



16013 - Carbon in dusty, compact Galactic planetary nebulae: A study of AGB evolution and recycling in the Milky Way

Cycle: 26, Proposal Category: SNAP

(Availability Mode: AVAILABLE)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) PN-G000.8-07.6.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:31.0	yes
02	(2) PN-G014.0-05.5.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:31.0	yes
03	(3) PN-G021.1-05.9.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:32.0	yes
05	(5) PN-G026.5-03.0.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:32.0	yes
07	(7) PN-G044.1+05.8.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:33.0	yes

Proposal 16013 (STScI Edit Number: 4, Created: Thursday, October 3, 2019 at 10:01:50 AM Eastern Standard Time) - Overview

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
09	(9) PN-G052.9-02.7.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:33.0	yes
11	(11) PN-G059.9+02.0.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:33.0	yes
12	(12) PN-G068.7+01.9.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:34.0	yes
14	(14) PN-G079.9+06.4.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:34.0	yes
16	(16) PN-G098.2+04.9.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:35.0	yes
17	(17) PN-G104.1+01.0.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:35.0	yes
19	(19) PN-G184.0-02.1.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:36.0	yes
20	(20) PN-G263.0-05.5.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:36.0	yes
22	(22) PN-G275.3-04.7.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:36.0	yes
26	(26) PN-G286.0-06.5.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:37.0	yes
27	(27) PN-G289.8+07.7.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:37.0	yes
28	(28) PN-G294.9-04.3.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:38.0	yes
30	(30) PN-G296.3-03.0.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:38.0	yes
33	(33) PN-G324.8-01.1.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:38.0	yes

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34	(34) PN-G327.1-01.8.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:39.0	yes
35	(35) PN-G327.8-06.1.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:39.0	yes
36	(36) PN-G334.8-07.4.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:40.0	yes
38	(38) PN-G340.9-04.6.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:40.0	yes
39	(39) PN-G341.5-09.1.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:40.0	yes
40	(40) PN-G343.4+11.9.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:41.0	yes
41	(41) PN-G344.2+04.7.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:41.0	yes
42	(42) PN-G344.8+03.4.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:42.0	yes
43	(43) PN-G345.0+04.3.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:42.0	yes
44	(44) PN-G348.4-04.1.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:42.0	yes
46	(46) PN-G356.5+01.5.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:43.0	yes
47	(47) PN-G358.6+07.8.	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:43.0	yes
48	(48) PN-G000.8-01.5	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:44.0	yes
49	(49) PN-G002.4-03.7	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:44.0	yes

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<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
51	(51) PN-G008.1-04.7	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:44.0	yes
52	(52) PN-G010.6+03.2	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:45.0	yes
53	(53) PN-G011.0-05.1	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:45.0	yes
55	(55) PN-G012.5-09.8	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:45.0	yes
56	(56) PN-G012.6-02.7	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:46.0	yes
59	(59) PN-G051.0+02.8	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:46.0	yes
60	(60) PN-G329.4-02.7	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:47.0	yes
61	(61) PN-G331.0-02.7	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:47.0	yes
63	(63) PN-G019.7-04.5	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:47.0	yes
65	(65) PN-G211.2-03.5	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:48.0	yes
66	(66) PN-G212.0+04.3	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:48.0	yes
68	(68) PN-G235.3-03.9	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:49.0	yes
72	(72) PN-G059.4+02.3	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:49.0	yes
73	(73) PN-G324.2+02.5	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:49.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
75	(75) PN-G356.2-04.4	STIS/FUV-MAMA STIS/NUV-MAMA	1	03-Oct-2019 11:01:50.0	yes

48 Total Orbits Used

ABSTRACT

We propose a snapshot survey of compact Galactic planetary nebulae (PNe) to acquire their UV spectra, with the aim of determining their gas-phase carbon abundances. Planetary nebulae are major cosmic recyclers, and their carbon content is essential to constrain the models of Asymptotic Giant Branch (AGB) evolution. There is an observed correlation between the gas and dust components of PNe in the Magellanic Clouds, but such a relation cannot yet be established for Galactic PNe given the lack of gas-phase carbon abundances of PNe whose dust composition is known. With our program we will measure carbon abundances for a set of compact Galactic PNe previously imaged with the HST cameras, whose dust content is known from IR/Spitzer spectral analysis, and whose ground-based optical spectra are also available from ancillary data sets. We plan to study carbon abundances of Galactic PNe in the framework of the yields from AGB evolution, especially with recent models that include dust evolution. Finally, we will compare the results of the Galactic study with similar studies based on LMC and SMC PNe, to gain insight of AGB evolution at different metallicities.

OBSERVING DESCRIPTION

We calculate the counts for stars, nebulae, and background separately. For the stars we used a Black Body and entered the measured Zanstra temperature, the observed reddening, and the observed central star V magnitudes. Counts are for the 52x2 aperture.

For the nebulae, we used extended object counts. We distinguish between low and high excitation, and used the template spectra in the ETC for high excitation and a low resolution spectra observed with HST for low excitation. The nebular part includes the nebular continuum (but excludes the central star). The flux density has been scaled with the H β flux, measured (it is actually a flux density surface brightness, given that the PN will be seen extended with HST). Nebular counts are for the slitless clear aperture.

The background, calculated for the clear slitless aperture, has then be scaled for the 6x6 aperture.

In the table:

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- 1) APT#
- (2) PN G names
- (3) angular diameter in arcsec
- (4) surface brightness density at Hbeta (to normalize the template)
- (5) effective temperature in 10^3 K (measured except 71, 72 assumed 100,000 K)
- (6) E(B-V)
- (7) V magnitude of central star except 63, 64, 72 (B mag) and 70 (J mag)
- (8) and (9): ETC number and counts/s for the G140L grating, nebular
- (10) and (11): ETC number and counts/s for the G140L grating, stellar
- (12) and (13): ETC number and counts/s for the G230L grating, nebular
- (14) and (15): ETC number and counts/s for the G230L grating, stellar
- (16) global counts/s for G140L (includes nebular, stellar, and bkg)
- (17) global counts/s for G230L (includes nebular, stellar, and bkg)
- (18) excitation flag

#apt	PNG	D	SBdens_Hbeta	Teff	EBV	V	ETC_FUV_PN	c_FUV_PN	ETC_FUV_CS	c_FUV_CS	ETC_NUV_PN	c_NUV_PN	ETC_NUV_CS	c_NUV_CS	c_FUV	c_NUV	flag
1	000.8-07.6	2.66	3.076e-14	63	0.280	18.90	1024981	34.817	1022821	122.650	1024982	124.927	1022822	114.991	980.751	343.053	0
2	014.0-05.5	7.60	6.112e-14	86	0.880	17.28	1024985	35.474	1022864	14.468	1024984	367.387	1022865	36.990	873.226	507.512	0
3	021.1-05.9	4.12	4.550e-14	138	0.380	20.98	1024989	75.975	1023211	9.045	1024988	321.539	1023212	7.858	908.304	432.532	0
4	025.3-04.6	0.96	5.288e-13	54	0.360	16.82	1024990	55.028	1023216	264.838	1024991	225.232	1023214	310.889	1143.150	639.256	0
5	026.5-03.0	5.86	5.152e-14	35	0.700	16.15	1024993	39.897	1023217	43.535	1024992	297.280	1023218	137.086	906.716	537.501	0
6	042.9-06.9	0.96	4.605e-12	52	0.290	15.14	1024994	646.757	1023220	1774.237	1024995	2377.804	1023219	1886.573			

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21	264.4-12.7	2.64	5.304e-13	41	0.230	14.87	1025018	841.030	1028761	2378.768	1025019	2678.690	1028763	2725.671	4043.083	5507.497	0
22	275.3-04.7	3.40	1.640e-13	114	0.570	19.26	1025021	79.492	1028765	14.249	1025020	468.664	1028764	18.288	917.025	590.087	0
23	278.6-06.7	2.38	6.678e-13	106	0.350	18.98	1025022	426.292	1028767	61.028	1025023	1735.339	1028768	53.370	1310.604	1891.844	0
24	285.4+01.5	3.84	9.102e-13	93	1.330	19.38	1025025	22.928	1028771	0.209	1025024	553.763	1028770	1.337	846.421	658.235	0
25	285.4+02.2	4.12	6.730e-14	147	0.910	20.76	1025026	10.245	1028772	0.622	1025027	115.311	1028773	1.477	834.151	219.923	0
26	286.0-06.5	1.90	7.418e-13	41	0.500	16.10	1025028	816.903	1028775	170.626	1025029	156.076	1028774	315.439	1810.813	574.650	0
27	289.8+07.7	2.58	6.231e-14	114	0.250	19.30	1025030	77.129	1023419	82.934	1025031	262.948	1023420	59.862	983.347	425.945	0
28	294.9-04.3	1.96	6.971e-12	49	1.090	15.60	1025033	109.941	1023480	14.656	1025032	1800.940	1023480	62.912	947.881	1966.987	0
29	295.3-09.3	0.96	1.456e-12	32	0.310	15.17	1025043	184.971	1023483	15.437	1025035	704.702	1023482	85.044	1023.692	892.881	0
30	296.3-03.0	2.64	1.495e-12	117	0.990	19.14	1025037	64.191	1023484	1.679	1025036	855.846	1023485	4.048	889.154	963.029	0
31	309.0+00.8	2.94	2.095e-12	59	1.440	18.15	1025038	15.766	1023487	0.279	1025039	531.401	1023486	2.256	839.329	636.792	0
32	309.5-02.9	2.36	7.447e-13	108	1.480	20.63	1025041	3.110	1023808	0.024	1025040	113.558	1023807	0.231	826.418	216.924	0
33	324.8-01.1	3.88	4.170e-15	73	2.370	20.35	1025240	9.201	1028777	0.000	1025239	34.712	1028778	0.029	832.486	137.876	1
34	327.1-01.8	3.00	2.059e-12	43	1.400	16.75	1024737	23.305	1028780	0.902	1024738	57.419	1028779	9.969	847.491	170.523	0
35	327.8-06.1	2.10	2.474e-13	31	0.360	15.29	1024740	118.997	1028781	485.511	1024739	59.855	1028782	930.777			

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50	003.9-14.9	4.00	2.778e-13	50	0.600	13.97	1024774	1079.353	1023524	898.245	1024773	3341.196	1023525	1407.596	2800.883	4851.927	0
51	008.1-04.7	3.20	2.556e-13	44	0.643	15.80	1025250	72.897	1023529	113.409	1025249	541.317	1023528	212.305	1009.590	856.757	1
52	010.6+03.2	0.50	4.569e-12	53	0.909	18.30	1025251	9.181	1028797	3.390	1025252	122.467	1028798	11.531	835.855	237.133	1
53	011.0-05.1	4.60	5.399e-14	65	0.238	15.30	1024775	215.844	1028801	2536.712	1024776	723.951	1028800	2179.130	3575.840	3006.216	0
54	011.1+07.0	0.50	8.509e-14	60	0.000	15.50	1024775	13.060	1028805	7823.607	1024777	30.809	1028807	4758.132	8659.951	4892.076	0
55	012.5-09.8	3.60	1.397e-13	90	0.406	17.40	1024779	156.208	1028813	176.315	1024780	696.005	1028810	178.559	1155.807	977.699	0
56	012.6-02.7	0.50	1.905e-11	38	1.357	16.80	1025258	4.975	1023748	0.909	1025256	179.430	1023747	8.469	829.168	291.034	1
57	032.5-03.2	0.50	1.122e-11	34	1.434	17.00	1025259	2.077	1023768	6.030	1025260	89.070	1023769	81.064	831.391	273.269	1
58	038.4-03.3	0.50	4.676e-12	26	1.161	14.72	1025262	2.962	1028817	8.319	1025261	68.828	1028817	97.892	834.565	269.855	1
59	051.0+02.8	0.50	3.630e-10	52	1.500	13.42	1024782	0.350	1023754	14.371	1024781	187.270	1023755	142.639	838.005	433.044	0
60	329.4-02.7	3.00	1.966e-13	31	0.839	16.10	1025263	19.586	1023757	17.629	1025264	220.230	1023756	69.184	860.499	392.549	1
61	331.0-02.7	3.00	9.853e-13	56	1.161	17.60	1025266	22.325	1028837	1.834	1025265	506.341	1028836	10.173	847.443	619.649	1
62	006.1+08.3	0.80	1.152e-11	53	0.818	17.10	1025267	90.477	1028839	16.551	1025268	990.294	1028840	46.847	930.312	1140.276	1
63	019.7-04.5	1.30	5.247e-12	24	1.100	13.40	1025270	27.085	1028701	71.134	1025269	572.212	1028841	837.839	921.503	1513.186	1
64	095.2+00.7	3.00	2.364e-12	45	1.937	17.60	1024783	1.973	1028843	0.127	1024784	200.248	1028842	4.319	825.384		

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307.702 0

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1127.032 1086.017 1

67 232.8-04.7 1.10 2.018e-11 32 1.100 13.95 1025275 74.618 1028855 34.778 1025276 1577.896 1028857 274.471 932.680
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68 235.3-03.9 0.90 8.498e-12 33 0.600 14.18 1025278 278.244 1028860 411.859 1025277 1792.369 1028859 1140.415
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69 281.0-05.6 1.00 3.075e-11 56 0.371 14.48 1025279 3213.674 1028862 2232.363 1025279 14023.589 1028865 2613.220
6269.321 16739.943 1

70 004.3-02.6 0.50 5.753e-11 38 1.462 14.11 1025282 9.416 1023848 0.595 1025281 429.721 1023849 8.369 833.295
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71 038.7-03.3 0.50 2.629e-11 100 1.007 13.70 1024786 35.889 1023853 215.722 1024785 520.575 1023854 682.346
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227.126 1

73 324.2+02.5 3.00 7.826e-13 39 1.273 15.00 1025287 10.654 1023857 7.567 1025288 310.136 1023858 69.417 841.505
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347.689 1

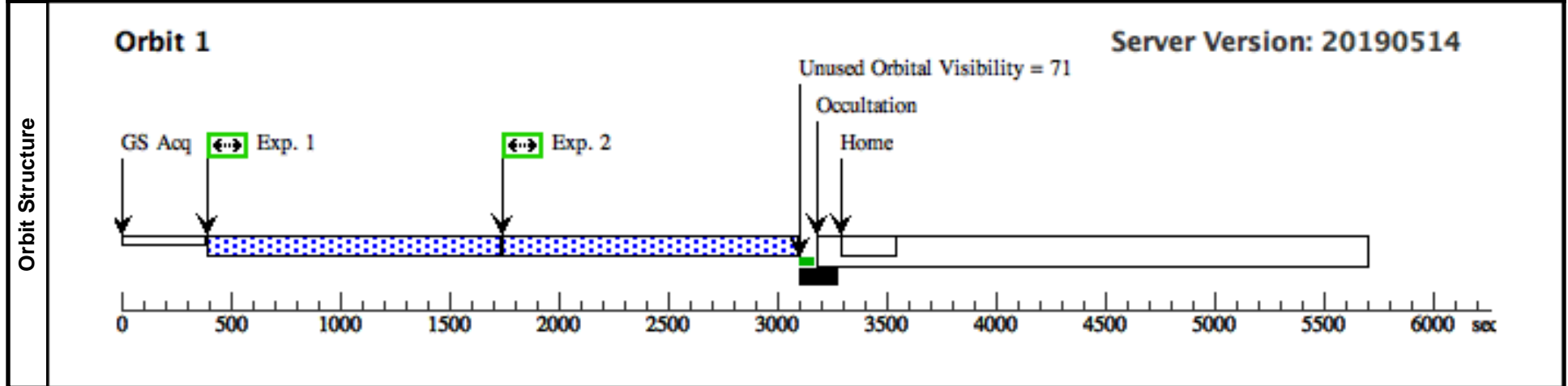
75 356.2-04.4 2.40 8.657e-13 79 0.500 14.00 1024787 290.384 1028871 2219.607 1024788 1515.286 1028872 2788.756
3333.276 4407.177 0

Visit	Proposal 16013, Visit 01 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 01) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 01) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 01) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>PN-G000.8-07.6.</td> <td>RA: 18 18 37.4680 (274.6561167d) Dec: -31 54 45.07 (-31.91252d) Equinox: J2000</td> <td></td> <td>V=18.9 -11.69</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	PN-G000.8-07.6.	RA: 18 18 37.4680 (274.6561167d) Dec: -31 54 45.07 (-31.91252d) Equinox: J2000		V=18.9 -11.69	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(1)	PN-G000.8-07.6.	RA: 18 18 37.4680 (274.6561167d) Dec: -31 54 45.07 (-31.91252d) Equinox: J2000		V=18.9 -11.69	Reference Frame: ICRS								
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(1) PN-G000.8-07.6.	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]
2	(1007738)	(1) PN-G000.8-07.6.	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]	

