



16267 - Probing the Atmosphere of a Temperate Transiting Jovian Planet with an Orbital Period of 1.5 Years

Cycle: 28, Proposal Category: GO

(Availability Mode: SUPPORTED)

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<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) HIP41378	WFC3/IR	6	10-May-2021 16:01:21.0	yes
02	(1) HIP41378	WFC3/IR	6	10-May-2021 16:02:19.0	yes
03	(1) HIP41378	WFC3/IR	6	10-May-2021 16:02:46.0	yes

18 Total Orbits Used

ABSTRACT

We request 18 orbits of HST time to observe the transit of HIP 41378 f, a Jovian planet (9.2 Earth radii) in a long-period orbit (542 days = 1.5 years) in a multi-planet system. The host star HIP 41378 is bright ($K_s = 7.7$, $V = 8.9$), Sun-like (1.2 solar masses, 1.3 solar radii), and known to host at least five transiting planets. Two transits of HIP 41378 f were observed by the NASA K2 mission during non-consecutive three-month observing campaigns in 2015 and 2018, restricting the set of possible periods to a set of harmonics with a maximum period of roughly 1000 days and a minimum period near 50 days. An intensive radial velocity campaign (464 observations spanning four years) has just ruled out the remaining possibilities, revealing that the HIP 41378 f has an orbital period of 542 days and an unexpectedly low mass of 12 Earth masses. HIP 41378 f is predicted to transit on 20 May 2021 and will not transit again until November 2022. We propose to observe the 2021 transit event with WFC3/G141 to accomplish three goals: (1) probe the atmospheric composition of a cool Jovian planet; (2) investigate the possible presence of rings; (3) place constraints on the presence of exomoons. HIP 41378 f occupies a poorly-probed region of parameter space and bridges the gap between the hotter planets previously studied via transmission spectroscopy and the cooler Jovian planets in our own solar system. HST transmission spectroscopy of HIP 41378 f would provide an opportunity to investigate the influence of stellar irradiation on giant planet atmospheres and inform efforts to detect Jupiter analogs with direct imaging surveys.

OBSERVING DESCRIPTION

The transit of HIP 41378 f will last 19 hours (roughly 12 orbits). We request 18 consecutive HST orbits to observe the transit of HIP 41378 f. These observations will provide high phase coverage during the transit event as well as the pre-transit and post-transit baselines necessary for precisely determining the transit depth and constraining atmospheric properties.

We will use WFC3 with the G141 (1.0 - 1.7 micron) grism. Our proposed observational design mimics that of numerous successful previous transmission spectroscopy observations with WFC/G141 (e.g., Knutson et al. 2014a,b; Kreidberg et al. 2014, 2015, 2018; Benneke et al. 2018, 2019). Specifically, we will perform time series spectroscopy just before, during, and just after transit. We will utilize the spatial scan observing mode to permit longer exposure times, thus reducing read noise without saturating the detector. In addition, we will use the 256 x 256 subarray to facilitate longer spatial scans and further improve observational efficiency for our bright target star.

We used the open-source PandExo_HST tool to identify the optimal sampling sequence and scan rate. PandExo maximizes observational efficiency while ensuring that the peak photon counts are roughly 30,000 photoelectrons per pixel. We will further increase the efficiency of our observations by alternating between forward and reverse scanning along the detector. At the start of the visit, we will acquire a direct image of HIP 41378 for wavelength calibration. In consecutive orbits, we will use the Hydrogen Paschen line at 1.28 μm as a wavelength reference.

Our PandExo simulations indicated that the ideal observation parameters are $\text{NSAMP} = 8$ and $\text{SAMP SEQ} = \text{SPARS10}$. We will scan at a rate of 0.418629 $^\circ/\text{s}$ using a scan size of 179 pixels and an exposure time of 51.7 seconds. These observations are predicted to result in a transit depth uncertainty of 23 ppm per channel when subdividing the spectrum into 30 wavelength channels.

Proposal 16267 - transit (01) - Probing the Atmosphere of a Temperate Transiting Jovian Planet with an Orbital Period of 1.5 Years

Visit	Proposal 16267, transit (01), scheduling Mon May 10 20:02:48 GMT 2021 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: PCS MODE FINE; ORIENT 285D TO 302 D; ORIENT 86D TO 151 D; BETWEEN 19-MAY-2021:22:06:00 AND 20-MAY-2021:00:06:00 <i>Comments: First of three consecutive visits covering pre-transit baseline, the transit, and post-transit baseline.</i>																	
	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>HIP41378</td> <td> RA: 08 26 27.8490 (126.6160375d) Dec: +10 04 49.33 (10.08037d) Equinox: J2000 </td> <td> Proper Motion RA: -48.143 mas/yr Proper Motion Dec: 0.059 mas/yr Parallax: 0.0093799" Epoch of Position: 2018 Radial Velocity: 50.42 km/sec </td> <td> V=8.92+/-0.02 B = 9.42 +/- 0.02, G = 8.81 +/- 0.0004, J = 7.982 +/- 0.026, H = 7.786 +/- 0.038, K = 7.722 +/- 0.031 </td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	HIP41378	RA: 08 26 27.8490 (126.6160375d) Dec: +10 04 49.33 (10.08037d) Equinox: J2000	Proper Motion RA: -48.143 mas/yr Proper Motion Dec: 0.059 mas/yr Parallax: 0.0093799" Epoch of Position: 2018 Radial Velocity: 50.42 km/sec	V=8.92+/-0.02 B = 9.42 +/- 0.02, G = 8.81 +/- 0.0004, J = 7.982 +/- 0.026, H = 7.786 +/- 0.038, K = 7.722 +/- 0.031	Reference Frame: SIMBAD	<i>Comments: ICRS coordinates, proper motions, parallax, and radial velocity are from Gaia DR2 and were retrieved from SIMBAD.</i> Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM]			
#		Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(1)	HIP41378	RA: 08 26 27.8490 (126.6160375d) Dec: +10 04 49.33 (10.08037d) Equinox: J2000	Proper Motion RA: -48.143 mas/yr Proper Motion Dec: 0.059 mas/yr Parallax: 0.0093799" Epoch of Position: 2018 Radial Velocity: 50.42 km/sec	V=8.92+/-0.02 B = 9.42 +/- 0.02, G = 8.81 +/- 0.0004, J = 7.982 +/- 0.026, H = 7.786 +/- 0.038, K = 7.722 +/- 0.031	Reference Frame: SIMBAD													

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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	F126N	NSAMP=4; SAMP-SEQ=SPAR S5	GSPAIR N84300030 0F2N843000402F3	Sequence 1-8 Non-Int in transit (01)	7.32736 Secs (7.327 Secs) [==>]	[1]
	2	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=6; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 1-8 Non-Int in transit (01)	37.01025 Secs (74.02 Secs) [==>(Forward)] [==>(Reverse)]	[1]
	3	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 1-8 Non-Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[1]
	4	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 1-8 Non-Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[1]
	5	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 1-8 Non-Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[1]
	6	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 1-8 Non-Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[1]
	7	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 1-8 Non-Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[1]
	8	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 1-8 Non-Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[1]
	9	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 9-17 Non-Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[2]
	10	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 9-17 Non-Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[2]
	11	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 9-17 Non-Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[2]
	12	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 9-17 Non-Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[2]
	13	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 9-17 Non-Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[2]

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14	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 9-17 Non-Int in transit (01)	51.703224 Secs (103.406 Secs)	[2]
							[==>(Forward)] [==>(Reverse)]	
15	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 9-17 Non-Int in transit (01)	51.703224 Secs (103.406 Secs)	[2]
							[==>(Forward)] [==>(Reverse)]	
16	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 9-17 Non-Int in transit (01)	51.703224 Secs (103.406 Secs)	[2]
							[==>(Forward)] [==>(Reverse)]	
17	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 9-17 Non-Int in transit (01)	51.703224 Secs (103.406 Secs)	[2]
							[==>(Forward)] [==>(Reverse)]	
18	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 18-28 Non-Int in transit (01)	51.703224 Secs (103.406 Secs)	[3]
							[==>(Forward)] [==>(Reverse)]	
19	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 18-28 Non-Int in transit (01)	51.703224 Secs (103.406 Secs)	[3]
							[==>(Forward)] [==>(Reverse)]	
20	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 18-28 Non-Int in transit (01)	51.703224 Secs (103.406 Secs)	[3]
							[==>(Forward)] [==>(Reverse)]	
21	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 18-28 Non-Int in transit (01)	51.703224 Secs (103.406 Secs)	[3]
							[==>(Forward)] [==>(Reverse)]	
22	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 18-28 Non-Int in transit (01)	51.703224 Secs (103.406 Secs)	[3]
							[==>(Forward)] [==>(Reverse)]	
23	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 18-28 Non-Int in transit (01)	51.703224 Secs (103.406 Secs)	[3]
							[==>(Forward)] [==>(Reverse)]	
24	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 18-28 Non-Int in transit (01)	51.703224 Secs (103.406 Secs)	[3]
							[==>(Forward)] [==>(Reverse)]	
25	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 18-28 Non-Int in transit (01)	51.703224 Secs (103.406 Secs)	[3]
							[==>(Forward)] [==>(Reverse)]	
26	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 18-28 Non-Int in transit (01)	51.703224 Secs (103.406 Secs)	[3]
							[==>(Forward)] [==>(Reverse)]	

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27	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 18-28 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[3]
28	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 18-28 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[3]
29	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=7; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (01)	44.356737 Secs (88.713 Secs) [==>(Forward)] [==>(Reverse)]	[4]
30	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
31	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
32	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
33	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
34	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
35	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
36	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
37	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
38	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
39	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]

