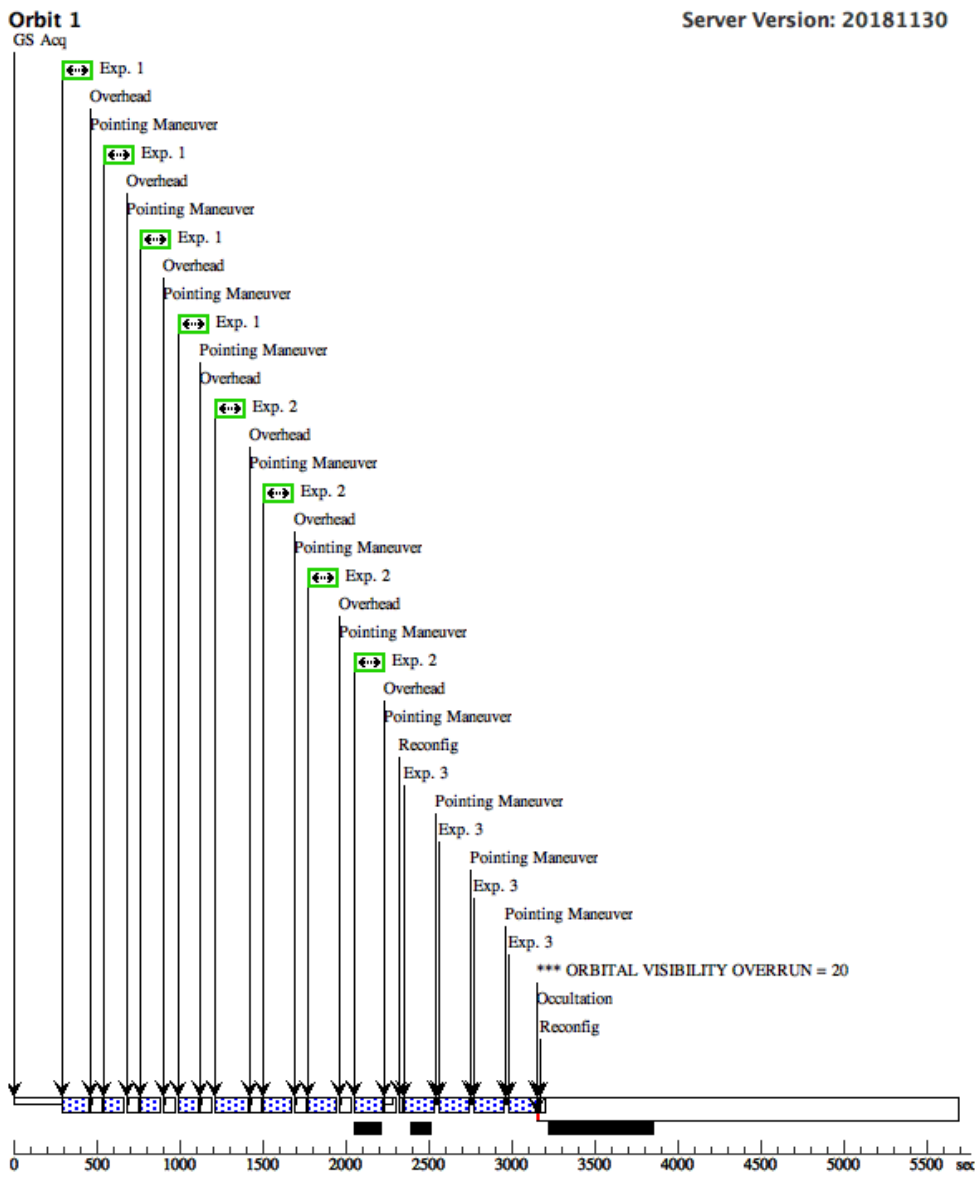
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(28)	NGC7177	RA: 22 00 41.2500 (330.1718750d) Dec: +17 44 17.22 (17.73812d) Equinox: J2000		V=11.20	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(28) NGC7177	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9		Pattern 3, Exps 1-1 in NGC7177 - new (28) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(28) NGC7177	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC7177 - new (28) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(28) NGC7177	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC7177 - new (28) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC7513 - new (29), completed Wed Jan 30 14:01:57 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC7513 - new (29)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

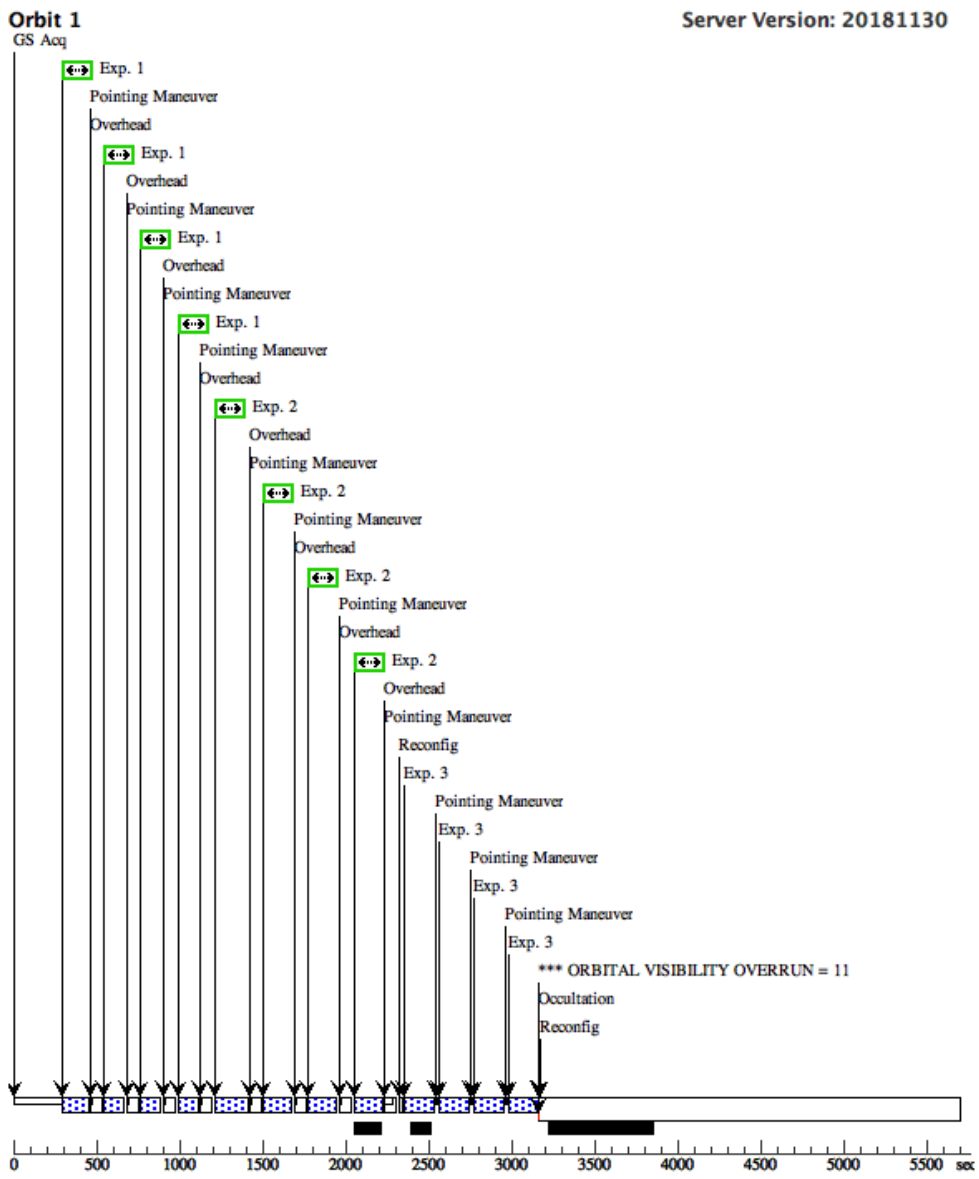
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(29)	NGC7513	RA: 23 13 14.0260 (348.3084417d) Dec: -28 21 26.94 (-28.35748d) Equinox: J2000		V=11.39	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(29) NGC7513	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC7513 - new (29) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(29) NGC7513	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC7513 - new (29) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(29) NGC7513	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC7513 - new (29) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4237 - new (30), completed Wed Jan 30 14:01:57 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4237 - new (30)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

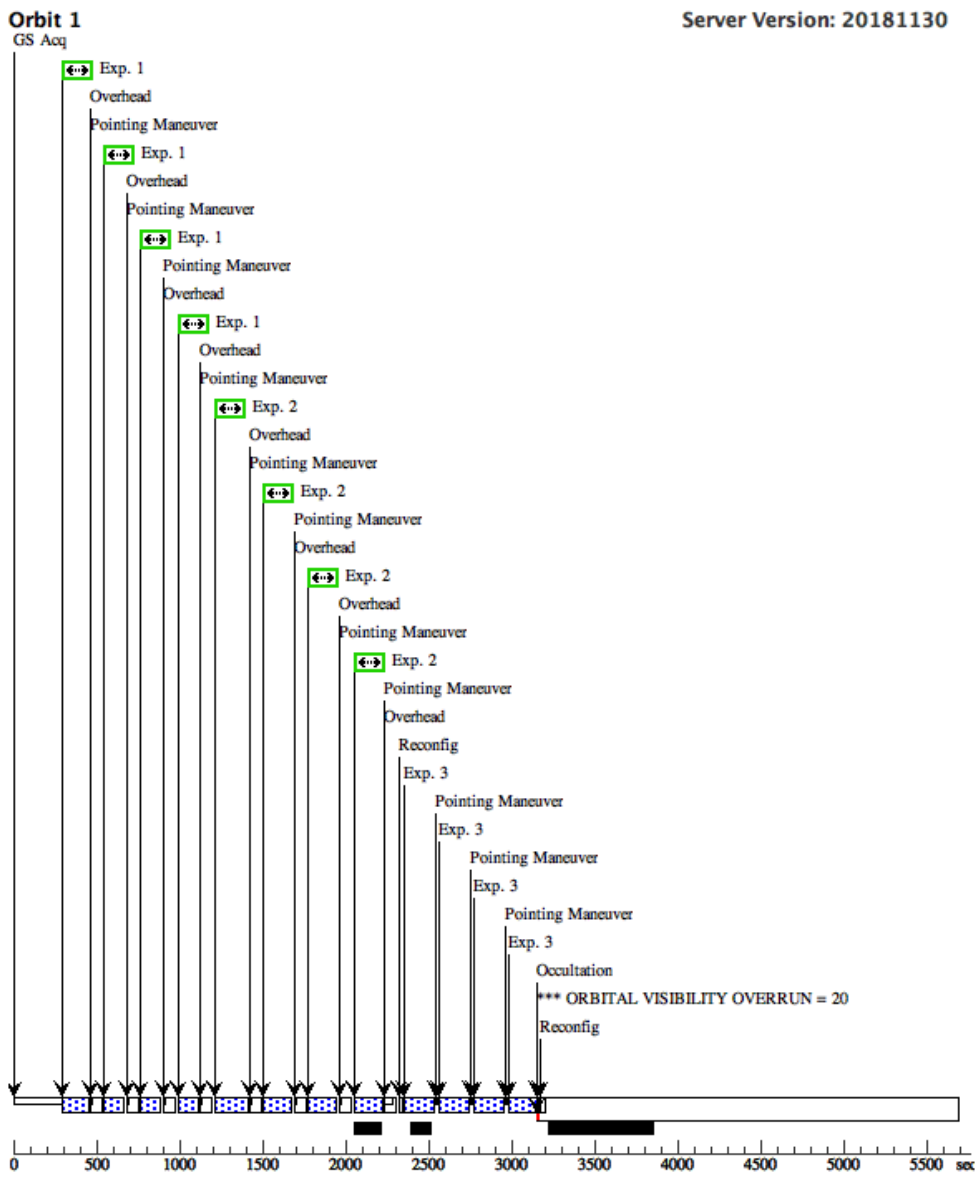
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(30)	NGC4237	RA: 12 17 11.4190 (184.2975792d) Dec: +15 19 26.34 (15.32398d) Equinox: J2000		V=11.64	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(30) NGC4237	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC4237 - new (30) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
2		(30) NGC4237	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4237 - new (30) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
3		(30) NGC4237	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4237 - new (30) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4321 - new (31), completed Wed Jan 30 14:01:57 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4321 - new (31)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