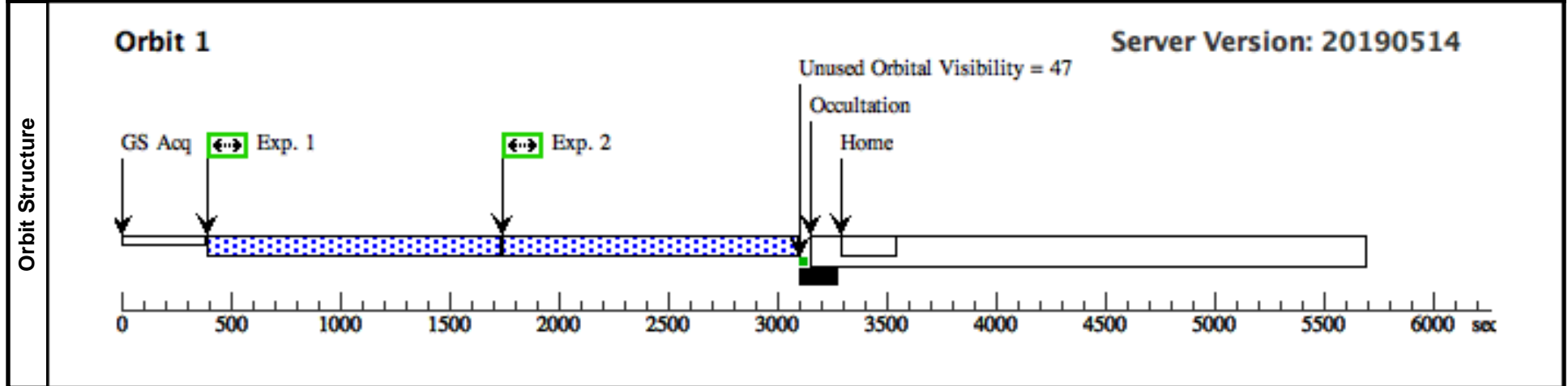


Visit	Proposal 16013, Visit 02 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 02) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 02) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 02) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>PN-G014.0-05.5.</td> <td>RA: 18 36 32.3210 (279.1346708d) Dec: -19 19 27.62 (-19.32434d) Equinox: J2000</td> <td></td> <td>V=17.28 -11.29</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	PN-G014.0-05.5.	RA: 18 36 32.3210 (279.1346708d) Dec: -19 19 27.62 (-19.32434d) Equinox: J2000		V=17.28 -11.29	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(2)	PN-G014.0-05.5.	RA: 18 36 32.3210 (279.1346708d) Dec: -19 19 27.62 (-19.32434d) Equinox: J2000		V=17.28 -11.29	Reference Frame: ICRS								
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(2) PN-G014.0-05.5.	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]
2	(1007738)	(2) PN-G014.0-05.5.	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]	

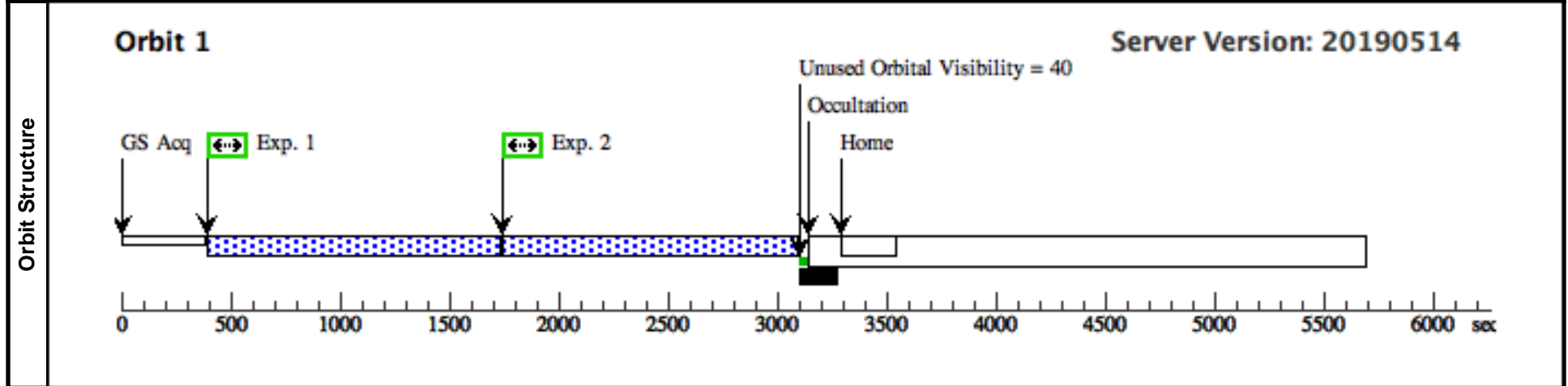


Visit	Proposal 16013, Visit 03 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 03) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 03) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 03) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>PN-G021.1-05.9.</td> <td>RA: 18 51 30.9240 (282.8788500d) Dec: -13 10 37.24 (-13.17701d) Equinox: J2000</td> <td></td> <td>V=20.98 -11.17</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(3)	PN-G021.1-05.9.	RA: 18 51 30.9240 (282.8788500d) Dec: -13 10 37.24 (-13.17701d) Equinox: J2000		V=20.98 -11.17	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(3)	PN-G021.1-05.9.	RA: 18 51 30.9240 (282.8788500d) Dec: -13 10 37.24 (-13.17701d) Equinox: J2000		V=20.98 -11.17	Reference Frame: ICRS								
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(3) PN-G021.1-05.9.	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]
2	(1007738)	(3) PN-G021.1-05.9.	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]	

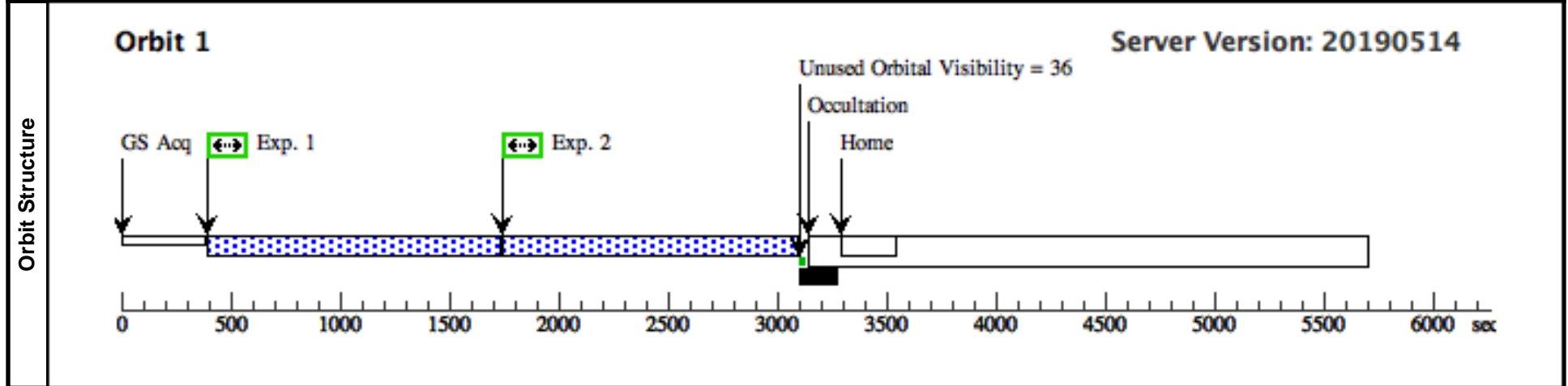


Visit	Proposal 16013, Visit 05 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 05) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 05) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 05) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(5)</td> <td>PN-G026.5-03.0.</td> <td>RA: 18 49 44.6850 (282.4361875d) Dec: -07 01 35.30 (-7.02647d) Equinox: J2000</td> <td></td> <td>V=16.15 -11.47</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(5)	PN-G026.5-03.0.	RA: 18 49 44.6850 (282.4361875d) Dec: -07 01 35.30 (-7.02647d) Equinox: J2000		V=16.15 -11.47	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(5)	PN-G026.5-03.0.	RA: 18 49 44.6850 (282.4361875d) Dec: -07 01 35.30 (-7.02647d) Equinox: J2000		V=16.15 -11.47	Reference Frame: ICRS								
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(5) PN-G026.5-03.0.	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]
2	(1007738)	(5) PN-G026.5-03.0.	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]	

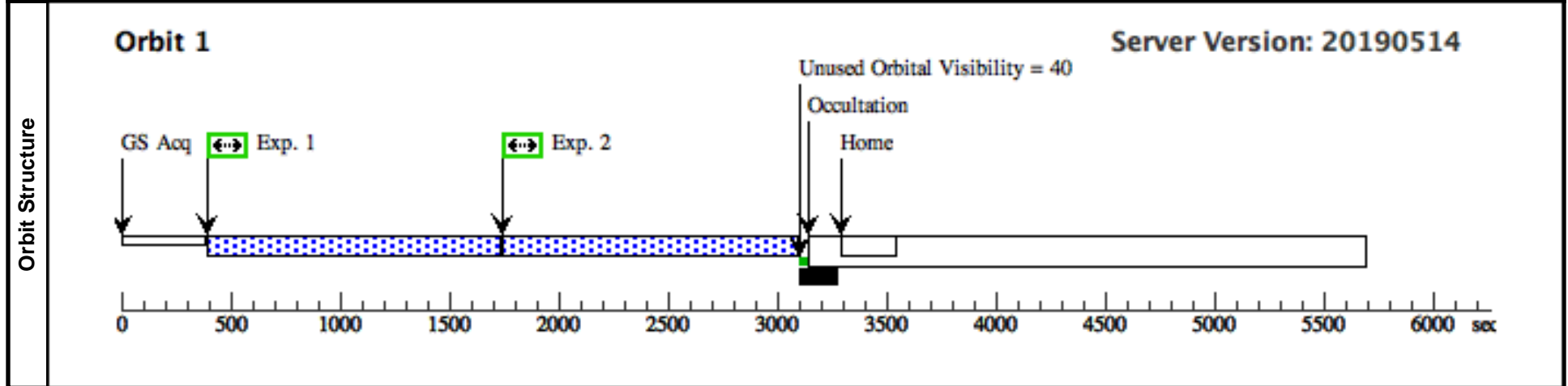


Visit	Proposal 16013, Visit 07 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 07) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 07) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 07) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(7)</td> <td>PN-G044.1+05.8.</td> <td>RA: 18 50 46.8500 (282.6952083d) Dec: +12 37 30.10 (12.62503d) Equinox: J2000</td> <td></td> <td>V=16.89 -12.87</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(7)	PN-G044.1+05.8.	RA: 18 50 46.8500 (282.6952083d) Dec: +12 37 30.10 (12.62503d) Equinox: J2000		V=16.89 -12.87	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(7)	PN-G044.1+05.8.	RA: 18 50 46.8500 (282.6952083d) Dec: +12 37 30.10 (12.62503d) Equinox: J2000		V=16.89 -12.87	Reference Frame: ICRS								
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(7) PN-G044.1+05.8.	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]
2	(1007738)	(7) PN-G044.1+05.8.	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]	

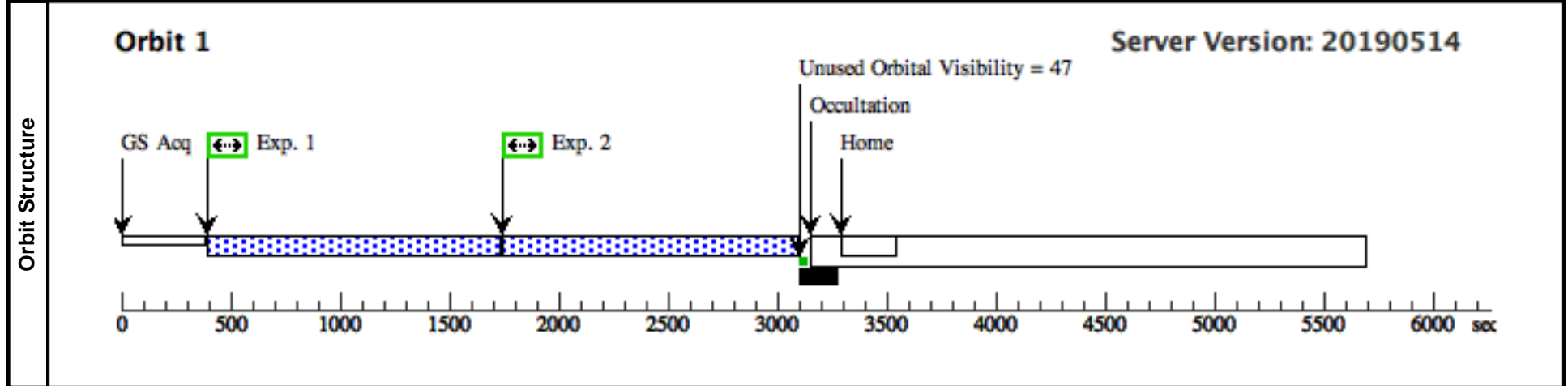


Visit	Proposal 16013, Visit 09 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 09) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 09) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 09) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(9)</td> <td>PN-G052.9-02.7.</td> <td>RA: 19 39 15.8850 (294.8161875d) Dec: +16 20 48.07 (16.34669d) Equinox: J2000</td> <td></td> <td>V=19.06 -12.12</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(9)	PN-G052.9-02.7.	RA: 19 39 15.8850 (294.8161875d) Dec: +16 20 48.07 (16.34669d) Equinox: J2000		V=19.06 -12.12	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
	(9)	PN-G052.9-02.7.	RA: 19 39 15.8850 (294.8161875d) Dec: +16 20 48.07 (16.34669d) Equinox: J2000		V=19.06 -12.12	Reference Frame: ICRS							
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(9) PN-G052.9-02.7.	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]
	2	(1007738)	(9) PN-G052.9-02.7.	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]

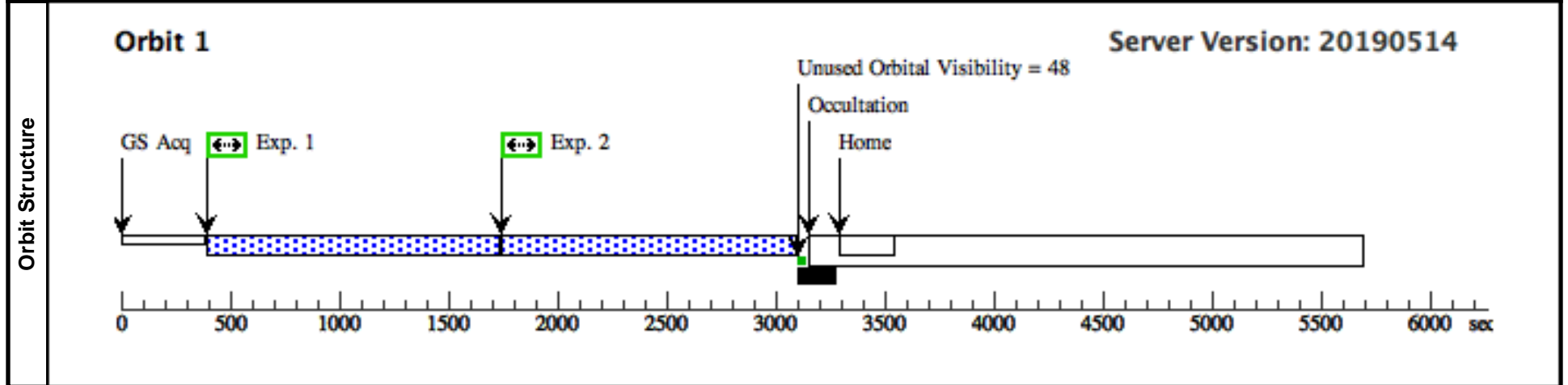


Visit	Proposal 16013, Visit 11 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 11) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 11) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 11) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(11)</td> <td>PN-G059.9+02.0.</td> <td>RA: 19 35 54.4580 (293.9769083d) Dec: +24 54 49.96 (24.91388d) Equinox: J2000</td> <td></td> <td>V=17.89 -12.7</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(11)	PN-G059.9+02.0.	RA: 19 35 54.4580 (293.9769083d) Dec: +24 54 49.96 (24.91388d) Equinox: J2000		V=17.89 -12.7	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(11)	PN-G059.9+02.0.	RA: 19 35 54.4580 (293.9769083d) Dec: +24 54 49.96 (24.91388d) Equinox: J2000		V=17.89 -12.7	Reference Frame: ICRS								
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(11) PN-G059.9+02.0.	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]
2	(1007738)	(11) PN-G059.9+02.0.	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]	

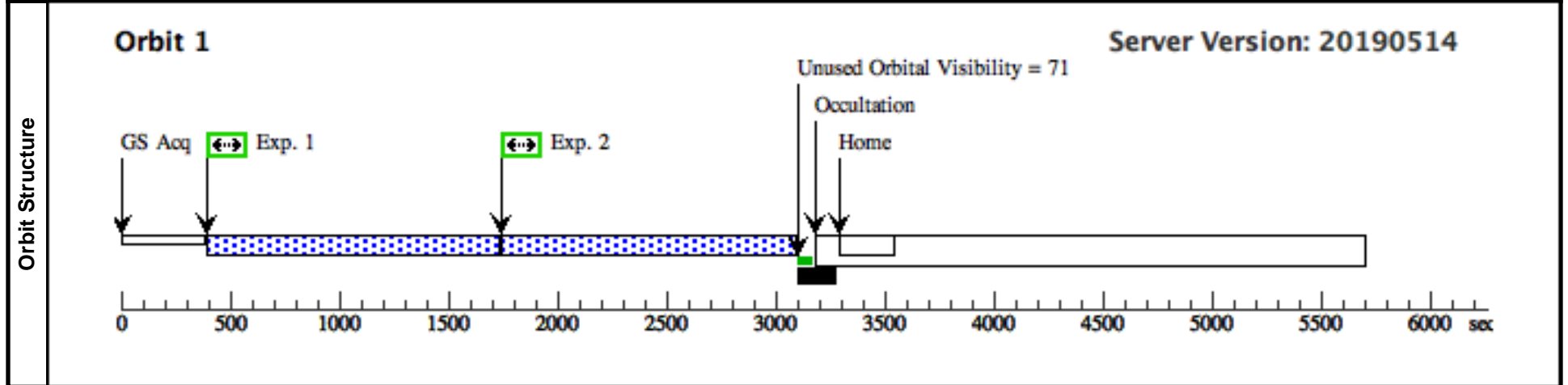


Visit	Proposal 16013, Visit 12 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 12) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 12) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 12) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(12)</td> <td>PN-G068.7+01.9.</td> <td>RA: 19 56 34.0430 (299.1418458d) Dec: +32 22 12.72 (32.37020d) Equinox: J2000</td> <td></td> <td>V=19.15 -12.00</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(12)	PN-G068.7+01.9.	RA: 19 56 34.0430 (299.1418458d) Dec: +32 22 12.72 (32.37020d) Equinox: J2000		V=19.15 -12.00	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(12)	PN-G068.7+01.9.	RA: 19 56 34.0430 (299.1418458d) Dec: +32 22 12.72 (32.37020d) Equinox: J2000		V=19.15 -12.00	Reference Frame: ICRS								
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(12) PN-G068.7+01.9.	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]
2	(1007738)	(12) PN-G068.7+01.9.	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]	