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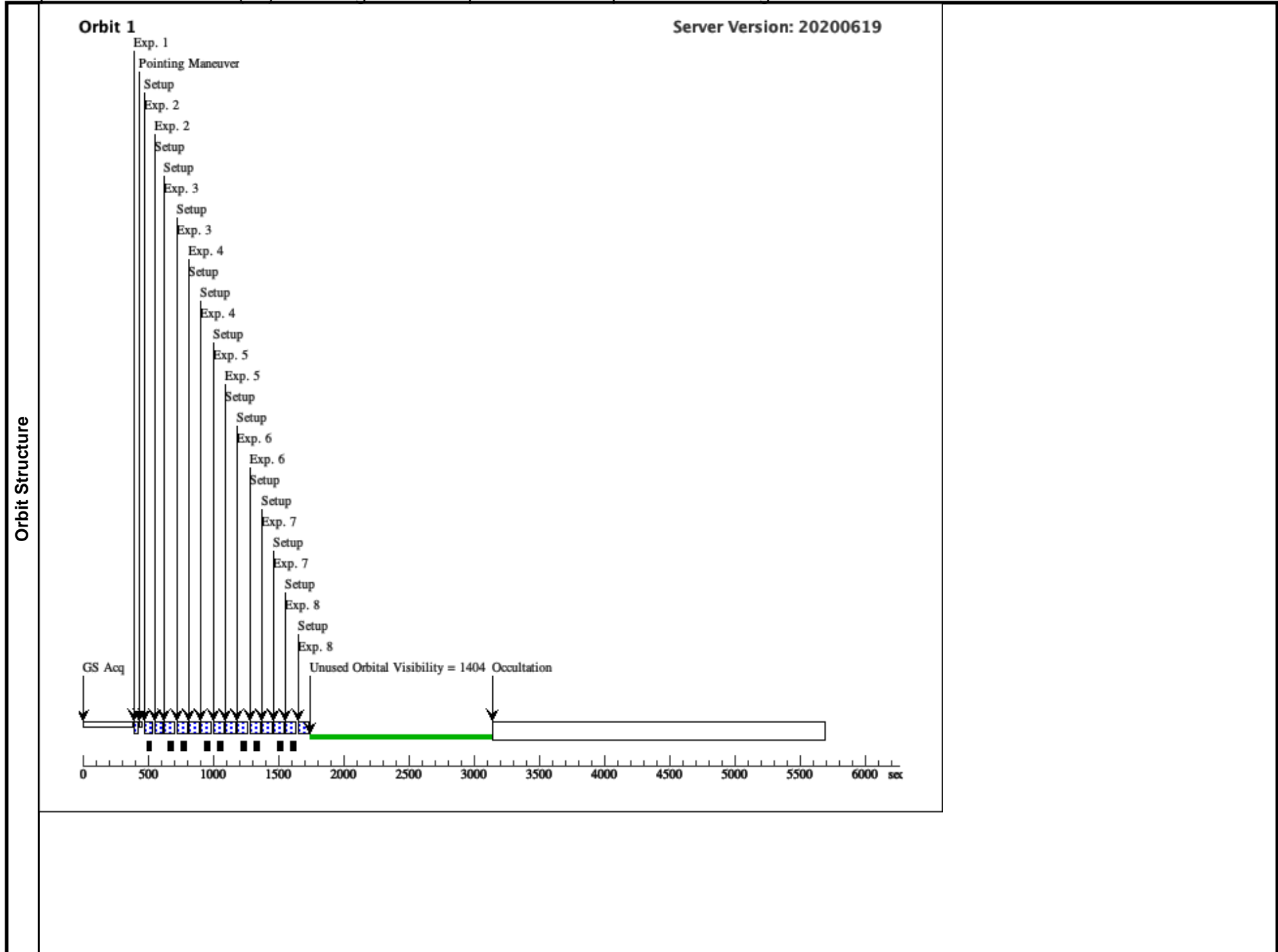
40	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
41	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
42	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
43	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=7; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (01)	44.356737 Secs (88.713 Secs) [==>(Forward)] [==>(Reverse)]	[5]
44	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]
45	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]
46	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]
47	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]
48	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]
49	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]
50	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]
51	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]
52	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]

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53	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]
54	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]
55	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]
56	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]
57	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=7; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 57-70 Non -Int in transit (01)	44.356737 Secs (88.713 Secs) [==>(Forward)] [==>(Reverse)]	[6]
58	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 57-70 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[6]
59	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 57-70 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[6]
60	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 57-70 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[6]
61	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 57-70 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[6]
62	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 57-70 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[6]
63	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 57-70 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[6]
64	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 57-70 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[6]
65	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 57-70 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[6]

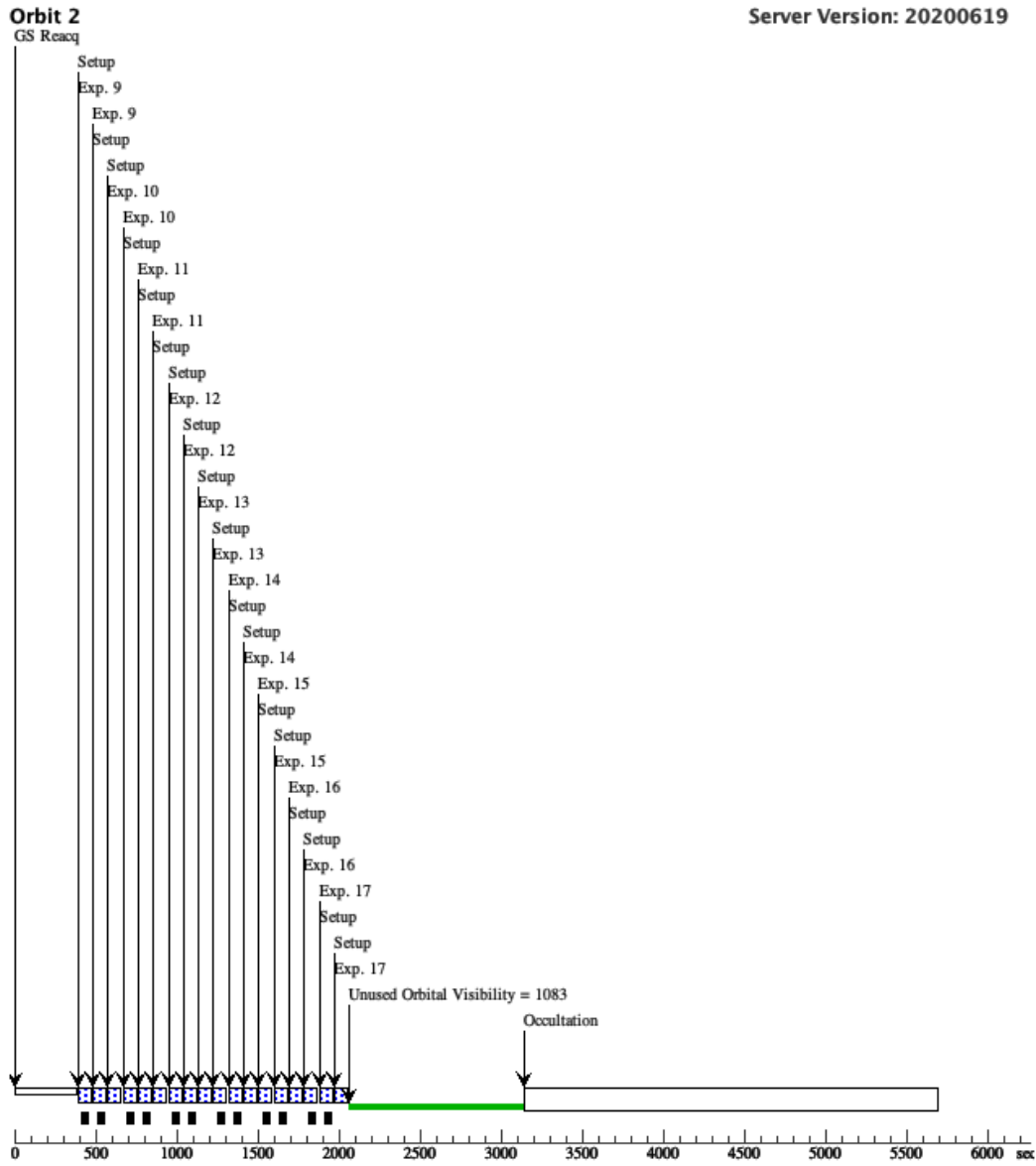
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66	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 57-70 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[6]
67	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 57-70 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[6]
68	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 57-70 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[6]
69	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 57-70 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[6]
70	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 57-70 Non -Int in transit (01)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[6]