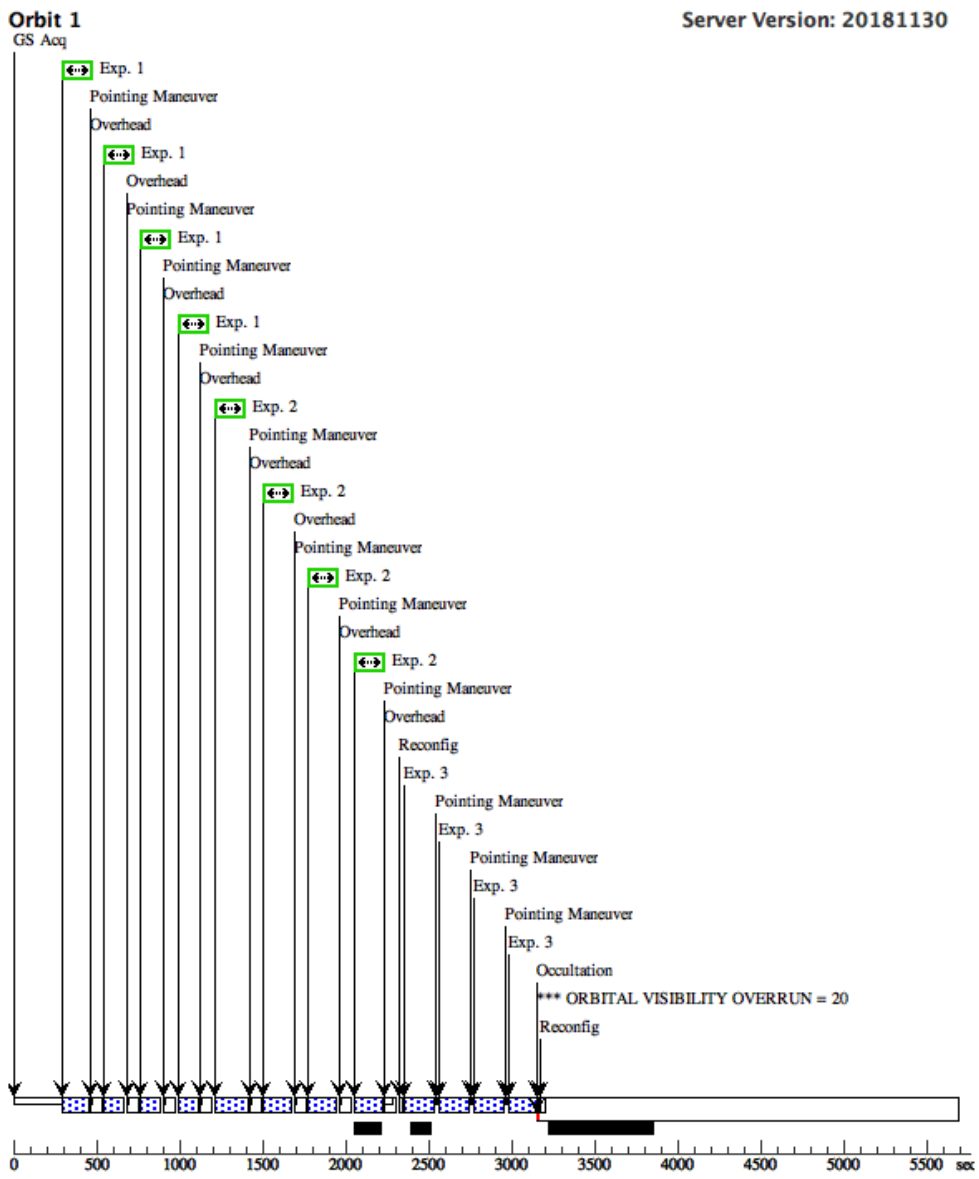
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(31)	NGC4321 Alt Name1: M100	RA: 12 22 54.8310 (185.7284625d) Dec: +15 49 18.54 (15.82182d) Equinox: J2000		V=9.35	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(31) NGC4321	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC4321 - new (31) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
2		(31) NGC4321	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4321 - new (31) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
3		(31) NGC4321	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4321 - new (31) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4340 - new (32), completed Wed Jan 30 14:01:57 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4340 - new (32)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

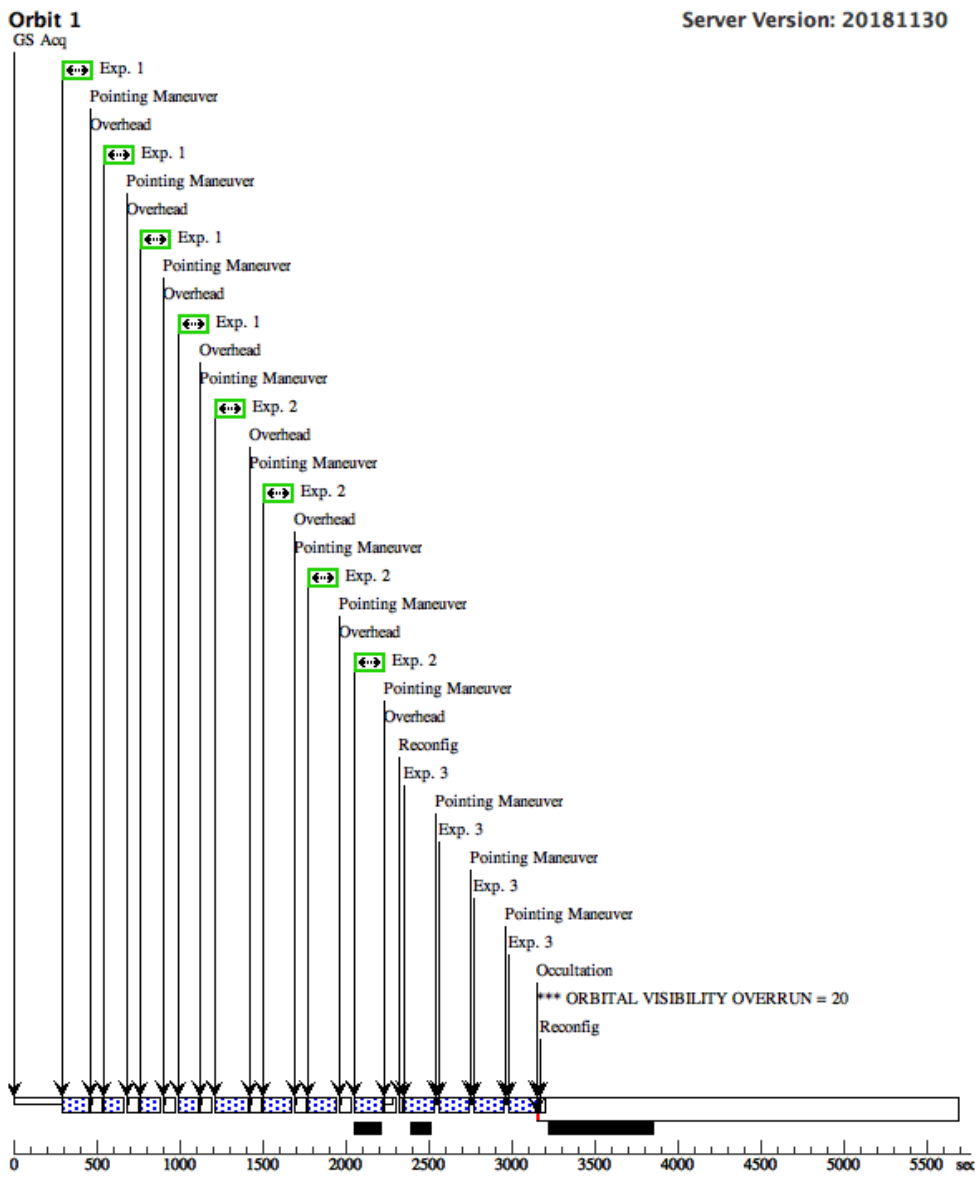
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(32)	NGC4340	RA: 12 23 35.2860 (185.8970250d) Dec: +16 43 20.49 (16.72236d) Equinox: J2000		V=11.08	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, LENTICULAR, NUCLEUS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(32) NGC4340	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC4340 - new (32) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(32) NGC4340	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4340 - new (32) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(32) NGC4340	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4340 - new (32) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4371 - new (33), completed Wed Jan 30 14:01:57 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4371 - new (33)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

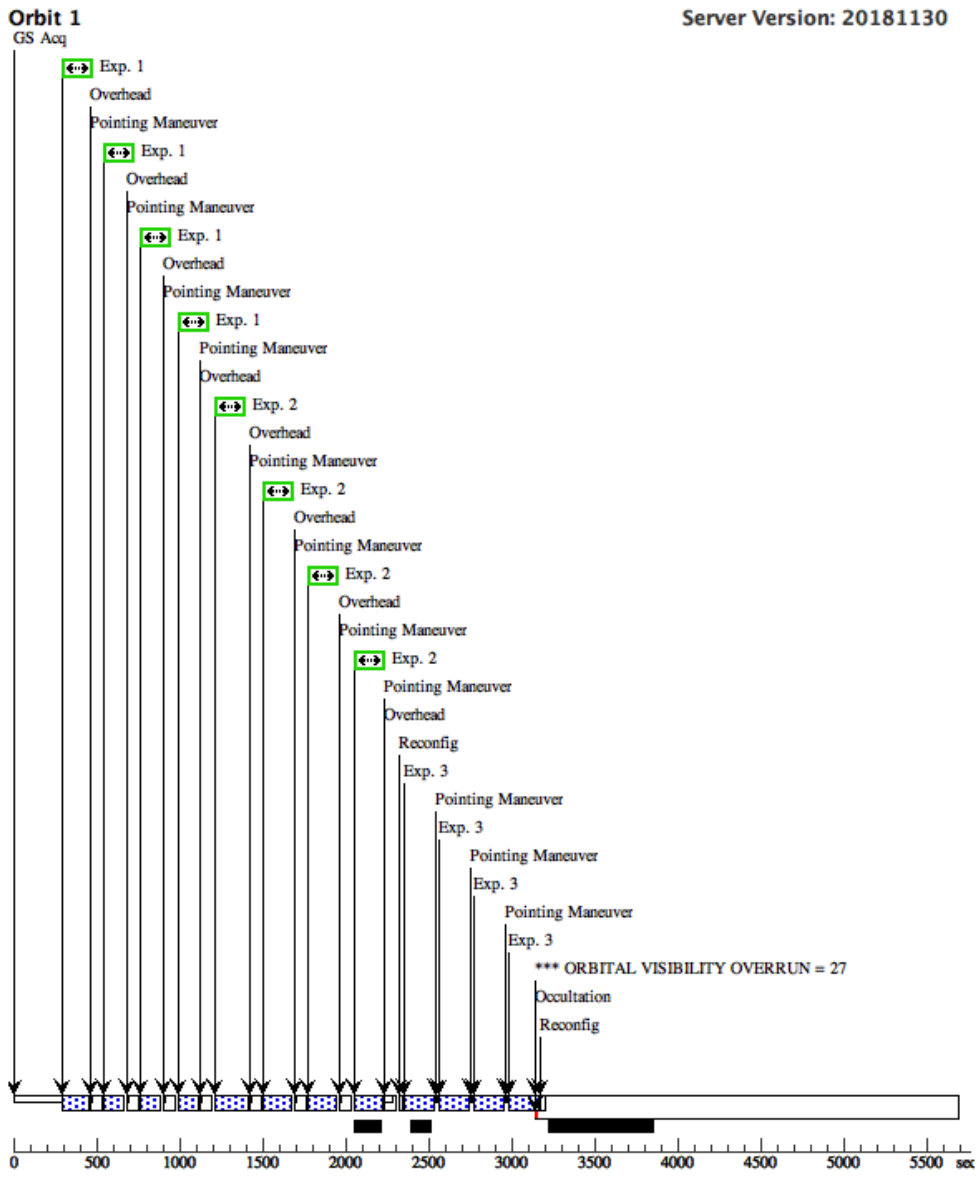
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(33)	NGC4371	RA: 12 24 55.4300 (186.2309583d) Dec: +11 42 15.16 (11.70421d) Equinox: J2000		V=10.81	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, LENTICULAR, NUCLEUS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(33) NGC4371	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC4371 - new (33) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
2		(33) NGC4371	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4371 - new (33) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
3		(33) NGC4371	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4371 - new (33) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4377 - new (34), completed Wed Jan 30 14:01:58 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4377 - new (34)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

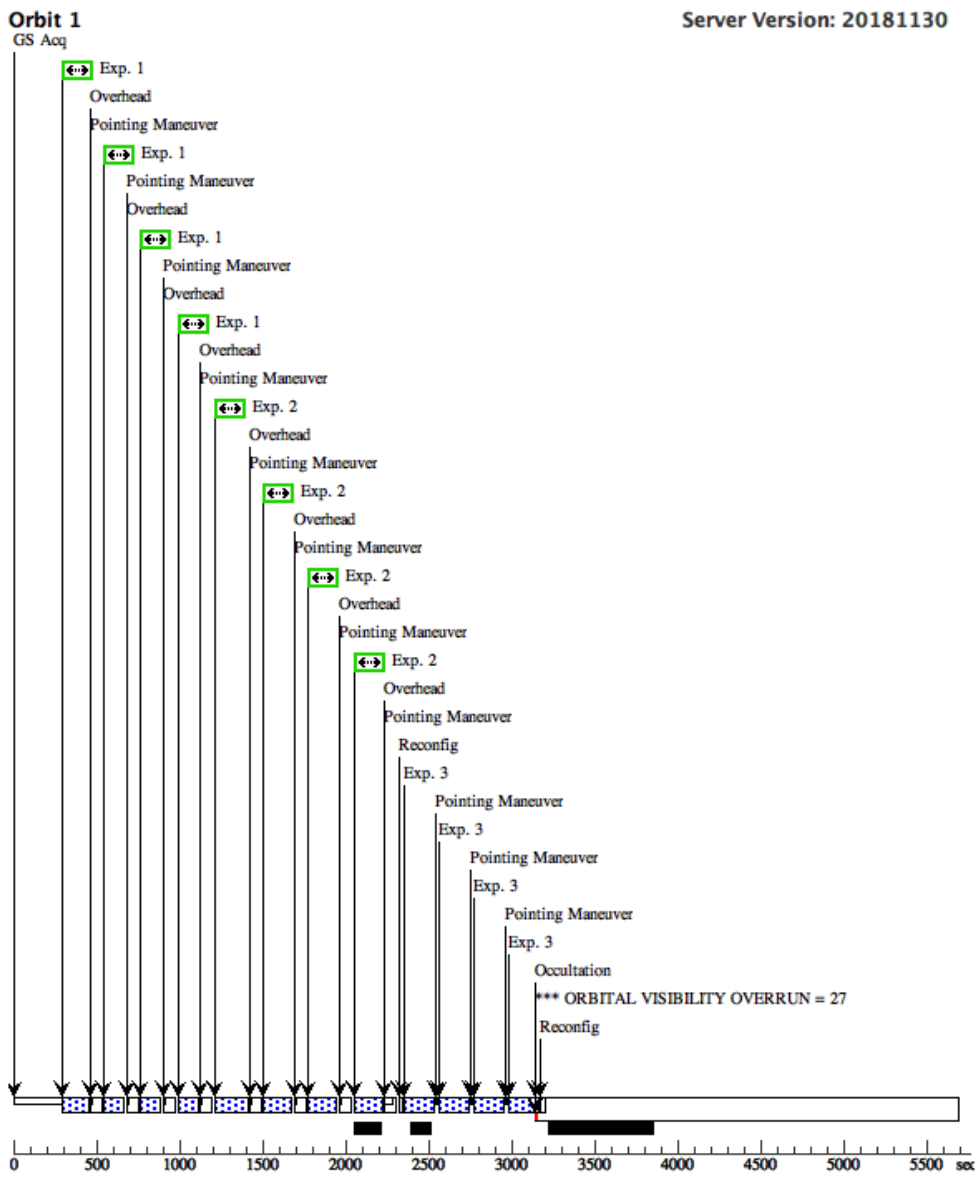
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(34)	NGC4377	RA: 12 25 12.3360 (186.3014000d) Dec: +14 45 43.78 (14.76216d) Equinox: J2000		V=11.88	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, LENTICULAR, NUCLEUS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(34) NGC4377	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC4377 - new (34) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(34) NGC4377	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4377 - new (34) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(34) NGC4377	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4377 - new (34) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4379 - new (35), completed Wed Jan 30 14:01:58 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4379 - new (35)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