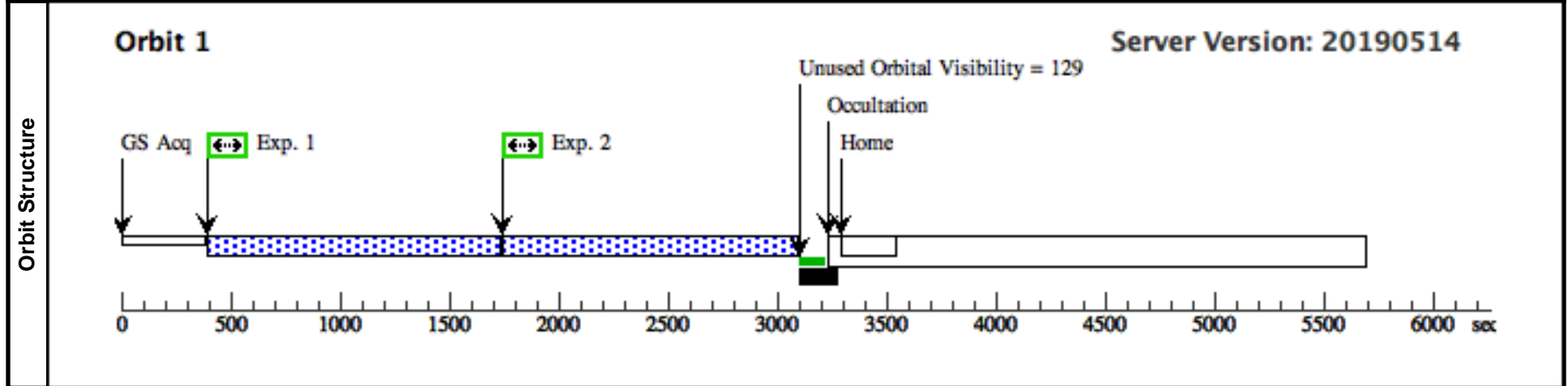


Visit	Proposal 16013, Visit 14 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 14) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 14) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 14) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(14)</td> <td>PN-G079.9+06.4.</td> <td>RA: 20 06 55.3460 (301.7306083d) Dec: +44 14 18.49 (44.23847d) Equinox: J2000</td> <td></td> <td>V=20.69 -12.54</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(14)	PN-G079.9+06.4.	RA: 20 06 55.3460 (301.7306083d) Dec: +44 14 18.49 (44.23847d) Equinox: J2000		V=20.69 -12.54	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(14)	PN-G079.9+06.4.	RA: 20 06 55.3460 (301.7306083d) Dec: +44 14 18.49 (44.23847d) Equinox: J2000		V=20.69 -12.54	Reference Frame: ICRS								
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(14) PN-G079.9+06.4.	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]
2	(1007738)	(14) PN-G079.9+06.4.	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]	

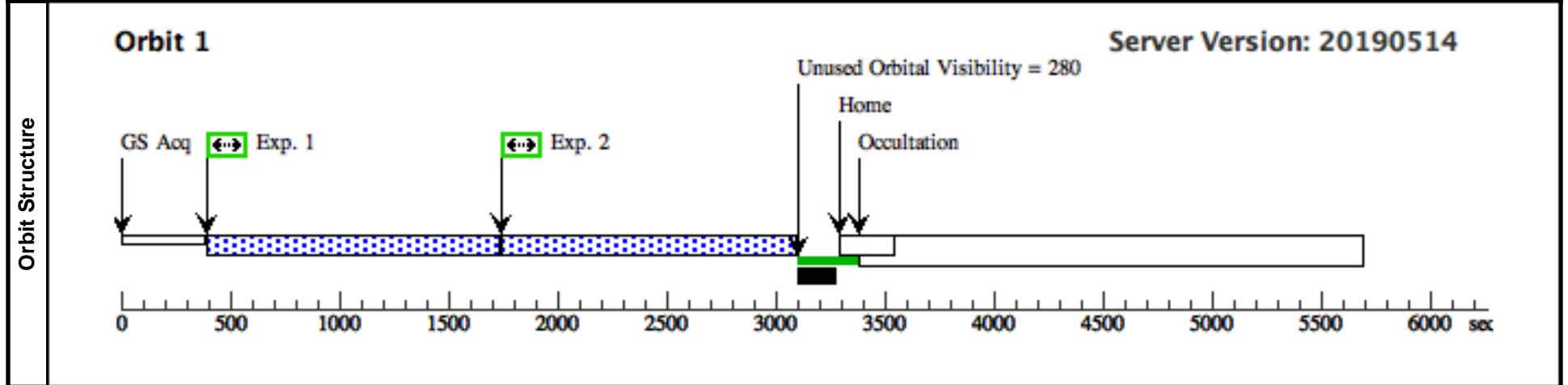


Visit	Proposal 16013, Visit 16 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 16) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 16) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 16) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(16)</td> <td>PN-G098.2+04.9.</td> <td>RA: 21 27 26.4760 (321.8603167d) Dec: +57 39 5.49 (57.65152d) Equinox: J2000</td> <td></td> <td>V=21.13 -12.16</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(16)	PN-G098.2+04.9.	RA: 21 27 26.4760 (321.8603167d) Dec: +57 39 5.49 (57.65152d) Equinox: J2000		V=21.13 -12.16	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
	(16)	PN-G098.2+04.9.	RA: 21 27 26.4760 (321.8603167d) Dec: +57 39 5.49 (57.65152d) Equinox: J2000		V=21.13 -12.16	Reference Frame: ICRS							
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(16) PN-G098.2+04.9.	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]
	2	(1007738)	(16) PN-G098.2+04.9.	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]

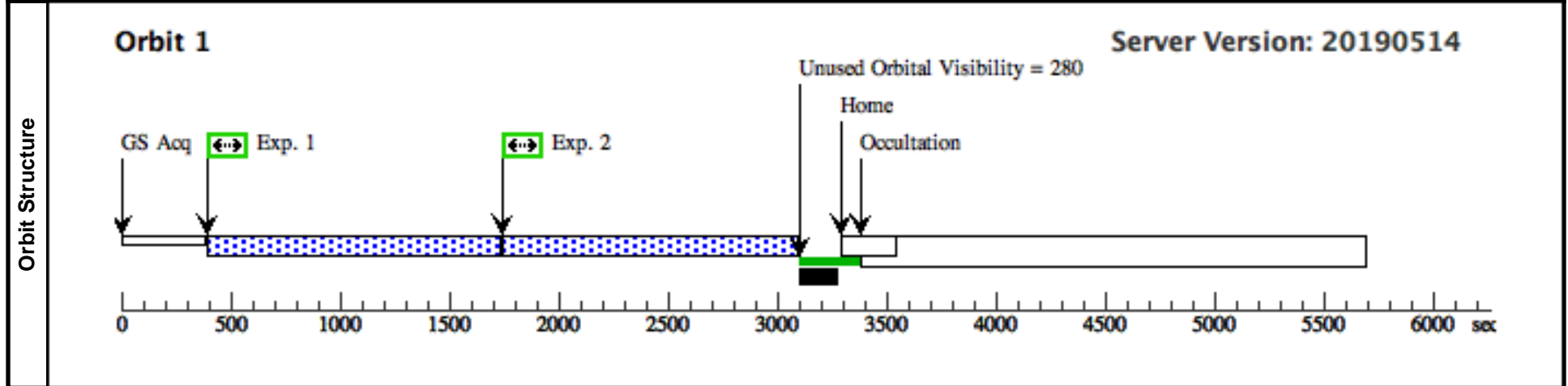


Visit	Proposal 16013, Visit 17 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 17) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 17) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 17) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(17)</td> <td>PN-G104.1+01.0.</td> <td>RA: 22 20 16.6080 (335.0692000d) Dec: +58 14 16.31 (58.23786d) Equinox: J2000</td> <td></td> <td>V=20.71 -12.42</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(17)	PN-G104.1+01.0.	RA: 22 20 16.6080 (335.0692000d) Dec: +58 14 16.31 (58.23786d) Equinox: J2000		V=20.71 -12.42	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
	(17)	PN-G104.1+01.0.	RA: 22 20 16.6080 (335.0692000d) Dec: +58 14 16.31 (58.23786d) Equinox: J2000		V=20.71 -12.42	Reference Frame: ICRS							
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(17) PN-G104.1+01.0.	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs) [==>]	[1]
	2	(1007738)	(17) PN-G104.1+01.0.	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs) [==>]	[1]



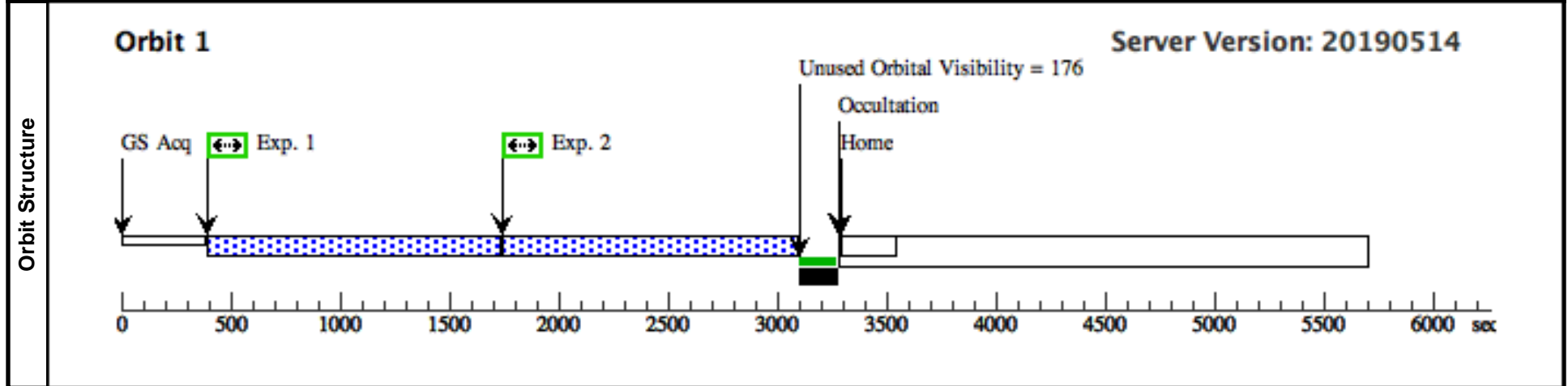
Visit	Proposal 16013, Visit 19 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)									
	(Visit 19) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS. (Visit 19) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL (Visit 19) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(19)	PN-G184.0-02.1.	RA: 05 46 50.0230 (86.7084292d) Dec: +24 22 3.34 (24.36759d) Equinox: J2000		V=16.27 -11.43	Reference Frame: ICRS				
Comments: Category=ISM Description=[PLANETARY NEBULA]										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(19) PN-G184.0-02.1	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	
									[==>]	[1]
	2	(1007738)	(19) PN-G184.0-02.1	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	
									[==>]	[1]
Orbit Structure	Orbit 1 Server Version: 20190514									
	<p>Unused Orbital Visibility = 48</p> <p>GS Acq</p> <p>Exp. 1</p> <p>Exp. 2</p> <p>Occultation</p> <p>Home</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec</p>									

Visit	Proposal 16013, Visit 20 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 20) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 20) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 20) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(20)</td> <td>PN-G263.0-05.5.</td> <td>RA: 08 20 40.3100 (125.1679583d) Dec: -46 22 57.41 (-46.38261d) Equinox: J2000</td> <td></td> <td>V=15.96 -10.91</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(20)	PN-G263.0-05.5.	RA: 08 20 40.3100 (125.1679583d) Dec: -46 22 57.41 (-46.38261d) Equinox: J2000		V=15.96 -10.91	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(20)	PN-G263.0-05.5.	RA: 08 20 40.3100 (125.1679583d) Dec: -46 22 57.41 (-46.38261d) Equinox: J2000		V=15.96 -10.91	Reference Frame: ICRS								
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(20) PN-G263.0-05.5	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]
2	(1007738)	(20) PN-G263.0-05.5	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]	

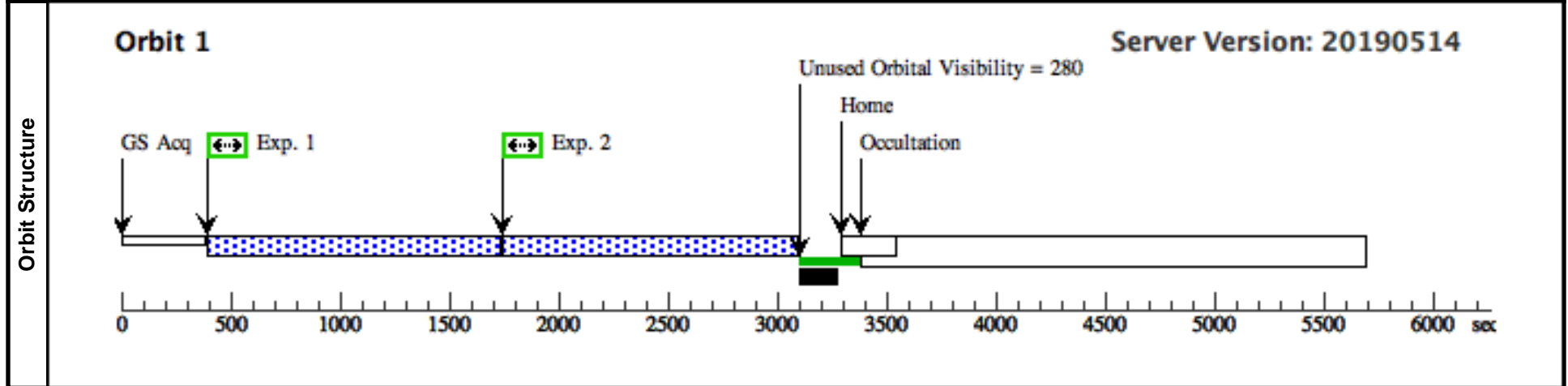


Visit	Proposal 16013, Visit 22 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 22) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 22) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 22) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(22)</td> <td>PN-G275.3-04.7.</td> <td>RA: 09 13 52.8680 (138.4702833d) Dec: -55 28 16.62 (-55.47128d) Equinox: J2000</td> <td></td> <td>V=19.26 -11.03</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(22)	PN-G275.3-04.7.	RA: 09 13 52.8680 (138.4702833d) Dec: -55 28 16.62 (-55.47128d) Equinox: J2000		V=19.26 -11.03	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(22)	PN-G275.3-04.7.	RA: 09 13 52.8680 (138.4702833d) Dec: -55 28 16.62 (-55.47128d) Equinox: J2000		V=19.26 -11.03	Reference Frame: ICRS								
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(22) PN-G275.3-04.7	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]
2	(1007738)	(22) PN-G275.3-04.7	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]	

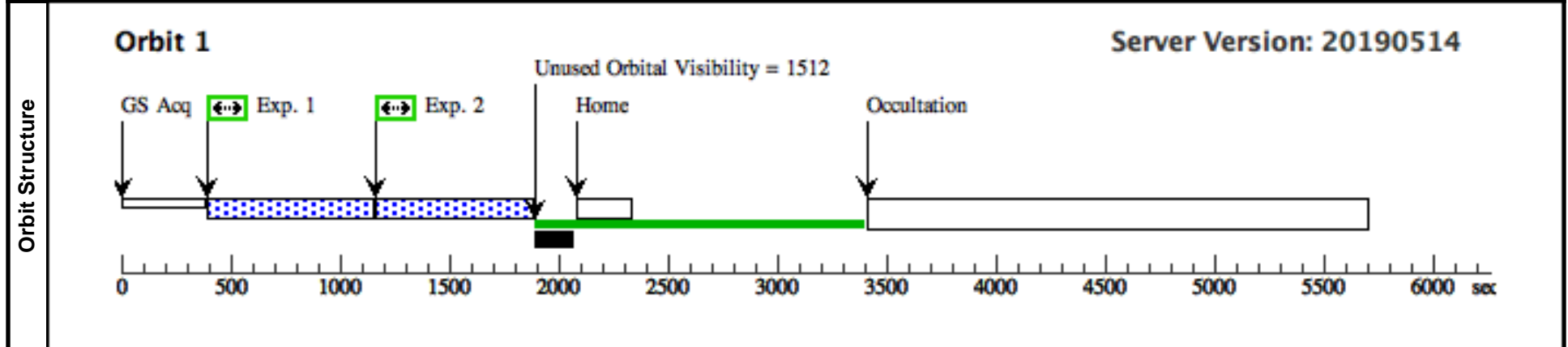


Visit	Proposal 16013, Visit 26				
	Diagnostic Status: Warning				
	Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA				
	Special Requirements: (none)				