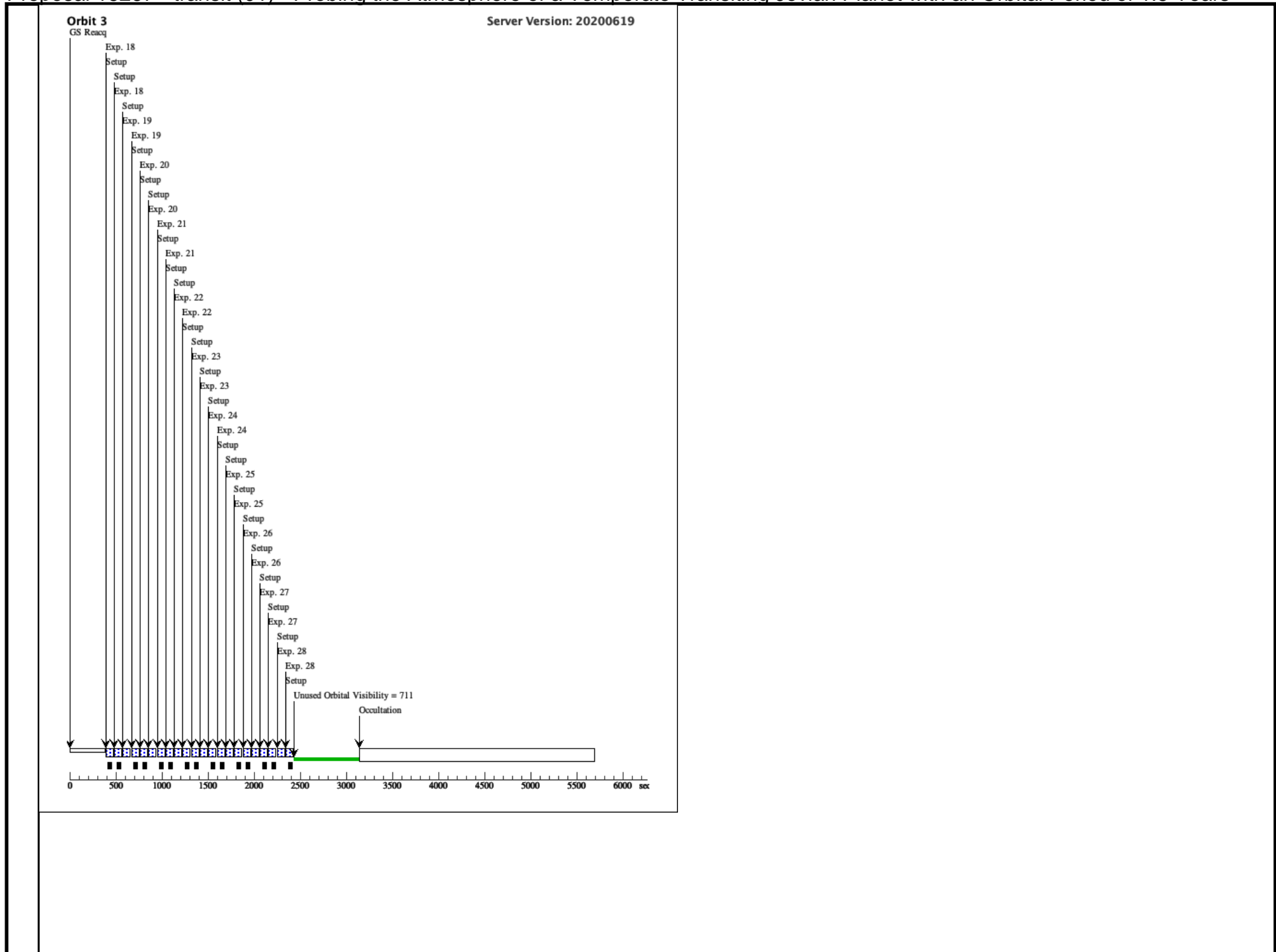


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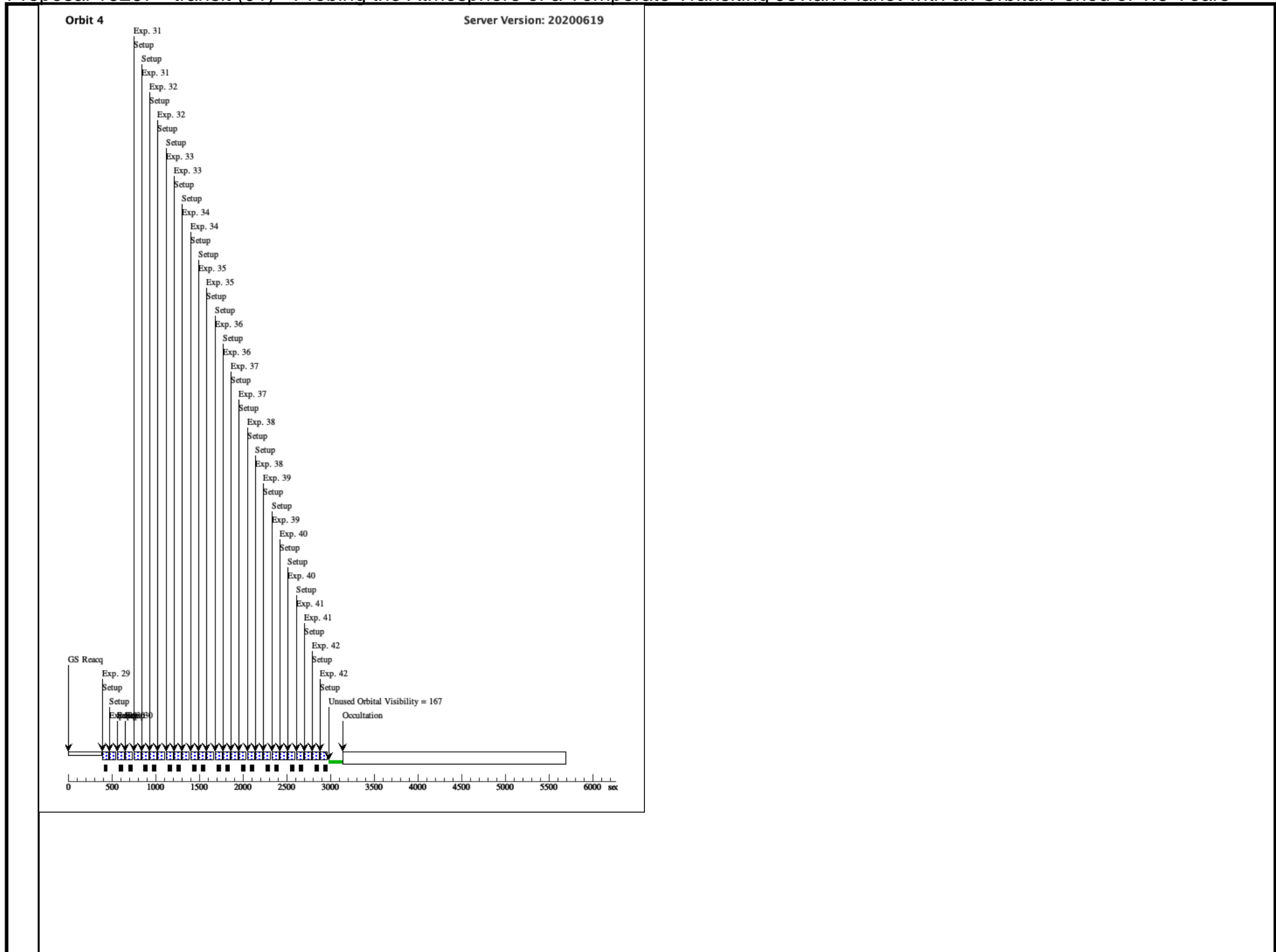
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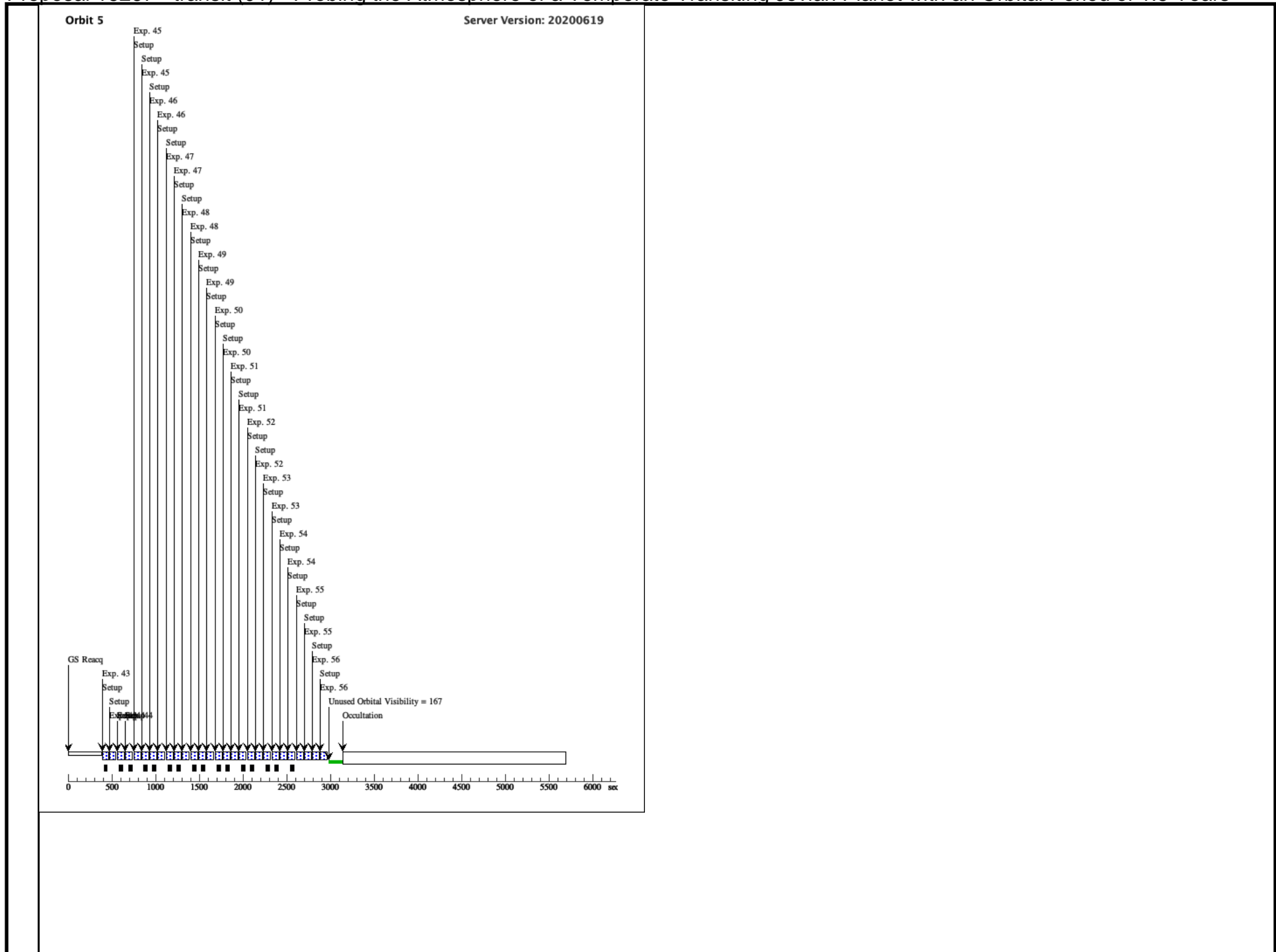
Proposal 16267 - transit (01) - Probing the Atmosphere of a Temperate Transiting Jovian Planet with an Orbital Period of 1.5 Years



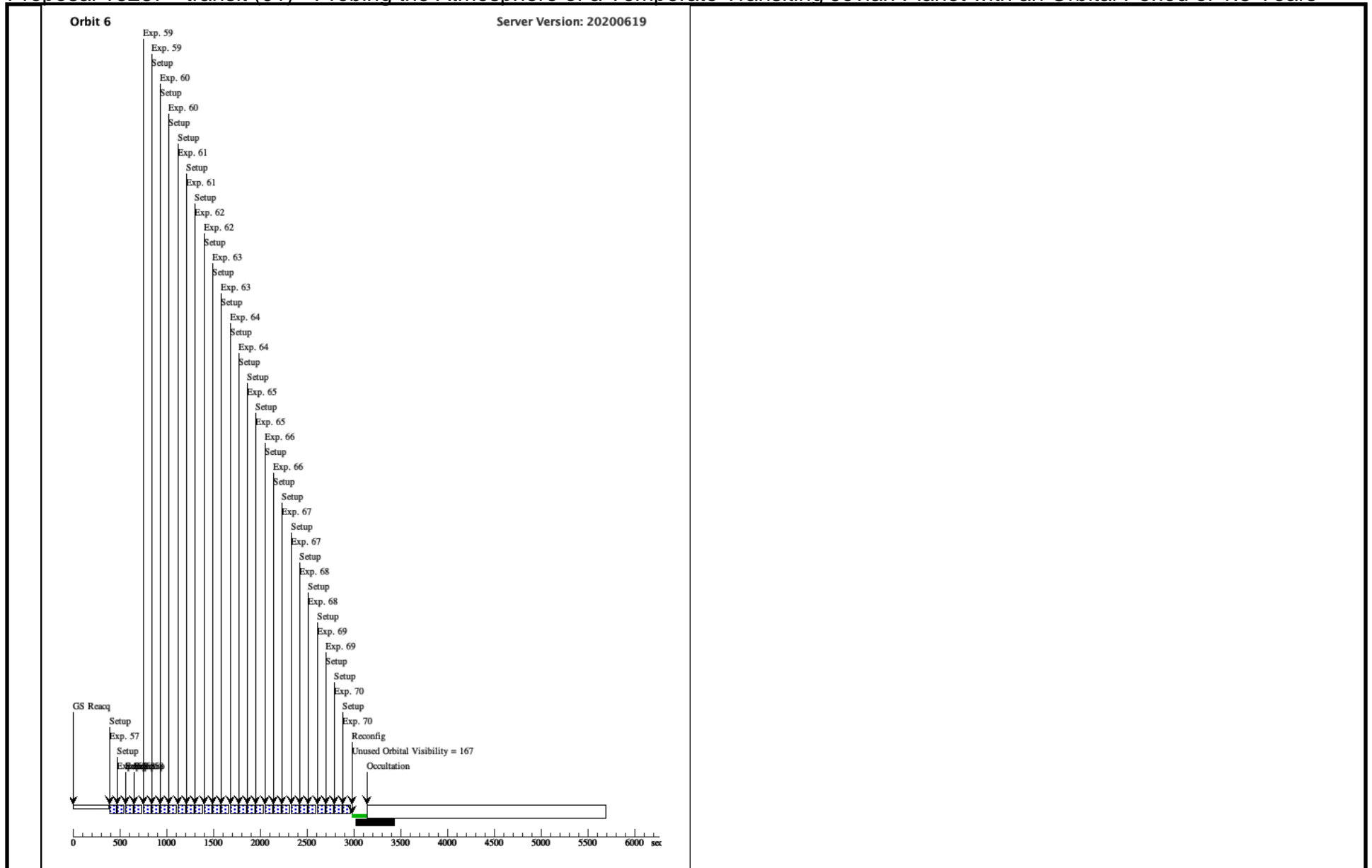
Proposal 16267 - transit (01) - Probing the Atmosphere of a Temperate Transiting Jovian Planet with an Orbital Period of 1.5 Years



Proposal 16267 - transit (01) - Probing the Atmosphere of a Temperate Transiting Jovian Planet with an Orbital Period of 1.5 Years



Proposal 16267 - transit (01) - Probing the Atmosphere of a Temperate Transiting Jovian Planet with an Orbital Period of 1.5 Years



Proposal 16267 - transit (02) - Probing the Atmosphere of a Temperate Transiting Jovian Planet with an Orbital Period of 1.5 Years