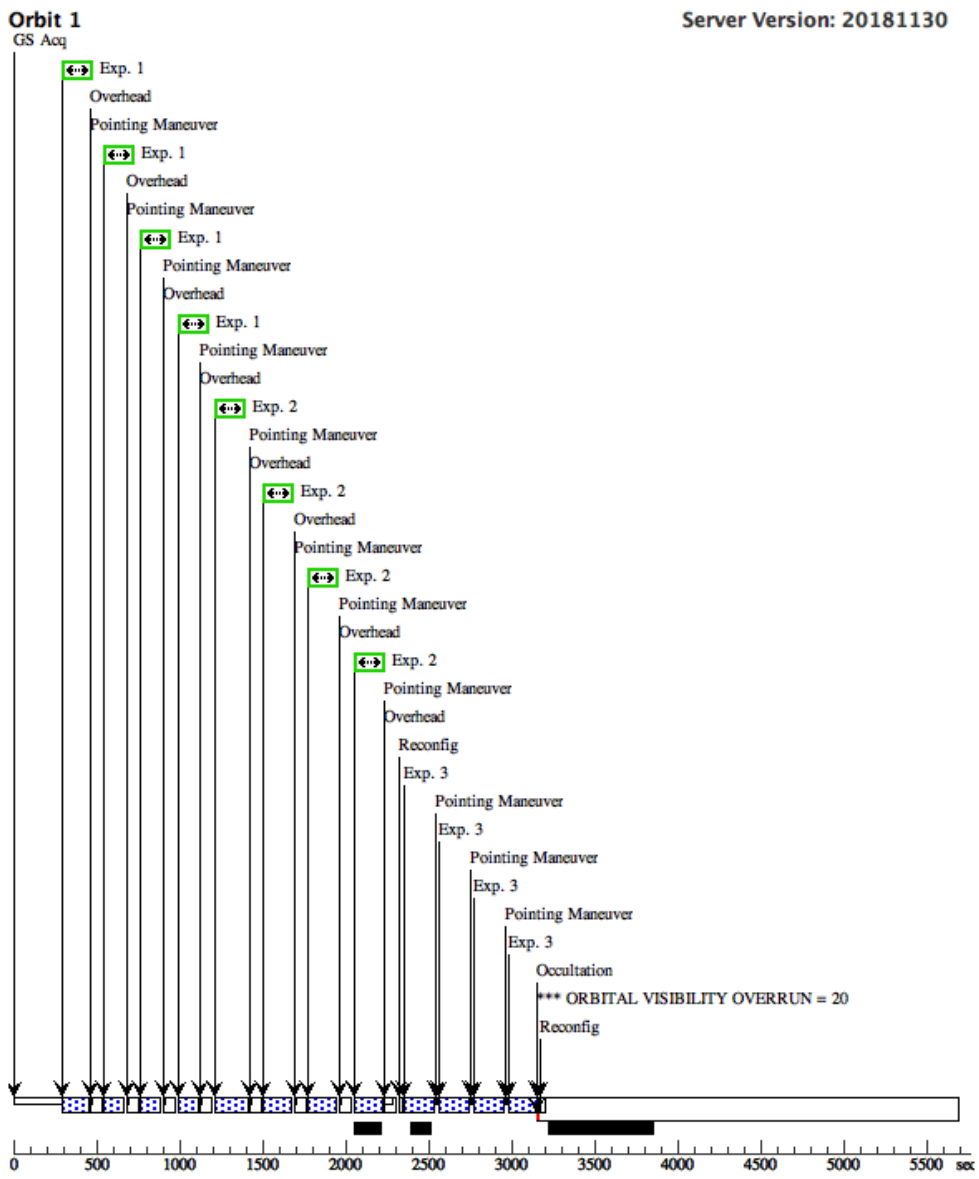
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(35)	NGC4379	RA: 12 25 14.7330 (186.3113875d) Dec: +15 36 26.99 (15.60750d) Equinox: J2000		V=11.72	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, LENTICULAR, NUCLEUS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(35) NGC4379	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC4379 - new (35) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(35) NGC4379	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4379 - new (35) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(35) NGC4379	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4379 - new (35) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4380 - new (36), completed Wed Jan 30 14:01:58 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4380 - new (36)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

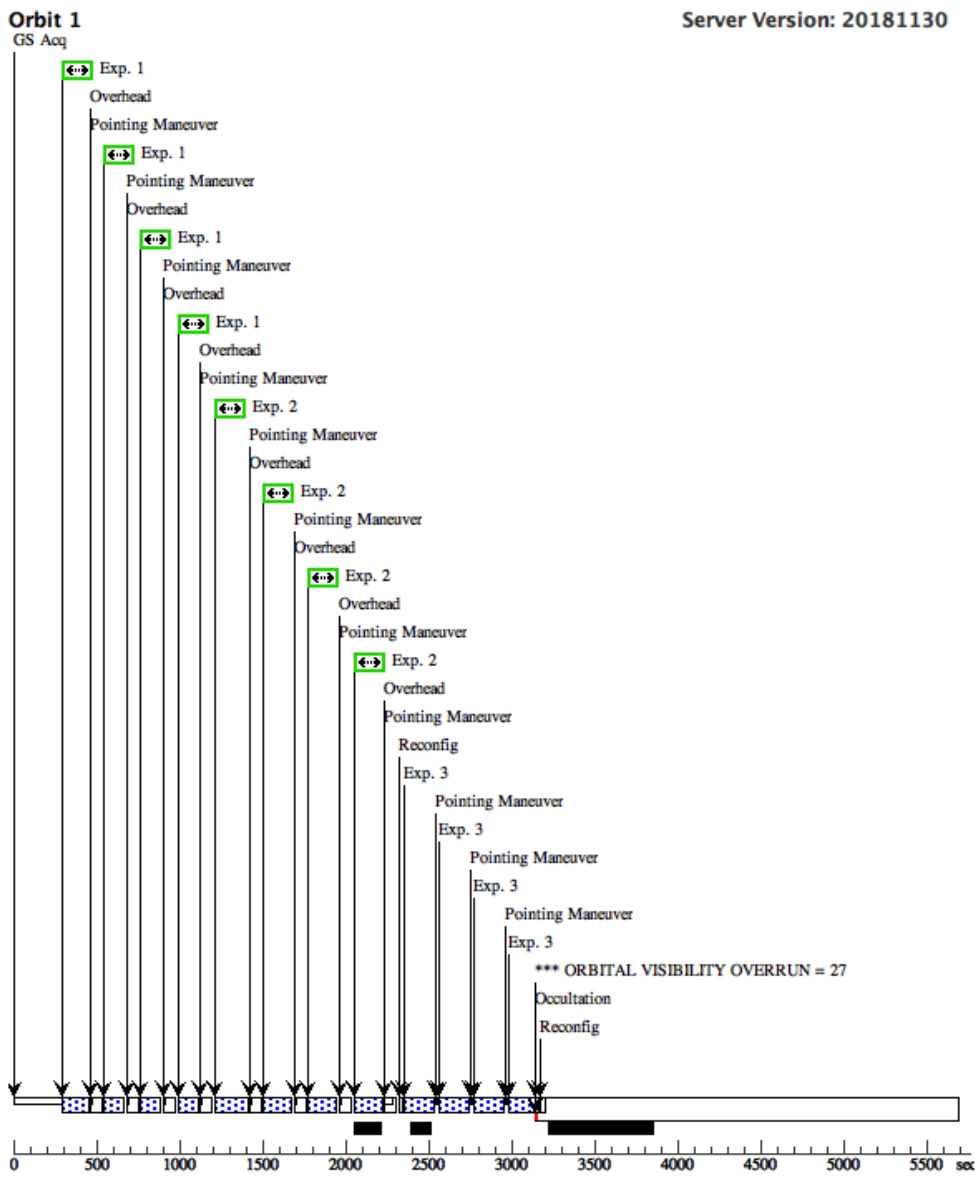
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(36)	NGC4380	RA: 12 25 22.1700 (186.3423750d) Dec: +10 01 0.50 (10.01681d) Equinox: J2000		V=10.90	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(36) NGC4380	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC4380 - new (36) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(36) NGC4380	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4380 - new (36) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(36) NGC4380	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4380 - new (36) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4421 - new (37), completed Wed Jan 30 14:01:58 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4421 - new (37)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

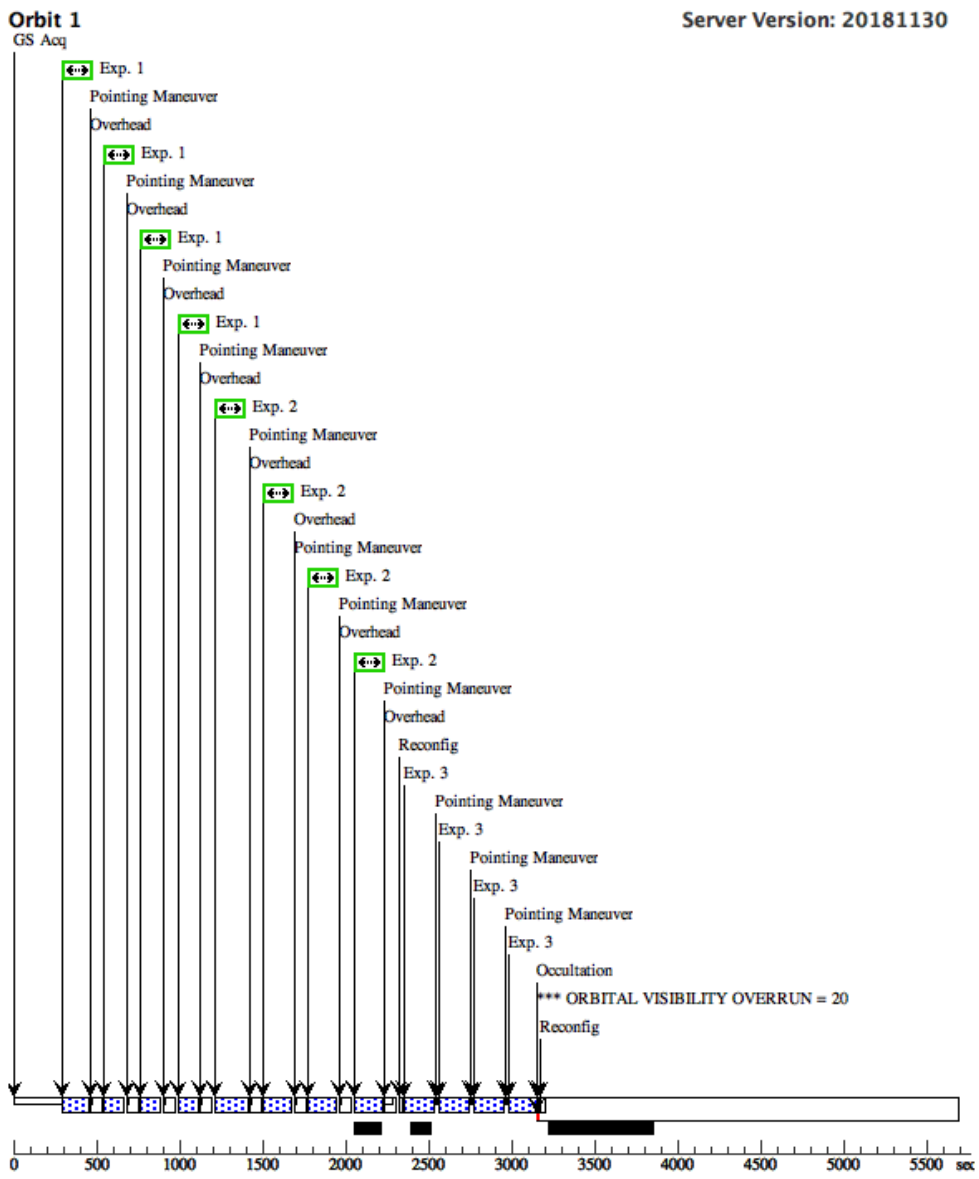
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(37)	NGC4421	RA: 12 27 2.5380 (186.7605750d) Dec: +15 27 41.34 (15.46148d) Equinox: J2000		V=11.6	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(37) NGC4421	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC4421 - new (37) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(37) NGC4421	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4421 - new (37) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(37) NGC4421	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4421 - new (37) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4440 - new (38), completed Wed Jan 30 14:01:58 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4440 - new (38)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