Diagnostics	(Visit 26) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.				
	(Visit 26) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL				
	(Visit 26) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(26)	PN-G286.0-06.5.	RA: 10 07 23.6030 (151.8483458d) Dec: -63 54 29.84 (-63.90829d) Equinox: J2000		V=16.1 -10.9	Reference Frame: ICRS
<i>Comments:</i> Category=ISM Description=[PLANETARY NEBULA]						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(26) PN-G286.0-06.5	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0			623 Secs (623 Secs) [=>]
2	(1007738)	(26) PN-G286.0-06.5	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0			567 Secs (567 Secs) [=>]	[1]

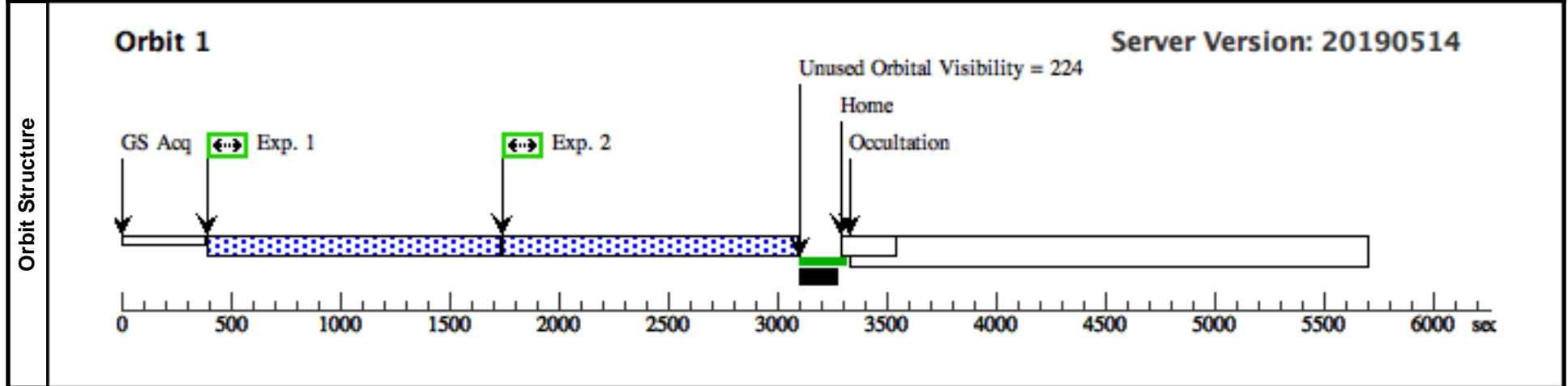


Visit	Proposal 16013, Visit 27 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 27) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 27) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 27) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(27)</td> <td>PN-G289.8+07.7.</td> <td>RA: 11 24 1.0860 (171.0045250d) Dec: -52 51 19.37 (-52.85538d) Equinox: J2000</td> <td></td> <td>V=19.3 -11.31</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(27)	PN-G289.8+07.7.	RA: 11 24 1.0860 (171.0045250d) Dec: -52 51 19.37 (-52.85538d) Equinox: J2000		V=19.3 -11.31	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
	(27)	PN-G289.8+07.7.	RA: 11 24 1.0860 (171.0045250d) Dec: -52 51 19.37 (-52.85538d) Equinox: J2000		V=19.3 -11.31	Reference Frame: ICRS							
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(27) PN-G289.8+07.7.	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]
	2	(1007738)	(27) PN-G289.8+07.7.	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]

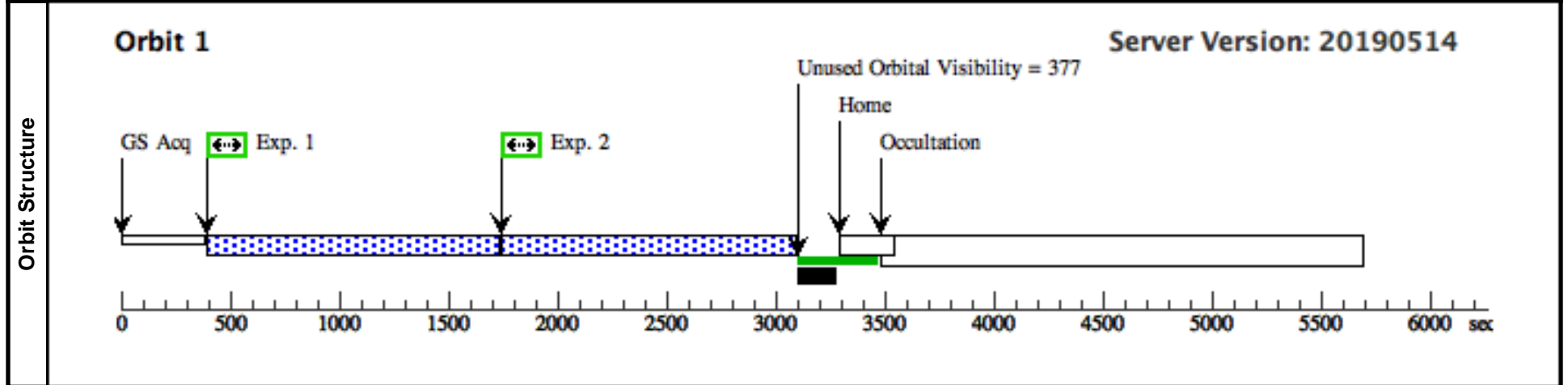


Visit	Proposal 16013, Visit 28				
	Diagnostic Status: Warning				
	Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA				
	Special Requirements: (none)				

Diagnostics	(Visit 28) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.				
	(Visit 28) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL				
	(Visit 28) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(28)	PN-G294.9-04.3.	RA: 11 31 45.4140 (172.9392250d) Dec: -65 58 13.76 (-65.97049d) Equinox: J2000		V=15.6 -11.56	Reference Frame: ICRS
<i>Comments:</i> Category=ISM Description=[PLANETARY NEBULA]						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(28) PN-G294.9-04.3	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0			1200 Secs (1200 Secs)
[==>]										[1]
2	(1007738)	(28) PN-G294.9-04.3	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0			1200 Secs (1200 Secs)	
									[==>]	[1]

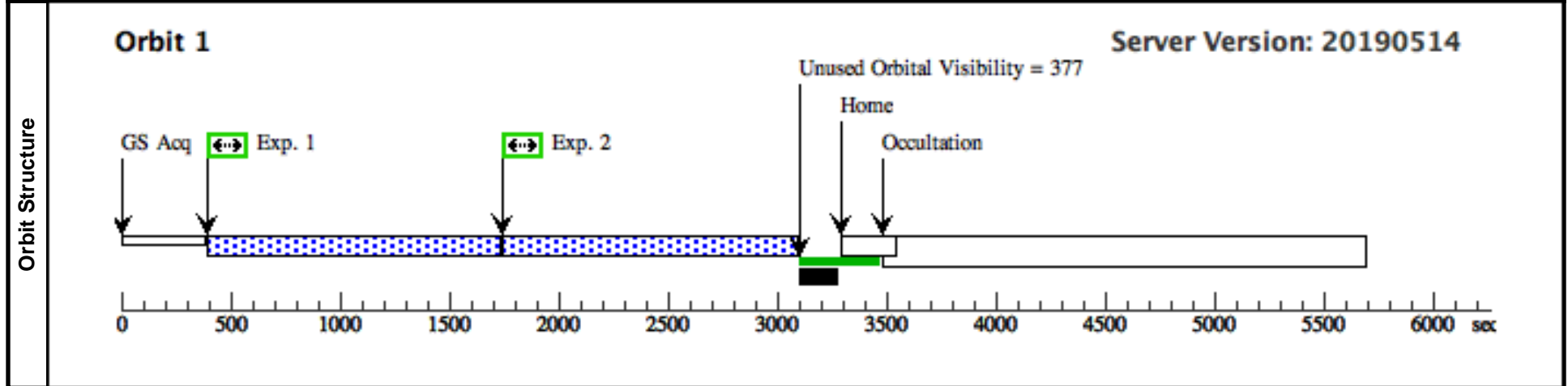


Visit	Proposal 16013, Visit 30 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 30) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 30) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 30) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(30)</td> <td>PN-G296.3-03.0.</td> <td>RA: 11 48 38.1630 (177.1590125d) Dec: -65 08 36.88 (-65.14358d) Equinox: J2000</td> <td></td> <td>V=19.14 -10.75</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(30)	PN-G296.3-03.0.	RA: 11 48 38.1630 (177.1590125d) Dec: -65 08 36.88 (-65.14358d) Equinox: J2000		V=19.14 -10.75	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(30)	PN-G296.3-03.0.	RA: 11 48 38.1630 (177.1590125d) Dec: -65 08 36.88 (-65.14358d) Equinox: J2000		V=19.14 -10.75	Reference Frame: ICRS								
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(30) PN-G296.3-03.0	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0			1200 Secs (1200 Secs) [==>]
2	(1007738)	(30) PN-G296.3-03.0	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0			1200 Secs (1200 Secs) [==>]	[1]

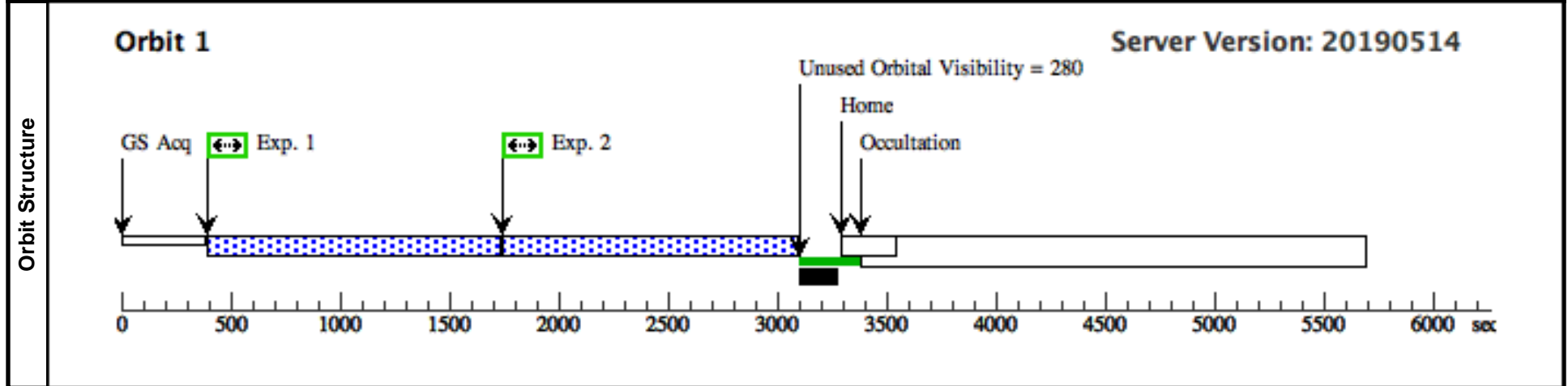


Visit	Proposal 16013, Visit 33 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 33) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 33) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 33) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(33)</td> <td>PN-G324.8-01.1.</td> <td>RA: 15 41 58.8230 (235.4950958d) Dec: -56 36 25.08 (-56.60697d) Equinox: J2000</td> <td></td> <td>V=20.35 -12.15</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(33)	PN-G324.8-01.1.	RA: 15 41 58.8230 (235.4950958d) Dec: -56 36 25.08 (-56.60697d) Equinox: J2000		V=20.35 -12.15	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(33)	PN-G324.8-01.1.	RA: 15 41 58.8230 (235.4950958d) Dec: -56 36 25.08 (-56.60697d) Equinox: J2000		V=20.35 -12.15	Reference Frame: ICRS								
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(33) PN-G324.8-01.1	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]
2	(1007738)	(33) PN-G324.8-01.1	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]	

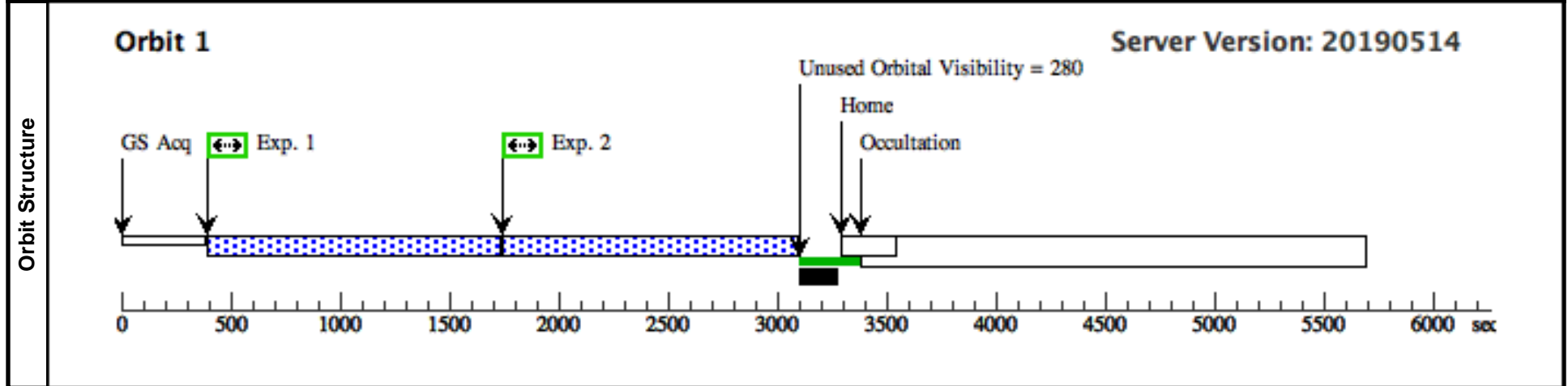


Visit	Proposal 16013, Visit 34 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 34) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 34) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 34) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(34)</td> <td>PN-G327.1-01.8.</td> <td>RA: 15 58 8.0640 (239.5336000d) Dec: -55 41 50.93 (-55.69748d) Equinox: J2000</td> <td></td> <td>V=16.75 -12.63</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(34)	PN-G327.1-01.8.	RA: 15 58 8.0640 (239.5336000d) Dec: -55 41 50.93 (-55.69748d) Equinox: J2000		V=16.75 -12.63	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
	(34)	PN-G327.1-01.8.	RA: 15 58 8.0640 (239.5336000d) Dec: -55 41 50.93 (-55.69748d) Equinox: J2000		V=16.75 -12.63	Reference Frame: ICRS							
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(34) PN-G327.1-01.8	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]
	2	(1007738)	(34) PN-G327.1-01.8	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]

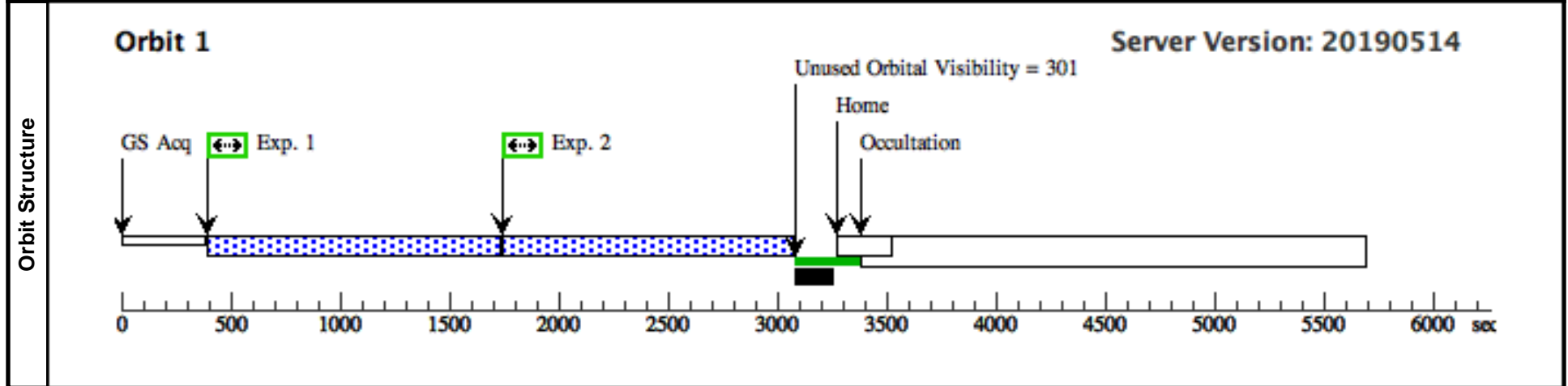


Visit	Proposal 16013, Visit 35 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 35) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 35) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 35) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(35)</td> <td>PN-G327.8-06.1.</td> <td>RA: 16 23 30.5990 (245.8774958d) Dec: -58 19 22.73 (-58.32298d) Equinox: J2000</td> <td></td> <td>V=15.29 -11.38</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(35)	PN-G327.8-06.1.	RA: 16 23 30.5990 (245.8774958d) Dec: -58 19 22.73 (-58.32298d) Equinox: J2000		V=15.29 -11.38	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
	(35)	PN-G327.8-06.1.	RA: 16 23 30.5990 (245.8774958d) Dec: -58 19 22.73 (-58.32298d) Equinox: J2000		V=15.29 -11.38	Reference Frame: ICRS							
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(35) PN-G327.8-06.1	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]
	2	(1007738)	(35) PN-G327.8-06.1	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1179 Secs (1179 Secs)	[1]