Visit	Proposal 16267, transit (02), implementation Mon May 10 20:02:49 GMT 2021 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: PCS MODE FINE; ORIENT 285D TO 302 D; ORIENT 86D TO 151 D; BETWEEN 20-MAY-2021:07:36:00 AND 20-MAY-2021:09:36:00 Comments: <i>Second of three consecutive visits covering pre-transit baseline, the transit, and post-transit baseline.</i>																	
	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>HIP41378</td> <td> RA: 08 26 27.8490 (126.6160375d) Dec: +10 04 49.33 (10.08037d) Equinox: J2000 </td> <td> Proper Motion RA: -48.143 mas/yr Proper Motion Dec: 0.059 mas/yr Parallax: 0.0093799" Epoch of Position: 2018 Radial Velocity: 50.42 km/sec </td> <td> V=8.92+/-0.02 B = 9.42 +/- 0.02, G = 8.81 +/- 0.0004, J = 7.982 +/- 0.026, H = 7.786 +/- 0.038, K = 7.722 +/- 0.031 </td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	HIP41378	RA: 08 26 27.8490 (126.6160375d) Dec: +10 04 49.33 (10.08037d) Equinox: J2000	Proper Motion RA: -48.143 mas/yr Proper Motion Dec: 0.059 mas/yr Parallax: 0.0093799" Epoch of Position: 2018 Radial Velocity: 50.42 km/sec	V=8.92+/-0.02 B = 9.42 +/- 0.02, G = 8.81 +/- 0.0004, J = 7.982 +/- 0.026, H = 7.786 +/- 0.038, K = 7.722 +/- 0.031	Reference Frame: SIMBAD	Comments: <i>ICRS coordinates, proper motions, parallax, and radial velocity are from Gaia DR2 and were retrieved from SIMBAD.</i> Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM]			
#		Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(1)	HIP41378	RA: 08 26 27.8490 (126.6160375d) Dec: +10 04 49.33 (10.08037d) Equinox: J2000	Proper Motion RA: -48.143 mas/yr Proper Motion Dec: 0.059 mas/yr Parallax: 0.0093799" Epoch of Position: 2018 Radial Velocity: 50.42 km/sec	V=8.92+/-0.02 B = 9.42 +/- 0.02, G = 8.81 +/- 0.0004, J = 7.982 +/- 0.026, H = 7.786 +/- 0.038, K = 7.722 +/- 0.031	Reference Frame: SIMBAD													

Proposal 16267 - transit (02) - Probing the Atmosphere of a Temperate Transiting Jovian Planet with an Orbital Period of 1.5 Years

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	F126N	NSAMP=4; SAMP-SEQ=SPAR S5	GSPAIR N84300030 0F2N843000402F3	Sequence 1-14 Non-Int in transit (02)	7.32736 Secs (7.327 Secs) [==>]	[1]
	2	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 1-14 Non-Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[1]
	3	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 1-14 Non-Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[1]
	4	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 1-14 Non-Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[1]
	5	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 1-14 Non-Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[1]
	6	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 1-14 Non-Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[1]
	7	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 1-14 Non-Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[1]
	8	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 1-14 Non-Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[1]
	9	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 1-14 Non-Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[1]
	10	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 1-14 Non-Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[1]
	11	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 1-14 Non-Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[1]
	12	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 1-14 Non-Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[1]
	13	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 1-14 Non-Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[1]

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14	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 1-14 Non-Int in transit (02)	51.703224 Secs (103.406 Secs)	[1]
							[==>(Forward)] [==>(Reverse)]	
15	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=7; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 15-28 Non-Int in transit (02)	44.356737 Secs (88.713 Secs)	[2]
							[==>(Forward)] [==>(Reverse)]	
16	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 15-28 Non-Int in transit (02)	51.703224 Secs (103.406 Secs)	[2]
							[==>(Forward)] [==>(Reverse)]	
17	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 15-28 Non-Int in transit (02)	51.703224 Secs (103.406 Secs)	[2]
							[==>(Forward)] [==>(Reverse)]	
18	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 15-28 Non-Int in transit (02)	51.703224 Secs (103.406 Secs)	[2]
							[==>(Forward)] [==>(Reverse)]	
19	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 15-28 Non-Int in transit (02)	51.703224 Secs (103.406 Secs)	[2]
							[==>(Forward)] [==>(Reverse)]	
20	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 15-28 Non-Int in transit (02)	51.703224 Secs (103.406 Secs)	[2]
							[==>(Forward)] [==>(Reverse)]	
21	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 15-28 Non-Int in transit (02)	51.703224 Secs (103.406 Secs)	[2]
							[==>(Forward)] [==>(Reverse)]	
22	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 15-28 Non-Int in transit (02)	51.703224 Secs (103.406 Secs)	[2]
							[==>(Forward)] [==>(Reverse)]	
23	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 15-28 Non-Int in transit (02)	51.703224 Secs (103.406 Secs)	[2]
							[==>(Forward)] [==>(Reverse)]	
24	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 15-28 Non-Int in transit (02)	51.703224 Secs (103.406 Secs)	[2]
							[==>(Forward)] [==>(Reverse)]	
25	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 15-28 Non-Int in transit (02)	51.703224 Secs (103.406 Secs)	[2]
							[==>(Forward)] [==>(Reverse)]	
26	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 15-28 Non-Int in transit (02)	51.703224 Secs (103.406 Secs)	[2]
							[==>(Forward)] [==>(Reverse)]	

Proposal 16267 - transit (02) - Probing the Atmosphere of a Temperate Transiting Jovian Planet with an Orbital Period of 1.5 Years

27	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 15-28 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[2]
28	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 15-28 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[2]
29	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=7; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (02)	44.356737 Secs (88.713 Secs) [==>(Forward)] [==>(Reverse)]	[3]
30	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[3]
31	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[3]
32	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[3]
33	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[3]
34	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[3]
35	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[3]
36	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[3]
37	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[3]
38	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[3]
39	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[3]

Proposal 16267 - transit (02) - Probing the Atmosphere of a Temperate Transiting Jovian Planet with an Orbital Period of 1.5 Years

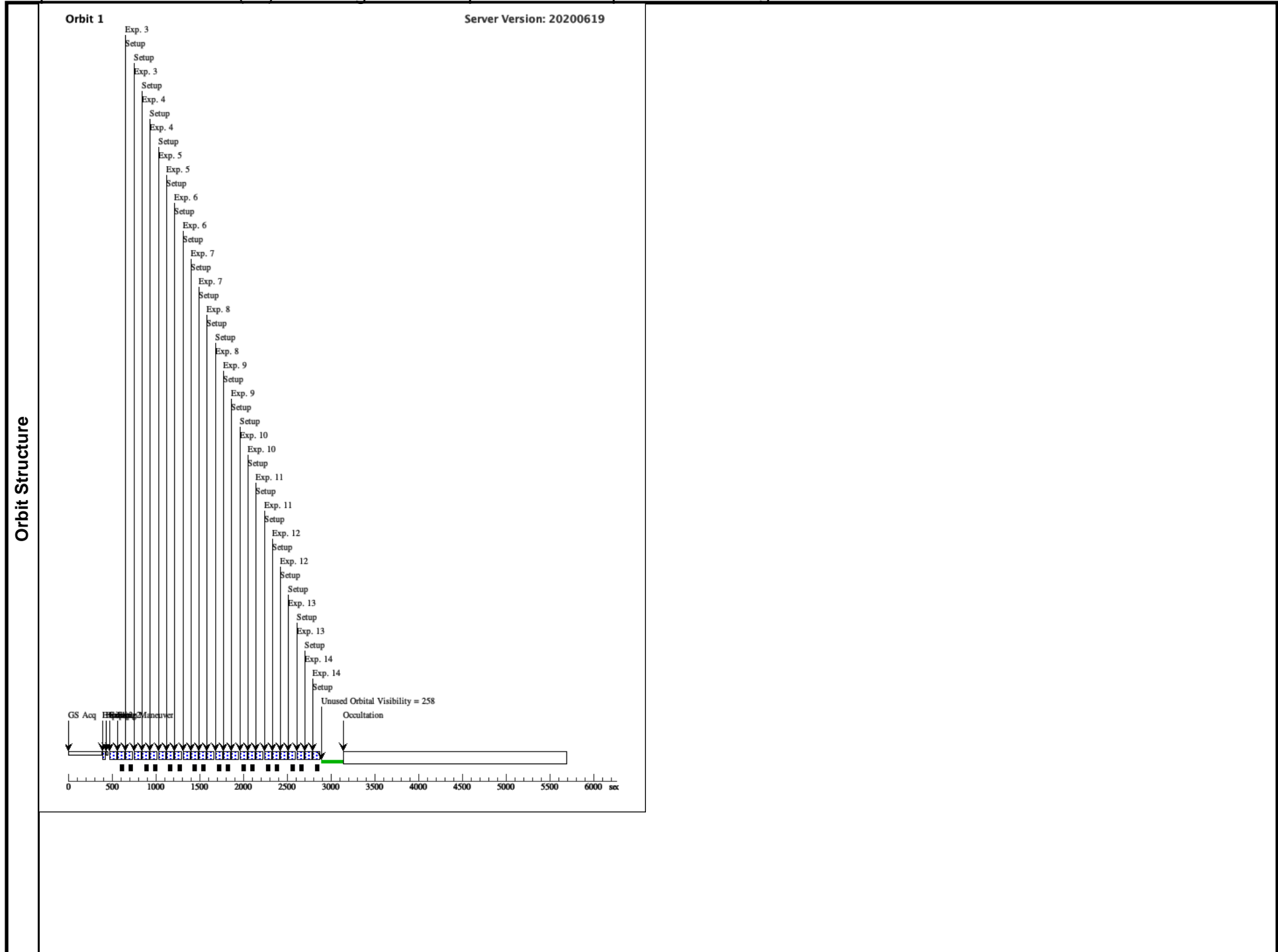
40	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[3]
41	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[3]
42	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-42 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[3]
43	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=7; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (02)	44.356737 Secs (88.713 Secs) [==>(Forward)] [==>(Reverse)]	[4]
44	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
45	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
46	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
47	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
48	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
49	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
50	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
51	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
52	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]

Proposal 16267 - transit (02) - Probing the Atmosphere of a Temperate Transiting Jovian Planet with an Orbital Period of 1.5 Years

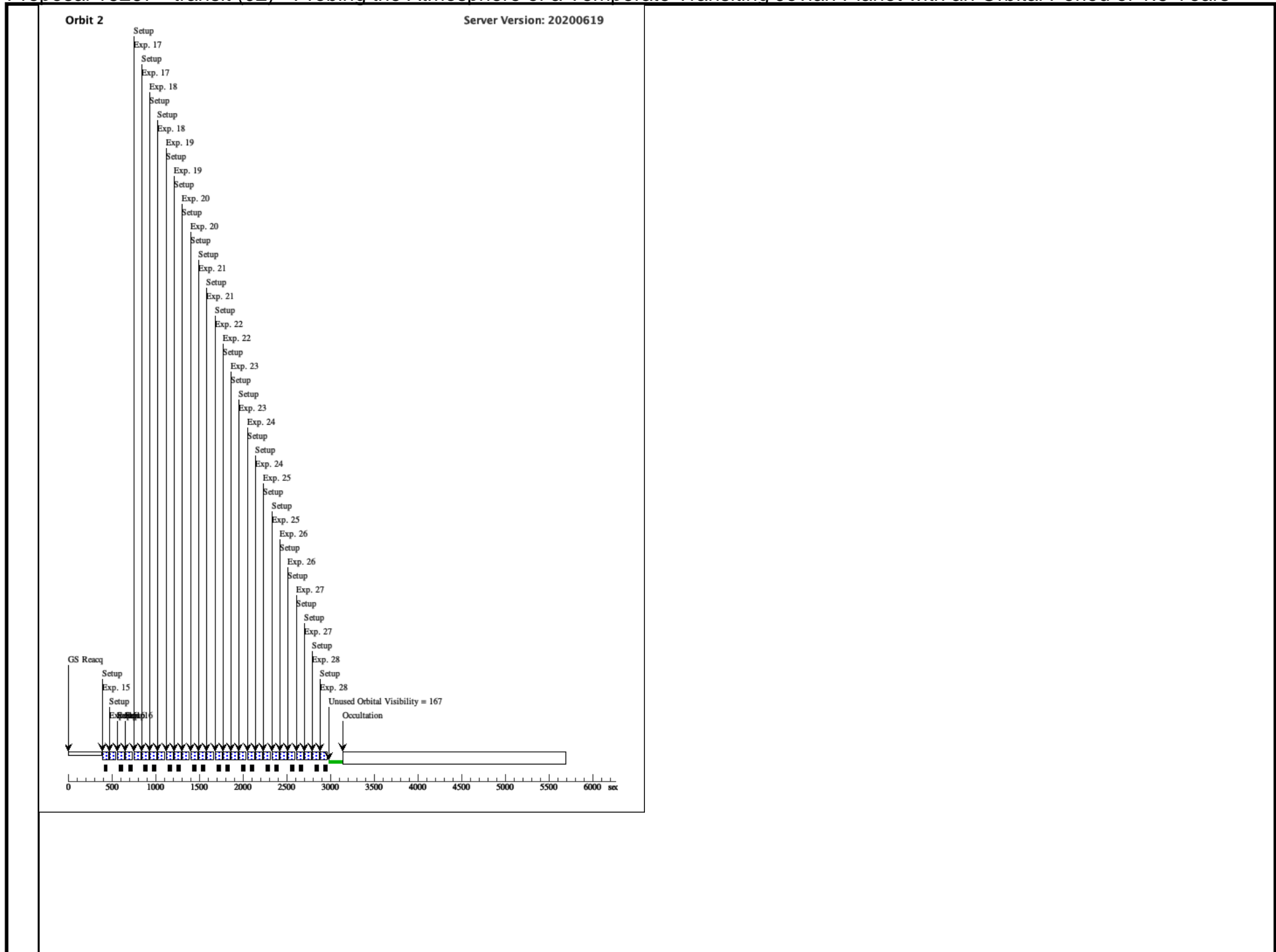
53	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
54	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
55	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
56	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 43-56 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
57	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 57-65 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]
58	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 57-65 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]
59	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 57-65 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]
60	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 57-65 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]
61	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 57-65 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]
62	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 57-65 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]
63	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 57-65 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]
64	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 57-65 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]
65	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 57-65 Non -Int in transit (02)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]

Proposal 16267 - transit (02) - Probing the Atmosphere of a Temperate Transiting Jovian Planet with an Orbital Period of 1.5 Years

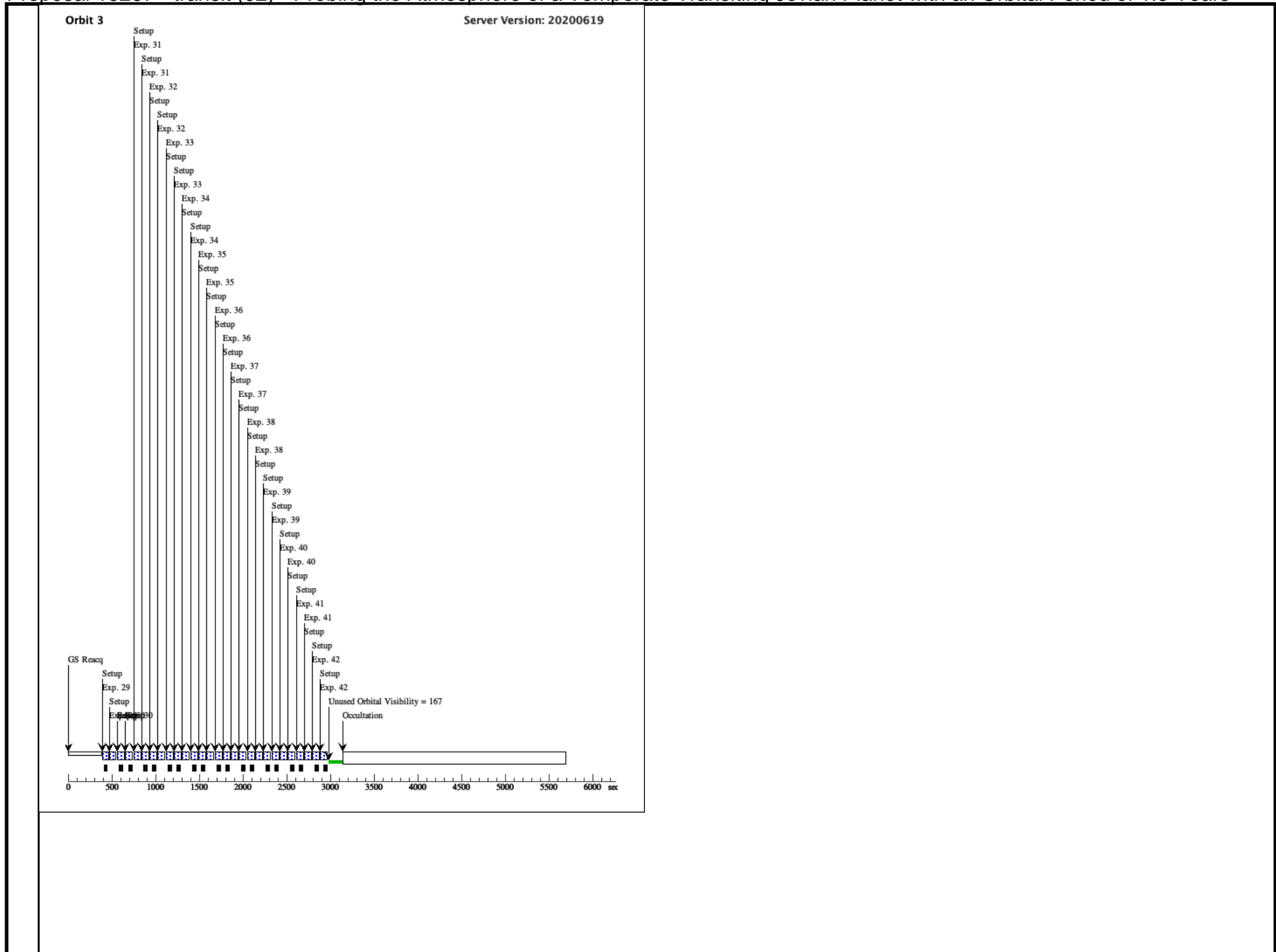
66	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 66-66 Non -Int in transit (02)	51.703224 Secs (103.406 Secs)	[==>(Forward)] [==>(Reverse)]	[6]
67	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 67-70 Non -Int in transit (02)	51.703224 Secs (103.406 Secs)	[==>(Forward)] [==>(Reverse)]	[6]
68	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 67-70 Non -Int in transit (02)	51.703224 Secs (103.406 Secs)	[==>(Forward)] [==>(Reverse)]	[6]
69	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 67-70 Non -Int in transit (02)	51.703224 Secs (103.406 Secs)	[==>(Forward)] [==>(Reverse)]	[6]
70	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Forward	Sequence 67-70 Non -Int in transit (02)	51.703224 Secs (51.703 Secs)	[==>]	[6]



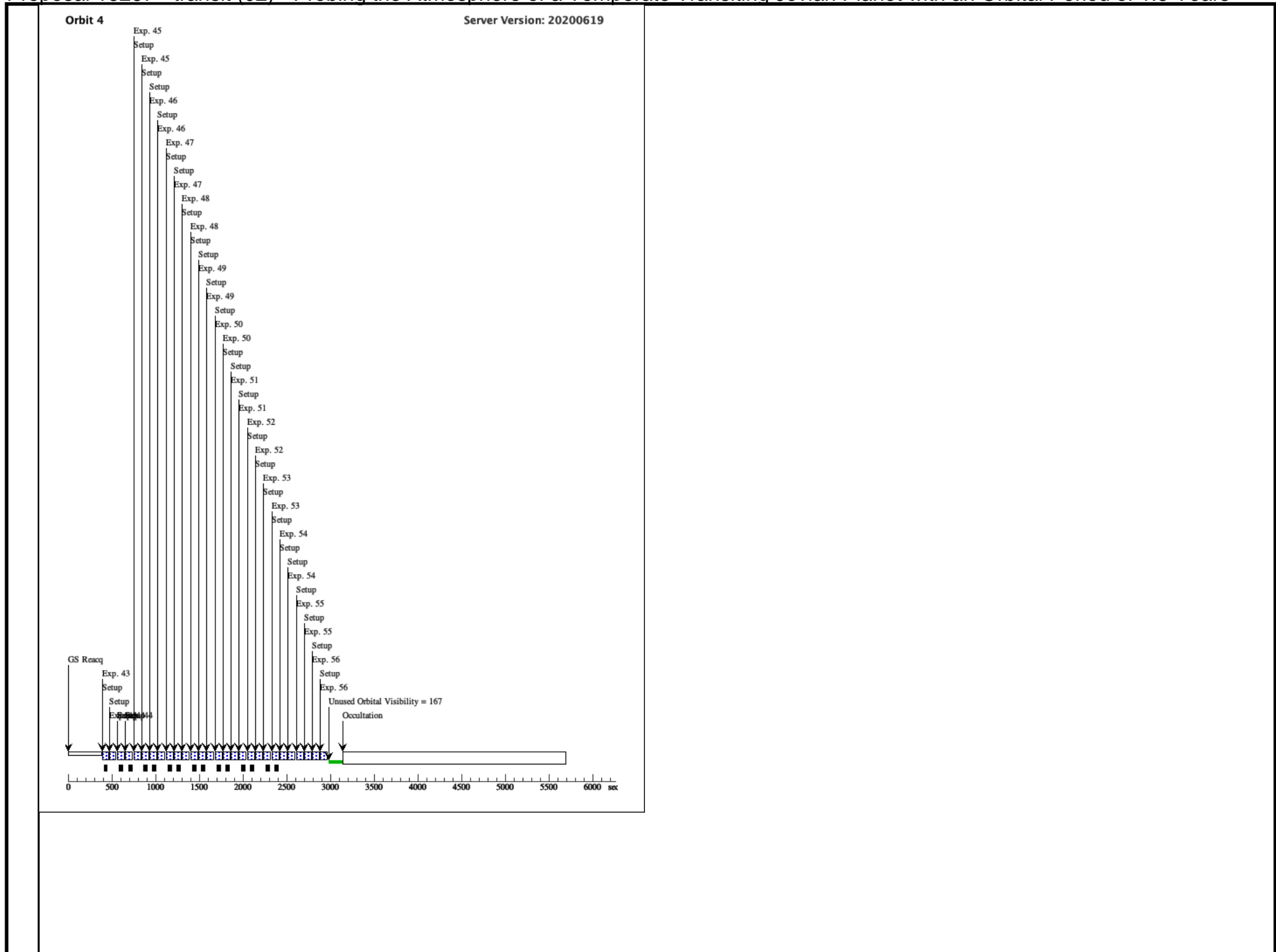
Proposal 16267 - transit (02) - Probing the Atmosphere of a Temperate Transiting Jovian Planet with an Orbital Period of 1.5 Years



Proposal 16267 - transit (02) - Probing the Atmosphere of a Temperate Transiting Jovian Planet with an Orbital Period of 1.5 Years

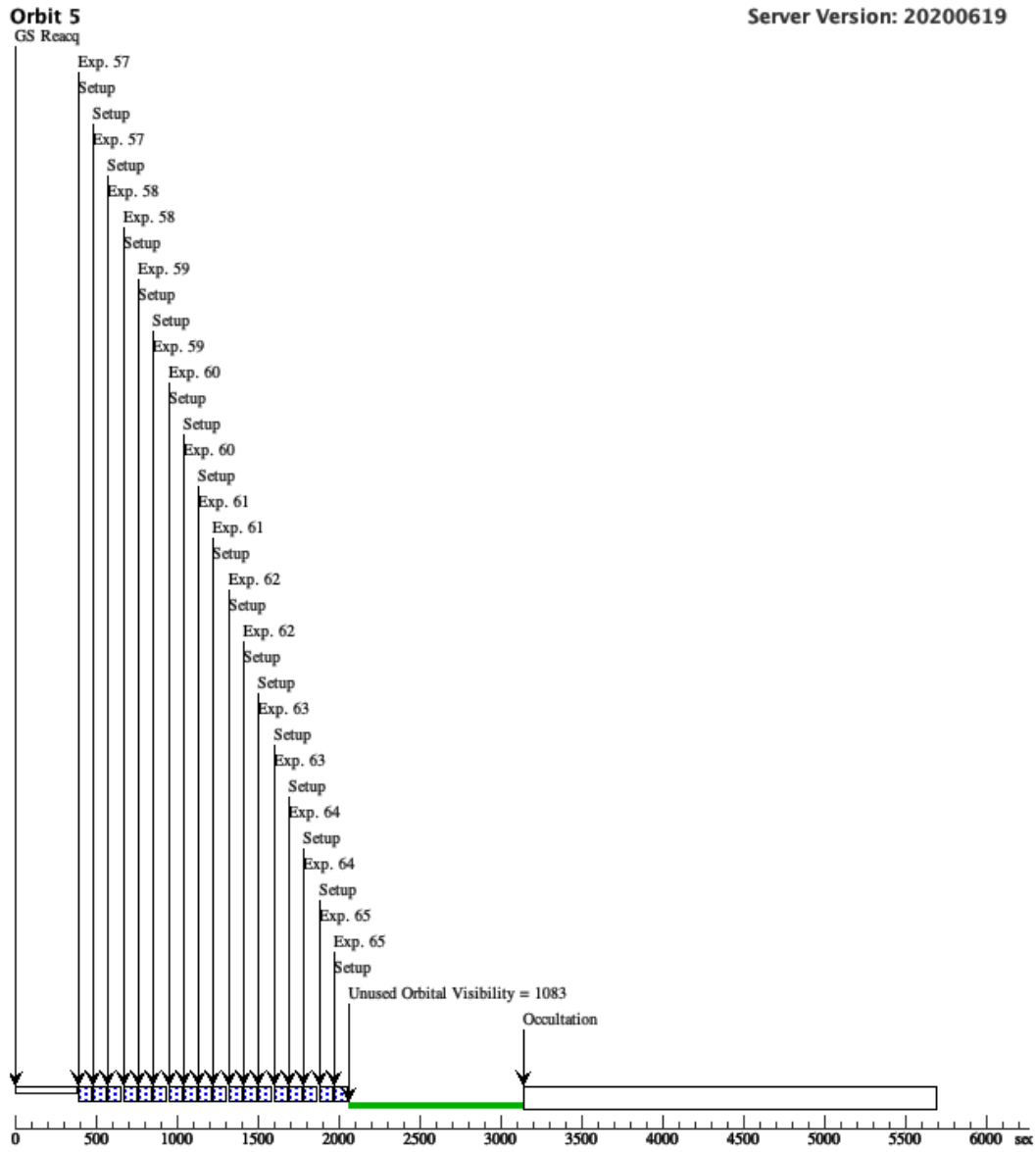


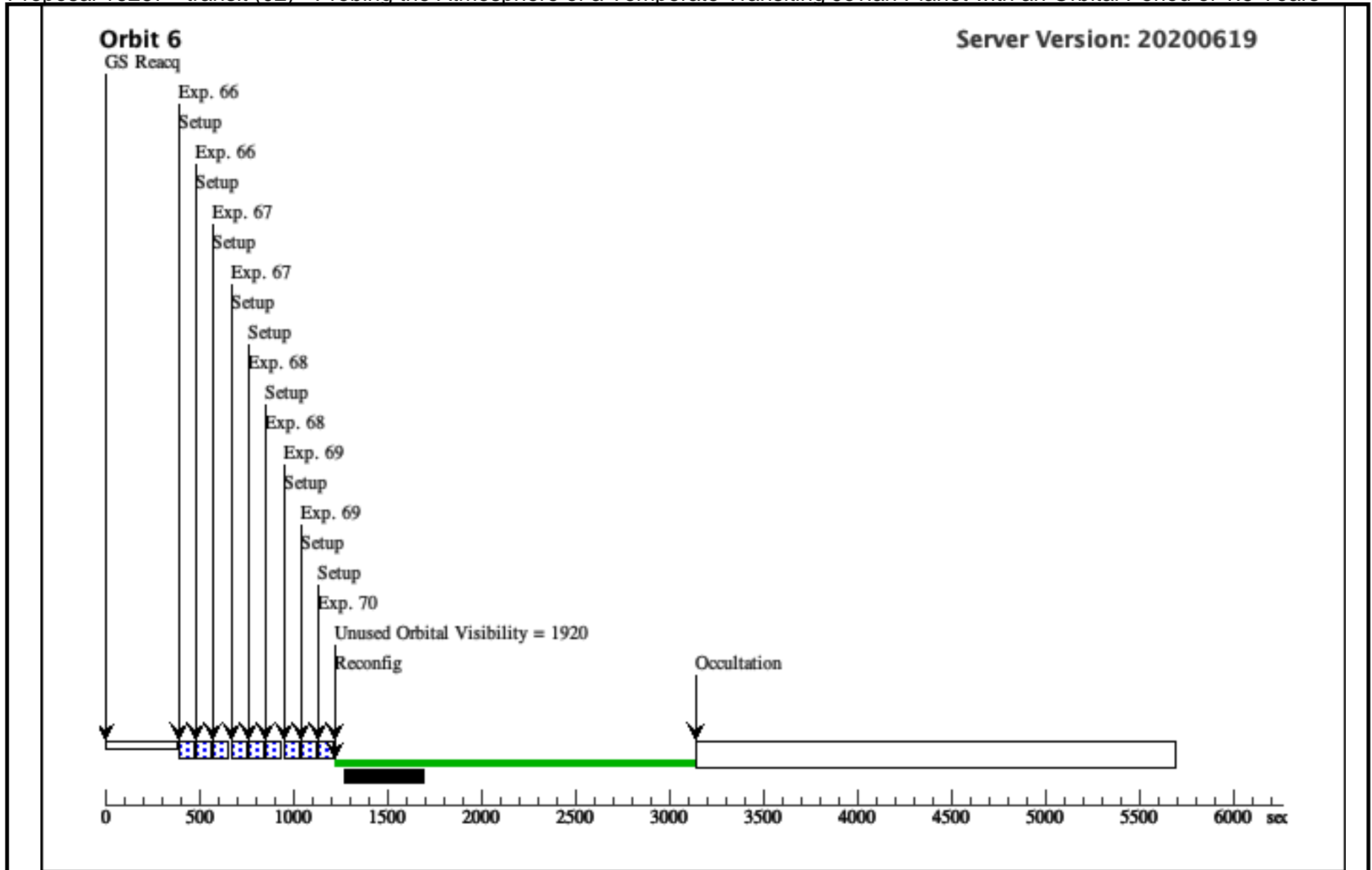
Proposal 16267 - transit (02) - Probing the Atmosphere of a Temperate Transiting Jovian Planet with an Orbital Period of 1.5 Years



Proposal 16267 - transit (02) - Probing the Atmosphere of a Temperate Transiting Jovian Planet with an Orbital Period of 1.5 Years

Server Version: 20200619





Proposal 16267 - transit (03) - Probing the Atmosphere of a Temperate Transiting Jovian Planet with an Orbital Period of 1.5 Years

Visit	Proposal 16267, transit (03), scheduling Mon May 10 20:02:50 GMT 2021 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: PCS MODE FINE; ORIENT 285D TO 302 D; ORIENT 86D TO 151 D; BETWEEN 20-MAY-2021:17:06:00 AND 20-MAY-2021:19:06:00 Comments: <i>Third of three consecutive visits covering pre-transit baseline, the transit, and post-transit baseline.</i>																	
	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>HIP41378</td> <td> RA: 08 26 27.8490 (126.6160375d) Dec: +10 04 49.33 (10.08037d) Equinox: J2000 </td> <td> Proper Motion RA: -48.143 mas/yr Proper Motion Dec: 0.059 mas/yr Parallax: 0.0093799" Epoch of Position: 2018 Radial Velocity: 50.42 km/sec </td> <td> V=8.92+/-0.02 B = 9.42 +/- 0.02, G = 8.81 +/- 0.0004, J = 7.982 +/- 0.026, H = 7.786 +/- 0.038, K = 7.722 +/- 0.031 </td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	HIP41378	RA: 08 26 27.8490 (126.6160375d) Dec: +10 04 49.33 (10.08037d) Equinox: J2000	Proper Motion RA: -48.143 mas/yr Proper Motion Dec: 0.059 mas/yr Parallax: 0.0093799" Epoch of Position: 2018 Radial Velocity: 50.42 km/sec	V=8.92+/-0.02 B = 9.42 +/- 0.02, G = 8.81 +/- 0.0004, J = 7.982 +/- 0.026, H = 7.786 +/- 0.038, K = 7.722 +/- 0.031	Reference Frame: SIMBAD	Comments: <i>ICRS coordinates, proper motions, parallax, and radial velocity are from Gaia DR2 and were retrieved from SIMBAD.</i> Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM]			
#		Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(1)	HIP41378	RA: 08 26 27.8490 (126.6160375d) Dec: +10 04 49.33 (10.08037d) Equinox: J2000	Proper Motion RA: -48.143 mas/yr Proper Motion Dec: 0.059 mas/yr Parallax: 0.0093799" Epoch of Position: 2018 Radial Velocity: 50.42 km/sec	V=8.92+/-0.02 B = 9.42 +/- 0.02, G = 8.81 +/- 0.0004, J = 7.982 +/- 0.026, H = 7.786 +/- 0.038, K = 7.722 +/- 0.031	Reference Frame: SIMBAD													

Proposal 16267 - transit (03) - Probing the Atmosphere of a Temperate Transiting Jovian Planet with an Orbital Period of 1.5 Years

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	F126N	NSAMP=4; SAMP-SEQ=SPAR S5	GSPAIR N84300030 0F2N843000402F3	Sequence 1-4 Non-Int in transit (03)	7.32736 Secs (7.327 Secs) [==>]	[1]
	2	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=6; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 1-4 Non-Int in transit (03)	37.01025 Secs (74.02 Secs) [==>(Forward)] [==>(Reverse)]	[1]
	3	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 1-4 Non-Int in transit (03)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[1]
	4	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 1-4 Non-Int in transit (03)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[1]
	5	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 5-7 Non-Int in transit (03)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[2]
	6	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 5-7 Non-Int in transit (03)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[2]
	7	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 5-7 Non-Int in transit (03)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[2]
	8	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 8-12 Non-Int in transit (03)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[3]
	9	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 8-12 Non-Int in transit (03)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[3]
	10	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 8-12 Non-Int in transit (03)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[3]
	11	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 8-12 Non-Int in transit (03)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[3]
	12	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 8-12 Non-Int in transit (03)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[3]
	13	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 13-19 Non-Int in transit (03)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]

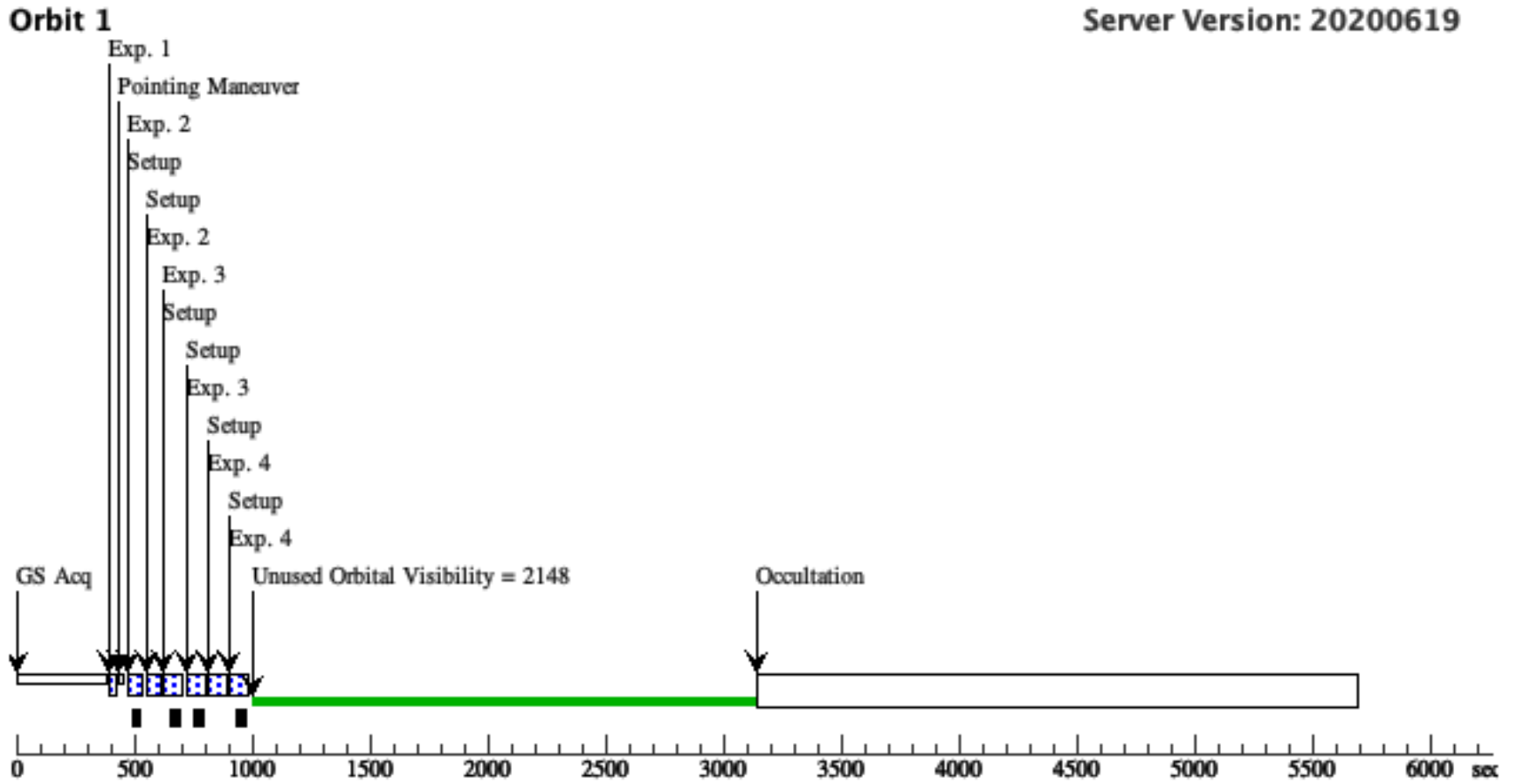
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14	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 13-19 Non -Int in transit (03)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
15	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 13-19 Non -Int in transit (03)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
16	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 13-19 Non -Int in transit (03)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
17	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 13-19 Non -Int in transit (03)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
18	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 13-19 Non -Int in transit (03)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
19	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 13-19 Non -Int in transit (03)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[4]
20	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=7; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 20-28 Non -Int in transit (03)	44.356737 Secs (88.713 Secs) [==>(Forward)] [==>(Reverse)]	[5]
21	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 20-28 Non -Int in transit (03)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]
22	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 20-28 Non -Int in transit (03)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]
23	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 20-28 Non -Int in transit (03)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]
24	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 20-28 Non -Int in transit (03)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]
25	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 20-28 Non -Int in transit (03)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]
26	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 20-28 Non -Int in transit (03)	51.703224 Secs (103.406 Secs) [==>(Forward)] [==>(Reverse)]	[5]

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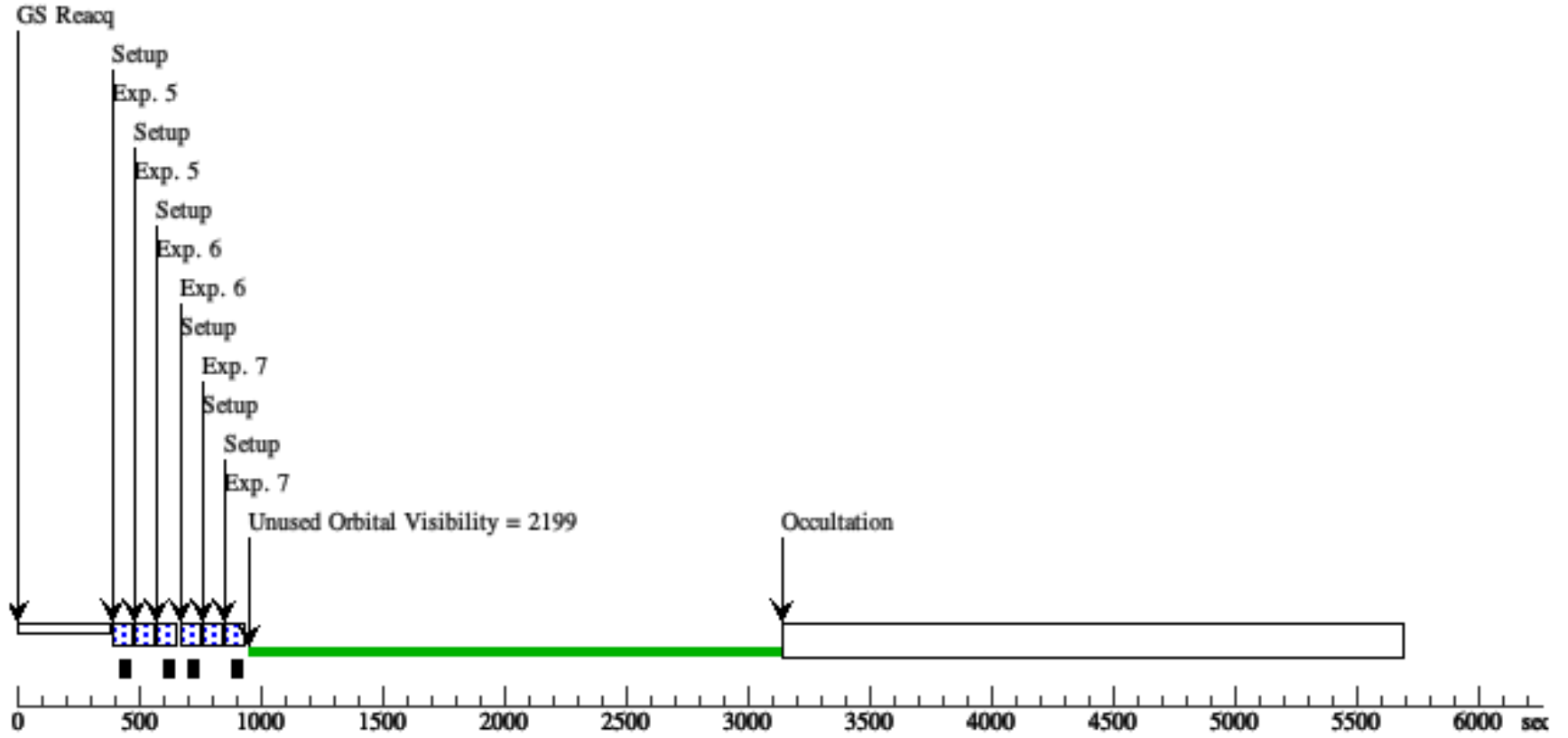
27	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 20-28 Non -Int in transit (03)	51.703224 Secs (103.406 Secs)	[==>(Forward)] [==>(Reverse)]	[5]
28	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 20-28 Non -Int in transit (03)	51.703224 Secs (103.406 Secs)	[==>(Forward)] [==>(Reverse)]	[5]
29	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-39 Non -Int in transit (03)	51.703224 Secs (103.406 Secs)	[==>(Forward)] [==>(Reverse)]	[6]
30	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-39 Non -Int in transit (03)	51.703224 Secs (103.406 Secs)	[==>(Forward)] [==>(Reverse)]	[6]
31	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-39 Non -Int in transit (03)	51.703224 Secs (103.406 Secs)	[==>(Forward)] [==>(Reverse)]	[6]
32	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-39 Non -Int in transit (03)	51.703224 Secs (103.406 Secs)	[==>(Forward)] [==>(Reverse)]	[6]
33	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-39 Non -Int in transit (03)	51.703224 Secs (103.406 Secs)	[==>(Forward)] [==>(Reverse)]	[6]
34	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-39 Non -Int in transit (03)	51.703224 Secs (103.406 Secs)	[==>(Forward)] [==>(Reverse)]	[6]
35	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-39 Non -Int in transit (03)	51.703224 Secs (103.406 Secs)	[==>(Forward)] [==>(Reverse)]	[6]
36	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-39 Non -Int in transit (03)	51.703224 Secs (103.406 Secs)	[==>(Forward)] [==>(Reverse)]	[6]
37	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-39 Non -Int in transit (03)	51.703224 Secs (103.406 Secs)	[==>(Forward)] [==>(Reverse)]	[6]
38	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-39 Non -Int in transit (03)	51.703224 Secs (103.406 Secs)	[==>(Forward)] [==>(Reverse)]	[6]
39	(1) HIP41378	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=8; SAMP-SEQ=SPAR S10	POS TARG 0,-15; SPATIAL SCAN 0.4 18629,90.0 Degrees, Round trip	Sequence 29-39 Non -Int in transit (03)	51.703224 Secs (103.406 Secs)	[==>(Forward)] [==>(Reverse)]	[6]

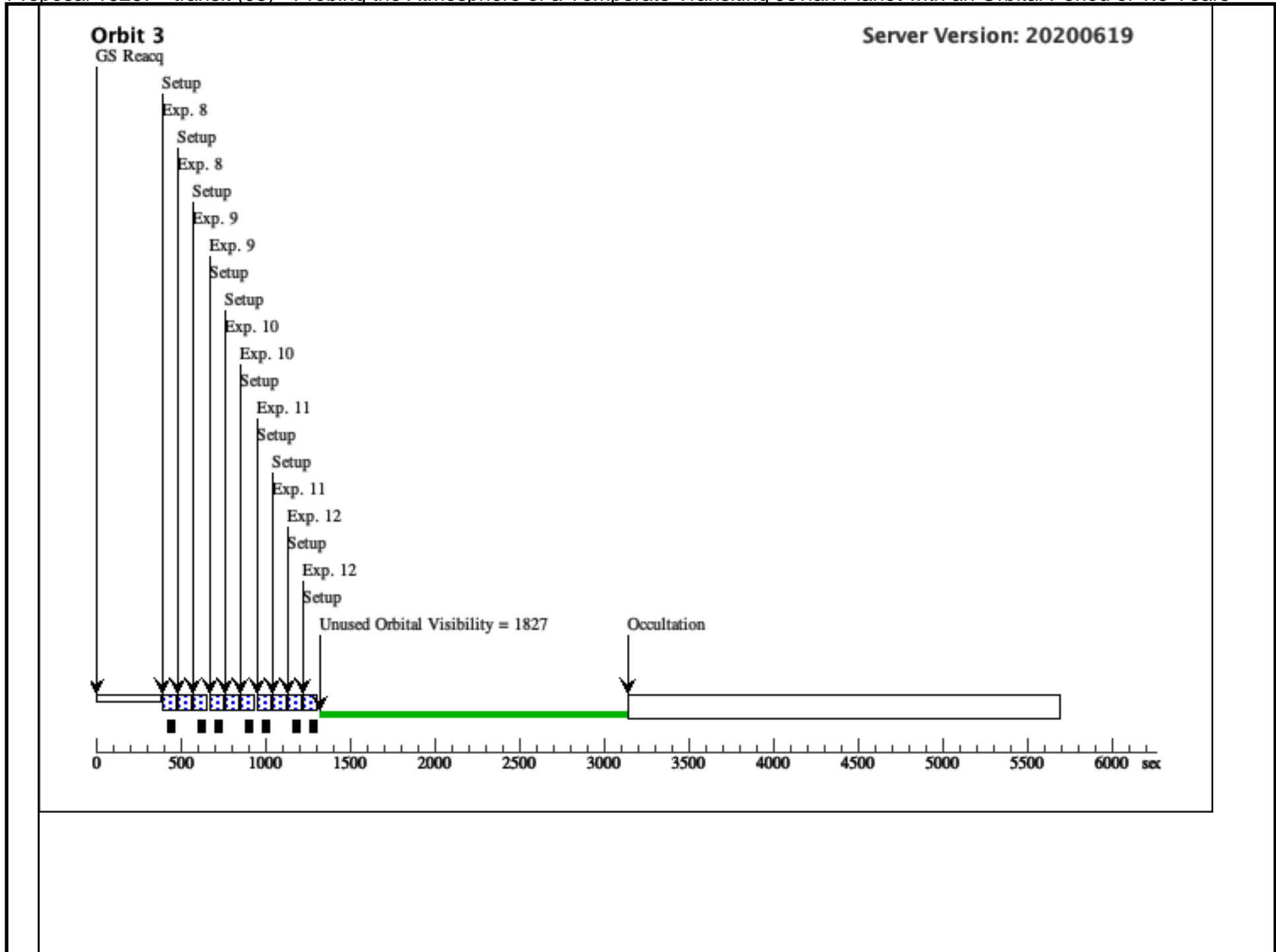
Orbit Structure

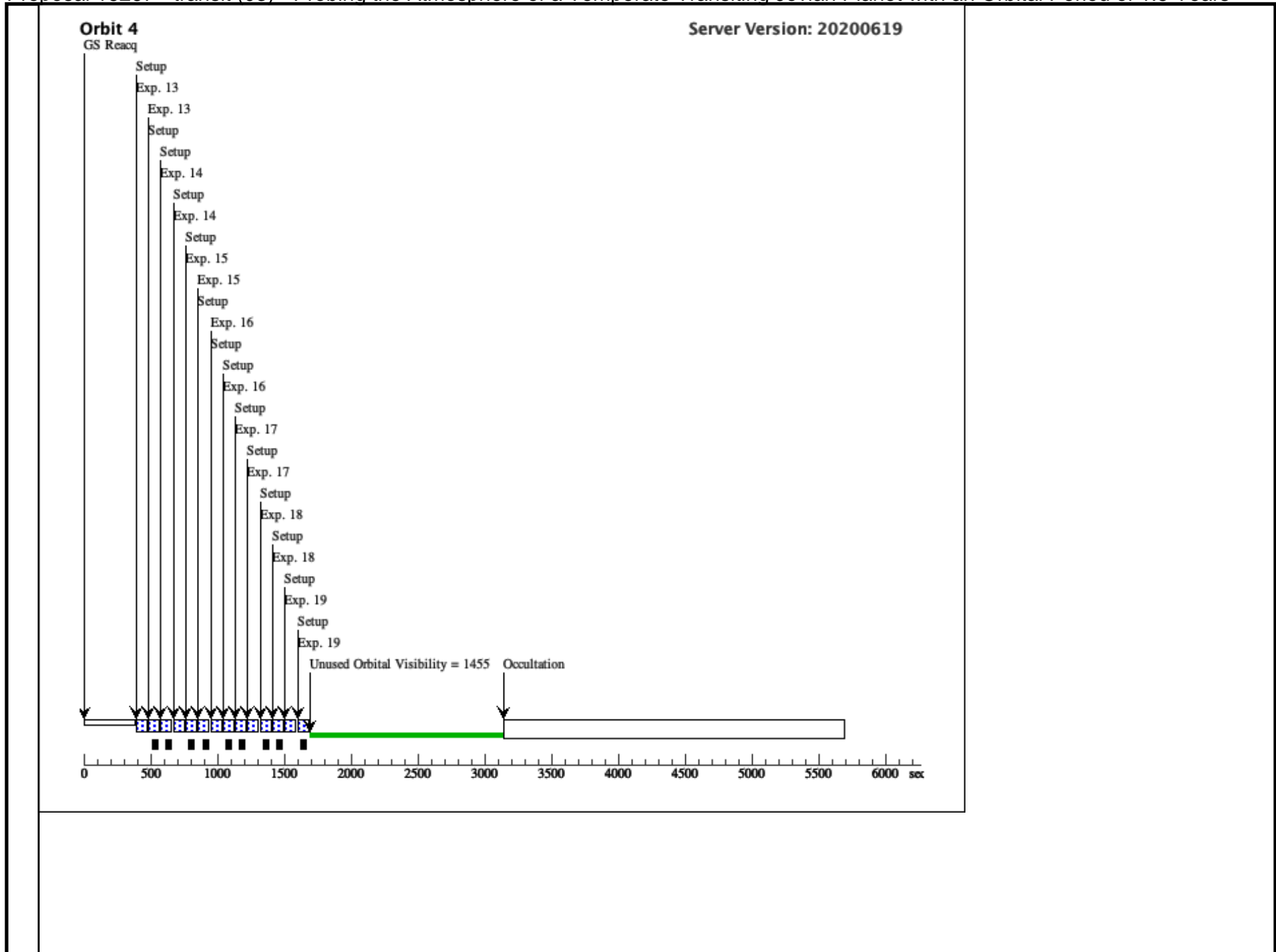


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Orbit 2

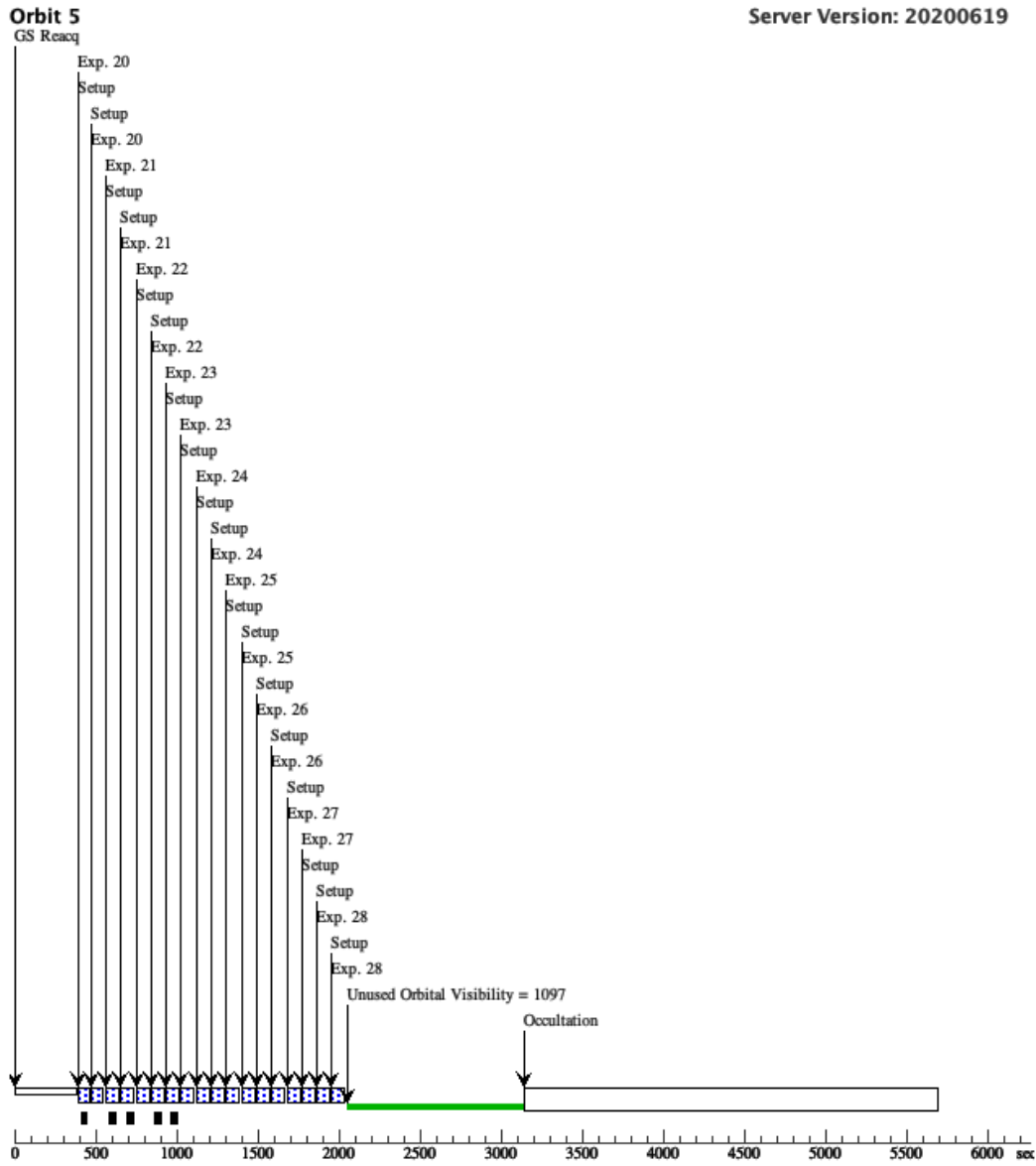






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