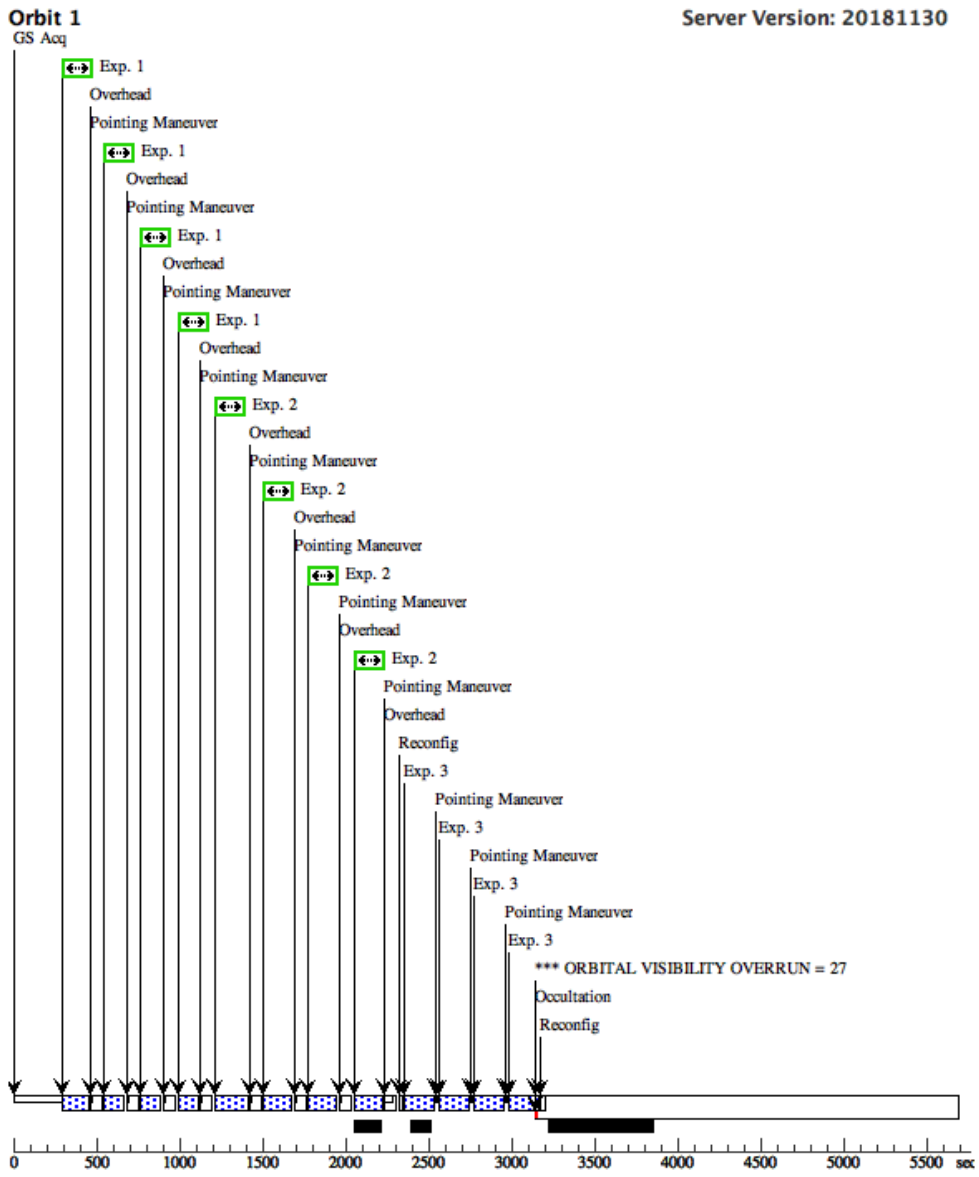
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(38)	NGC4440	RA: 12 27 53.5670 (186.9731958d) Dec: +12 17 35.81 (12.29328d) Equinox: J2000		V=11.72	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(38) NGC4440	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC4440 - new (38) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(38) NGC4440	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4440 - new (38) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(38) NGC4440	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4440 - new (38) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4450 - new (39), completed Wed Jan 30 14:01:58 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4450 - new (39)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

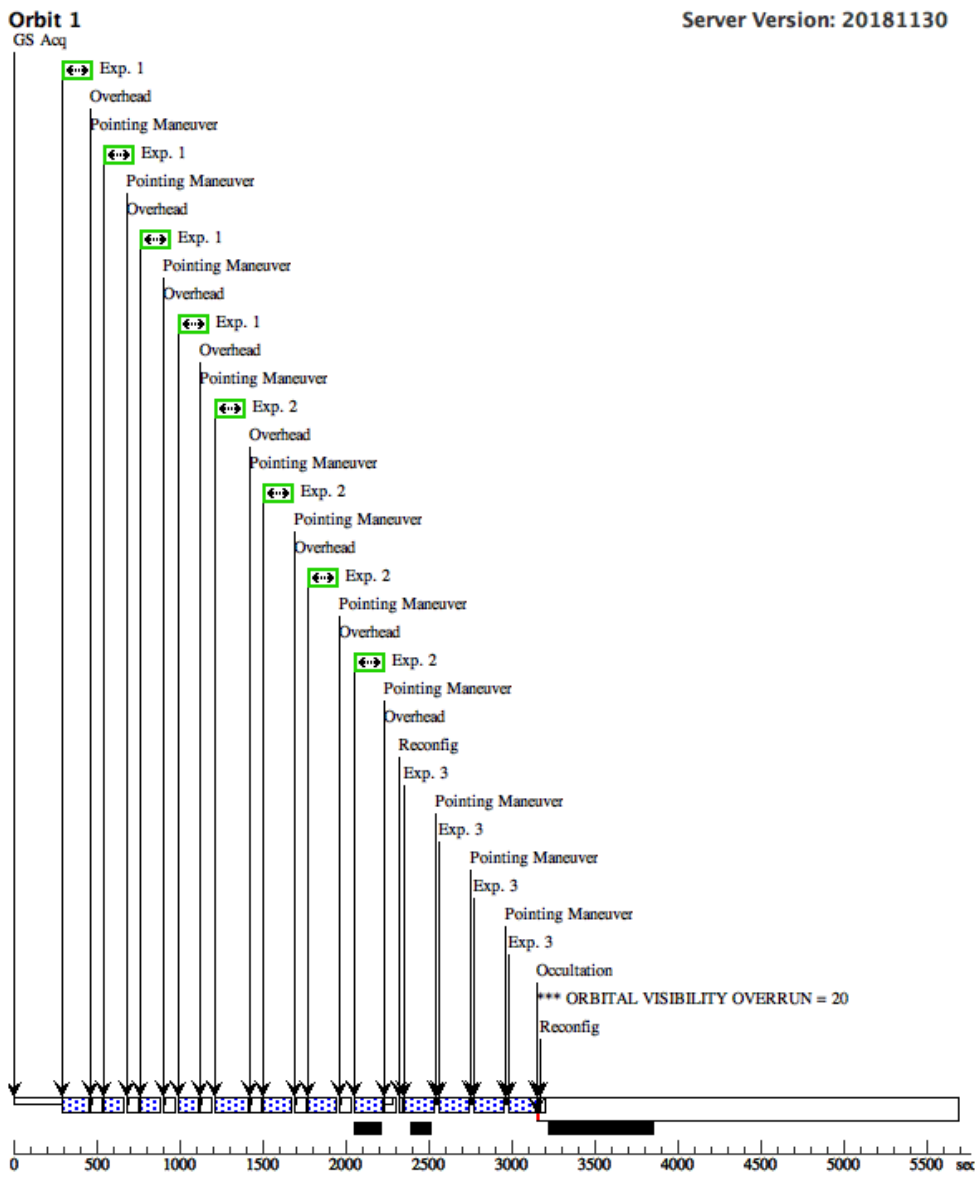
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(39)	NGC4450	RA: 12 28 29.6340 (187.1234750d) Dec: +17 05 5.82 (17.08495d) Equinox: J2000		V=10.08	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(39) NGC4450	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC4450 - new (39) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
2		(39) NGC4450	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4450 - new (39) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
3		(39) NGC4450	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4450 - new (39) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4457 - new (40), completed Wed Jan 30 14:01:58 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4457 - new (40)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

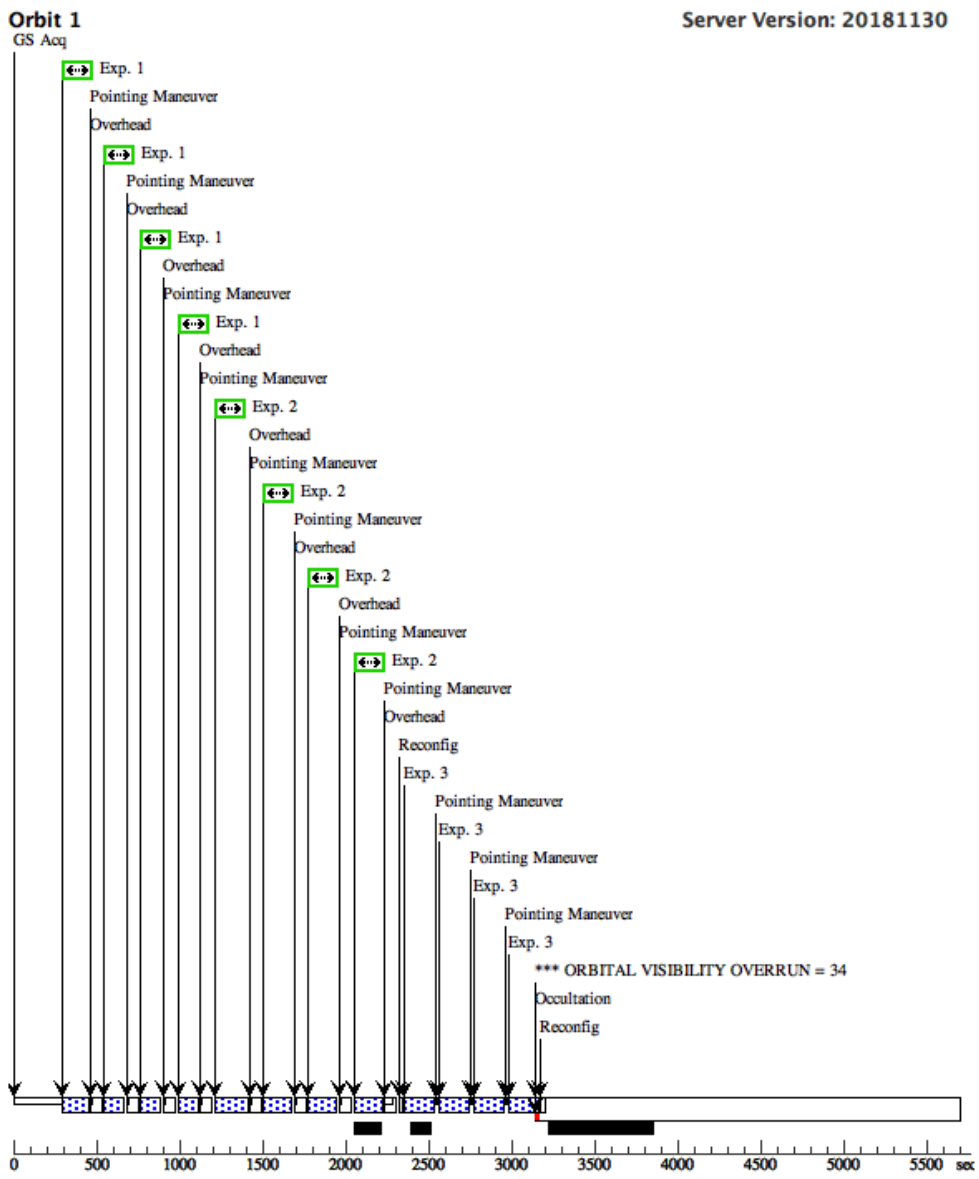
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(40)	NGC4457	RA: 12 28 59.0110 (187.2458792d) Dec: +03 34 14.19 (3.57061d) Equinox: J2000		V=10.46	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(40) NGC4457	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC4457 - new (40) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(40) NGC4457	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4457 - new (40) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(40) NGC4457	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4457 - new (40) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4459 - new (41), completed Wed Jan 30 14:01:58 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4459 - new (41)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

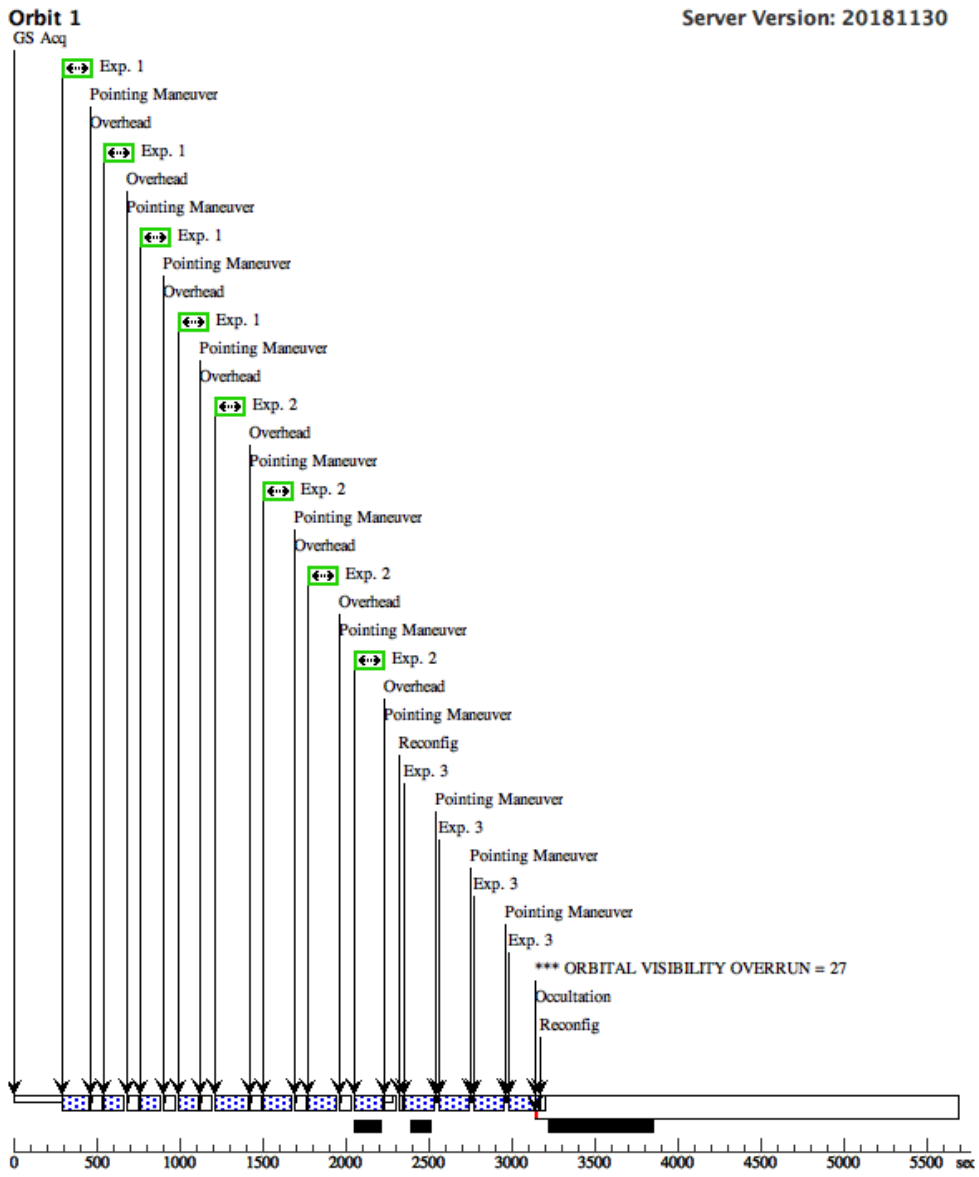
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(41)	NGC4459	RA: 12 29 0.0090 (187.2500375d) Dec: +13 58 42.14 (13.97837d) Equinox: J2000		V=10.21	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, LENTICULAR, NUCLEUS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(41) NGC4459	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC4459 - new (41) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(41) NGC4459	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4459 - new (41) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(41) NGC4459	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4459 - new (41) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4501 - new (42), completed Wed Jan 30 14:01:58 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4501 - new (42)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