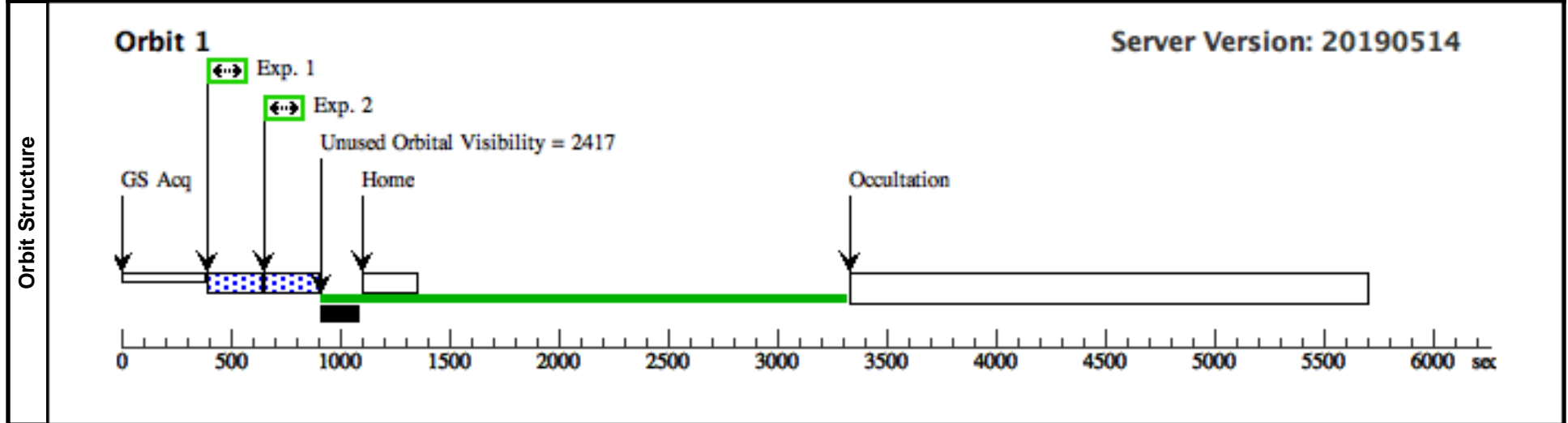


Visit	Proposal 16013, Visit 36 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 36) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 36) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 36) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(36)</td> <td>PN-G334.8-07.4.</td> <td>RA: 17 03 3.1250 (255.7630208d) Dec: -53 55 52.22 (-53.93117d) Equinox: J2000</td> <td></td> <td>V=11.54 -11.0</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(36)	PN-G334.8-07.4.	RA: 17 03 3.1250 (255.7630208d) Dec: -53 55 52.22 (-53.93117d) Equinox: J2000		V=11.54 -11.0	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
	(36)	PN-G334.8-07.4.	RA: 17 03 3.1250 (255.7630208d) Dec: -53 55 52.22 (-53.93117d) Equinox: J2000		V=11.54 -11.0	Reference Frame: ICRS							
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(36) PN-G334.8-07.4	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		110 Secs (110 Secs) [=>]	[1]
	2	(1007738)	(36) PN-G334.8-07.4	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		97 Secs (97 Secs) [=>]	[1]

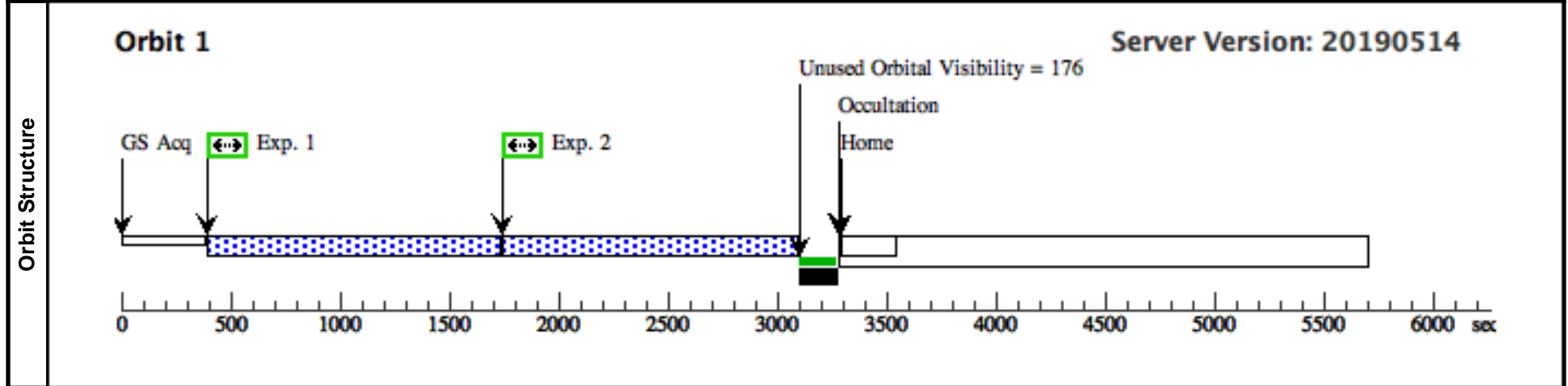


Visit	Proposal 16013, Visit 38				
	Diagnostic Status: Warning				
	Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA				
	Special Requirements: (none)				

Diagnostics	(Visit 38) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.				
	(Visit 38) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL				
	(Visit 38) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(38)	PN-G340.9-04.6.	RA: 17 11 27.4180 (257.8642417d) Dec: -47 25 1.66 (-47.41713d) Equinox: J2000		V=18.99 -11.65	Reference Frame: ICRS
<i>Comments:</i> Category=ISM Description=[PLANETARY NEBULA]						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(38) PN-G340.9-04.6	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0			1200 Secs (1200 Secs) [=>]
2	(1007738)	(38) PN-G340.9-04.6	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0			1200 Secs (1200 Secs) [=>]	[1]



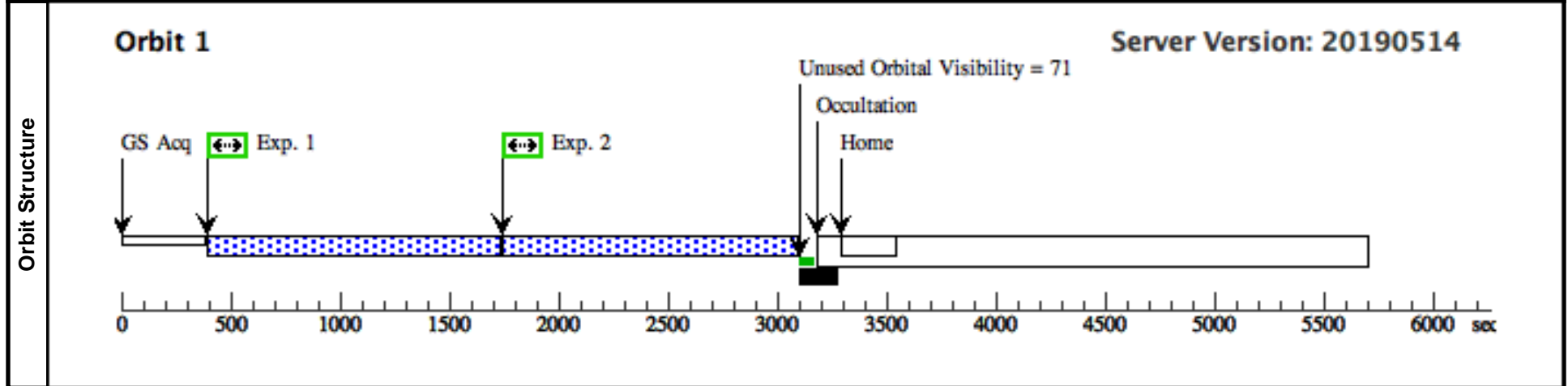
Visit	Proposal 16013, Visit 39 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)									
	(Visit 39) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS. (Visit 39) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL (Visit 39) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(39)	PN-G341.5-09.1.	RA: 17 36 6.9130 (264.0288042d) Dec: -49 25 45.58 (-49.42933d) Equinox: J2000		V=15.61 -11.28	Reference Frame: ICRS				
Comments: Category=ISM Description=[PLANETARY NEBULA]										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(39) PN-G341.5-09.1	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	
									[=>]	[1]
	2	(1007738)	(39) PN-G341.5-09.1	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1145 Secs (1145 Secs)	
									[=>]	[1]
Orbit Structure	Orbit 1 Server Version: 20190514									
	<p>Unused Orbital Visibility = 231</p> <p>GS Acq</p> <p>Exp. 1</p> <p>Exp. 2</p> <p>Home Occultation</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec</p>									

Visit	Proposal 16013, Visit 40 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 40) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 40) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 40) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(40)</td> <td>PN-G343.4+11.9.</td> <td>RA: 16 13 28.2180 (243.3675750d) Dec: -34 35 39.43 (-34.59429d) Equinox: J2000</td> <td></td> <td>V=17.14 -11.25</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(40)	PN-G343.4+11.9.	RA: 16 13 28.2180 (243.3675750d) Dec: -34 35 39.43 (-34.59429d) Equinox: J2000		V=17.14 -11.25	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(40)	PN-G343.4+11.9.	RA: 16 13 28.2180 (243.3675750d) Dec: -34 35 39.43 (-34.59429d) Equinox: J2000		V=17.14 -11.25	Reference Frame: ICRS								
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(40) PN-G343.4+11.9.	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]
2	(1007738)	(40) PN-G343.4+11.9.	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]	

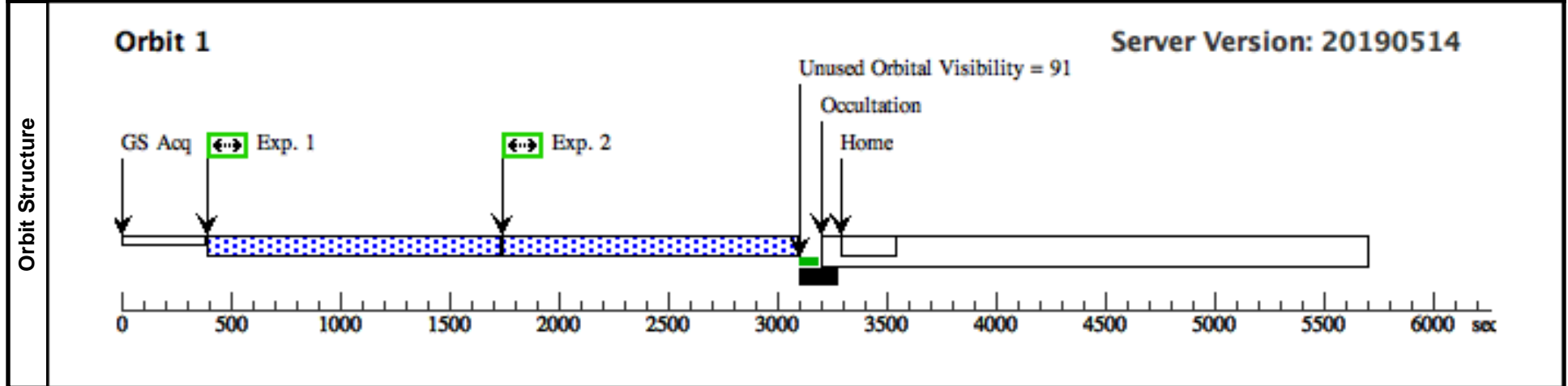


Visit	Proposal 16013, Visit 41 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 41) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 41) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 41) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(41)</td> <td>PN-G344.2+04.7.</td> <td>RA: 16 42 33.4700 (250.6394583d) Dec: -38 54 31.69 (-38.90880d) Equinox: J2000</td> <td></td> <td>V=15.73 -11.47</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(41)	PN-G344.2+04.7.	RA: 16 42 33.4700 (250.6394583d) Dec: -38 54 31.69 (-38.90880d) Equinox: J2000		V=15.73 -11.47	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(41)	PN-G344.2+04.7.	RA: 16 42 33.4700 (250.6394583d) Dec: -38 54 31.69 (-38.90880d) Equinox: J2000		V=15.73 -11.47	Reference Frame: ICRS								
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(41) PN-G344.2+04.7.	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0			1200 Secs (1200 Secs) [==>]
2	(1007738)	(41) PN-G344.2+04.7.	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0			1200 Secs (1200 Secs) [==>]	[1]

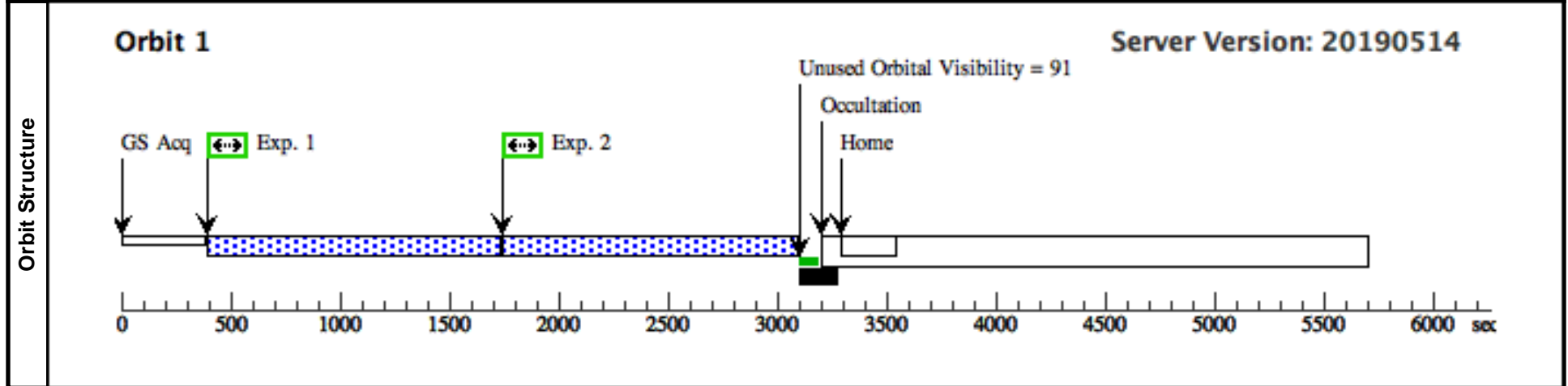


Visit	Proposal 16013, Visit 42 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 42) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 42) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 42) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(42)</td> <td>PN-G344.8+03.4.</td> <td>RA: 16 49 32.8720 (252.3869667d) Dec: -39 21 9.36 (-39.35260d) Equinox: J2000</td> <td></td> <td>V=18.1 -13.05</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(42)	PN-G344.8+03.4.	RA: 16 49 32.8720 (252.3869667d) Dec: -39 21 9.36 (-39.35260d) Equinox: J2000		V=18.1 -13.05	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(42)	PN-G344.8+03.4.	RA: 16 49 32.8720 (252.3869667d) Dec: -39 21 9.36 (-39.35260d) Equinox: J2000		V=18.1 -13.05	Reference Frame: ICRS								
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(42) PN-G344.8+03.4.	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0			1200 Secs (1200 Secs) [==>]
2	(1007738)	(42) PN-G344.8+03.4.	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0			1200 Secs (1200 Secs) [==>]	[1]

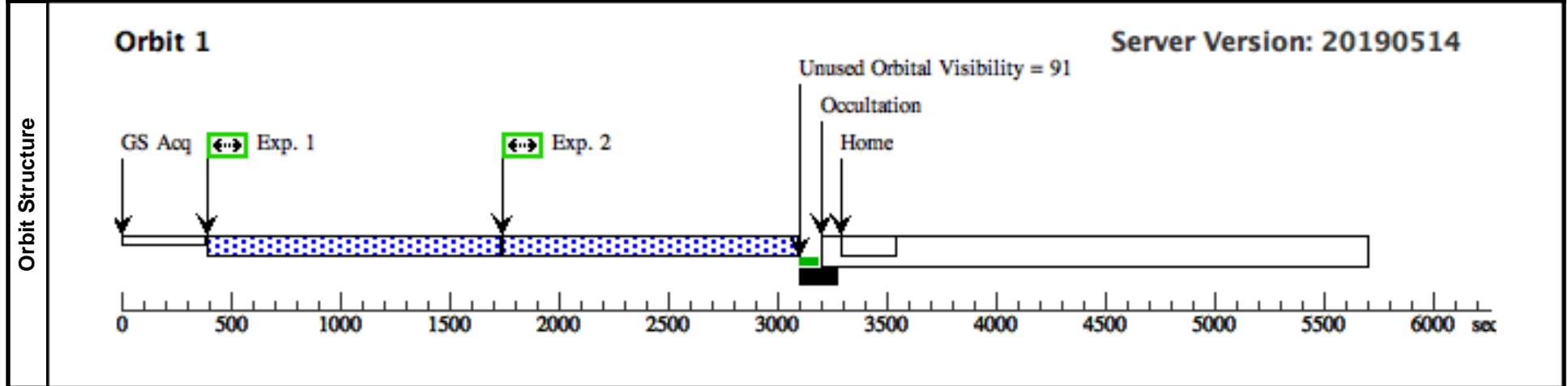


Visit	Proposal 16013, Visit 43 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 43) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 43) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 43) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(43)</td> <td>PN-G345.0+04.3.</td> <td>RA: 16 46 45.0800 (251.6878333d) Dec: -38 36 58.47 (-38.61624d) Equinox: J2000</td> <td></td> <td>V=15.26 -12.25</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(43)	PN-G345.0+04.3.	RA: 16 46 45.0800 (251.6878333d) Dec: -38 36 58.47 (-38.61624d) Equinox: J2000		V=15.26 -12.25	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(43)	PN-G345.0+04.3.	RA: 16 46 45.0800 (251.6878333d) Dec: -38 36 58.47 (-38.61624d) Equinox: J2000		V=15.26 -12.25	Reference Frame: ICRS								
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(43) PN-G345.0+04.3.	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]
2	(1007738)	(43) PN-G345.0+04.3.	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]	