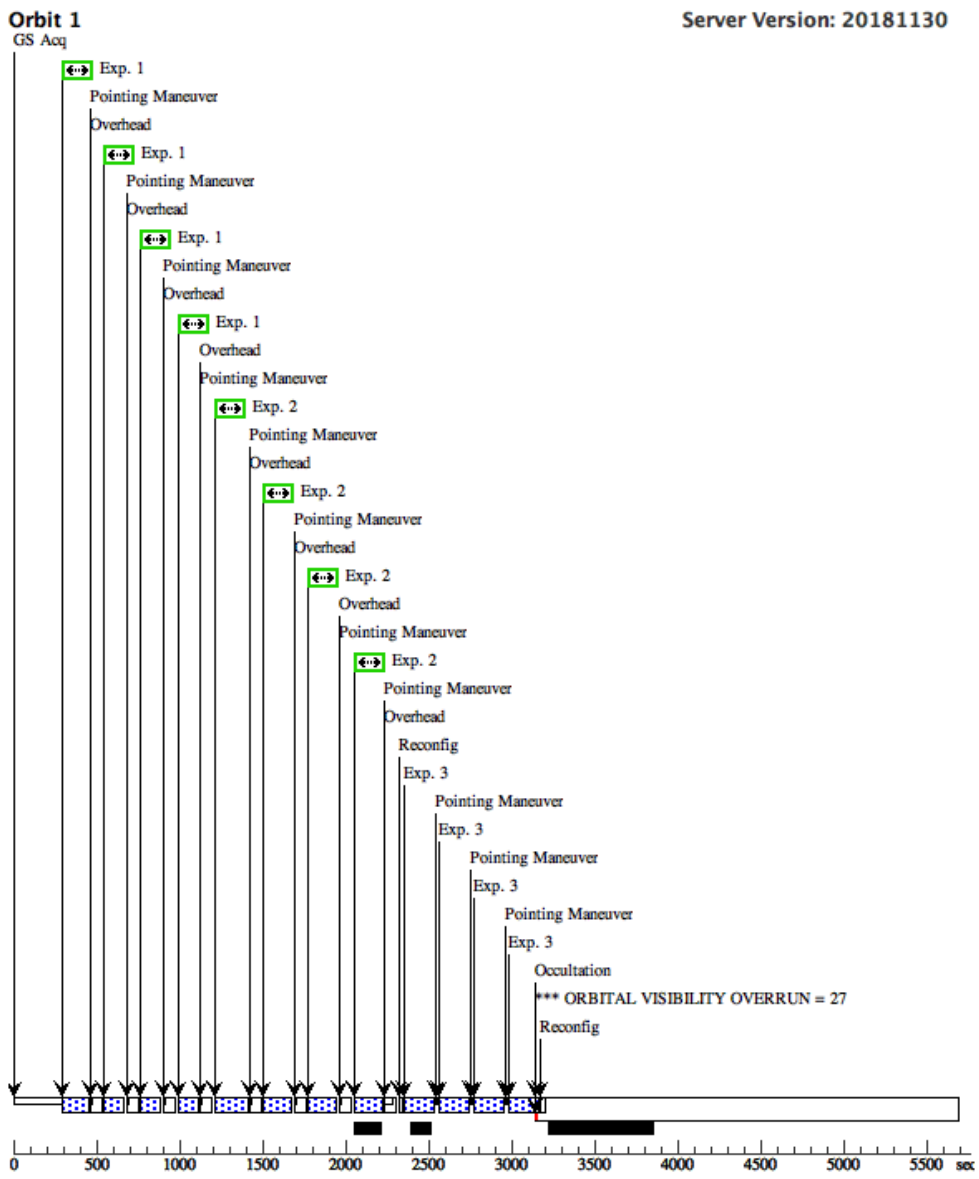
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(42)	NGC4501 Alt Name1: M88	RA: 12 31 59.2160 (187.9967333d) Dec: +14 25 13.48 (14.42041d) Equinox: J2000		V=13.18	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(42) NGC4501	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC4501 - new (42) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
2		(42) NGC4501	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4501 - new (42) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
3		(42) NGC4501	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4501 - new (42) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4528 - new (43), scheduling Wed Jan 30 14:01:58 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4528 - new (43)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

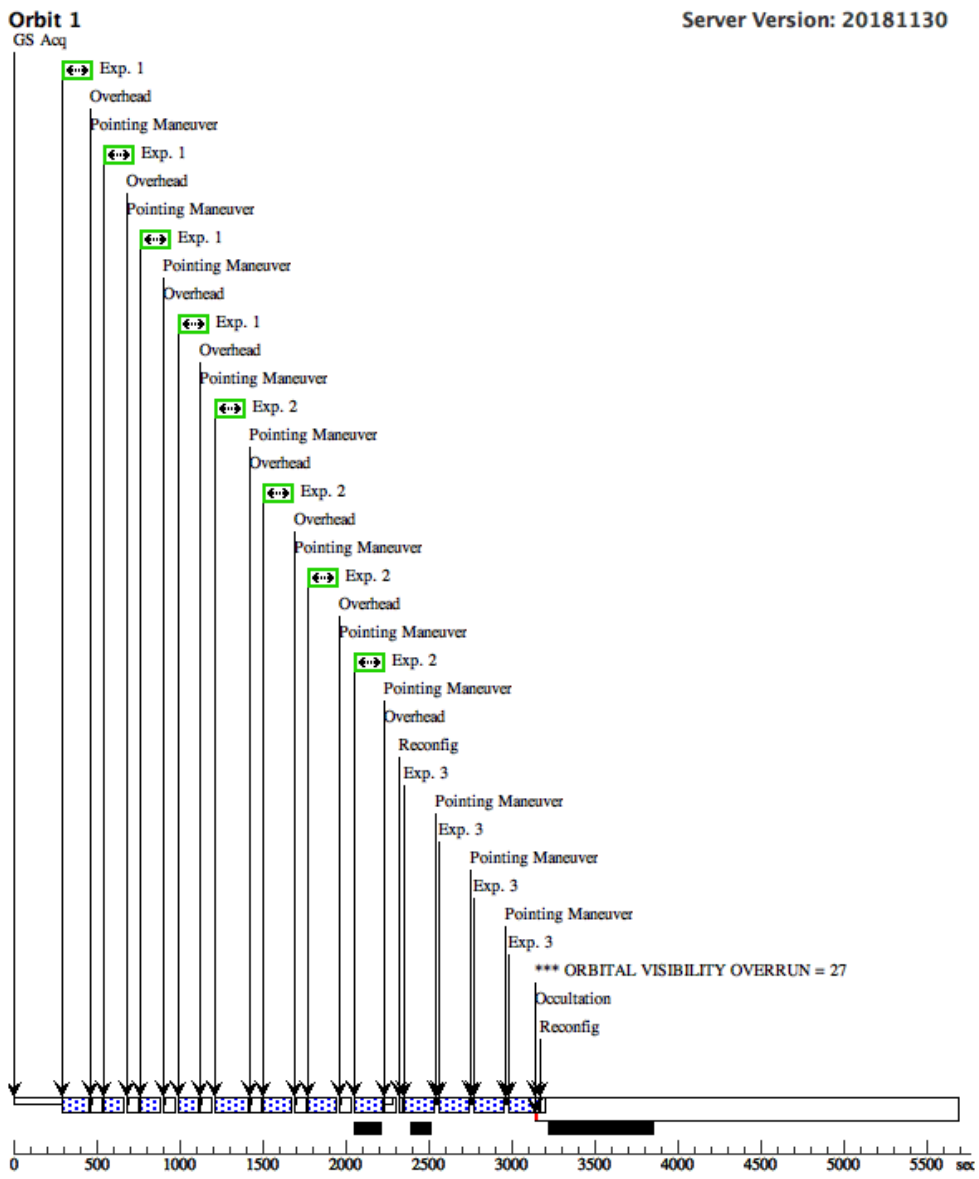
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(43)	NGC4528	RA: 12 34 6.0740 (188.5253083d) Dec: +11 19 16.53 (11.32126d) Equinox: J2000		V=12.06	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, LENTICULAR, NUCLEUS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(43) NGC4528	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC4528 - new (43) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	*[1]*
2		(43) NGC4528	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4528 - new (43) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	*[1]*
3		(43) NGC4528	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4528 - new (43) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	*[1]*

Orbit Structure



Visit

Proposal 15133, NGC4531 - new (44), failed Wed Jan 30 14:01:58 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4531 - new (44)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

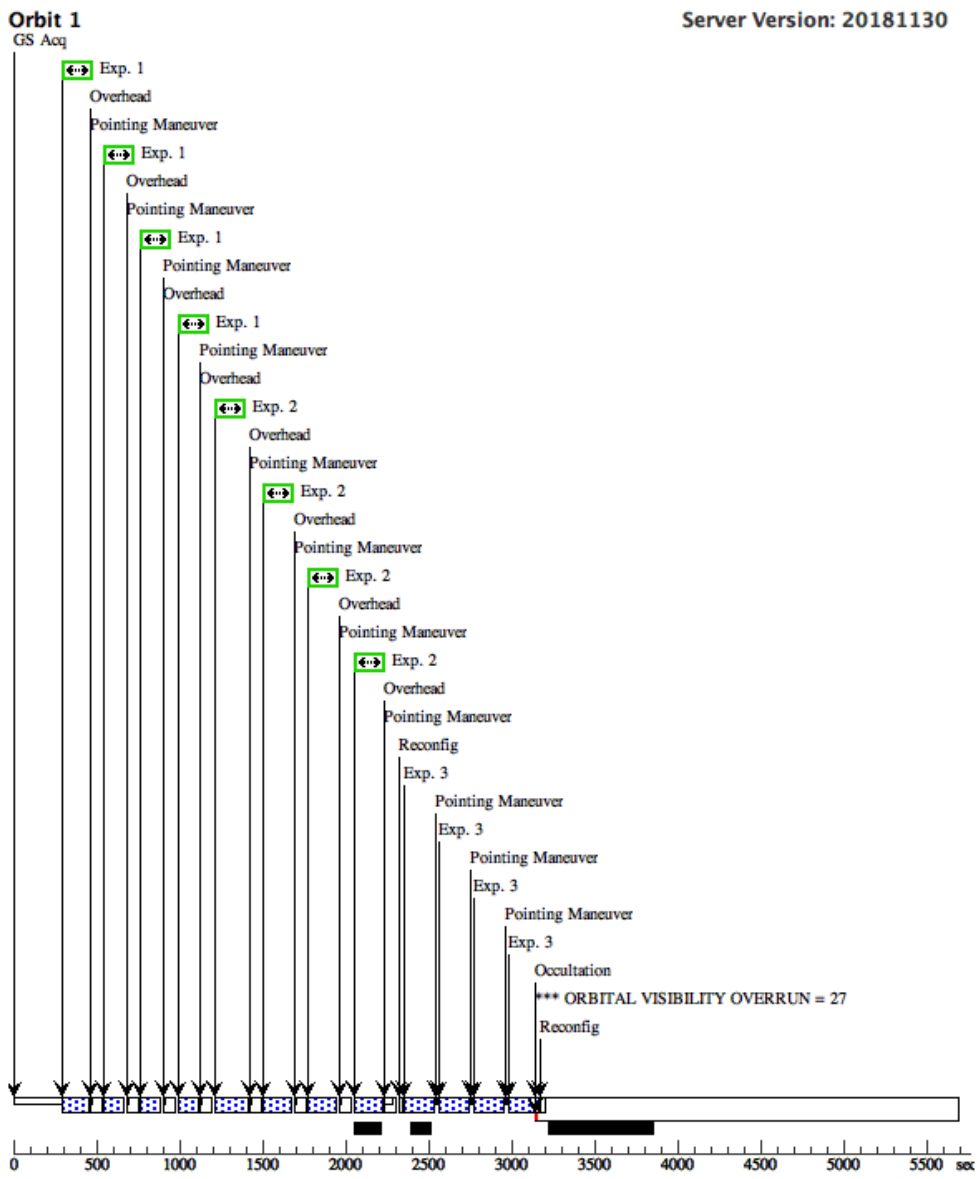
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(44)	NGC4531	RA: 12 34 15.8880 (188.5662000d) Dec: +13 04 31.15 (13.07532d) Equinox: J2000		V=11.29	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, LENTICULAR, NUCLEUS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(44) NGC4531	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC4531 - new (44) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(44) NGC4531	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4531 - new (44) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(44) NGC4531	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4531 - new (44) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4531 - new (55), completed Wed Jan 30 14:01:58 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Comments: HOPR repeat of visit 44

Diagnostics

(NGC4531 - new (55)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

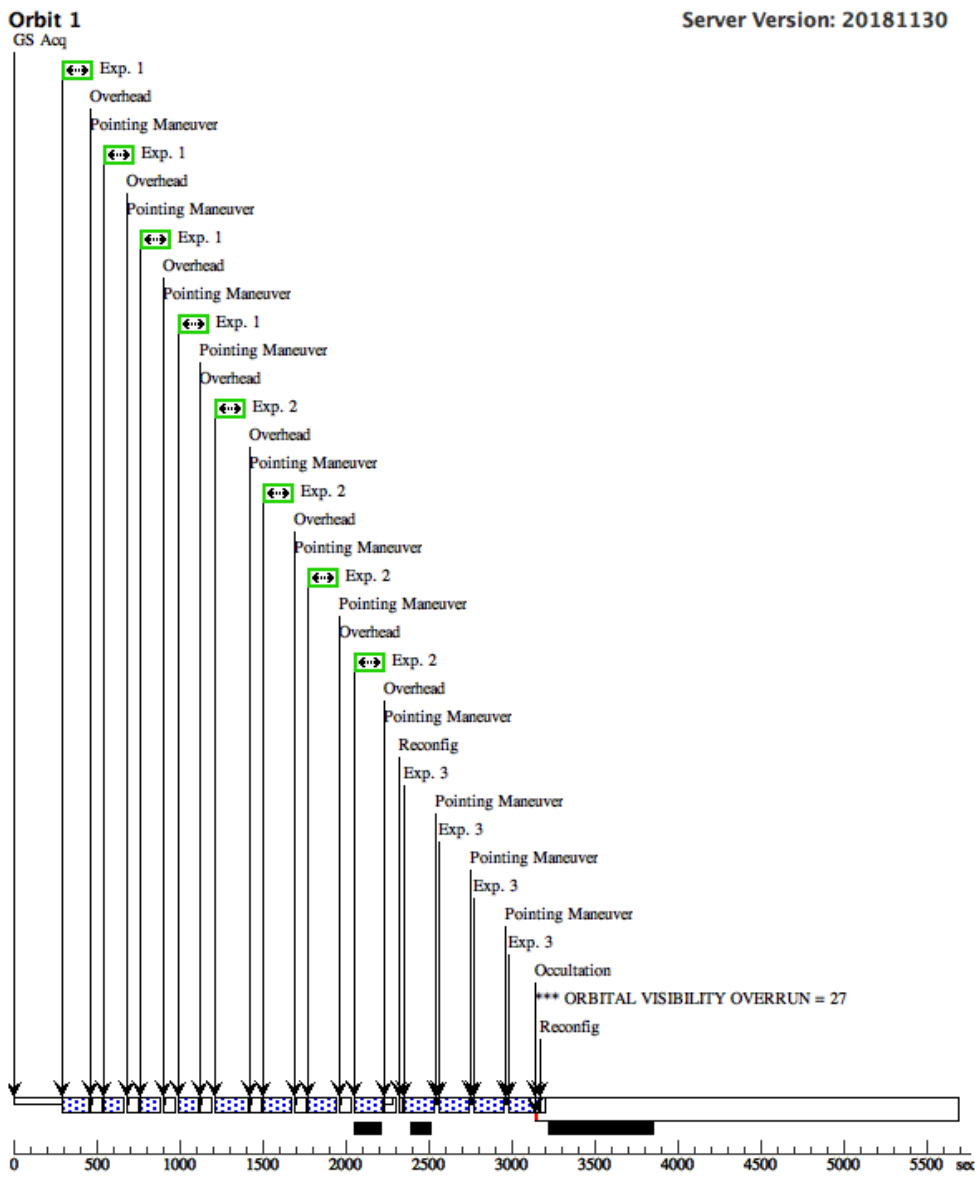
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(44)	NGC4531	RA: 12 34 15.8880 (188.5662000d) Dec: +13 04 31.15 (13.07532d) Equinox: J2000		V=11.29	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, LENTICULAR, NUCLEUS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(44) NGC4531	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC4531 - new (55) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(44) NGC4531	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4531 - new (55) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(44) NGC4531	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4531 - new (55) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4548 - new (45), completed Wed Jan 30 14:01:58 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4548 - new (45)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

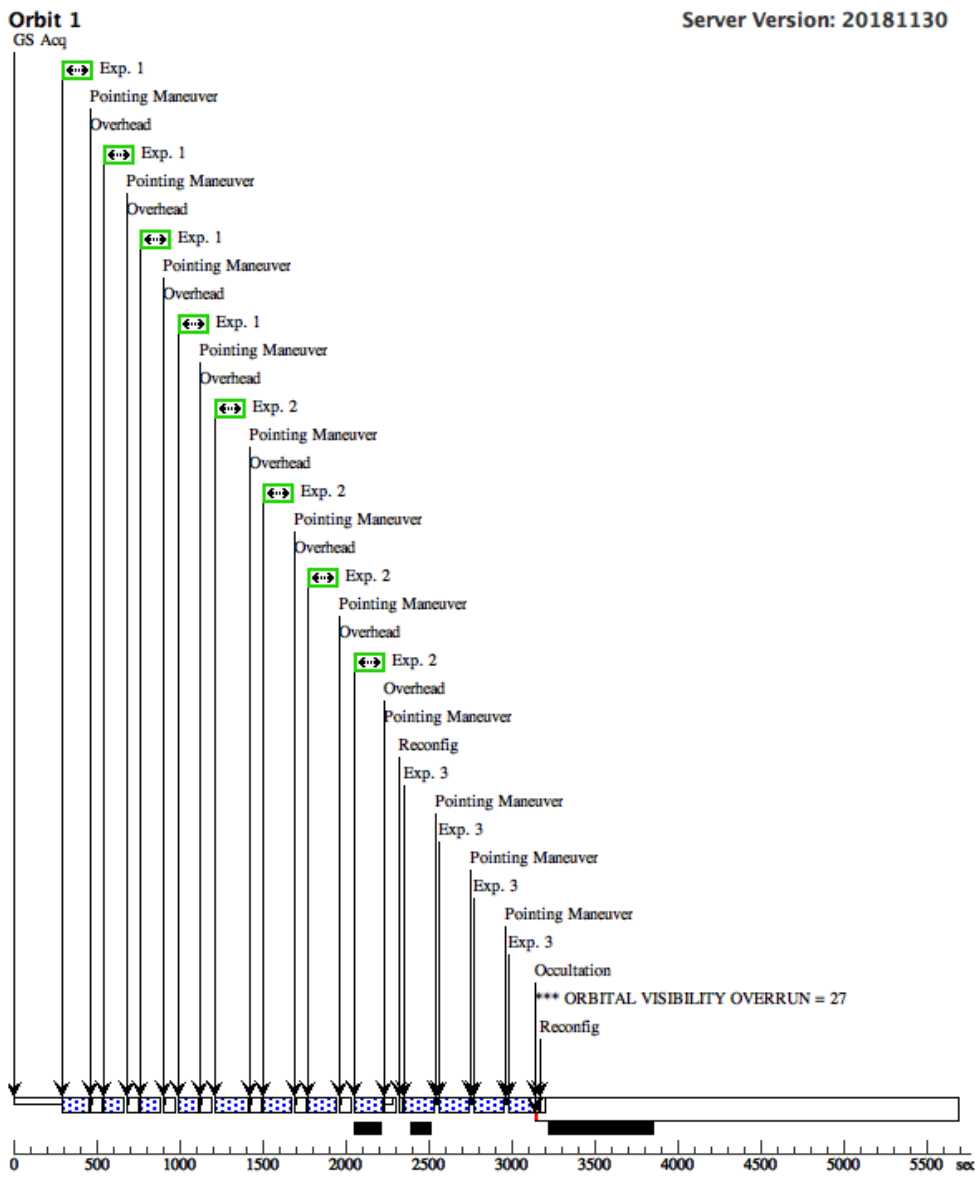
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(45)	NGC4548 Alt Name1: M91	RA: 12 35 26.4300 (188.8601250d) Dec: +14 29 46.75 (14.49632d) Equinox: J2000		V=13.57	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(45) NGC4548	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC4548 - new (45) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
2		(45) NGC4548	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4548 - new (45) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
3		(45) NGC4548	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4548 - new (45) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4578 - new (46), completed Wed Jan 30 14:01:58 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4578 - new (46)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

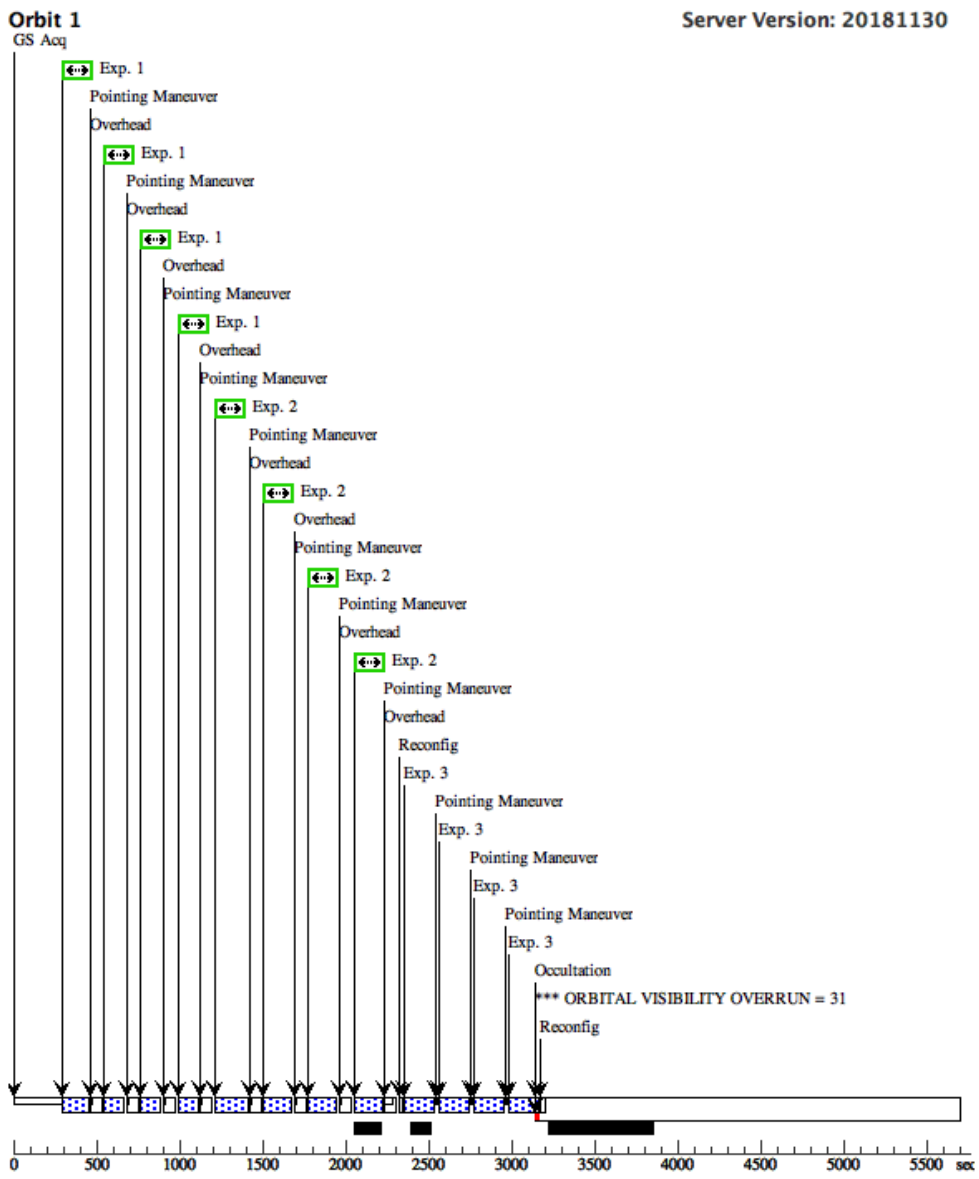
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(46)	NGC4578	RA: 12 37 30.5460 (189.3772750d) Dec: +09 33 18.44 (9.55512d) Equinox: J2000		V=11.33	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, LENTICULAR, NUCLEUS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(46) NGC4578	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC4578 - new (46) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
2		(46) NGC4578	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4578 - new (46) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
3		(46) NGC4578	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4578 - new (46) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4579 - new (47), completed Wed Jan 30 14:01:58 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4579 - new (47)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