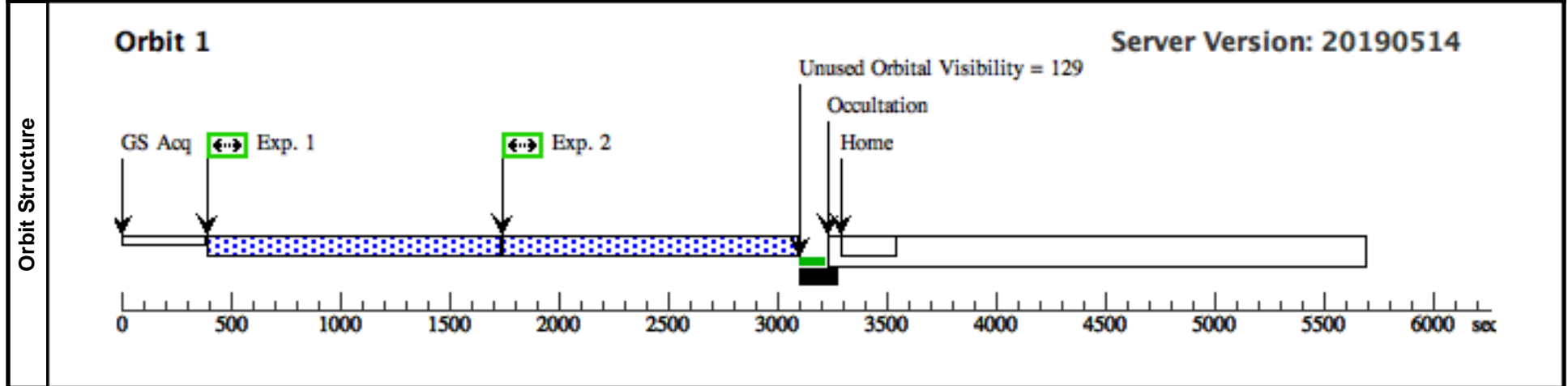


Visit	Proposal 16013, Visit 44 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 44) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 44) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 44) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(44)</td> <td>PN-G348.4-04.1.</td> <td>RA: 17 32 47.7530 (263.1989708d) Dec: -40 58 29.26 (-40.97479d) Equinox: J2000</td> <td></td> <td>V=17.65 -11.55</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(44)	PN-G348.4-04.1.	RA: 17 32 47.7530 (263.1989708d) Dec: -40 58 29.26 (-40.97479d) Equinox: J2000		V=17.65 -11.55	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(44)	PN-G348.4-04.1.	RA: 17 32 47.7530 (263.1989708d) Dec: -40 58 29.26 (-40.97479d) Equinox: J2000		V=17.65 -11.55	Reference Frame: ICRS								
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(44) PN-G348.4-04.1	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]
2	(1007738)	(44) PN-G348.4-04.1	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]	

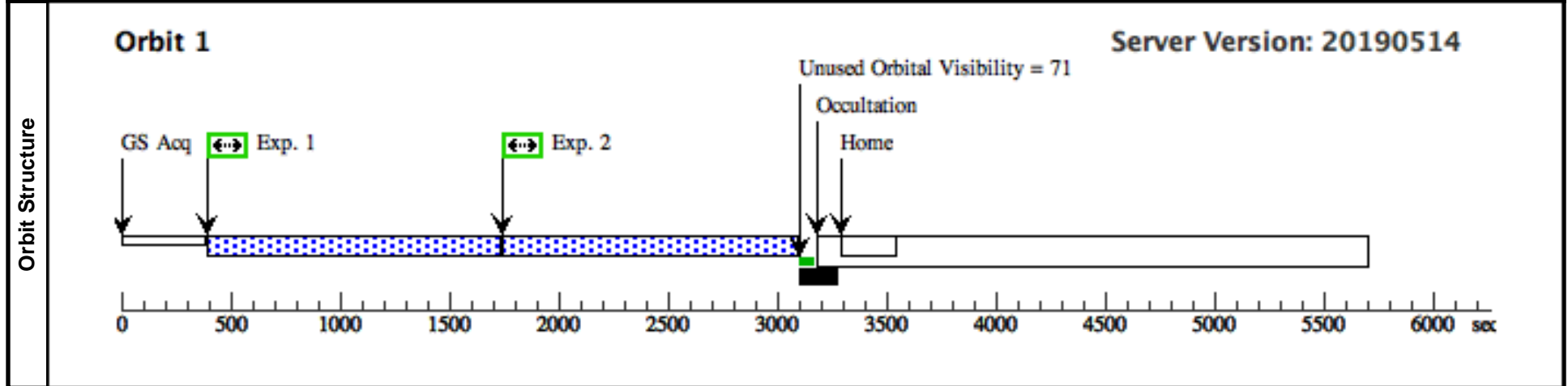


Visit	Proposal 16013, Visit 46 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 46) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 46) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 46) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(46)</td> <td>PN-G356.5+01.5.</td> <td>RA: 17 30 58.8310 (262.7451292d) Dec: -31 01 5.98 (-31.01833d) Equinox: J2000</td> <td></td> <td>V=19.63 -13.07</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(46)	PN-G356.5+01.5.	RA: 17 30 58.8310 (262.7451292d) Dec: -31 01 5.98 (-31.01833d) Equinox: J2000		V=19.63 -13.07	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(46)	PN-G356.5+01.5.	RA: 17 30 58.8310 (262.7451292d) Dec: -31 01 5.98 (-31.01833d) Equinox: J2000		V=19.63 -13.07	Reference Frame: ICRS								
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(46) PN-G356.5+01.5.	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0			1200 Secs (1200 Secs) [==>]
2	(1007738)	(46) PN-G356.5+01.5.	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0			1200 Secs (1200 Secs) [==>]	[1]

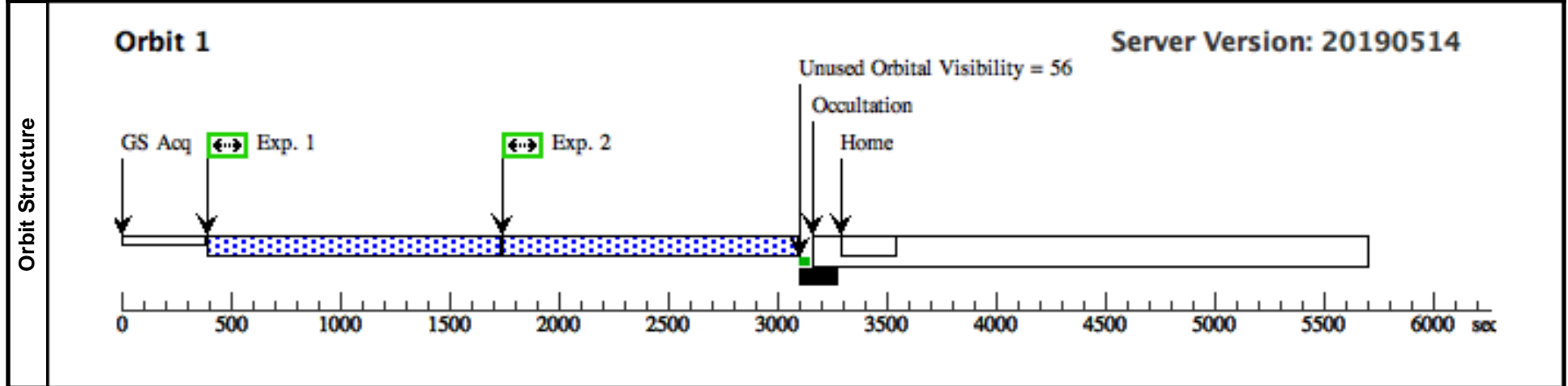


Visit	Proposal 16013, Visit 47 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 47) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 47) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 47) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(47)</td> <td>PN-G358.6+07.8.</td> <td>RA: 17 12 39.1820 (258.1632583d) Dec: -25 43 37.31 (-25.72703d) Equinox: J2000</td> <td></td> <td>V=17.03 -11.6</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(47)	PN-G358.6+07.8.	RA: 17 12 39.1820 (258.1632583d) Dec: -25 43 37.31 (-25.72703d) Equinox: J2000		V=17.03 -11.6	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
	(47)	PN-G358.6+07.8.	RA: 17 12 39.1820 (258.1632583d) Dec: -25 43 37.31 (-25.72703d) Equinox: J2000		V=17.03 -11.6	Reference Frame: ICRS							
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>(1007072)</td> <td>(47) PN-G358.6+07.8.</td> <td>STIS/FUV-MAMA, ACCUM, 6X6</td> <td>G140L 1425 A</td> <td>WAVECAL=NO</td> <td>POS TARG 0,0</td> <td></td> <td>1200 Secs (1200 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(1007738)</td> <td>(47) PN-G358.6+07.8.</td> <td>STIS/NUV-MAMA, ACCUM, 6X6</td> <td>G230L 2376 A</td> <td>WAVECAL=NO</td> <td>POS TARG 0,0</td> <td></td> <td>1200 Secs (1200 Secs) [==>]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	(1007072)	(47) PN-G358.6+07.8.	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs) [==>]	[1]	2	(1007738)	(47) PN-G358.6+07.8.	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs) [==>]	[1]
	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																					
	1	(1007072)	(47) PN-G358.6+07.8.	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs) [==>]	[1]																					
2	(1007738)	(47) PN-G358.6+07.8.	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs) [==>]	[1]																						

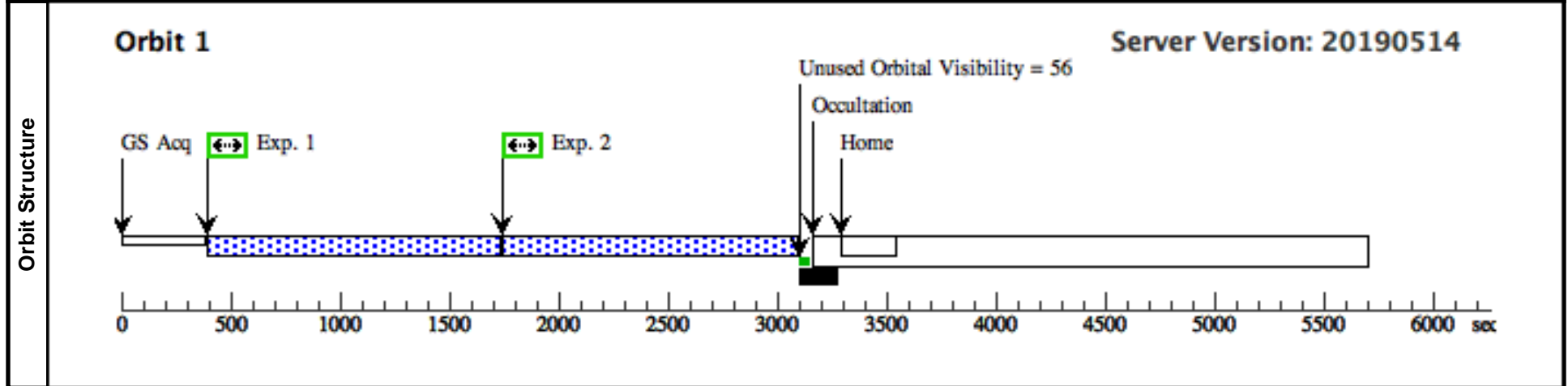


Visit	Proposal 16013, Visit 48 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 48) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 48) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 48) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(48)</td> <td>PN-G000.8-01.5</td> <td>RA: 17 53 49.7170 (268.4571542d) Dec: -28 59 11.26 (-28.98646d) Equinox: J2000</td> <td></td> <td>V=17.6 -12.14</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(48)	PN-G000.8-01.5	RA: 17 53 49.7170 (268.4571542d) Dec: -28 59 11.26 (-28.98646d) Equinox: J2000		V=17.6 -12.14	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
	(48)	PN-G000.8-01.5	RA: 17 53 49.7170 (268.4571542d) Dec: -28 59 11.26 (-28.98646d) Equinox: J2000		V=17.6 -12.14	Reference Frame: ICRS							
<i>Comments: magnitude uncertainty>0.5</i> Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(48) PN-G000.8-01.5	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	
									[==>]	[1]
	2	(1007738)	(48) PN-G000.8-01.5	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	
								[==>]	[1]	



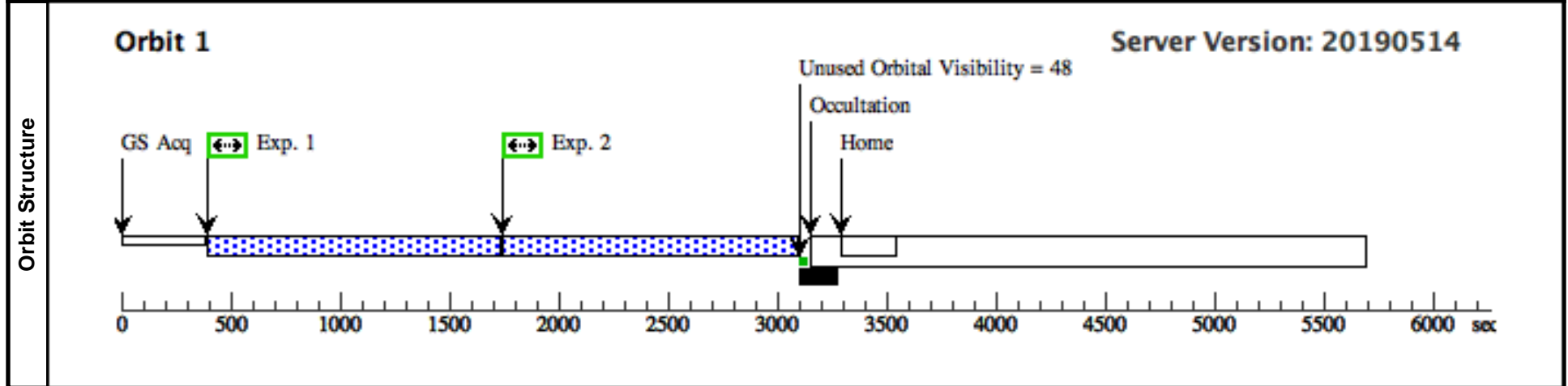
Visit	Proposal 16013, Visit 49 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)									
	(Visit 49) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS. (Visit 49) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL (Visit 49) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(49)	PN-G002.4-03.7	RA: 18 06 5.7650 (271.5240208d) Dec: -28 40 29.28 (-28.67480d) Equinox: J2000		V=14.45 -10.98	Reference Frame: ICRS				
Comments: magnitude uncertainty < 0.1 Category=ISM Description=[PLANETARY NEBULA]										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(49) PN-G002.4-03.7	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	
									[=>]	[1]
	2	(1007738)	(49) PN-G002.4-03.7	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	
									[=>]	[1]
Orbit Structure	Orbit 1 Server Version: 20190514									
	<p>Unused Orbital Visibility = 56</p> <p>GS Acq, Exp. 1, Exp. 2, Occultation, Home</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec</p>									

Visit	Proposal 16013, Visit 51 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 51) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 51) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 51) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(51)</td> <td>PN-G008.1-04.7</td> <td>RA: 18 22 1.1480 (275.5047833d) Dec: -24 10 40.18 (-24.17783d) Equinox: J2000</td> <td></td> <td>V=15.8 -11.4</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: magnitude uncertainty between 0.25 and 0.5</i> Category=ISM Description=[PLANETARY NEBULA]</p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(51)	PN-G008.1-04.7	RA: 18 22 1.1480 (275.5047833d) Dec: -24 10 40.18 (-24.17783d) Equinox: J2000		V=15.8 -11.4	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
	(51)	PN-G008.1-04.7	RA: 18 22 1.1480 (275.5047833d) Dec: -24 10 40.18 (-24.17783d) Equinox: J2000		V=15.8 -11.4	Reference Frame: ICRS							

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(51) PN-G008.1-04.7	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]
	2	(1007738)	(51) PN-G008.1-04.7	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]

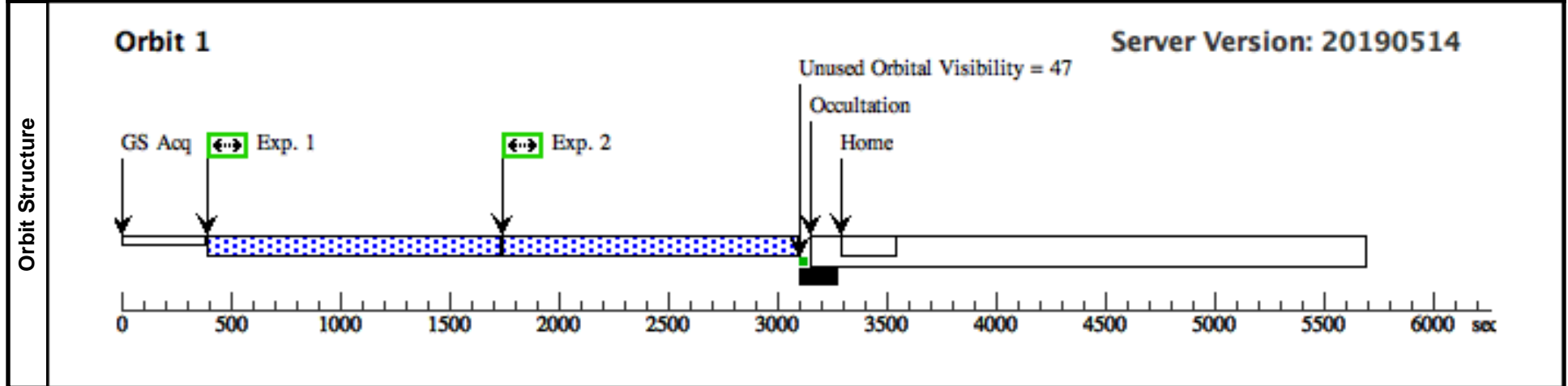


Visit	Proposal 16013, Visit 52 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 52) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 52) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 52) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(52)</td> <td>PN-G010.6+03.2</td> <td>RA: 17 57 6.5990 (269.2774958d) Dec: -18 06 43.43 (-18.11206d) Equinox: J2000</td> <td></td> <td>V=18.3 -12.33</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(52)	PN-G010.6+03.2	RA: 17 57 6.5990 (269.2774958d) Dec: -18 06 43.43 (-18.11206d) Equinox: J2000		V=18.3 -12.33	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
	(52)	PN-G010.6+03.2	RA: 17 57 6.5990 (269.2774958d) Dec: -18 06 43.43 (-18.11206d) Equinox: J2000		V=18.3 -12.33	Reference Frame: ICRS							
Comments: magnitude uncertainty > 0.5 Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(52) PN-G010.6+03.2	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	
									[==>]	[1]
2	(1007738)	(52) PN-G010.6+03.2	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)		
								[==>]	[1]	



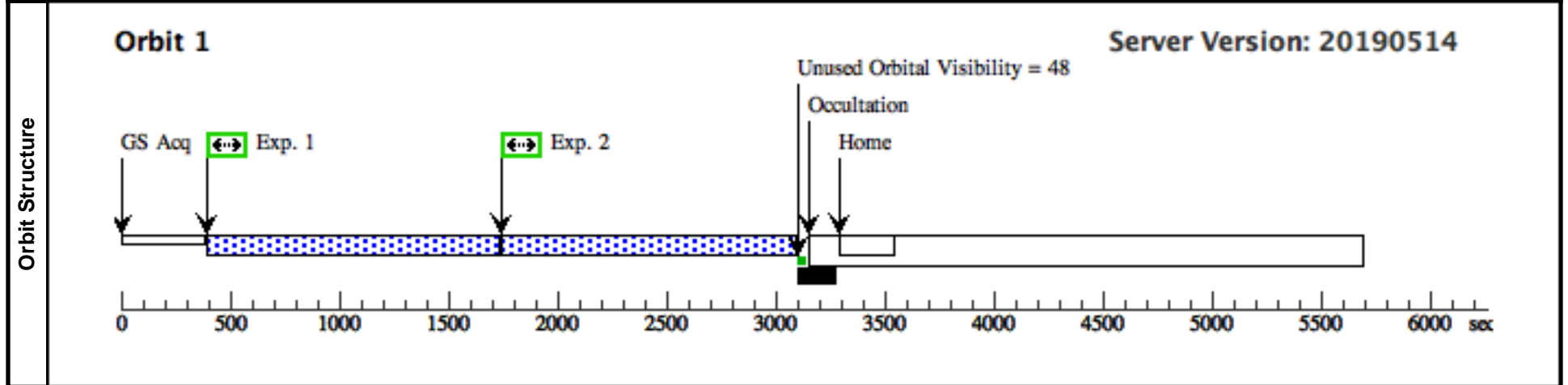
Visit	Proposal 16013, Visit 53 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)									
	(Visit 53) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS. (Visit 53) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL (Visit 53) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(53)	PN-G011.0-05.1	RA: 18 29 11.1540 (277.2964750d) Dec: -21 46 53.43 (-21.78151d) Equinox: J2000		V=15.3 -10.81	Reference Frame: ICRS				
Comments: magnitude uncertainty between 0.25 and 0.5 Category=ISM Description=[PLANETARY NEBULA]										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(53) PN-G011.0-05.1	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1062 Secs (1062 Secs)	
									[=>]	[1]
	2	(1007738)	(53) PN-G011.0-05.1	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		912 Secs (912 Secs)	
									[=>]	[1]
Orbit Structure	Orbit 1 Server Version: 20190514									
	<p>Unused Orbital Visibility = 474</p>									

Visit	Proposal 16013, Visit 55 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 55) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 55) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 55) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(55)</td> <td>PN-G012.5-09.8</td> <td>RA: 18 50 26.0300 (282.6084583d) Dec: -22 34 22.54 (-22.57293d) Equinox: J2000</td> <td></td> <td>V=17.4 -10.84</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: magnitude uncertainty > 0.5</i> Category=ISM Description=[PLANETARY NEBULA]</p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(55)	PN-G012.5-09.8	RA: 18 50 26.0300 (282.6084583d) Dec: -22 34 22.54 (-22.57293d) Equinox: J2000		V=17.4 -10.84	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
	(55)	PN-G012.5-09.8	RA: 18 50 26.0300 (282.6084583d) Dec: -22 34 22.54 (-22.57293d) Equinox: J2000		V=17.4 -10.84	Reference Frame: ICRS							

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(55) PN-G012.5-09.8	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	
									[==>]	[1]
	2	(1007738)	(55) PN-G012.5-09.8	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	
									[==>]	[1]



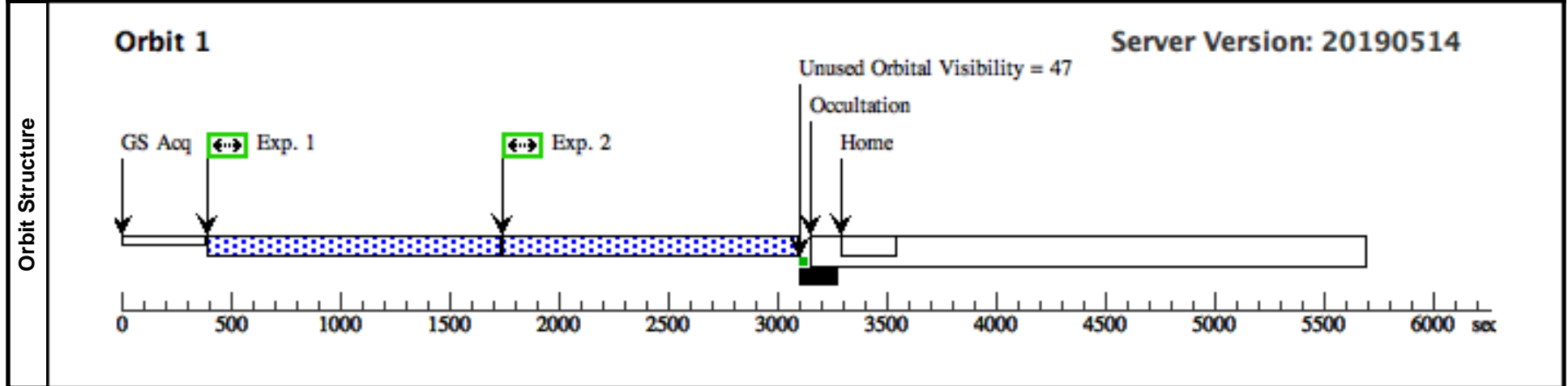
Visit	Proposal 16013, Visit 56 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)									
	(Visit 56) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS. (Visit 56) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL (Visit 56) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(56)	PN-G012.6-02.7	RA: 18 23 7.9840 (275.7832667d) Dec: -19 17 5.26 (-19.28479d) Equinox: J2000		V=16.8 -11.89	Reference Frame: ICRS				
Comments: magnitude uncertainty between 0.25 and 0.5 Category=ISM Description=[PLANETARY NEBULA]										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(56) PN-G012.6-02.7	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	
									[=>]	[1]
	2	(1007738)	(56) PN-G012.6-02.7	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	
									[=>]	[1]
Orbit Structure	Orbit 1 Server Version: 20190514									
	<p>Unused Orbital Visibility = 47</p> <p>GS Acq</p> <p>Exp. 1</p> <p>Exp. 2</p> <p>Occultation</p> <p>Home</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec</p>									

Visit	Proposal 16013, Visit 59 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 59) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 59) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 59) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(59)</td> <td>PN-G051.0+02.8</td> <td>RA: 19 14 59.7550 (288.7489792d) Dec: +17 22 46.01 (17.37945d) Equinox: J2000</td> <td></td> <td>V=13.42 -12.37</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(59)	PN-G051.0+02.8	RA: 19 14 59.7550 (288.7489792d) Dec: +17 22 46.01 (17.37945d) Equinox: J2000		V=13.42 -12.37	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(59)	PN-G051.0+02.8	RA: 19 14 59.7550 (288.7489792d) Dec: +17 22 46.01 (17.37945d) Equinox: J2000		V=13.42 -12.37	Reference Frame: ICRS								
Comments: magnitude uncertainty < 0.1 Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(59) PN-G051.0+02.8	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]
2	(1007738)	(59) PN-G051.0+02.8	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]	

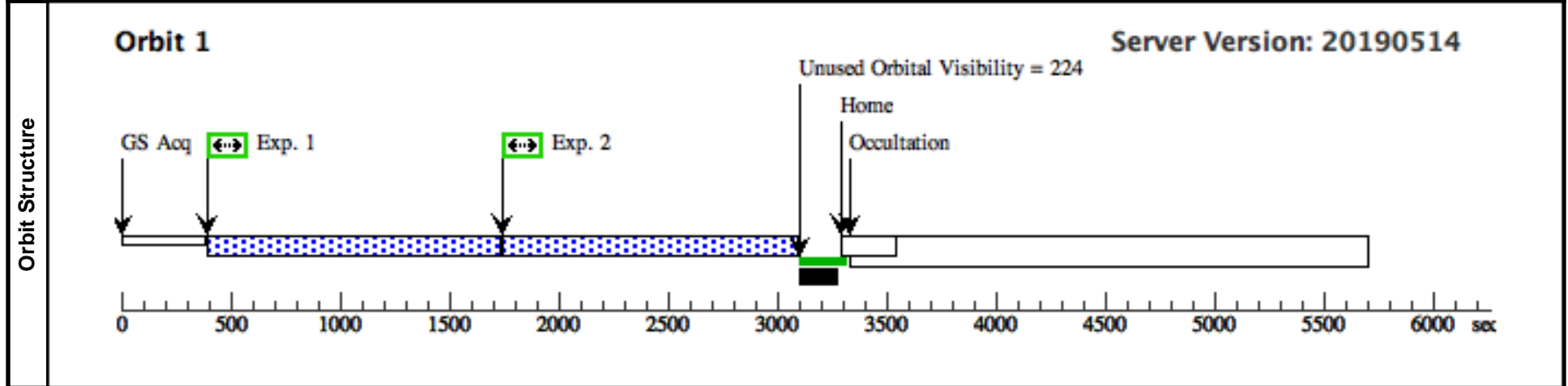


Visit	Proposal 16013, Visit 60				
	Diagnostic Status: Warning				
	Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA				
	Special Requirements: (none)				

Diagnostics	(Visit 60) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.				
	(Visit 60) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL				
	(Visit 60) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(60)	PN-G329.4-02.7	RA: 16 14 24.2660 (243.6011083d) Dec: -54 47 38.82 (-54.79412d) Equinox: J2000		V=16.1 -11.58	Reference Frame: ICRS
	<i>Comments: magnitude uncertainty between 0.25 and 0.5</i>					
	Category=ISM Description=[PLANETARY NEBULA]					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	(1007072)	(60) PN-G329.4-02.7	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)		
										[=>]	[1]
	2	(1007738)	(60) PN-G329.4-02.7	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)		
									[=>]	[1]	

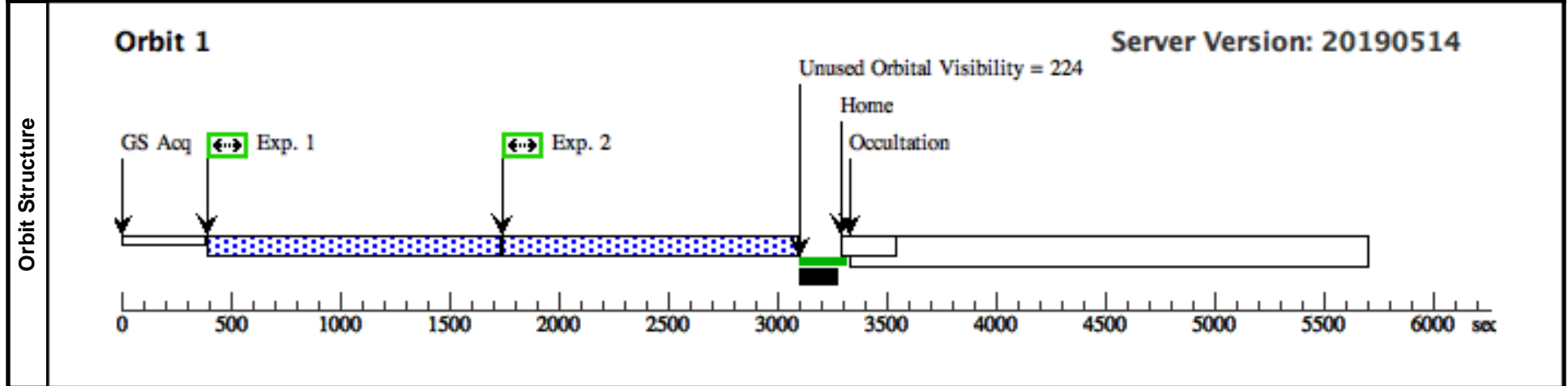


Visit	Proposal 16013, Visit 61 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 61) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 61) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 61) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(61)</td> <td>PN-G331.0-02.7</td> <td>RA: 16 22 14.2640 (245.5594333d) Dec: -53 40 54.09 (-53.68169d) Equinox: J2000</td> <td></td> <td>V=17.6 -12.17</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(61)	PN-G331.0-02.7	RA: 16 22 14.2640 (245.5594333d) Dec: -53 40 54.09 (-53.68169d) Equinox: J2000		V=17.6 -12.17	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(61)	PN-G331.0-02.7	RA: 16 22 14.2640 (245.5594333d) Dec: -53 40 54.09 (-53.68169d) Equinox: J2000		V=17.6 -12.17	Reference Frame: ICRS								
Comments: magnitude uncertainty between 0.25 and 0.5 Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(61) PN-G331.0-02.7	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0			1200 Secs (1200 Secs) [==>]
2	(1007738)	(61) PN-G331.0-02.7	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0			1200 Secs (1200 Secs) [==>]	[1]

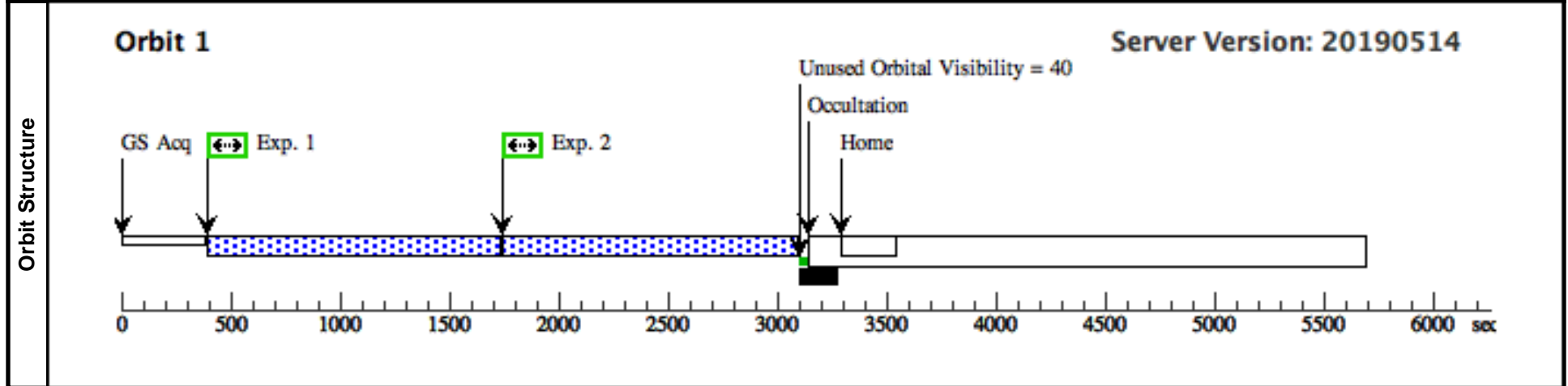


Visit	Proposal 16013, Visit 63 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 63) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 63) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 63) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(63)</td> <td>PN-G019.7-04.5</td> <td>RA: 18 43 38.1070 (280.9087792d) Dec: -13 44 48.64 (-13.74684d) Equinox: J2000</td> <td></td> <td>V=13.4 -11.25</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(63)	PN-G019.7-04.5	RA: 18 43 38.1070 (280.9087792d) Dec: -13 44 48.64 (-13.74684d) Equinox: J2000		V=13.4 -11.25	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
	(63)	PN-G019.7-04.5	RA: 18 43 38.1070 (280.9087792d) Dec: -13 44 48.64 (-13.74684d) Equinox: J2000		V=13.4 -11.25	Reference Frame: ICRS							
Comments: B magnitude 13.4 (V not available) Category=ISM Description=[PLANETARY NEBULA]													

Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>(1007072)</td> <td>(63) PN-G019.7-04.5</td> <td>STIS/FUV-MAMA, ACCUM, 6X6</td> <td>G140L 1425 A</td> <td>WAVECAL=NO</td> <td>POS TARG 0,0</td> <td></td> <td>1200 Secs (1200 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(1007738)</td> <td>(63) PN-G019.7-04.5</td> <td>STIS/NUV-MAMA, ACCUM, 6X6</td> <td>G230L 2376 A</td> <td>WAVECAL=NO</td> <td>POS TARG 0,0</td> <td></td> <td>1200 Secs (1200 Secs) [==>]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	(1007072)	(63) PN-G019.7-04.5	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs) [==>]	[1]	2	(1007738)	(63) PN-G019.7-04.5	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs) [==>]	[1]
	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																					
	1	(1007072)	(63) PN-G019.7-04.5	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs) [==>]	[1]																					
2	(1007738)	(63) PN-G019.7-04.5	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs) [==>]	[1]																						

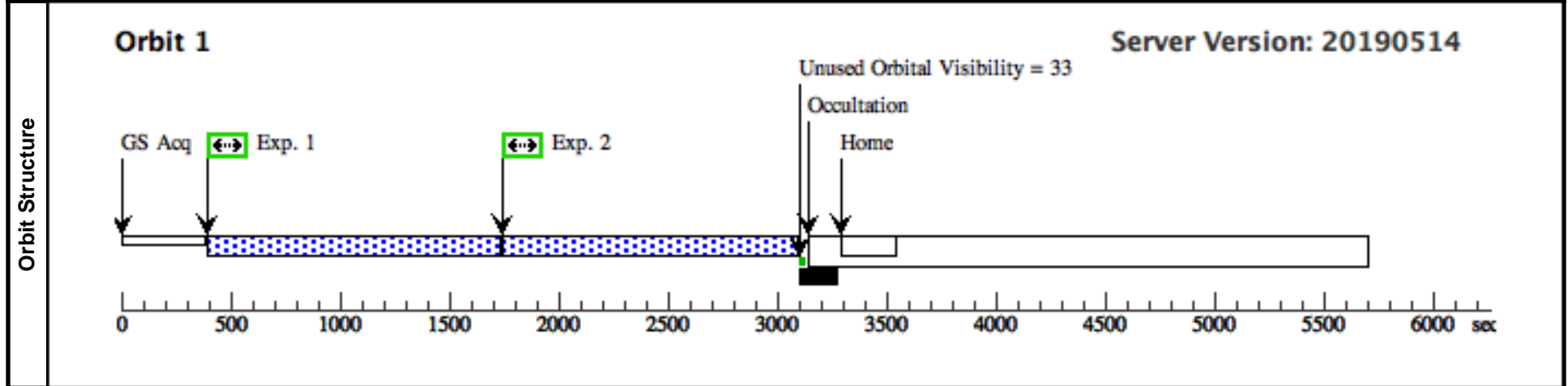


Visit	Proposal 16013, Visit 65 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 65) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 65) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 65) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(65)</td> <td>PN-G211.2-03.5</td> <td>RA: 06 35 45.1400 (98.9380833d) Dec: -00 05 37.37 (-.09371d) Equinox: J2000</td> <td></td> <td>V=15.84 -12.26</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: magnitude uncertainty between 0.1 and 0.25</i> Category=ISM Description=[PLANETARY NEBULA]</p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(65)	PN-G211.2-03.5	RA: 06 35 45.1400 (98.9380833d) Dec: -00 05 37.37 (-.09371d) Equinox: J2000		V=15.84 -12.26	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
	(65)	PN-G211.2-03.5	RA: 06 35 45.1400 (98.9380833d) Dec: -00 05 37.37 (-.09371d) Equinox: J2000		V=15.84 -12.26	Reference Frame: ICRS							

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(65) PN-G211.2-03.5	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	
									[==>]	[1]
	2	(1007738)	(65) PN-G211.2-03.5	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	
									[==>]	[1]

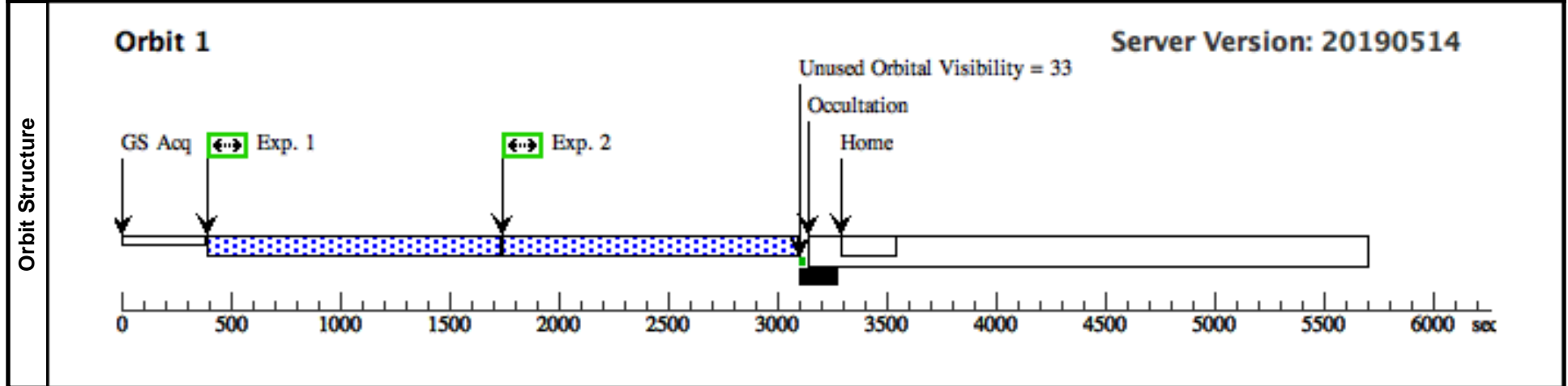


Visit	Proposal 16013, Visit 66 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 66) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 66) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 66) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(66)</td> <td>PN-G212.0+04.3</td> <td>RA: 07 05 19.2040 (106.3300167d) Dec: +02 46 59.16 (2.78310d) Equinox: J2000</td> <td></td> <td>V=15.6 -11.38</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(66)	PN-G212.0+04.3	RA: 07 05 19.2040 (106.3300167d) Dec: +02 46 59.16 (2.78310d) Equinox: J2000		V=15.6 -11.38	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
	(66)	PN-G212.0+04.3	RA: 07 05 19.2040 (106.3300167d) Dec: +02 46 59.16 (2.78310d) Equinox: J2000		V=15.6 -11.38	Reference Frame: ICRS							
<i>Comments: magnitude uncertainty between 0.25 and 0.5</i> Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(66) PN-G212.0+04.3	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]
	2	(1007738)	(66) PN-G212.0+04.3	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]

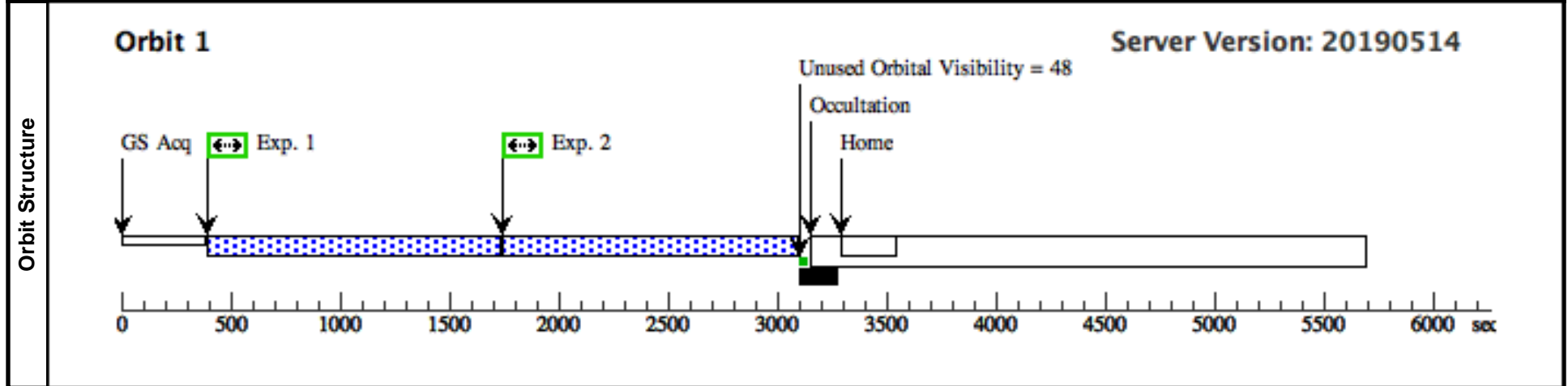


Visit	Proposal 16013, Visit 68				
	Diagnostic Status: Warning				
	Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA				
	Special Requirements: (none)				

Diagnostics	(Visit 68) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.				
	(Visit 68) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL				
	(Visit 68) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(68)	PN-G235.3-03.9	RA: 07 19 21.4710 (109.8394625d) Dec: -21 43 55.46 (-21.73207d) Equinox: J2000		V=14.18 -12.42	Reference Frame: ICRS
<i>Comments: magnitude uncertainty between 0.1 and 0.25</i>						
<i>Category=ISM</i>						
<i>Description=[PLANETARY NEBULA]</i>						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(68) PN-G235.3-03.9	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]
2	(1007738)	(68) PN-G235.3-03.9	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]	

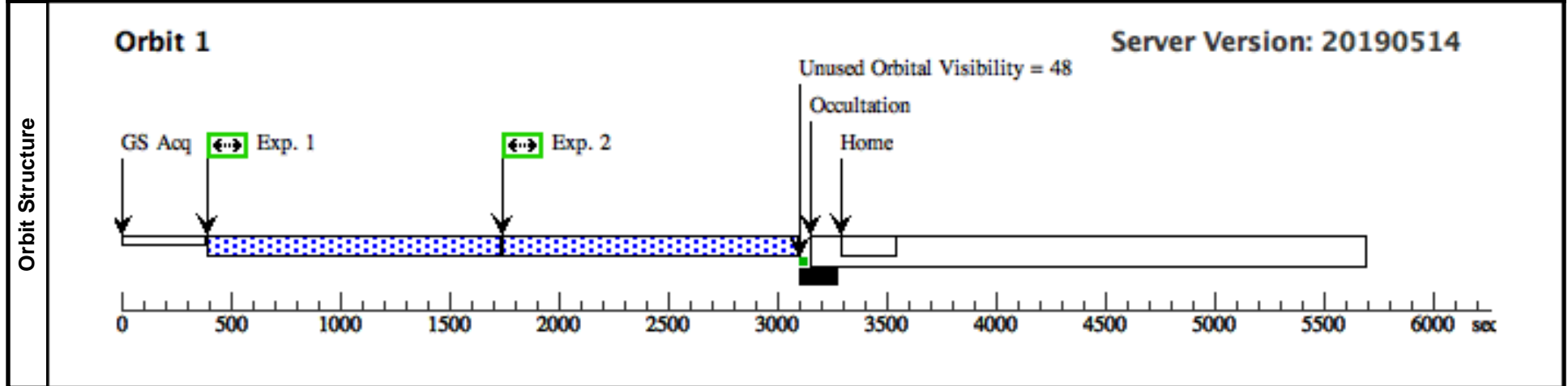


Visit	Proposal 16013, Visit 72 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 72) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 72) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 72) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(72)</td> <td>PN-G059.4+02.3</td> <td>RA: 19 33 46.7490 (293.4447875d) Dec: +24 32 27.09 (24.54086d) Equinox: J2000</td> <td></td> <td>V=17.8 -11.95</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p>Comments: B magnitude 17.8 (V not available) Category=ISM Description=[PLANETARY NEBULA]</p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(72)	PN-G059.4+02.3	RA: 19 33 46.7490 (293.4447875d) Dec: +24 32 27.09 (24.54086d) Equinox: J2000		V=17.8 -11.95	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
	(72)	PN-G059.4+02.3	RA: 19 33 46.7490 (293.4447875d) Dec: +24 32 27.09 (24.54086d) Equinox: J2000		V=17.8 -11.95	Reference Frame: ICRS							

Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>(1007072) 3</td> <td>(72) PN-G059.4+02.</td> <td>STIS/FUV-MAMA, ACCUM, 6X6</td> <td>G140L 1425 A</td> <td>WAVECAL=NO</td> <td>POS TARG 0,0</td> <td></td> <td>1200 Secs (1200 Secs) [=>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(1007738) 3</td> <td>(72) PN-G059.4+02.</td> <td>STIS/NUV-MAMA, ACCUM, 6X6</td> <td>G230L 2376 A</td> <td>WAVECAL=NO</td> <td>POS TARG 0,0</td> <td></td> <td>1200 Secs (1200 Secs) [=>]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	(1007072) 3	(72) PN-G059.4+02.	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs) [=>]	[1]	2	(1007738) 3	(72) PN-G059.4+02.	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs) [=>]	[1]
	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																					
	1	(1007072) 3	(72) PN-G059.4+02.	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs) [=>]	[1]																					
2	(1007738) 3	(72) PN-G059.4+02.	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs) [=>]	[1]																						

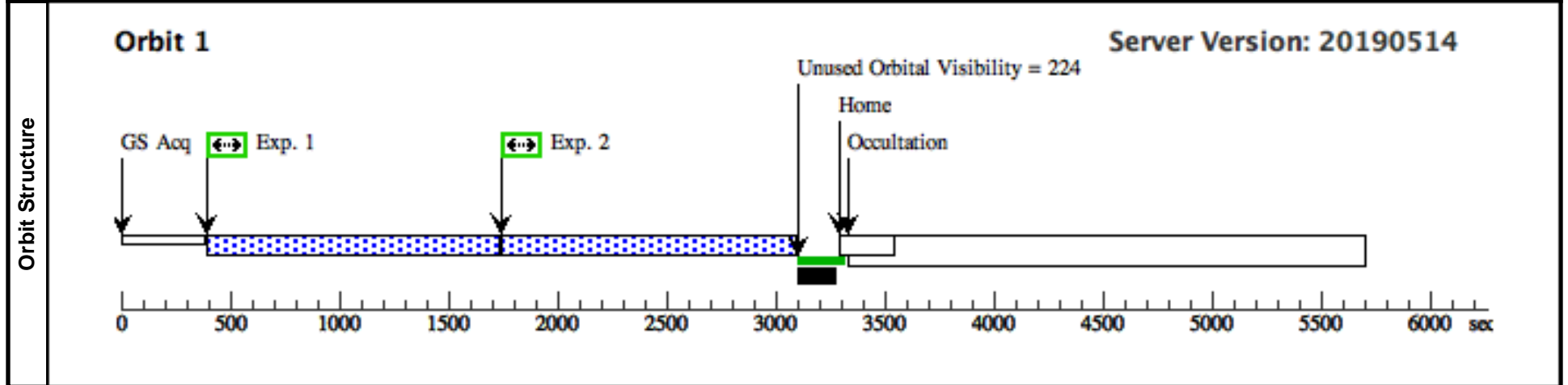


Visit	Proposal 16013, Visit 73 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 73) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 73) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 73) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(73)</td> <td>PN-G324.2+02.5</td> <td>RA: 15 23 36.3260 (230.9013583d) Dec: -53 51 27.95 (-53.85776d) Equinox: J2000</td> <td></td> <td>V=15 -11.6</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(73)	PN-G324.2+02.5	RA: 15 23 36.3260 (230.9013583d) Dec: -53 51 27.95 (-53.85776d) Equinox: J2000		V=15 -11.6	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(73)	PN-G324.2+02.5	RA: 15 23 36.3260 (230.9013583d) Dec: -53 51 27.95 (-53.85776d) Equinox: J2000		V=15 -11.6	Reference Frame: ICRS								
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(73) PN-G324.2+02.5	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]
2	(1007738)	(73) PN-G324.2+02.5	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0		1200 Secs (1200 Secs)	[1]	



Visit	Proposal 16013, Visit 75 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/FUV-MAMA Special Requirements: (none)
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Diagnostics	(Visit 75) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.
	(Visit 75) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL
	(Visit 75) Warning (Orbit Planner): STIS SCIENCE TOO FAR FROM WAVECAL

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(75)</td> <td>PN-G356.2-04.4</td> <td>RA: 17 54 32.9780 (268.6374083d) Dec: -34 22 20.84 (-34.37246d) Equinox: J2000</td> <td></td> <td>V=14 -10.91</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(75)	PN-G356.2-04.4	RA: 17 54 32.9780 (268.6374083d) Dec: -34 22 20.84 (-34.37246d) Equinox: J2000		V=14 -10.91	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(75)	PN-G356.2-04.4	RA: 17 54 32.9780 (268.6374083d) Dec: -34 22 20.84 (-34.37246d) Equinox: J2000		V=14 -10.91	Reference Frame: ICRS								
Comments: Category=ISM Description=[PLANETARY NEBULA]													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1007072)	(75) PN-G356.2-04.4	STIS/FUV-MAMA, ACCUM, 6X6	G140L 1425 A	WAVECAL=NO	POS TARG 0,0			1200 Secs (1200 Secs) [==>]
2	(1007738)	(75) PN-G356.2-04.4	STIS/NUV-MAMA, ACCUM, 6X6	G230L 2376 A	WAVECAL=NO	POS TARG 0,0			1200 Secs (1200 Secs) [==>]	[1]