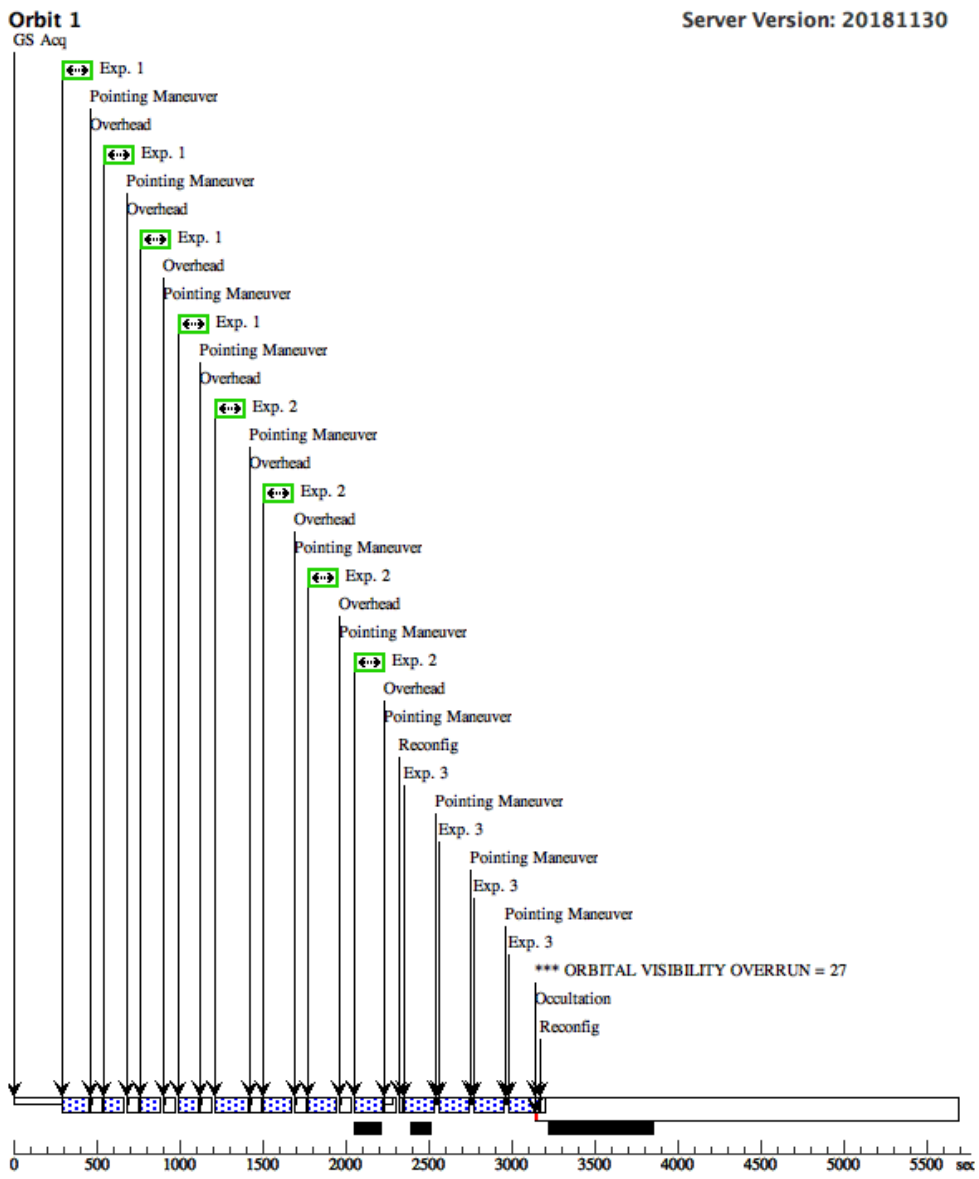
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(47)	NGC4579 Alt Name1: M58	RA: 12 37 43.5220 (189.4313417d) Dec: +11 49 5.50 (11.81819d) Equinox: J2000		V=9.66	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(47) NGC4579	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC4579 - new (47) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(47) NGC4579	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4579 - new (47) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(47) NGC4579	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4579 - new (47) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4580 - new (48), completed Wed Jan 30 14:01:58 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4580 - new (48)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

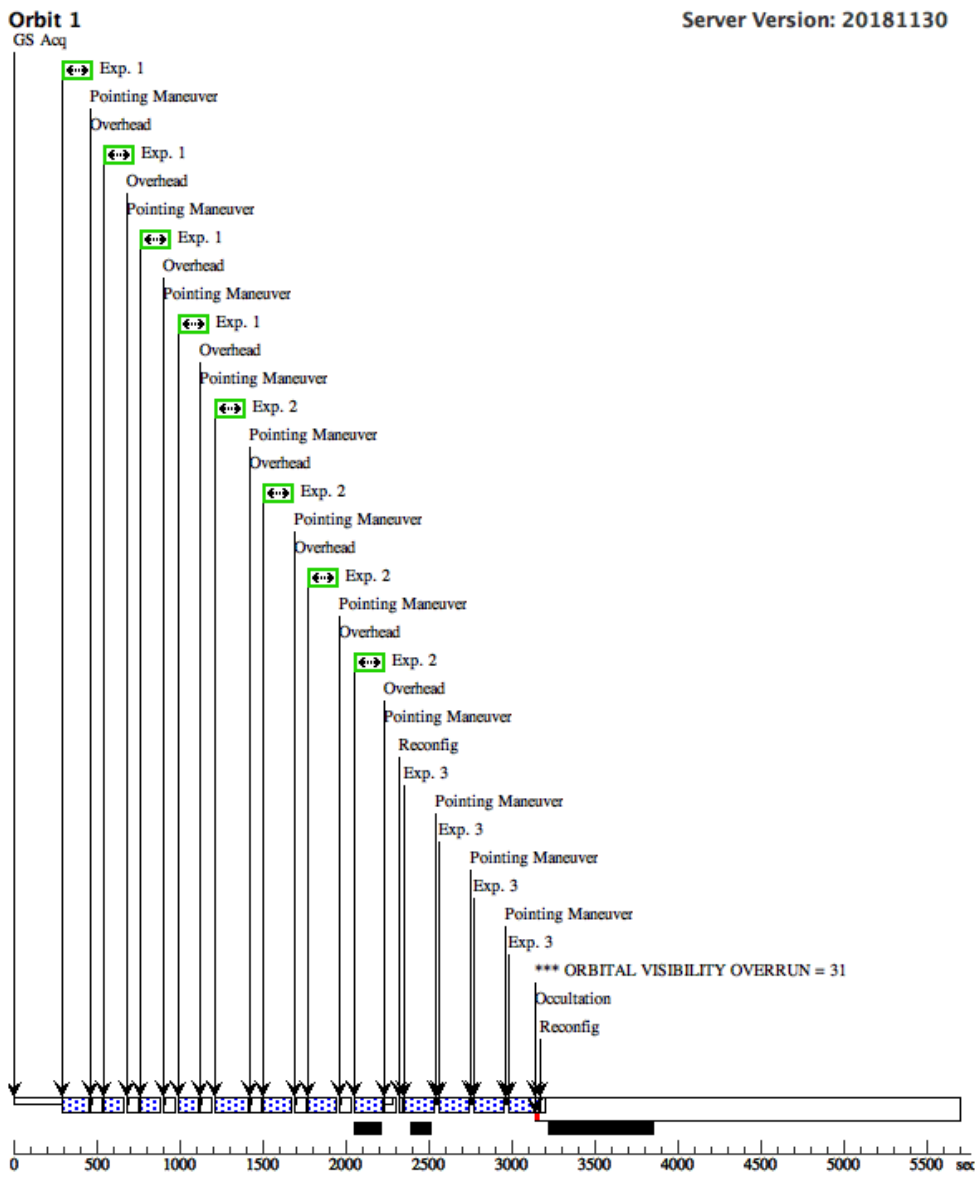
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(48)	NGC4580	RA: 12 37 48.3880 (189.4516167d) Dec: +05 22 6.68 (5.36852d) Equinox: J2000		V=11.45	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(48) NGC4580	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC4580 - new (48) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
2		(48) NGC4580	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4580 - new (48) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
3		(48) NGC4580	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4580 - new (48) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4596 - new (49), completed Wed Jan 30 14:01:58 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4596 - new (49)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

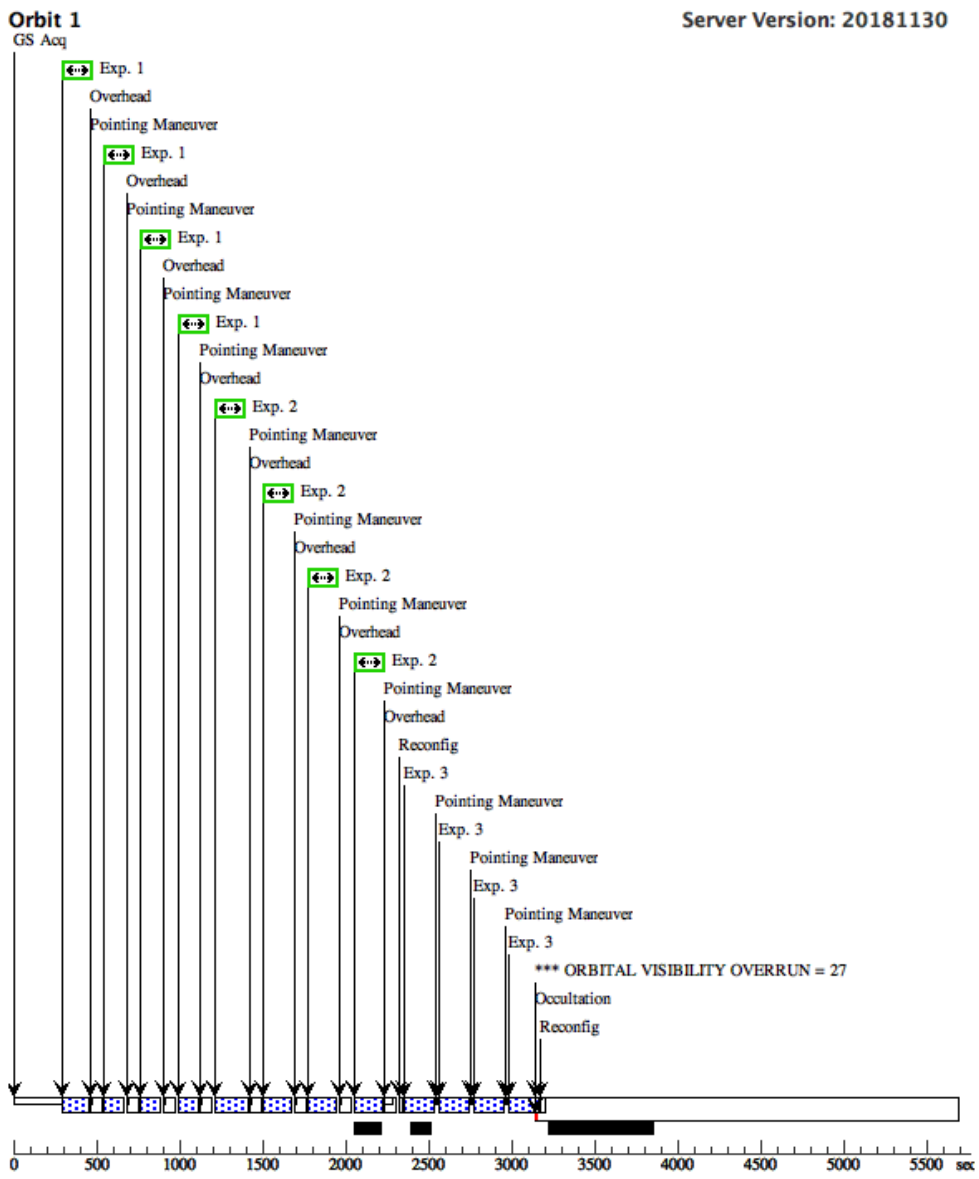
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(49)	NGC4596	RA: 12 39 55.9460 (189.9831083d) Dec: +10 10 34.10 (10.17614d) Equinox: J2000		V=10.29	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, LENTICULAR, NUCLEUS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(49) NGC4596	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC4596 - new (49) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(49) NGC4596	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4596 - new (49) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(49) NGC4596	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4596 - new (49) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4608 - new (50), completed Wed Jan 30 14:01:58 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4608 - new (50)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

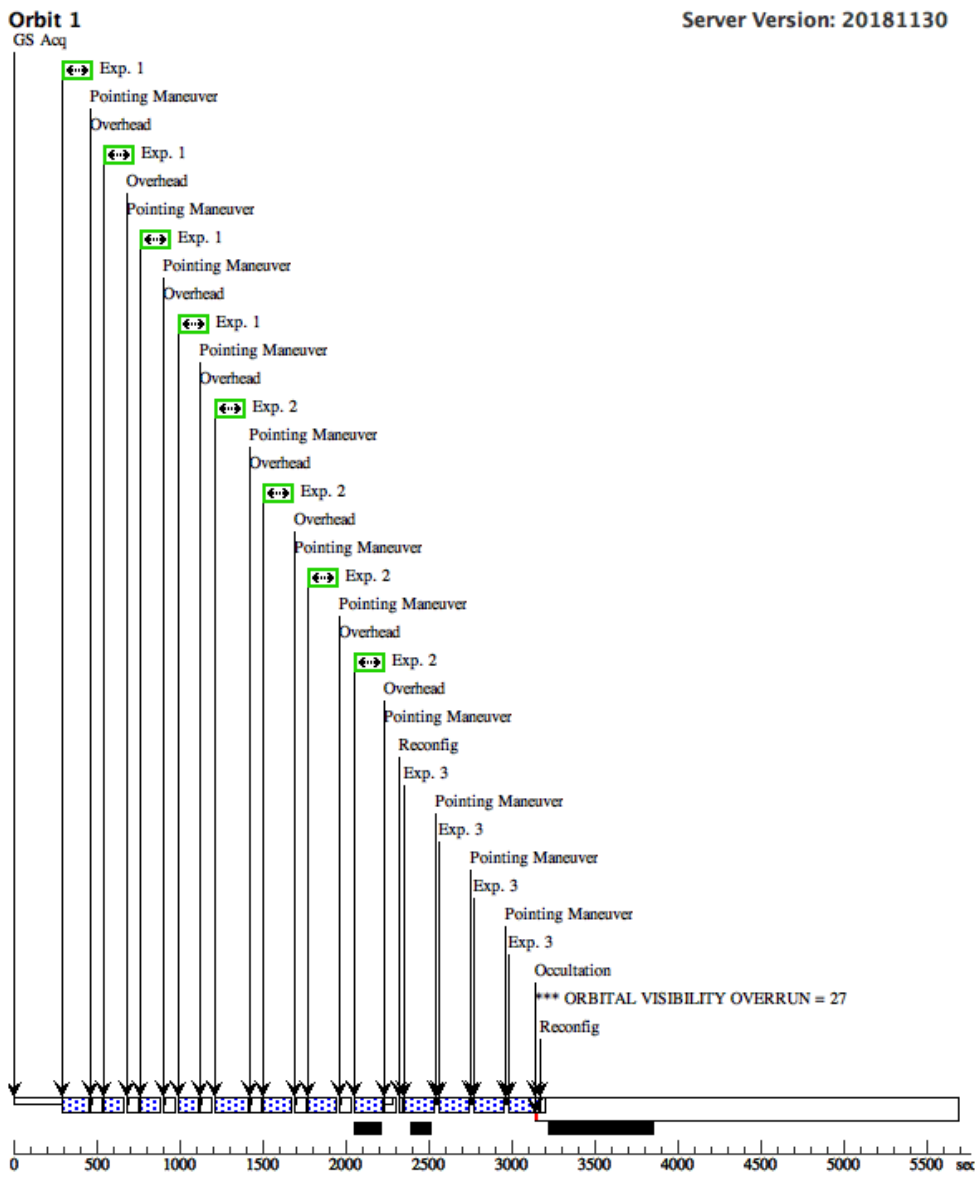
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(50)	NGC4608	RA: 12 41 13.2860 (190.3053583d) Dec: +10 09 20.38 (10.15566d) Equinox: J2000		V=10.88	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, LENTICULAR, NUCLEUS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(50) NGC4608	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC4608 - new (50) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
2		(50) NGC4608	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4608 - new (50) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***
3		(50) NGC4608	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4608 - new (50) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	 ***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4612 - new (51), implementation Wed Jan 30 14:01:58 GMT 2019

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

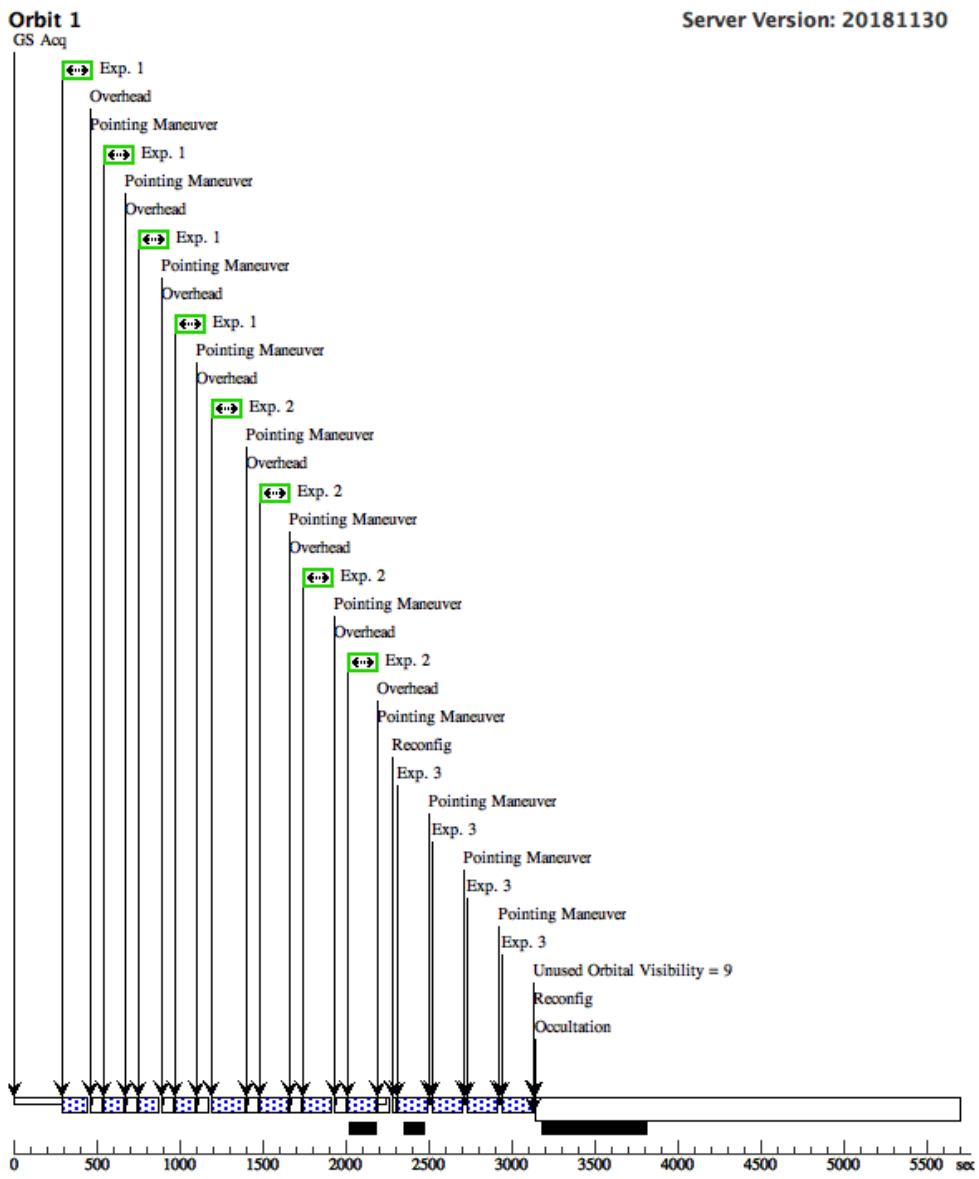
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(51)	NGC4612	RA: 12 41 32.7510 (190.3864625d) Dec: +07 18 53.58 (7.31488d) Equinox: J2000		V=11.09	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, LENTICULAR, NUCLEUS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(51) NGC4612	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC4612 - new (51) (3)	120 Secs (480 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(51) NGC4612	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4612 - new (51) (3)	170 Secs (680 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(51) NGC4612	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4612 - new (51) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4689 - new (52), completed Wed Jan 30 14:01:59 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4689 - new (52)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

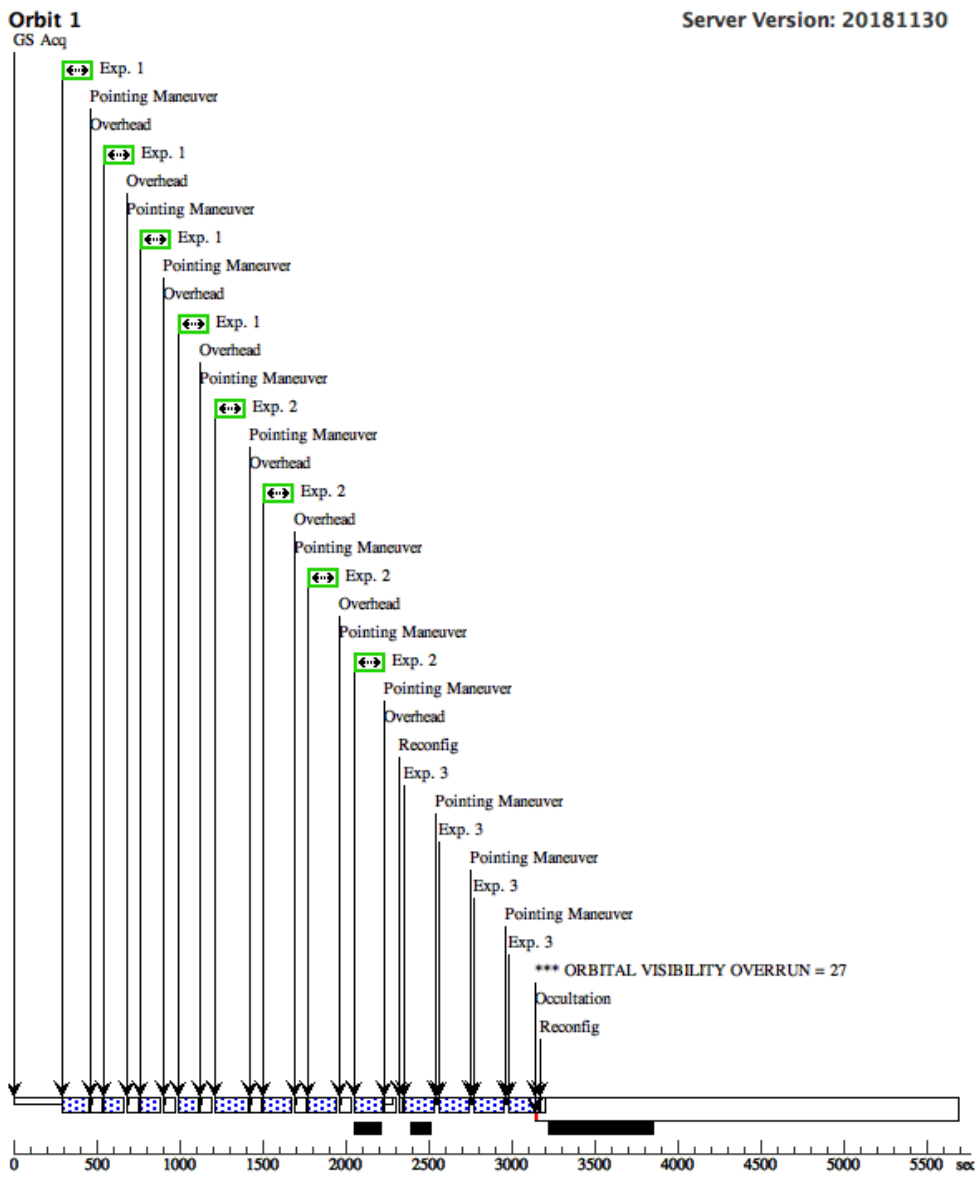
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(52)	NGC4689	RA: 12 47 45.5640 (191.9398500d) Dec: +13 45 46.13 (13.76281d) Equinox: J2000		V=10.79	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(52) NGC4689	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9	GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-1 in NGC4689 - new (52) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	*[1]*
2		(52) NGC4689	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4689 - new (52) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	*[1]*
3		(52) NGC4689	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4689 - new (52) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	*[1]*

Orbit Structure



Visit

Proposal 15133, NGC4698 - new (53), implementation Wed Jan 30 14:01:59 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4698 - new (53)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

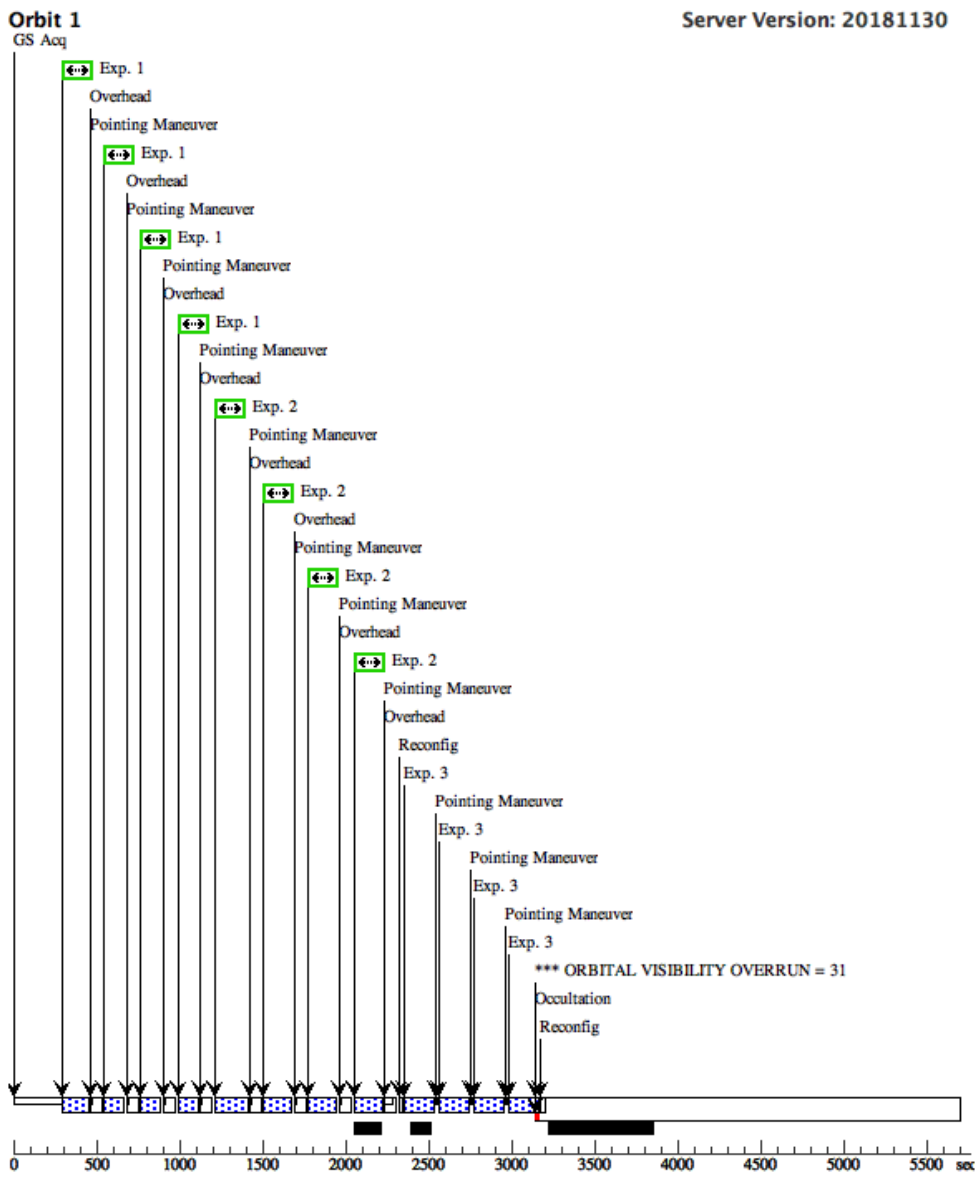
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(53)	NGC4698	RA: 12 48 22.9070 (192.0954458d) Dec: +08 29 14.58 (8.48738d) Equinox: J2000		V=12.27	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, NUCLEUS, SPIRAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(53) NGC4698	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9		Pattern 3, Exps 1-1 in NGC4698 - new (53) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(53) NGC4698	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4698 - new (53) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(53) NGC4698	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4698 - new (53) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 15133, NGC4754 - new (54), completed Wed Jan 30 14:01:59 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Diagnostics

(NGC4754 - new (54)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	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		(3)
(3)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(54)	NGC4754	RA: 12 52 17.4960 (193.0729000d) Dec: +11 18 49.99 (11.31389d) Equinox: J2000		V=10.43	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[BULGE, LENTICULAR, NUCLEUS]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(54) NGC4754	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=9		Pattern 3, Exps 1-1 in NGC4754 - new (54) (3)	125 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2		(54) NGC4754	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=8		Pattern 3, Exps 2-2 in NGC4754 - new (54) (3)	175 Secs (700 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		(54) NGC4754	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=STEP50		Pattern 2, Exps 3-3 in NGC4754 - new (54) (2)	149.231128 Secs (596.925 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure