



13665 - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Cycle: 22, Proposal Category: GO

(Availability Mode: AVAILABLE)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(5) KEPLER-138	WFC3/IR	5	09-Apr-2016 21:01:10.0	yes
02	(5) KEPLER-138	WFC3/IR	4	09-Apr-2016 21:01:40.0	yes
03	(5) KEPLER-138	WFC3/IR	5	09-Apr-2016 21:02:17.0	yes
04	(5) KEPLER-138	WFC3/IR	5	09-Apr-2016 21:02:53.0	yes
05	(5) KEPLER-138	WFC3/IR	5	09-Apr-2016 21:03:30.0	yes

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
06	(5) KEPLER-138	WFC3/IR	5	09-Apr-2016 21:04:09.0	yes
07	(1) HD-97658 CCDFLAT WAVE	STIS/CCD	5	09-Apr-2016 21:04:39.0	yes
08	(1) HD-97658 CCDFLAT WAVE	STIS/CCD	5	09-Apr-2016 21:05:14.0	yes
09	(1) HD-97658 CCDFLAT WAVE	STIS/CCD	5	09-Apr-2016 21:05:48.0	yes
10	(1) HD-97658 CCDFLAT WAVE	STIS/CCD	5	09-Apr-2016 21:06:23.0	yes
11	(1) HD-97658	WFC3/IR	5	09-Apr-2016 21:07:44.0	yes
12	(1) HD-97658	WFC3/IR	5	09-Apr-2016 21:09:10.0	yes
13	(4) 55-CANCRI CCDFLAT WAVE	STIS/CCD	4	09-Apr-2016 21:09:34.0	yes
14	(4) 55-CANCRI CCDFLAT WAVE	STIS/CCD	4	09-Apr-2016 21:10:00.0	yes
15	(4) 55-CANCRI CCDFLAT WAVE	STIS/CCD	4	09-Apr-2016 21:10:26.0	yes
17	(4) 55-CANCRI	WFC3/IR	4	09-Apr-2016 21:10:58.0	yes
18	(4) 55-CANCRI	WFC3/IR	4	09-Apr-2016 21:11:32.0	yes
19	(4) 55-CANCRI	WFC3/IR	4	09-Apr-2016 21:12:04.0	yes
20	(4) 55-CANCRI	WFC3/IR	4	09-Apr-2016 21:12:35.0	yes

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
21	(2) GJ-3470 CCDFLAT WAVE	STIS/CCD	4	09-Apr-2016 21:12:46.0	yes
22	(2) GJ-3470 CCDFLAT WAVE	STIS/CCD	4	09-Apr-2016 21:12:51.0	yes
23	(2) GJ-3470 CCDFLAT WAVE	STIS/CCD	4	09-Apr-2016 21:12:55.0	yes
24	(2) GJ-3470	WFC3/IR	4	09-Apr-2016 21:13:18.0	yes
25	(2) GJ-3470	WFC3/IR	4	09-Apr-2016 21:13:44.0	yes
26	(2) GJ-3470	WFC3/IR	4	09-Apr-2016 21:14:11.0	yes
27	(3) GJ-436 CCDFLAT WAVE	STIS/CCD	4	09-Apr-2016 21:14:20.0	yes
28	(3) GJ-436 CCDFLAT WAVE	STIS/CCD	4	09-Apr-2016 21:14:27.0	yes
29	(6) EPIC201912552	WFC3/IR	5	09-Apr-2016 21:15:03.0	yes
30	(6) EPIC201912552	WFC3/IR	5	09-Apr-2016 21:15:40.0	yes
35	(6) EPIC201912552	WFC3/IR	5	09-Apr-2016 21:16:17.0	yes
34	(8) HD-219134 WAVE	STIS/CCD	4	09-Apr-2016 21:16:29.0	yes
36	(8) HD-219134 WAVE	STIS/CCD	4	09-Apr-2016 21:16:43.0	yes
37	(8) HD-219134 WAVE	STIS/CCD	4	09-Apr-2016 21:16:55.0	yes
38	(8) HD-219134 WAVE	STIS/CCD	5	09-Apr-2016 21:17:10.0	yes

151 Total Orbits Used

ABSTRACT

Super-Earths are the single most common type of extrasolar planet, and also one of the least well-understood. We expect these planets could form with a broad range of bulk compositions, including true "super-Earths" with primarily rocky interiors, "water worlds" with a supercritical interior surrounded by a steam atmosphere, and "mini-Neptunes" with a thick hydrogen and helium atmosphere surrounding a rocky or icy core. In this proposal we focus on five planets with masses ranging from that of Neptune down to that of the Earth, and use a combination of visible-light and near-IR transmission spectroscopy to constrain their atmospheric compositions and resolve degeneracies in their corresponding interior compositions. Our observations will probe the poorly understood transition region between gas giant planets and terrestrial worlds and provide the first detailed look at the diversity (or lack thereof) of planets in this mass range. These same data will also enable the first detailed studies of cloud properties in these atmospheres, which can dramatically alter their atmospheric temperatures and corresponding compositions. The proposed studies will pave the way for future observations of this class of planets with JWST.

OBSERVING DESCRIPTION

Our program observes transits of five extrasolar planets using two different observing modes: WFC3 G141 (1-1.7 micron) spectroscopy, and STIS G750L (0.5-1 micron) spectroscopy. Each system is observed in visits of either 4 or 5 contiguous orbits. Note that we observe Kepler-138 only with WFC3 (no STIS) and we observe GJ436 only with STIS (no WFC3).

It is essential for the orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. In order to ensure complete coverage of the transit light curve, each targets' visits have been scheduled with different offsets, corresponding to narrow, independent chunks of the desired visibility window. However, if this strategy poses a significant barrier to scheduling the requirements for individual visits may be relaxed to the full range (in orbital phase) specified for a given target.

For STIS, we disable auto-wavecal, which improves our observing efficiency and repeatability. We opt for only a single GO-wavecal (at the end of each visit) because the GO-wavecal requires a different aperture (52x0.2 instead of the 52x2 used for science observations). To minimize disruption to the observatory, we therefore defer the GO wavecal until the end of each visit. This strategy has been successfully employed in past programs, e.g. GO12473 (PI Sing). We also intentionally oversaturate the STIS CCD with our observations of 55 Cancri and HD97658; this approach lets us achieve higher observing efficiency and has been successfully demonstrated in past programs, e.g. GO13180 (PI Ehrenreich).

For WFC3,

Proposal 13665 - Kepler-138_WFC3_G141_1 (01) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, Kepler-138_WFC3_G141_1 (01), completed Sun Apr 10 01:17:17 GMT 2016 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; ORIENT 330.1D TO 49.4 D; ORIENT 65.6D TO 80 D; ORIENT 97.1D TO 123.3 D; ORIENT 150.1D TO 229.4 D; ORIENT 245.6D TO 260 D; ORIENT 277.1D TO 303.3 D; Period 23.08933 D AND ZERO-PHASE HJD2455558.1404 Comments: First (of six) WFC3/G141 transit visits of Kepler 138 <i>It is essential for the five orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 and 4 in each Kepler-138 visit observe Kepler-138 during the transit of Kepler-138c. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.9915-0.9924 in planet orbital phase, corresponding to a 27 minute interval. In order to also ensure complete coverage of the transit light curve when combining the six visits, the first visit has been scheduled to begin within the first 10 minutes of the phase windows and the second one has been scheduled to begin in the last 10 min of the phase windows. The remaining visits can be arbitrarily placed within the entire phase window. If the first or second visits place a significant barrier to scheduling, the requirements for all visits and may be relaxed to the full 27 minute range (0.9915-0.9924) in orbital phase.</i> <i>We also included orientation restrictions intended to avoid overlapping spectra with nearby stars. Kepler 138 is in a very crowded field of the sky.</i>																					
	<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>KEPLER-138</td><td>RA: 19 21 31.5910 (290.3816292d)</td><td>Proper Motion RA: -12.0 mas/yr</td><td>V=13.4+/-0.1</td><td>Reference Frame: SIMBAD</td></tr> <tr> <td></td><td>Alt Name1: 2MASS-J19213157+4317347</td><td>Dec: +43 17 34.79 (43.29300d) Equinox: J2000</td><td>Proper Motion Dec: 28.0 mas/yr Epoch of Position: 2000</td><td>R=12.7, I=12.0, J=10.3, H=9.7</td><td></td></tr> </tbody> </table> Comments: Additional data were added to this entry by hand. Fluxes were converted from SDSS magnitudes in the Kepler Input Catalog. This object was generated by the targetselector and retrieved from the SIMBAD database.					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(5)	KEPLER-138	RA: 19 21 31.5910 (290.3816292d)	Proper Motion RA: -12.0 mas/yr	V=13.4+/-0.1	Reference Frame: SIMBAD		Alt Name1: 2MASS-J19213157+4317347	Dec: +43 17 34.79 (43.29300d) Equinox: J2000	Proper Motion Dec: 28.0 mas/yr Epoch of Position: 2000	R=12.7, I=12.0, J=10.3, H=9.7
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	Alt Name1: 2MASS-J19213157+4317347	Dec: +43 17 34.79 (43.29300d) Equinox: J2000	Proper Motion Dec: 28.0 mas/yr Epoch of Position: 2000	R=12.7, I=12.0, J=10.3, H=9.7																		

Proposal 13665 - Kepler-138 WFC3 G141 1 (01) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Kepler-138, ACQ, phase constrained	(5) KEPLER-138	WFC3/IR, MULTIACCUM, IRSUB256	F130N	NSAMP=3; SAMP-SEQ=RAPID	PHASE 0.9915 TO 0.9918	Sequence 1-2 Non-Int in Kepler-138_WFC3_G141_1 (01)	0.833445 Secs (0.833 Secs) [==>]	[1]
	2	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees, Round trip	Sequence 1-2 Non-Int in Kepler-138_WFC3_G141_1 (01)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[1]
	3	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees, Round trip	Sequence 3-4 Non-Int in Kepler-138_WFC3_G141_1 (01)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[2]

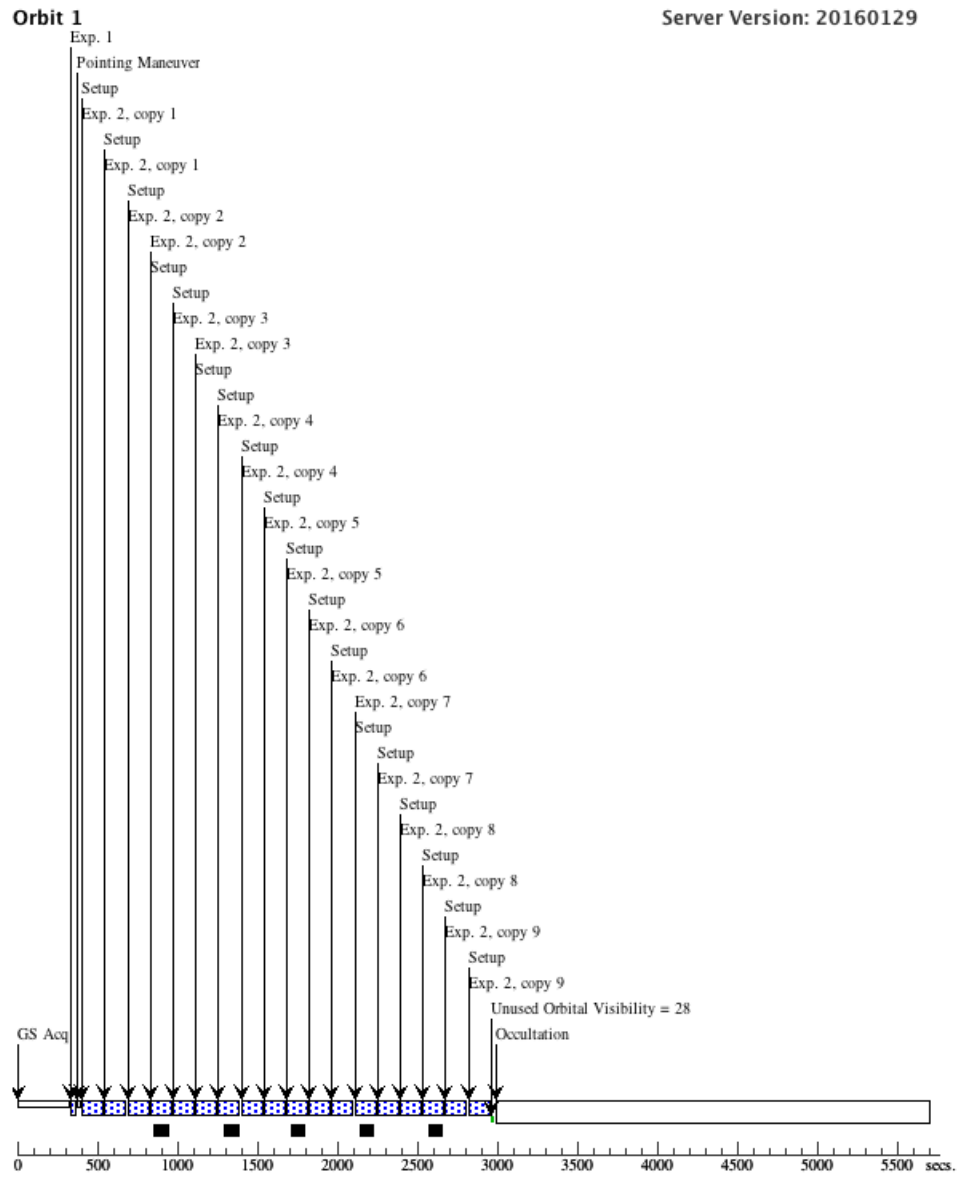
Proposal 13665 - Kepler-138 WFC3 G141 1 (01) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

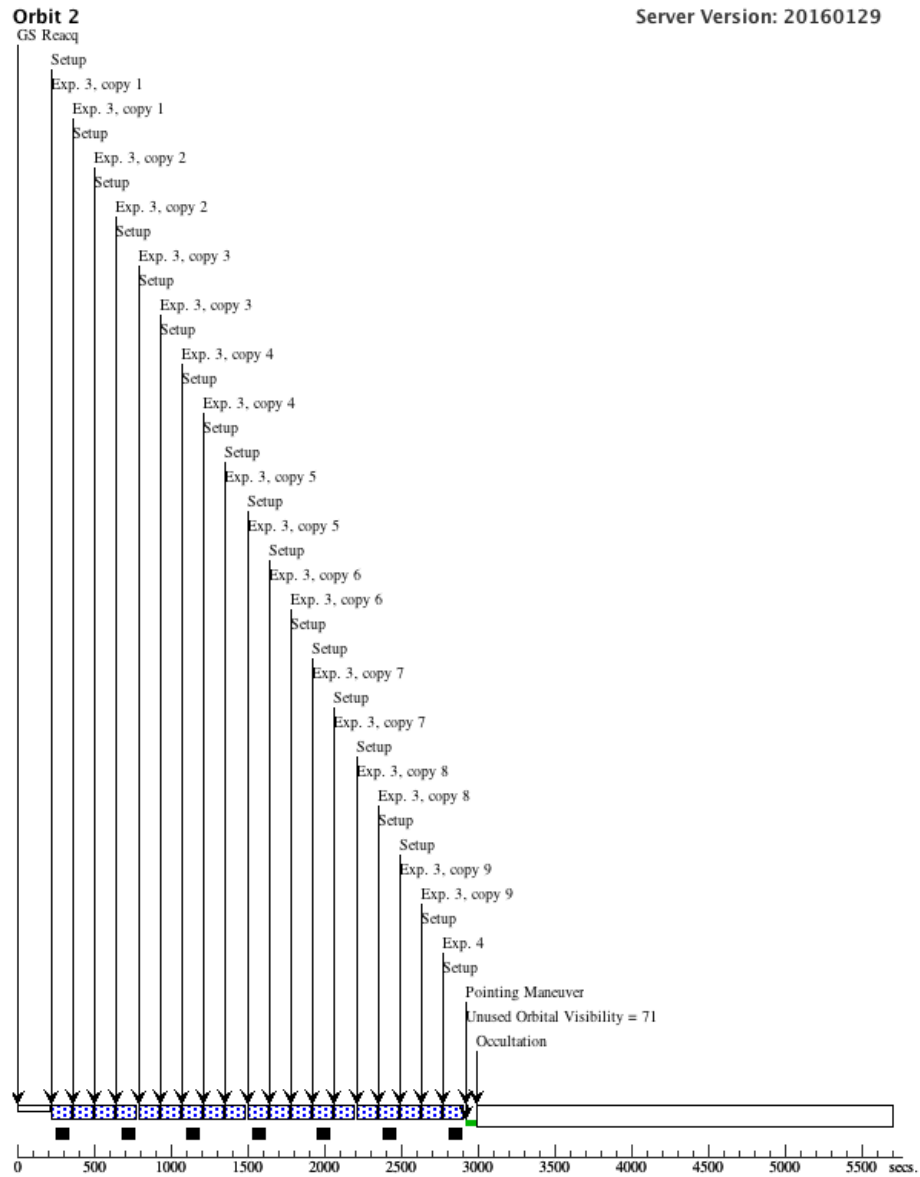
4	G141 Science Data Forward	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees,Forward	Sequence 3-4 Non-Int in Kepler-138_WFC3_G141_1 (01)	103.128633 Secs (103.129 Secs) [==>]	[2]
5	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees,Round trip	Sequence 5-6 Non-Int in Kepler-138_WFC3_G141_1 (01)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[3]
6	G141 Science Data Forward	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees,Forward	Sequence 5-6 Non-Int in Kepler-138_WFC3_G141_1 (01)	103.128633 Secs (103.129 Secs) [==>]	[3]

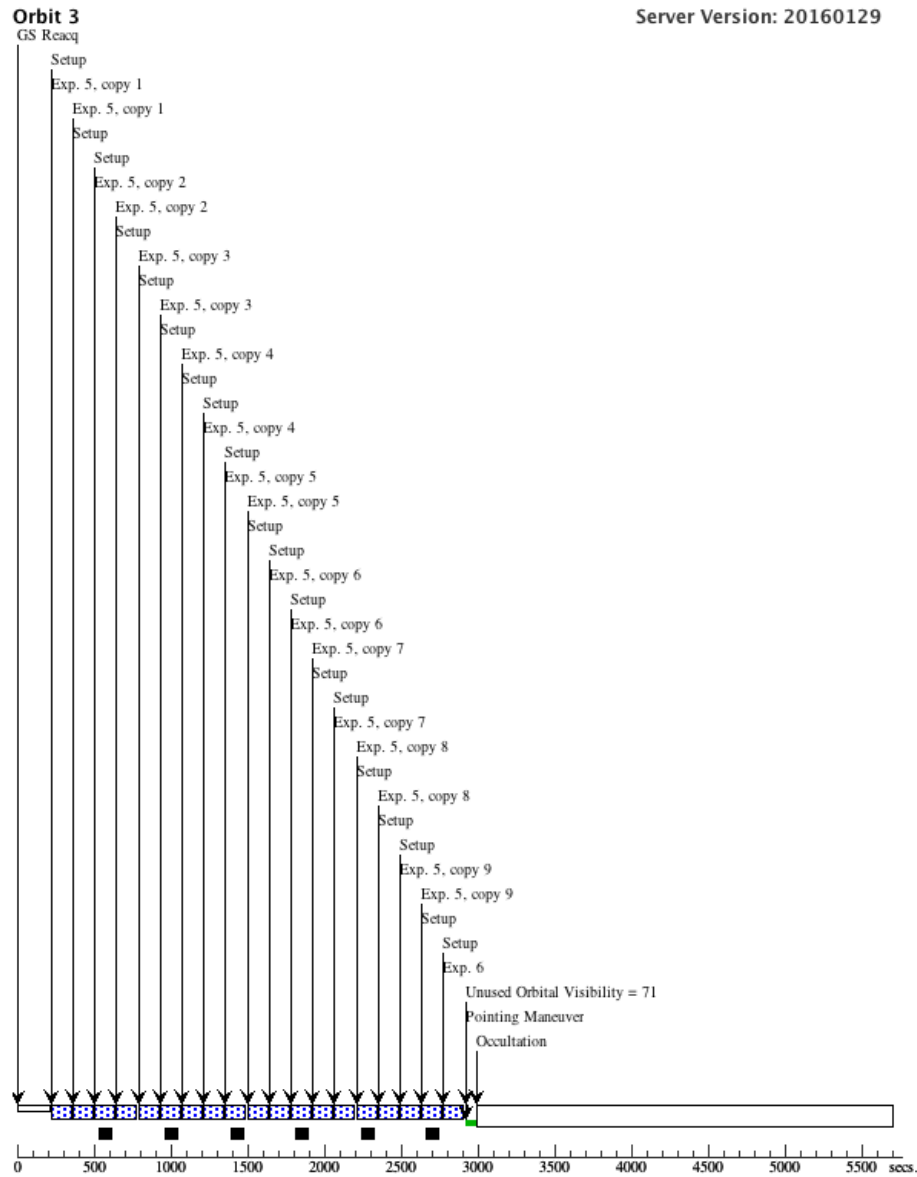
Proposal 13665 - Kepler-138 WFC3 G141 1 (01) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

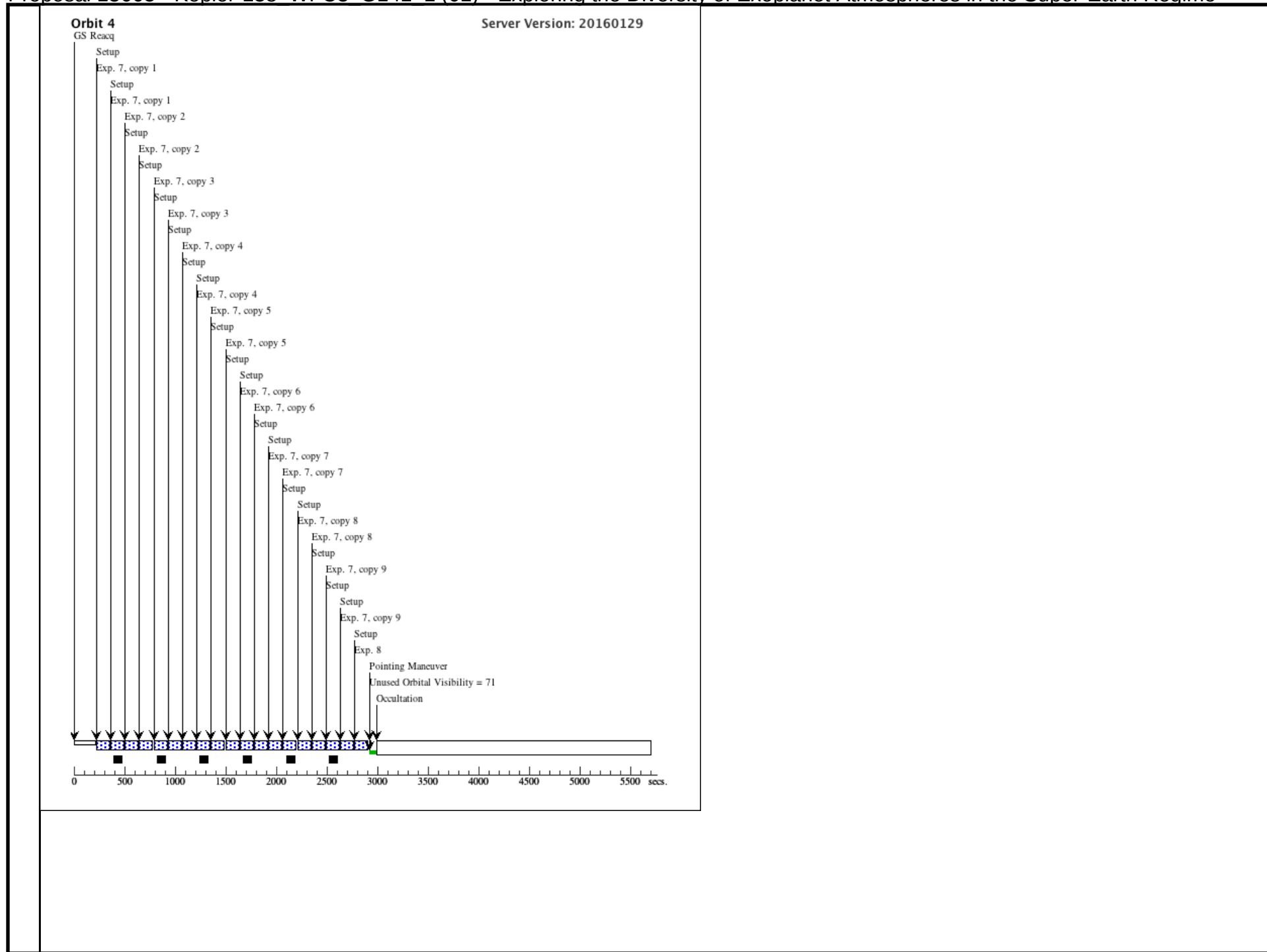
7	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees, Round trip	Sequence 7-8 Non-Int in Kepler-138_WFC3_G141_1 (01)	103.128633 Secs X 9 (1856.315 Secs)	
								[==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[4]
8	G141 Science Data Forward	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees, Forward	Sequence 7-8 Non-Int in Kepler-138_WFC3_G141_1 (01)	103.128633 Secs (103.129 Secs)	
								[==>]	[4]
9	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees, Round trip	Sequence 9-10 Non-Int in Kepler-138_WFC3_G141_1 (01)	103.128633 Secs X 9 (1856.315 Secs)	
								[==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[5]

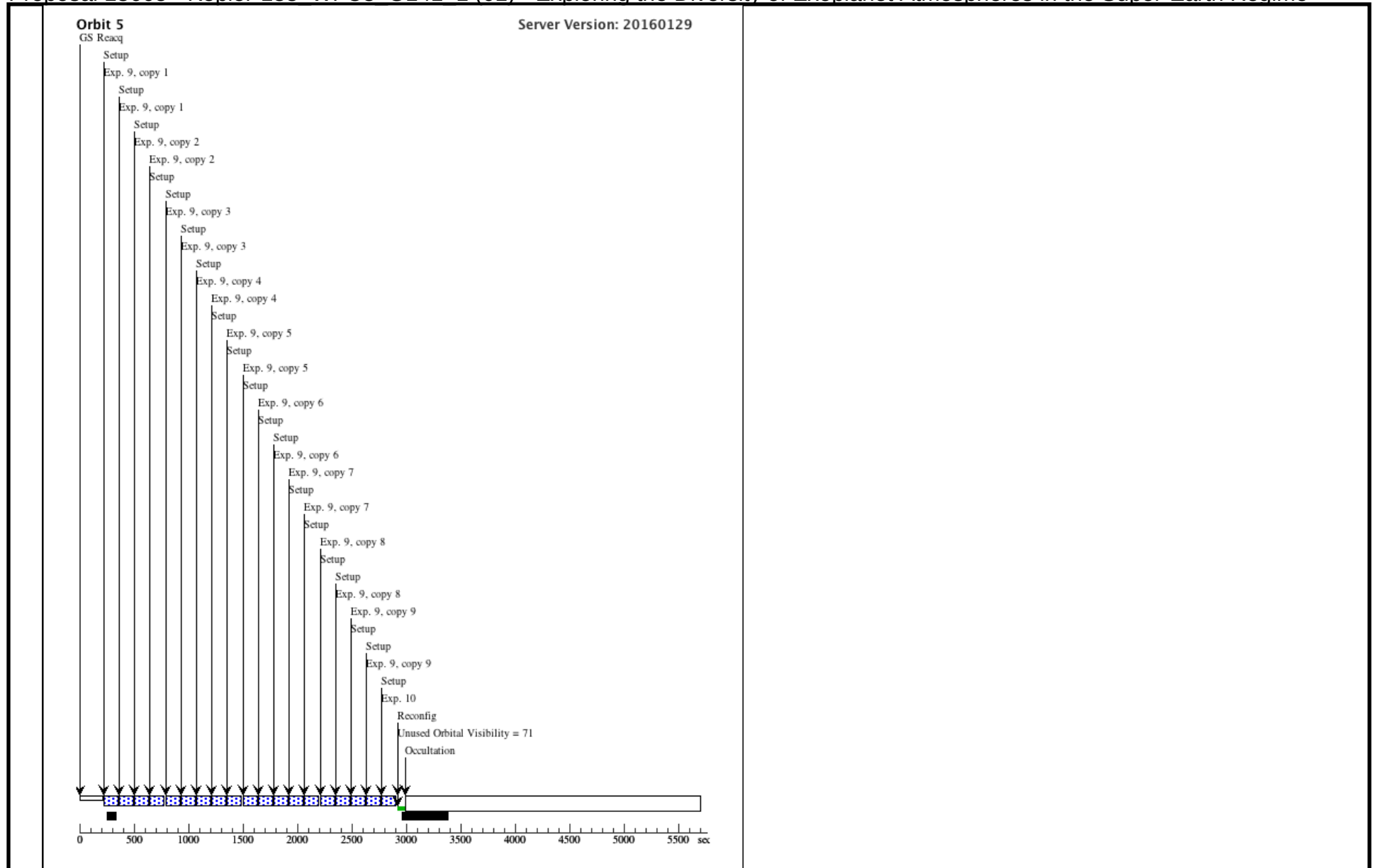
Proposal 13665 - Kepler-138 WFC3 G141 1 (01) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime									
10	G141 Science Data Forward	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees,Forward	Sequence 9-10 Non-Int in Kepler-138_WFC3_G141_1 (01)	103.128633 Secs (103.129 Secs) [==>]	[5]











Proposal 13665 - Kepler-138_WFC3_G141_2 (02) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, Kepler-138_WFC3_G141_2 (02), completed Sun Apr 10 01:17:18 GMT 2016				
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; ORIENT 330.1D TO 49.4 D; ORIENT 65.6D TO 80 D; ORIENT 97.1D TO 123.3 D; ORIENT 150.1D TO 229.4 D; ORIENT 245.6D TO 260 D; ORIENT 277.1D TO 303.3 D; Period 23.08933 D AND ZERO-PHASE HJD2457243.637482 Comments: Second (of six) WFC3/G141 transit visits of Kepler 138 We also included orientation restrictions intended to avoid overlapping spectra with nearby stars. Kepler 138 is in a very crowded field of the sky. Can be relaxed if necessary				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(5)	KEPLER-138 Alt Name1: 2MASS-J19213157+4317347	RA: 19 21 31.5910 (290.3816292d) Dec: +43 17 34.79 (43.29300d) Equinox: J2000	Proper Motion RA: -12.0 mas/yr Proper Motion Dec: 28.0 mas/yr Epoch of Position: 2000	V=13.4+/-0.1 R=12.7, I=12.0, J=10.3, H=9.7
	Comments: Additional data were added to this entry by hand. Fluxes were converted from SDSS magnitudes in the Kepler Input Catalog. This object was generated by the targetselector and retrieved from the SIMBAD database.				

Proposal 13665 - Kepler-138 WFC3 G141 2 (02) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

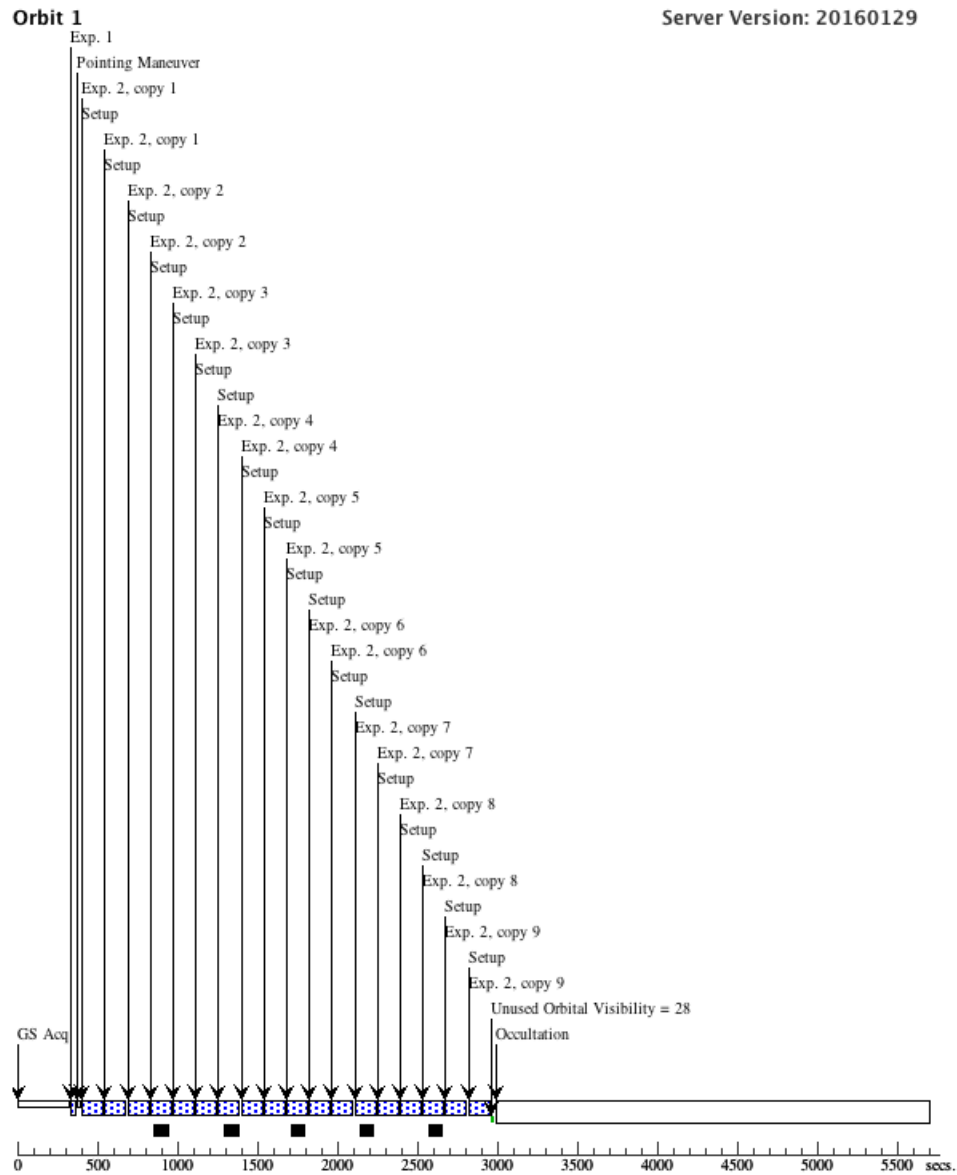
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Kepler-138, ACQ, phase constrained	(5) KEPLER-138	WFC3/IR, MULTIACCUM, IRSUB256	F130N	NSAMP=3; SAMP-SEQ=RAPID	PHASE 0.99298 TO 0.99418	Sequence 1-2 Non-Int in Kepler-138_WFC3_G141_2 (02)	0.833445 Secs (0.833 Secs) [==>]	[1]
	2	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees, Round trip	Sequence 1-2 Non-Int in Kepler-138_WFC3_G141_2 (02)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[1]
	3	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees, Round trip	Sequence 3-4 Non-Int in Kepler-138_WFC3_G141_2 (02)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[2]

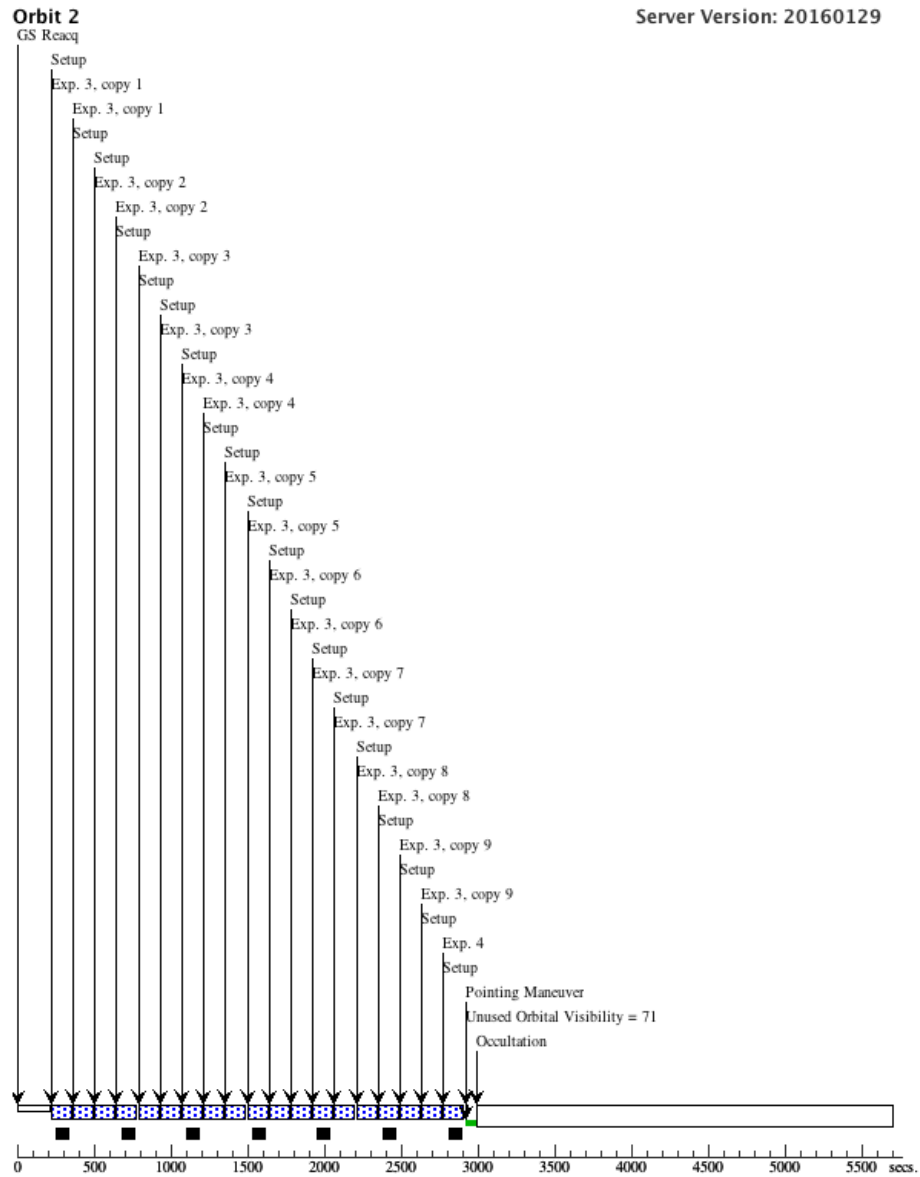
Proposal 13665 - Kepler-138 WFC3 G141 2 (02) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

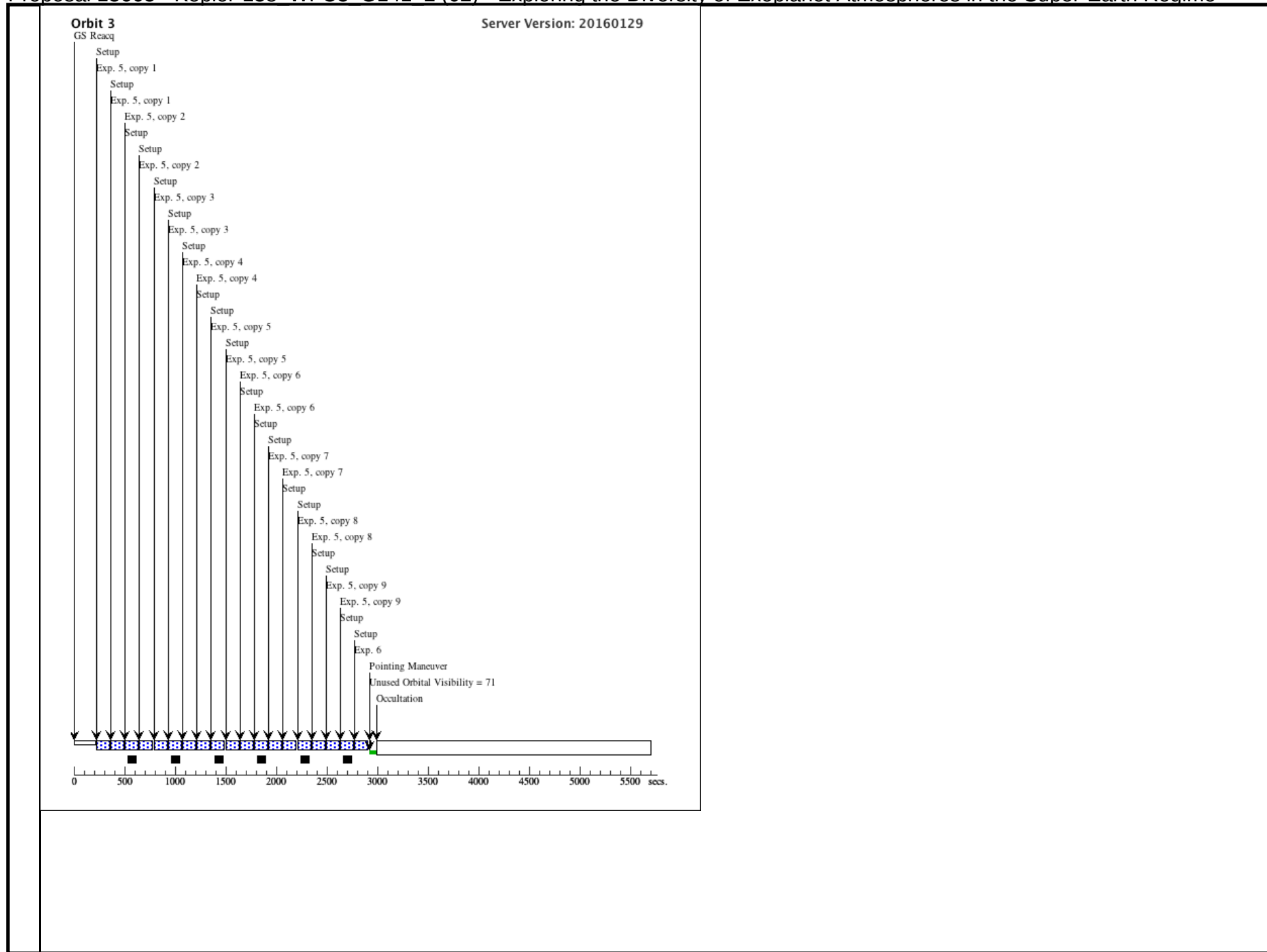
4	G141 Science Data Forward	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees,Forward	Sequence 3-4 Non-Int in Kepler-138_WFC3_G141_2 (02)	103.128633 Secs (103.129 Secs) [==>]	[2]
5	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees,Round trip	Sequence 5-6 Non-Int in Kepler-138_WFC3_G141_2 (02)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[3]
6	G141 Science Data Forward	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees,Forward	Sequence 5-6 Non-Int in Kepler-138_WFC3_G141_2 (02)	103.128633 Secs (103.129 Secs) [==>]	[3]

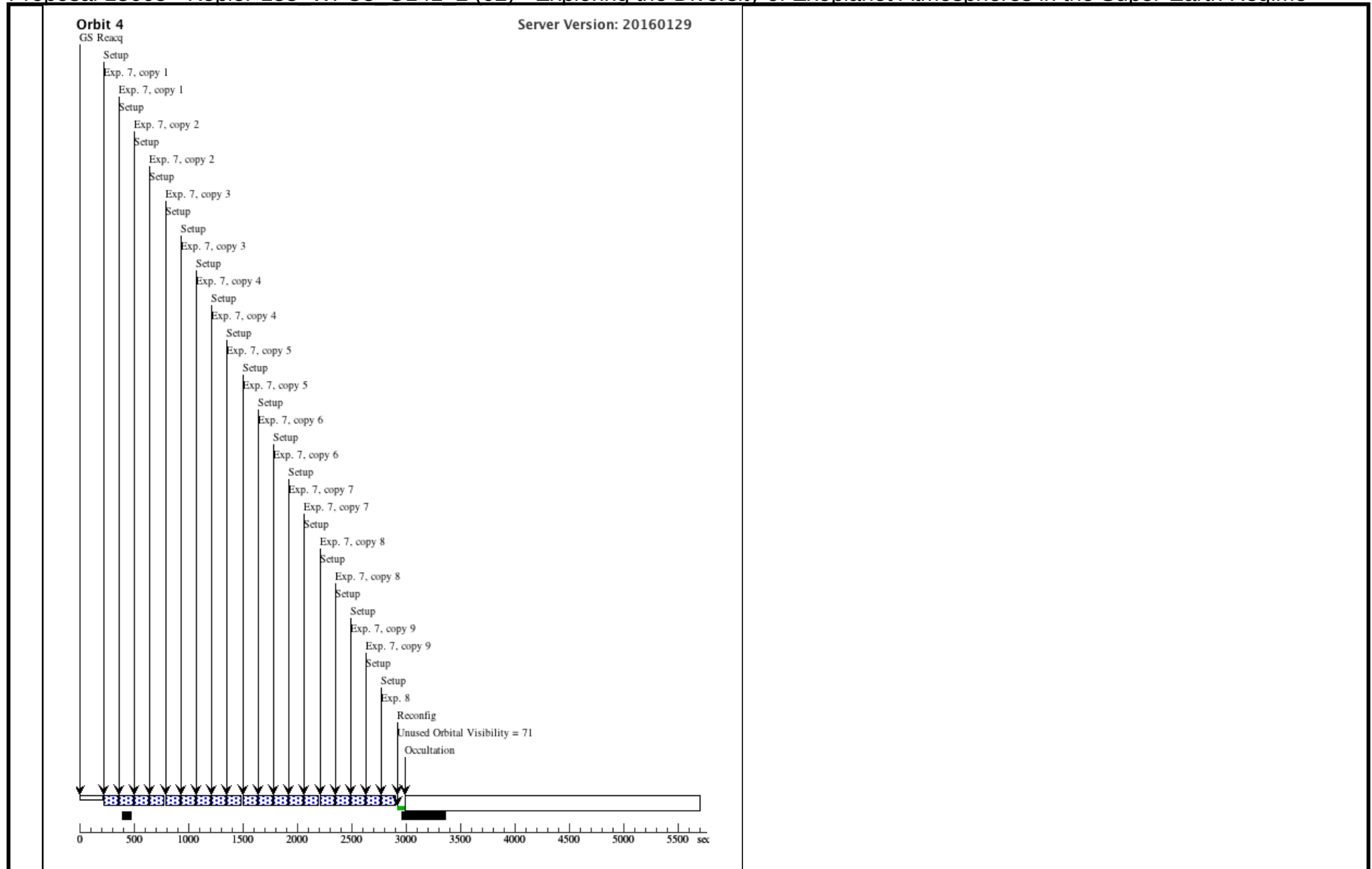
Proposal 13665 - Kepler-138 WFC3 G141 2 (02) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

7	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees,Round trip	Sequence 7-8 Non-Int in Kepler-138_WFC3_G141_2 (02)	103.128633 Secs X 9 (1856.315 Secs)	
								[==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[4]
8	G141 Science Data Forward	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees,Forward	Sequence 7-8 Non-Int in Kepler-138_WFC3_G141_2 (02)	103.128633 Secs (103.129 Secs)	
								[==>]	[4]









Proposal 13665 - Kepler-138_WFC3_G141_3 (03) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, Kepler-138_WFC3_G141_3 (03), completed Sun Apr 10 01:17:19 GMT 2016 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; ORIENT 330.1D TO 49.4 D; ORIENT 65.6D TO 80 D; ORIENT 97.1D TO 123.3 D; ORIENT 150.1D TO 229.4 D; ORIENT 245.6D TO 260 D; ORIENT 277.1D TO 303.3 D; Period 23.08933 D AND ZERO-PHASE HJD2455558.1404 Comments: Thrid (of six) WFC3/G141 transit visits of Kepler 138 <i>It is essential for the five orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 and 4 in each Kepler-138 visit observe Kepler-138 during the transit of Kepler-138c. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.9915-0.9924 in planet orbital phase, corresponding to a 27 minute interval. In order to also ensure complete coverage of the transit light curve when combining the six visits, the first visit has been scheduled to begin within the first 10 minutes of the phase windows and the second one has been scheduled to begin in the last 10 min of the phase windows. The remaining visits can be arbitrarilty placed within the entire phase window. If the first or second visits place a significant barrier to scheduling, the requirements for all visits and may be relaxed to the full 27 minute range (0.9915-0.9924) in orbital phase.</i> <i>We also included orientation restrictions intended to avoid overlapping spectra with nearby stars. Kepler 138 is in a very crowded field of the sky.</i>																					
	<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>KEPLER-138</td><td>RA: 19 21 31.5910 (290.3816292d)</td><td>Proper Motion RA: -12.0 mas/yr</td><td>V=13.4+/-0.1</td><td>Reference Frame: SIMBAD</td></tr> <tr> <td></td><td>Alt Name1: 2MASS-J19213157+4317347</td><td>Dec: +43 17 34.79 (43.29300d) Equinox: J2000</td><td>Proper Motion Dec: 28.0 mas/yr Epoch of Position: 2000</td><td>R=12.7, I=12.0, J=10.3, H=9.7</td><td></td></tr> </tbody> </table> Comments: Additional data were added to this entry by hand. Fluxes were converted from SDSS magnitudes in the Kepler Input Catalog. This object was generated by the targetselector and retrieved from the SIMBAD database.					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(5)	KEPLER-138	RA: 19 21 31.5910 (290.3816292d)	Proper Motion RA: -12.0 mas/yr	V=13.4+/-0.1	Reference Frame: SIMBAD		Alt Name1: 2MASS-J19213157+4317347	Dec: +43 17 34.79 (43.29300d) Equinox: J2000	Proper Motion Dec: 28.0 mas/yr Epoch of Position: 2000	R=12.7, I=12.0, J=10.3, H=9.7
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																	
(5)	KEPLER-138	RA: 19 21 31.5910 (290.3816292d)	Proper Motion RA: -12.0 mas/yr	V=13.4+/-0.1	Reference Frame: SIMBAD																	
	Alt Name1: 2MASS-J19213157+4317347	Dec: +43 17 34.79 (43.29300d) Equinox: J2000	Proper Motion Dec: 28.0 mas/yr Epoch of Position: 2000	R=12.7, I=12.0, J=10.3, H=9.7																		

Proposal 13665 - Kepler-138 WFC3 G141 3 (03) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Kepler-138, ACQ, phase constrained	(5) KEPLER-138	WFC3/IR, MULTIACCUM, IRSUB256	F130N	NSAMP=3; SAMP-SEQ=RAPID	PHASE 0.9915 TO 0.9924	Sequence 1-2 Non-Int in Kepler-138_WFC3_G141_3 (03)	0.833445 Secs (0.833 Secs) [==>]	[1]
	2	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS10; NSAMP=15	POS TARG 0,+1; SPATIAL SCAN 0.07,90.0 Degrees,Round trip	Sequence 1-2 Non-Int in Kepler-138_WFC3_G141_3 (03)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[1]
	3	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS10; NSAMP=15	POS TARG 0,+1; SPATIAL SCAN 0.07,90.0 Degrees,Round trip	Sequence 3-4 Non-Int in Kepler-138_WFC3_G141_3 (03)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[2]

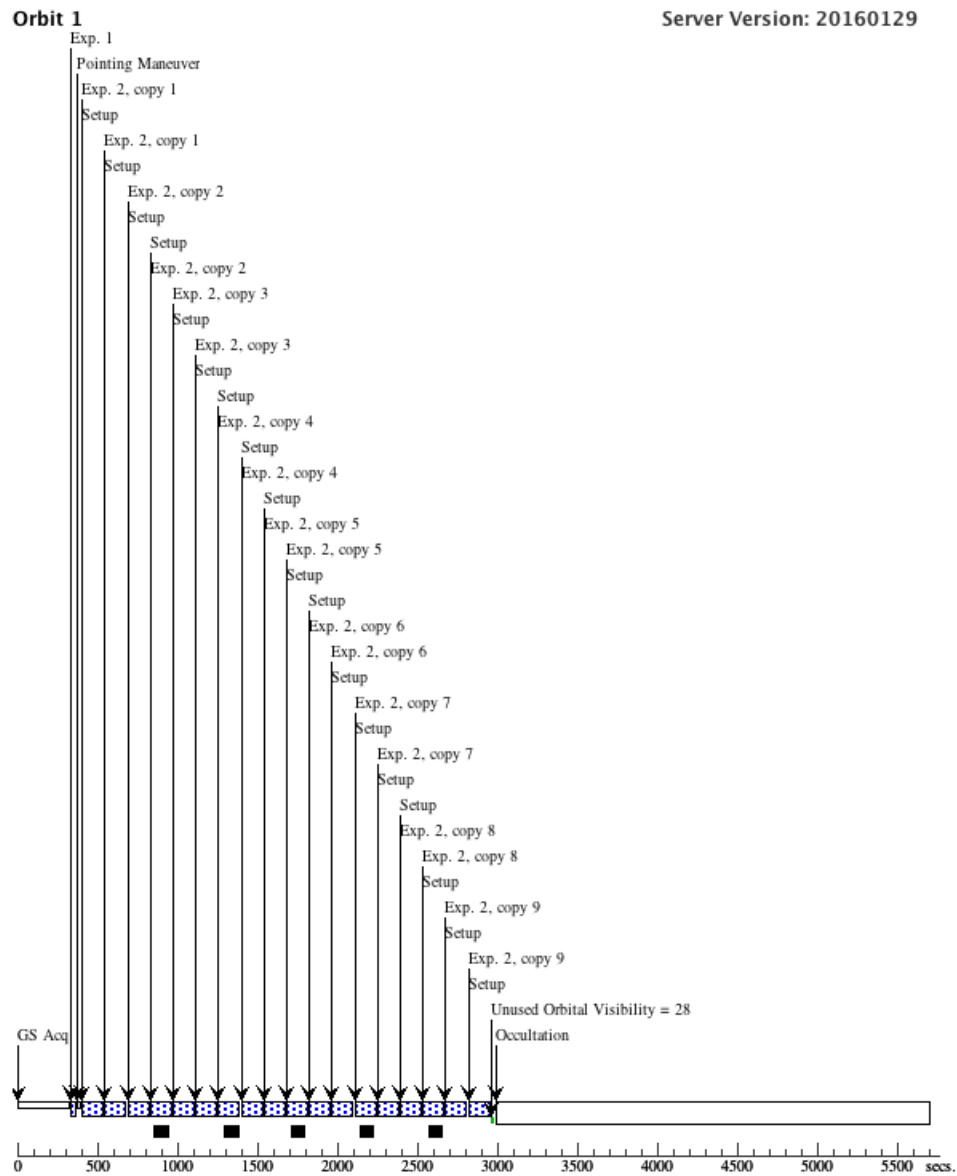
Proposal 13665 - Kepler-138 WFC3 G141 3 (03) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

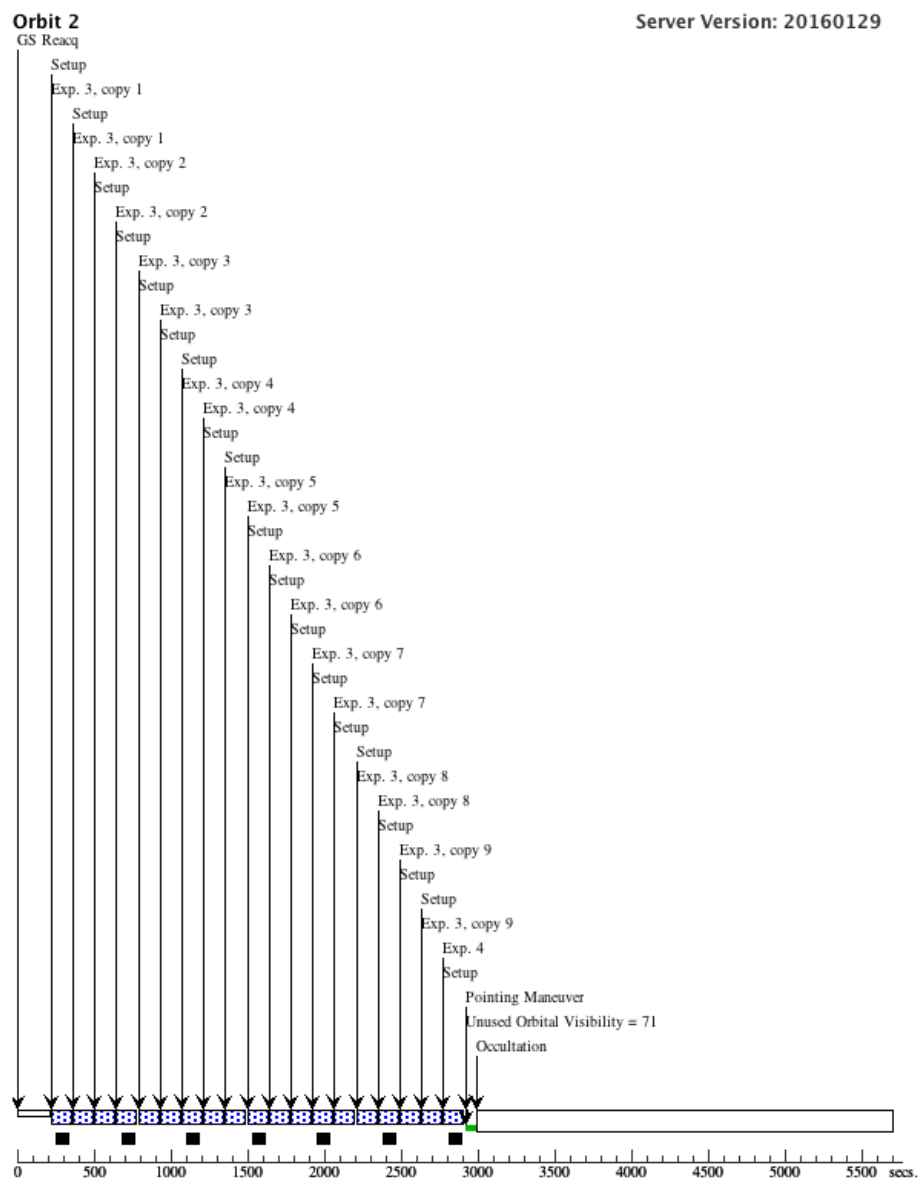
4	G141 Science Data Forward	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,+1; SPATIAL SCAN 0.0 7,90.0 Degrees, Forward	Sequence 3-4 Non-Int in Kepler-138_WFC3_G141_3 (03)	103.128633 Secs (103.129 Secs) [==>]	[2]
5	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,+1; SPATIAL SCAN 0.0 7,90.0 Degrees, Round trip	Sequence 5-6 Non-Int in Kepler-138_WFC3_G141_3 (03)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[3]
6	G141 Science Data Forward	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,+1; SPATIAL SCAN 0.0 7,90.0 Degrees, Forward	Sequence 5-6 Non-Int in Kepler-138_WFC3_G141_3 (03)	103.128633 Secs (103.129 Secs) [==>]	[3]

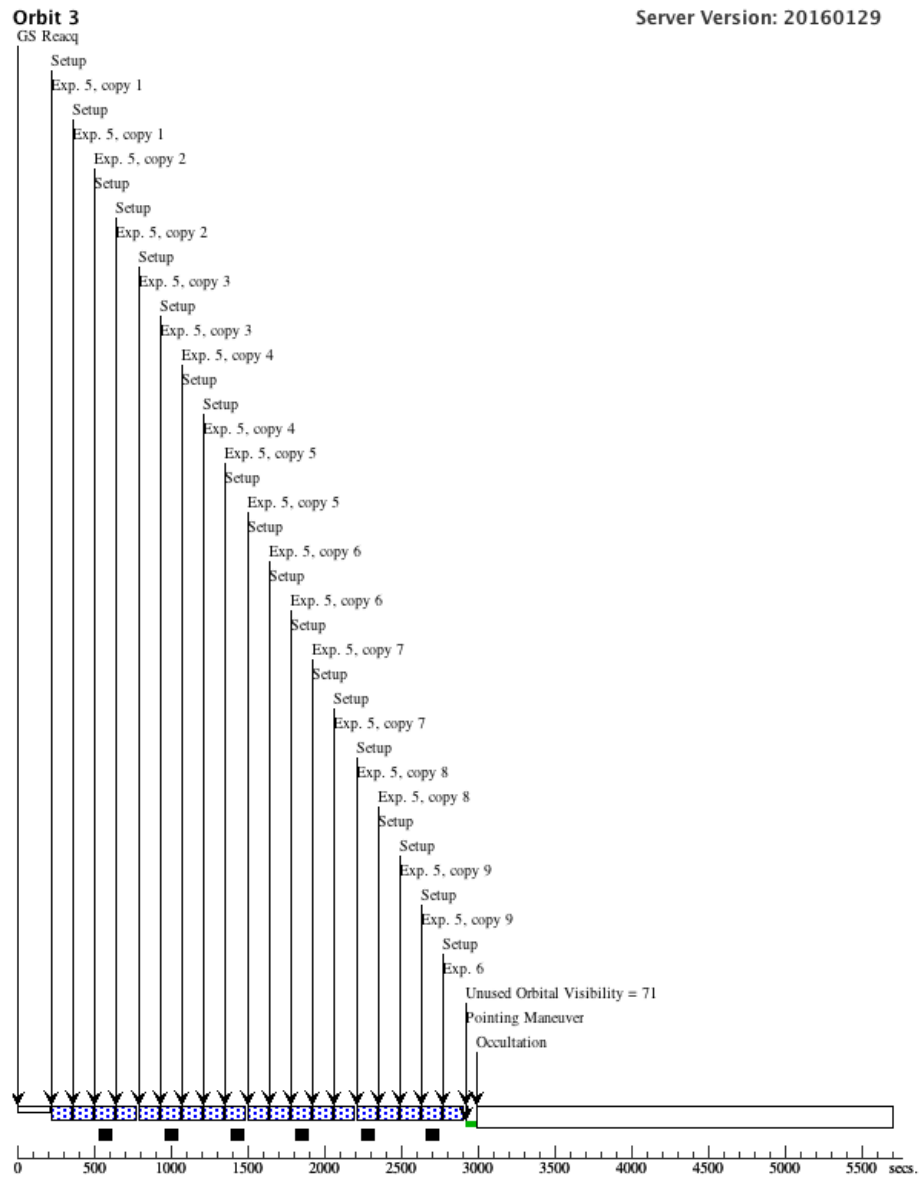
Proposal 13665 - Kepler-138 WFC3 G141 3 (03) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

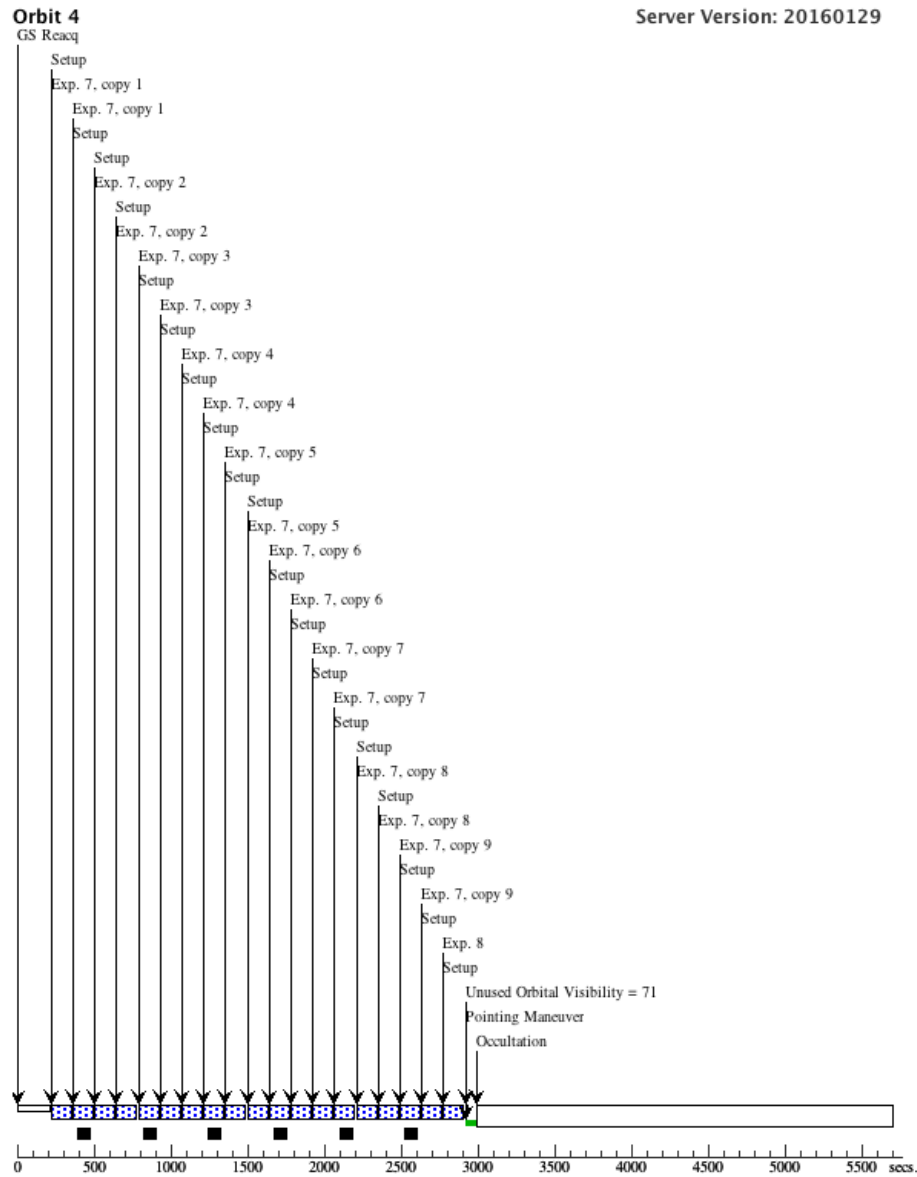
7	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,+1; SPATIAL SCAN 0.0 7,90.0 Degrees, Round trip	Sequence 7-8 Non-Int in Kepler-138_WFC3_G141_3 (03)	103.128633 Secs X 9 (1856.315 Secs)	
								[==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[4]
8	G141 Science Data Forward	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,+1; SPATIAL SCAN 0.0 7,90.0 Degrees, Forward	Sequence 7-8 Non-Int in Kepler-138_WFC3_G141_3 (03)	103.128633 Secs (103.129 Secs)	
								[==>]	[4]
9	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,+1; SPATIAL SCAN 0.0 7,90.0 Degrees, Round trip	Sequence 9-10 Non-Int in Kepler-138_WFC3_G141_3 (03)	103.128633 Secs X 9 (1856.315 Secs)	
								[==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[5]

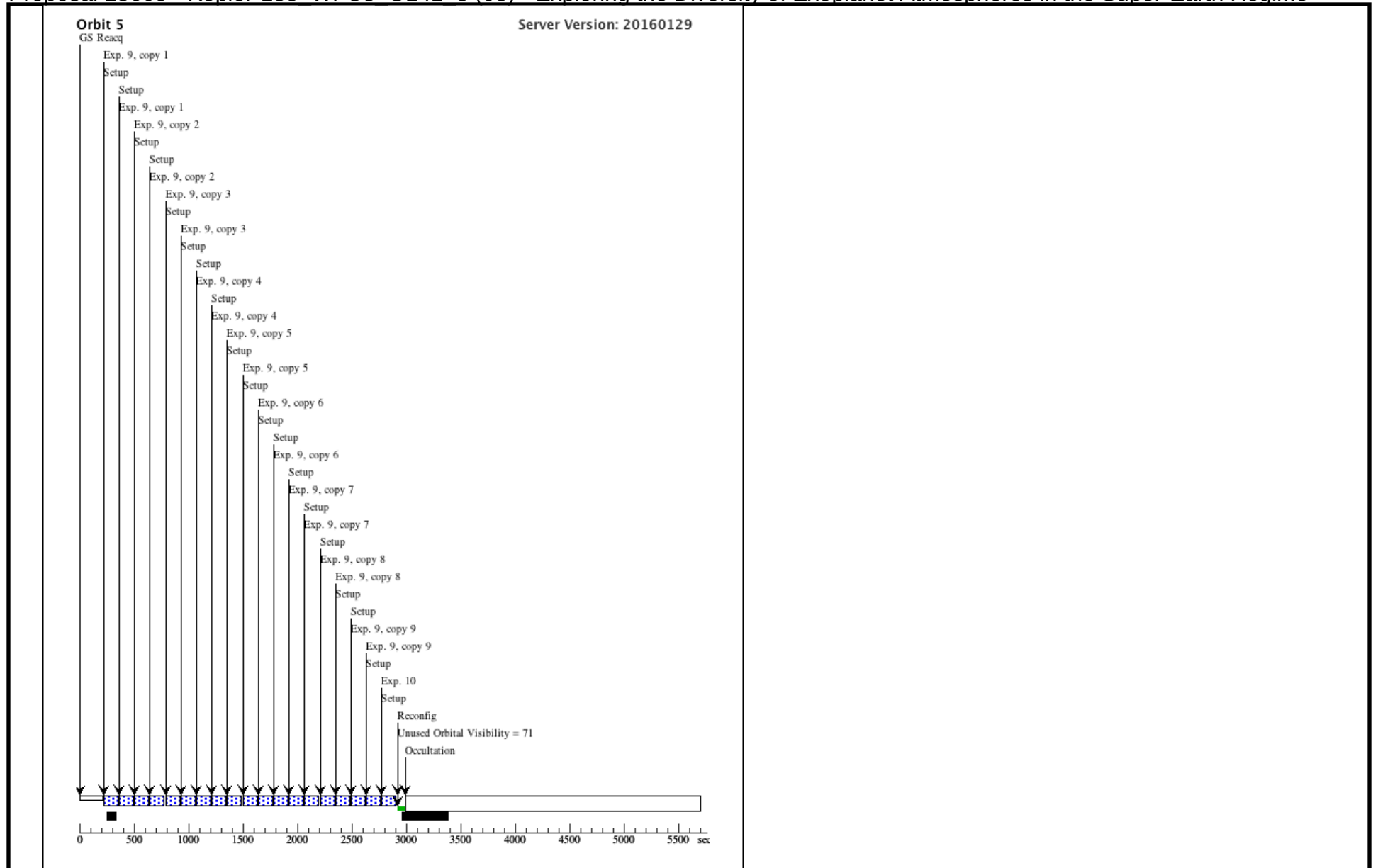
Proposal 13665 - Kepler-138 WFC3 G141 3 (03) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime									
10	G141 Science Data Forward	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,+1; SPATIAL SCAN 0.0 7,90.0 Degrees,Forward	Sequence 9-10 Non-Int in Kepler-138_WFC3_G141_3 (03)	103.128633 Secs (103.129 Secs) [==>]	[5]











Proposal 13665 - Kepler-138_WFC3_G141_4 (04) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, Kepler-138_WFC3_G141_4 (04), withdrawn					Sun Apr 10 01:17:19 GMT 2016
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: WFC3/IR					
	Special Requirements: SCHED 100%; ORIENT 330.1D TO 49.4 D; ORIENT 65.6D TO 80 D; ORIENT 97.1D TO 123.3 D; ORIENT 150.1D TO 229.4 D; ORIENT 245.6D TO 260 D; ORIENT 277.1D TO 303.3 D; Period 23.08933 D AND ZERO-PHASE HJD2455558.1404					
	Comments: Fourth (of six) WFC3/G141 transit visits of Kepler 138					
Fixed Targets	It is essential for the five orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 and 4 in each Kepler-138 visit observe Kepler-138 during the transit of Kepler-138c. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.9915-0.9924 in planet orbital phase, corresponding to a 27 minute interval. In order to also ensure complete coverage of the transit light curve when combining the six visits, the first visit has been scheduled to begin within the first 10 minutes of the phase windows and the second one has been scheduled to begin in the last 10 min of the phase windows. The remaining visits can be arbitrarily placed within the entire phase window. If the first or second visits place a significant barrier to scheduling, the requirements for all visits and may be relaxed to the full 27 minute range (0.9915-0.9924) in orbital phase.					
	We also included orientation restrictions intended to avoid overlapping spectra with nearby stars. Kepler 138 is in a very crowded field of the sky.					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	KEPLER-138	RA: 19 21 31.5910 (290.3816292d)	Proper Motion RA: -12.0 mas/yr	V=13.4+/-0.1	Reference Frame: SIMBAD
		Alt Name1: 2MASS-J19213157+4317347	Dec: +43 17 34.79 (43.29300d) Equinox: J2000	Proper Motion Dec: 28.0 mas/yr Epoch of Position: 2000	R=12.7, I=12.0, J=10.3, H=9.7	
	Comments: Additional data were added to this entry by hand. Fluxes were converted from SDSS magnitudes in the Kepler Input Catalog. This object was generated by the targetselector and retrieved from the SIMBAD database.					

Proposal 13665 - Kepler-138 WFC3 G141 4 (04) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Kepler-138, ACQ, phase constrained	(5) KEPLER-138	WFC3/IR, MULTIACCUM, IRSUB256	F130N	NSAMP=3; SAMP-SEQ=RAPID	PHASE 0.9915 TO 0.9924	Sequence 1-2 Non-Int in Kepler-138_WFC3_G141_4 (04)	0.833445 Secs (0.833 Secs) [==>]	[1]
	2	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS10; NSAMP=15	POS TARG 0,+1; SPATIAL SCAN 0.07,90.0 Degrees,Round trip	Sequence 1-2 Non-Int in Kepler-138_WFC3_G141_4 (04)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[1]
	3	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS10; NSAMP=15	POS TARG 0,+1; SPATIAL SCAN 0.07,90.0 Degrees,Round trip	Sequence 3-4 Non-Int in Kepler-138_WFC3_G141_4 (04)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[2]

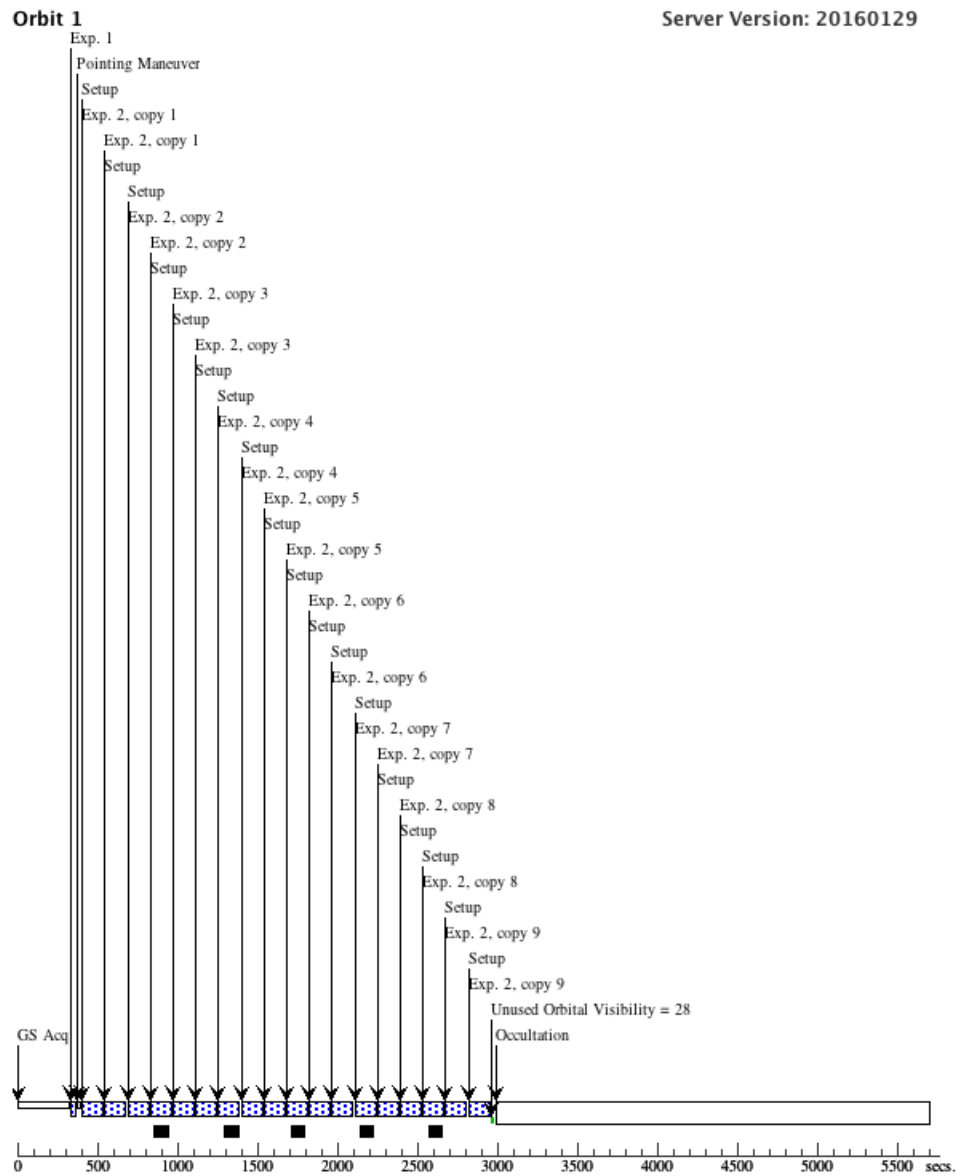
Proposal 13665 - Kepler-138 WFC3 G141 4 (04) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

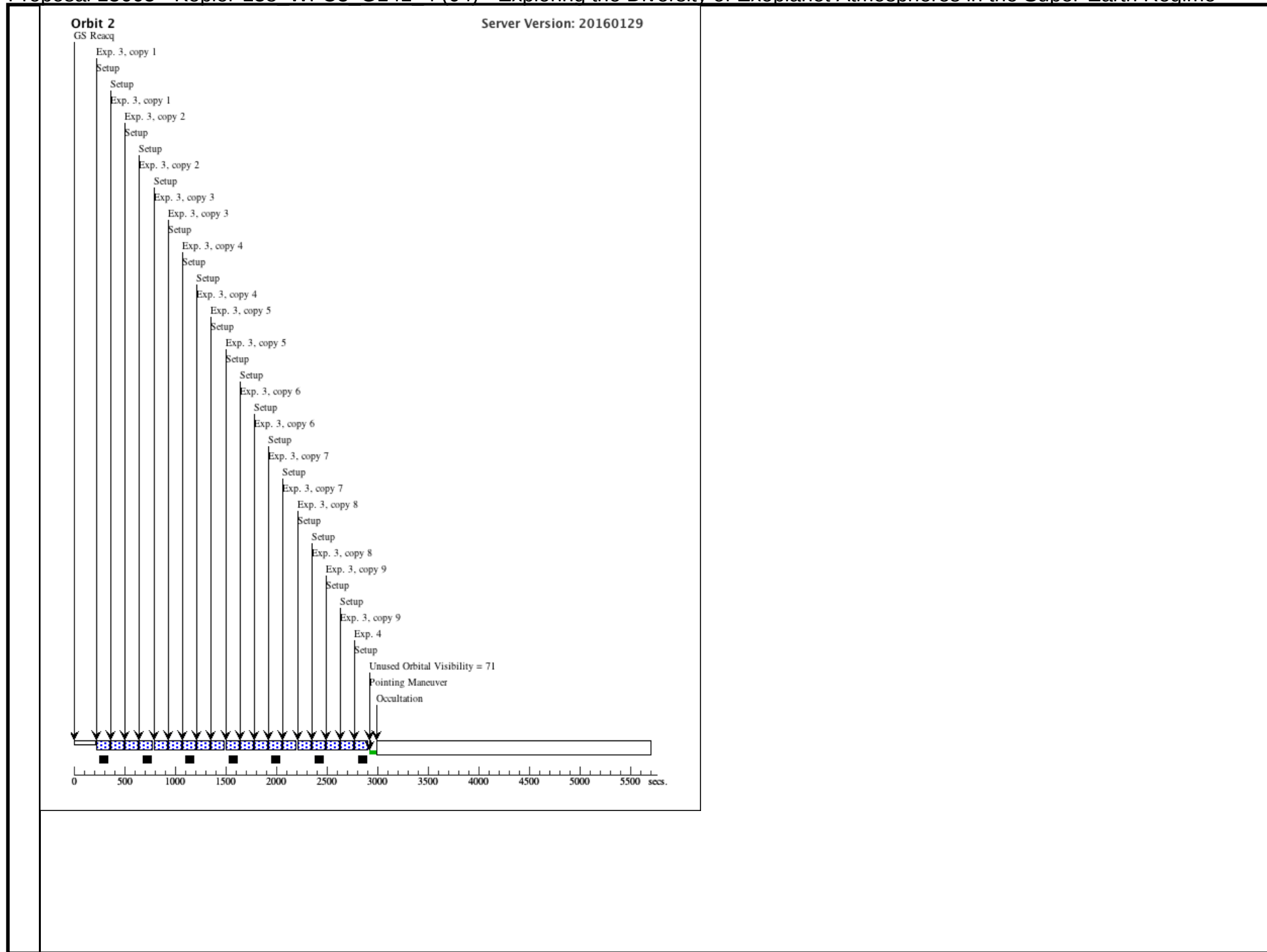
4	G141 Science Data Forward	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,+1; SPATIAL SCAN 0.0 7,90.0 Degrees,Forward	Sequence 3-4 Non-Int in Kepler-138_WFC3_G141_4 (04)	103.128633 Secs (103.129 Secs) [==>]	[2]
5	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,+1; SPATIAL SCAN 0.0 7,90.0 Degrees,Round trip	Sequence 5-6 Non-Int in Kepler-138_WFC3_G141_4 (04)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[3]
6	G141 Science Data Forward	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,+1; SPATIAL SCAN 0.0 7,90.0 Degrees,Forward	Sequence 5-6 Non-Int in Kepler-138_WFC3_G141_4 (04)	103.128633 Secs (103.129 Secs) [==>]	[3]

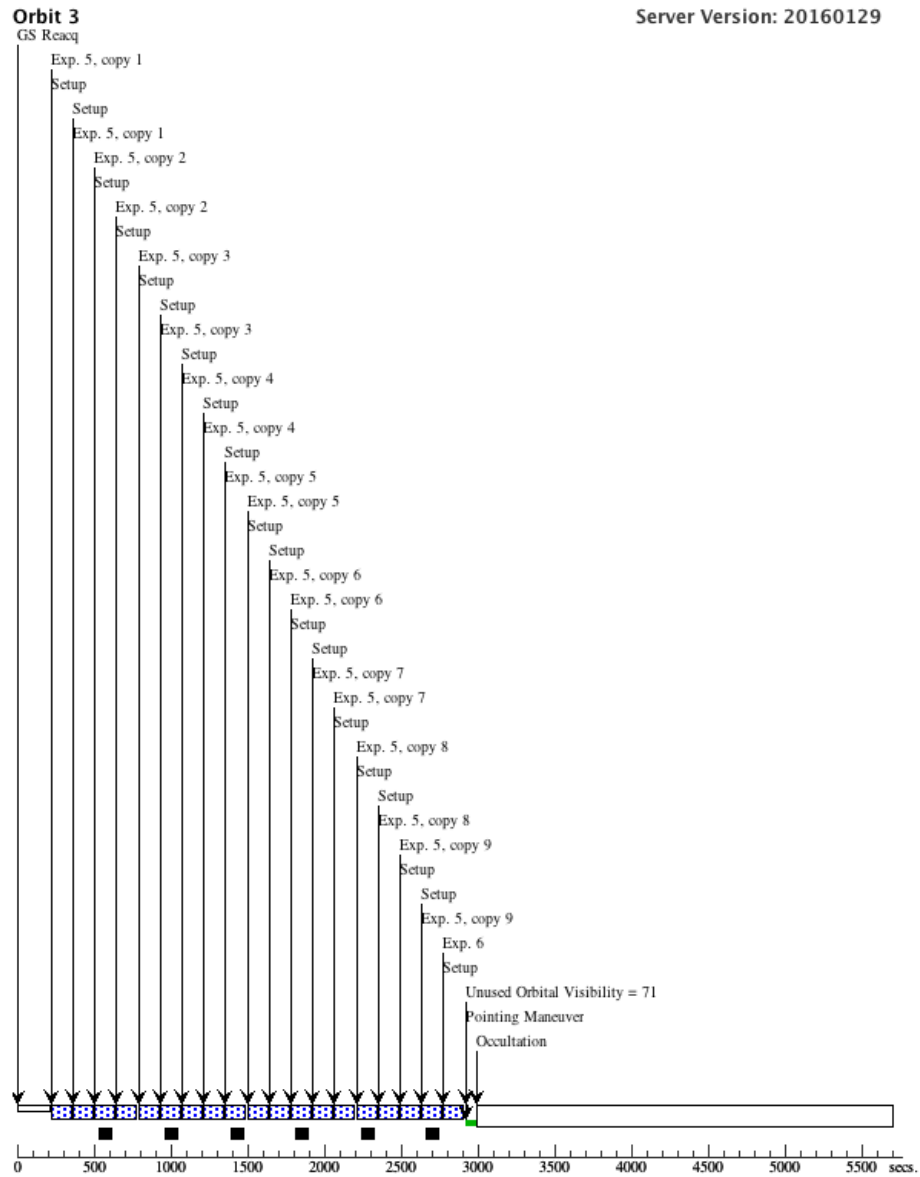
Proposal 13665 - Kepler-138 WFC3 G141 4 (04) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

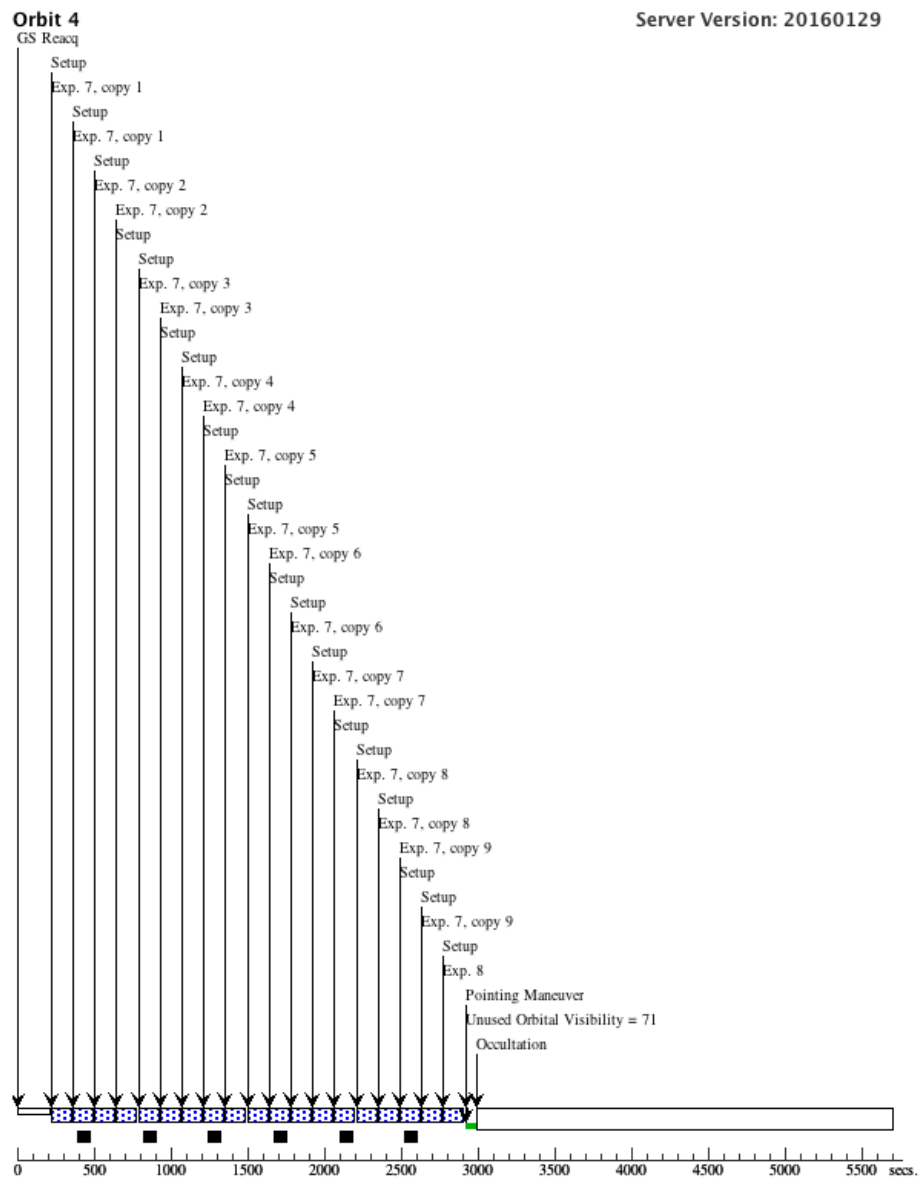
7	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,+1; SPATIAL SCAN 0.0 7,90.0 Degrees, Round trip	Sequence 7-8 Non-Int in Kepler-138_WFC3_G141_4 (04)	103.128633 Secs X 9 (1856.315 Secs)	
								[==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[4]
8	G141 Science Data Forward	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,+1; SPATIAL SCAN 0.0 7,90.0 Degrees, Forward	Sequence 7-8 Non-Int in Kepler-138_WFC3_G141_4 (04)	103.128633 Secs (103.129 Secs)	
								[==>]	[4]
9	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,+1; SPATIAL SCAN 0.0 7,90.0 Degrees, Round trip	Sequence 9-10 Non-Int in Kepler-138_WFC3_G141_4 (04)	103.128633 Secs X 9 (1856.315 Secs)	
								[==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[5]

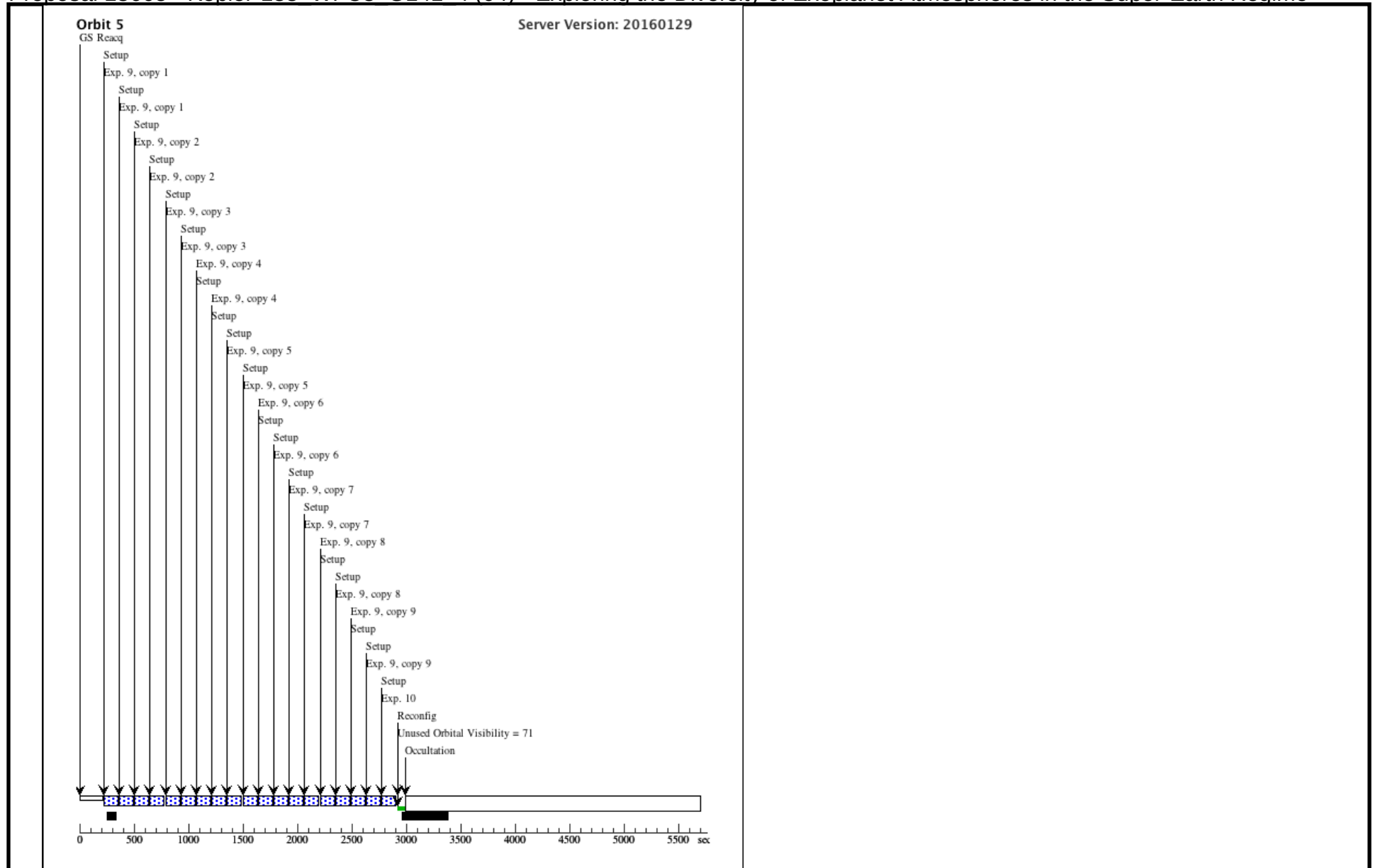
Proposal 13665 - Kepler-138 WFC3 G141 4 (04) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime									
10	G141 Science Data Forward	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,+1; SPATIAL SCAN 0.0 7,90.0 Degrees,Forward	Sequence 9-10 Non-Int in Kepler-138_WFC3_G141_4 (04)	103.128633 Secs (103.129 Secs) [==>]	[5]











Proposal 13665 - Kepler-138_WFC3_G141_5 (05) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, Kepler-138_WFC3_G141_5 (05), withdrawn					Sun Apr 10 01:17:19 GMT 2016
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: WFC3/IR					
	Special Requirements: SCHED 100%; ORIENT 330.1D TO 49.4 D; ORIENT 65.6D TO 80 D; ORIENT 97.1D TO 123.3 D; ORIENT 150.1D TO 229.4 D; ORIENT 245.6D TO 260 D; ORIENT 277.1D TO 303.3 D; Period 23.08933 D AND ZERO-PHASE HJD2455558.1404					
	Comments: Fifth (of six) WFC3/G141 transit visits of Kepler 138					
Fixed Targets	It is essential for the five orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 and 4 in each Kepler-138 visit observe Kepler-138 during the transit of Kepler-138c. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.9915-0.9924 in planet orbital phase, corresponding to a 27 minute interval. In order to also ensure complete coverage of the transit light curve when combining the six visits, the first visit has been scheduled to begin within the first 10 minutes of the phase windows and the second one has been scheduled to begin in the last 10 min of the phase windows. The remaining visits can be arbitrarily placed within the entire phase window. If the first or second visits place a significant barrier to scheduling, the requirements for all visits and may be relaxed to the full 27 minute range (0.9915-0.9924) in orbital phase.					
	We also included orientation restrictions intended to avoid overlapping spectra with nearby stars. Kepler 138 is in a very crowded field of the sky.					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	KEPLER-138	RA: 19 21 31.5910 (290.3816292d)	Proper Motion RA: -12.0 mas/yr	V=13.4+/-0.1	Reference Frame: SIMBAD
		Alt Name1: 2MASS-J19213157+4317347	Dec: +43 17 34.79 (43.29300d) Equinox: J2000	Proper Motion Dec: 28.0 mas/yr Epoch of Position: 2000	R=12.7, I=12.0, J=10.3, H=9.7	
	Comments: Additional data were added to this entry by hand. Fluxes were converted from SDSS magnitudes in the Kepler Input Catalog. This object was generated by the targetselector and retrieved from the SIMBAD database.					

Proposal 13665 - Kepler-138 WFC3 G141 5 (05) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Kepler-138, ACQ, phase constrained	(5) KEPLER-138	WFC3/IR, MULTIACCUM, IRSUB256	F130N	NSAMP=3; SAMP-SEQ=RAPID	PHASE 0.9915 TO 0.9924	Sequence 1-2 Non-Int in Kepler-138_WFC3_G141_5 (05)	0.833445 Secs (0.833 Secs) [==>]	[1]
	2	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS10; NSAMP=15	POS TARG +1.5,+1; SPATIAL SCAN 0.07,90.0 Degrees,Round trip	Sequence 1-2 Non-Int in Kepler-138_WFC3_G141_5 (05)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[1]
	3	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS10; NSAMP=15	POS TARG +1.5,+1; SPATIAL SCAN 0.07,90.0 Degrees,Round trip	Sequence 3-4 Non-Int in Kepler-138_WFC3_G141_5 (05)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[2]

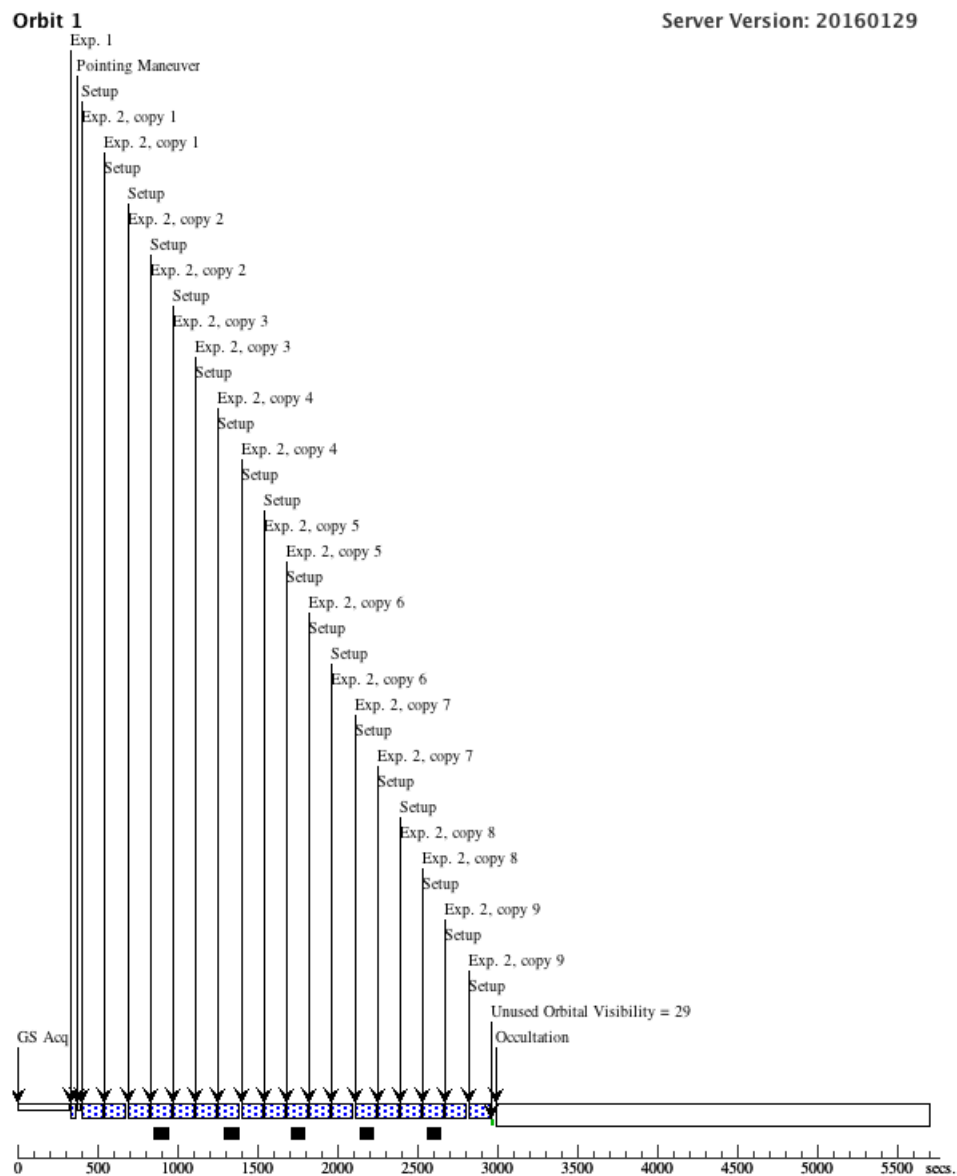
Proposal 13665 - Kepler-138 WFC3 G141 5 (05) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

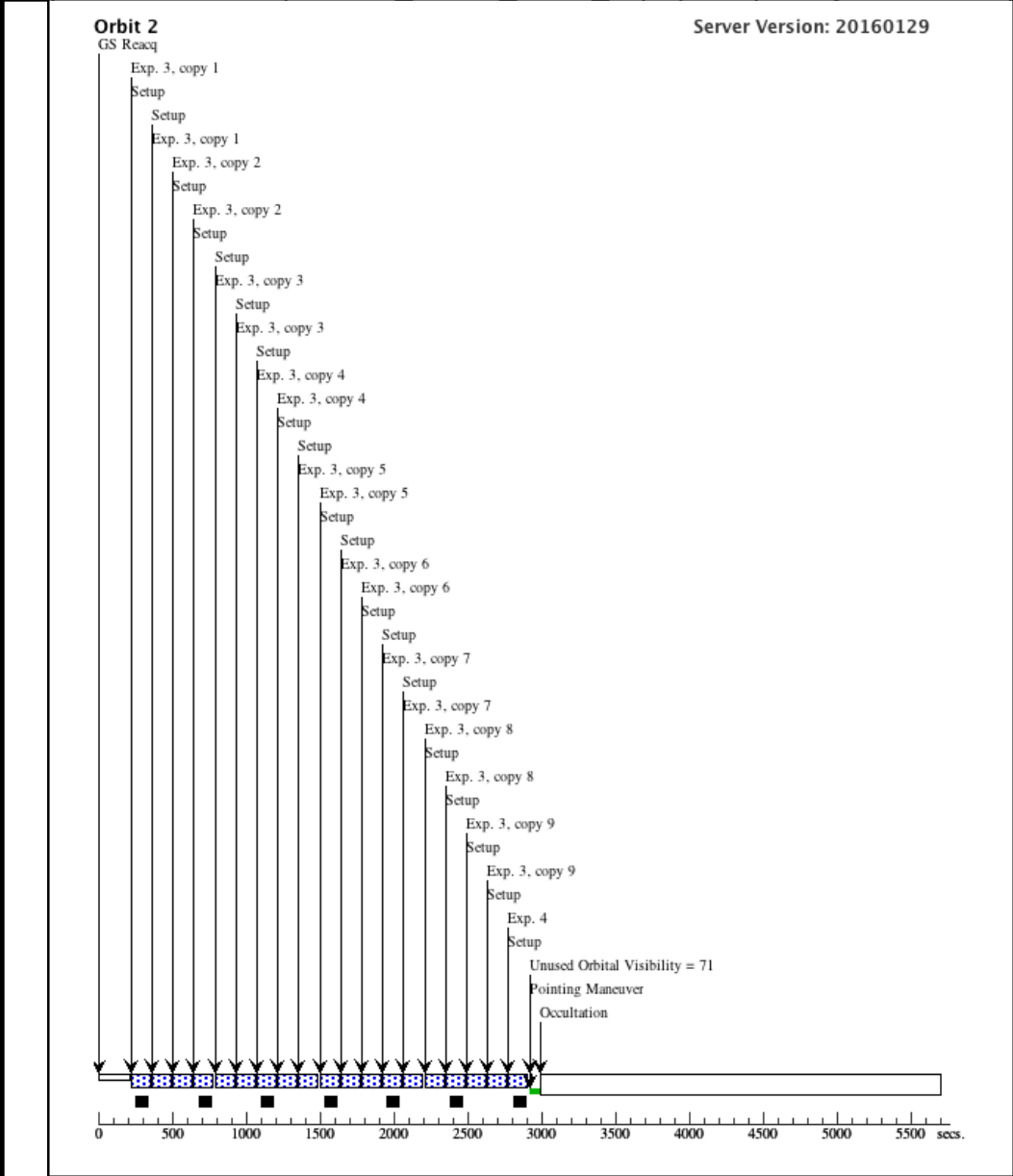
4	G141 Science Data Forward	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG +1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees,Forward	Sequence 3-4 Non-Int in Kepler-138_WFC3_G141_5 (05)	103.128633 Secs (103.129 Secs) [==>]	[2]
5	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG +1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees,Round trip	Sequence 5-6 Non-Int in Kepler-138_WFC3_G141_5 (05)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[3]
6	G141 Science Data Forward	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG +1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees,Forward	Sequence 5-6 Non-Int in Kepler-138_WFC3_G141_5 (05)	103.128633 Secs (103.129 Secs) [==>]	[3]

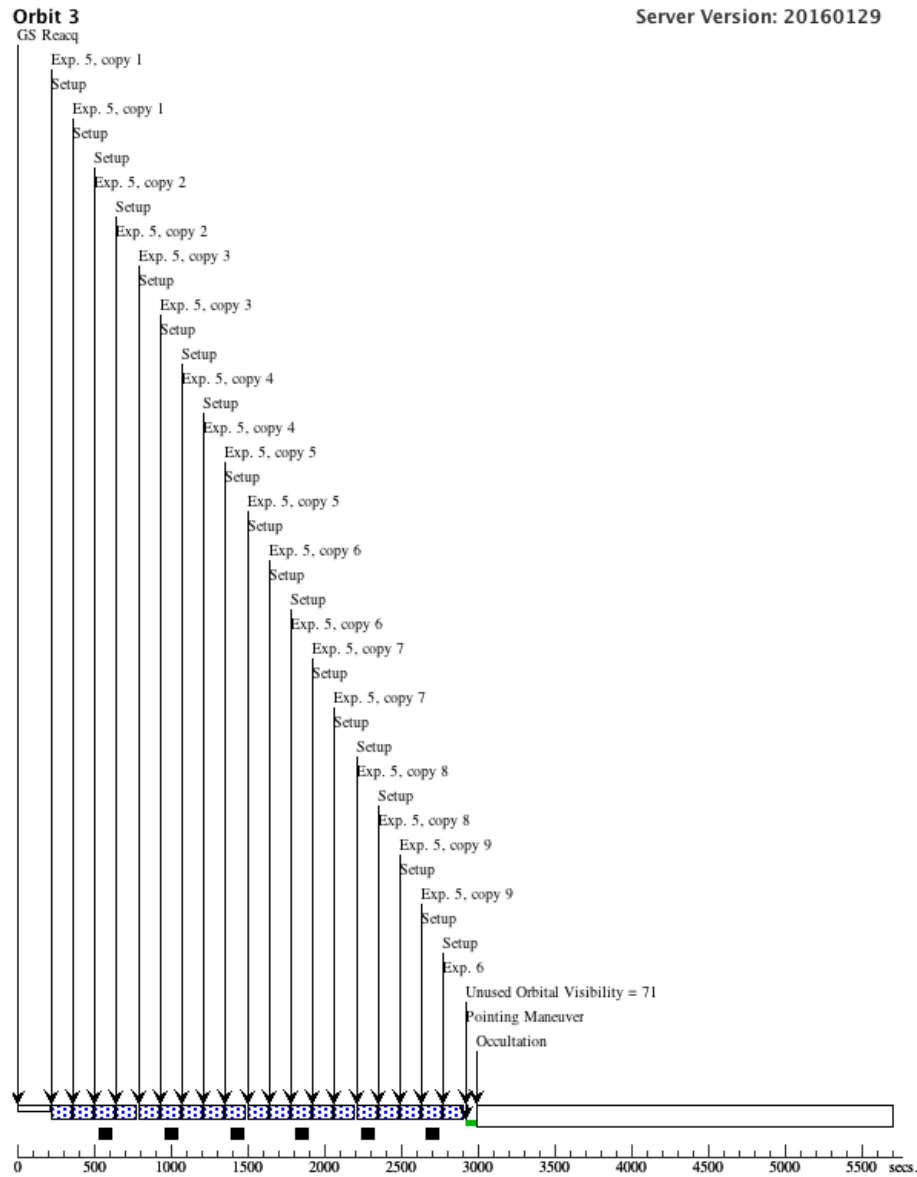
Proposal 13665 - Kepler-138 WFC3 G141 5 (05) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

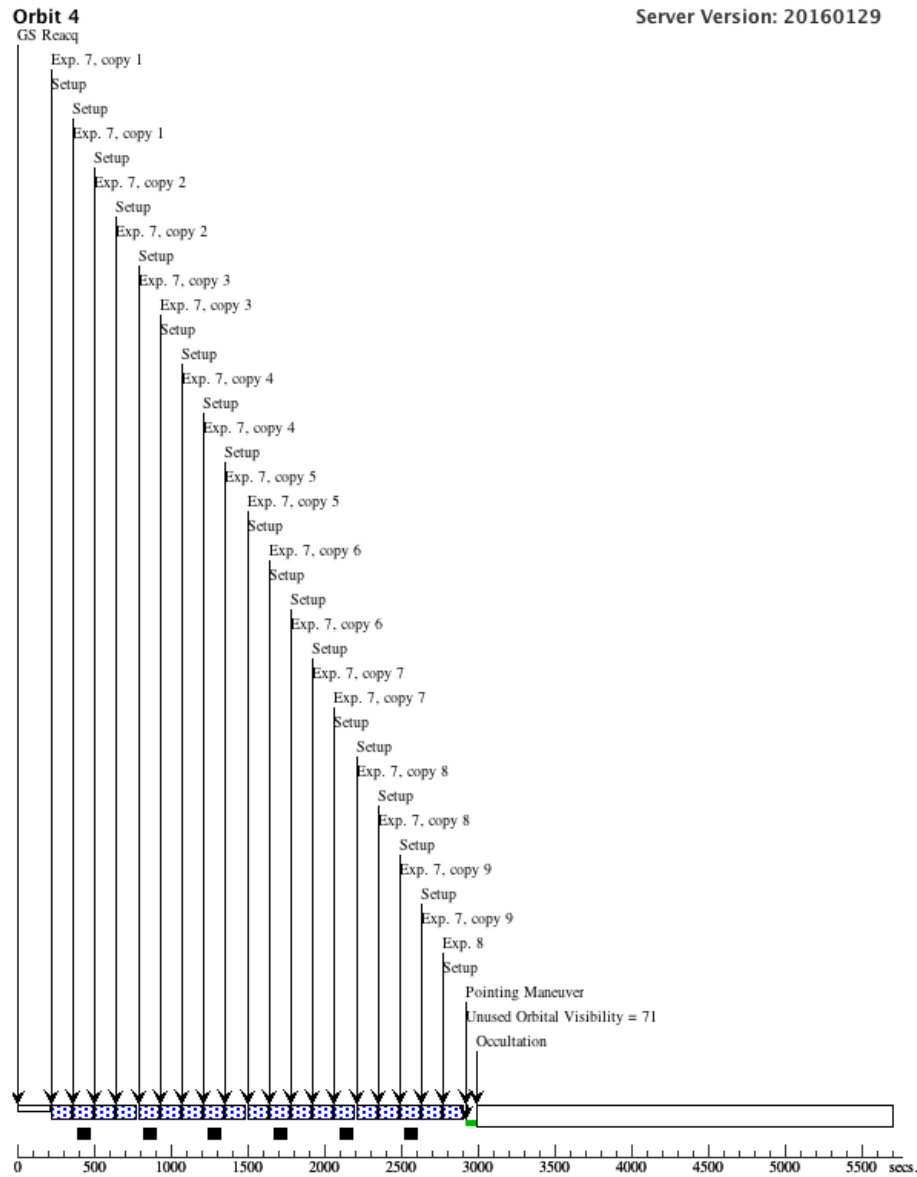
7	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG +1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees, Round trip	Sequence 7-8 Non-Int in Kepler-138_WFC3_G141_5 (05)	103.128633 Secs X 9 (1856.315 Secs)	
								[==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[4]
8	G141 Science Data Forward	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG +1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees, Forward	Sequence 7-8 Non-Int in Kepler-138_WFC3_G141_5 (05)	103.128633 Secs (103.129 Secs)	
								[==>]	[4]
9	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG +1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees, Round trip	Sequence 9-10 Non-Int in Kepler-138_WFC3_G141_5 (05)	103.128633 Secs X 9 (1856.315 Secs)	
								[==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[5]

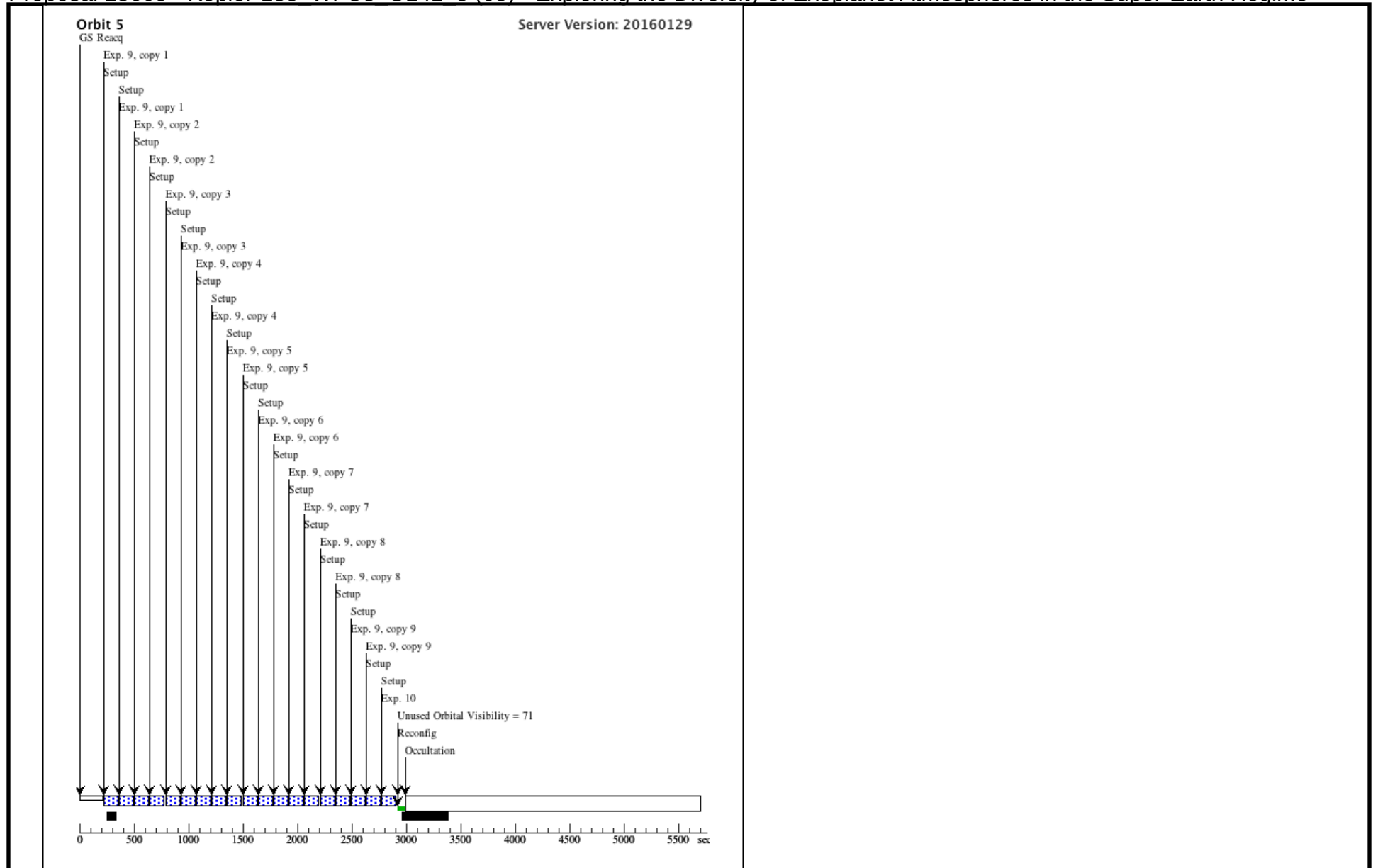
Proposal 13665 - Kepler-138 WFC3 G141 5 (05) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime									
10	G141 Science Data Forward	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG +1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees,Forward	Sequence 9-10 Non-Int in Kepler-138_WFC3_G141_5 (05)	103.128633 Secs (103.129 Secs) [==>]	[5]











Proposal 13665 - Kepler-138_WFC3_G141_6 (06) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, Kepler-138_WFC3_G141_6 (06), implementation					Sun Apr 10 01:17:20 GMT 2016
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: WFC3/IR					
	Special Requirements: SCHED 100%; ORIENT 330.1D TO 49.4 D; ORIENT 65.6D TO 80 D; ORIENT 97.1D TO 123.3 D; ORIENT 150.1D TO 229.4 D; ORIENT 245.6D TO 260 D; ORIENT 277.1D TO 303.3 D; Period 23.08933 D AND ZERO-PHASE HJD2455558.1404					
	Comments: Sixth (of six) WFC3/G141 transit visits of Kepler 138					
Fixed Targets	It is essential for the five orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 and 4 in each Kepler-138 visit observe Kepler-138 during the transit of Kepler-138c. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.9915-0.9924 in planet orbital phase, corresponding to a 27 minute interval. In order to also ensure complete coverage of the transit light curve when combining the six visits, the first visit has been scheduled to begin within the first 10 minutes of the phase windows and the second one has been scheduled to begin in the last 10 min of the phase windows. The remaining visits can be arbitrarily placed within the entire phase window. If the first or second visits place a significant barrier to scheduling, the requirements for all visits and may be relaxed to the full 27 minute range (0.9915-0.9924) in orbital phase.					
	We also included orientation restrictions intended to avoid overlapping spectra with nearby stars. Kepler 138 is in a very crowded field of the sky.					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	KEPLER-138	RA: 19 21 31.5910 (290.3816292d)	Proper Motion RA: -12.0 mas/yr	V=13.4+/-0.1	Reference Frame: SIMBAD
		Alt Name1: 2MASS-J19213157+4317347	Dec: +43 17 34.79 (43.29300d) Equinox: J2000	Proper Motion Dec: 28.0 mas/yr Epoch of Position: 2000	R=12.7, I=12.0, J=10.3, H=9.7	
	Comments: Additional data were added to this entry by hand. Fluxes were converted from SDSS magnitudes in the Kepler Input Catalog. This object was generated by the targetselector and retrieved from the SIMBAD database.					

Proposal 13665 - Kepler-138 WFC3 G141 6 (06) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Kepler-138, ACQ, phase constrained	(5) KEPLER-138	WFC3/IR, MULTIACCUM, IRSUB256	F130N	NSAMP=3; SAMP-SEQ=RAPID	PHASE 0.9915 TO 0.9924	Sequence 1-2 Non-Int in Kepler-138_WFC3_G141_6 (06)	0.833445 Secs (0.833 Secs) [==>]	[1]
	2	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS10; NSAMP=15	POS TARG +1.5,+1; SPATIAL SCAN 0.07,90.0 Degrees,Round trip	Sequence 1-2 Non-Int in Kepler-138_WFC3_G141_6 (06)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[1]
	3	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS10; NSAMP=15	POS TARG +1.5,+1; SPATIAL SCAN 0.07,90.0 Degrees,Round trip	Sequence 3-4 Non-Int in Kepler-138_WFC3_G141_6 (06)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[2]

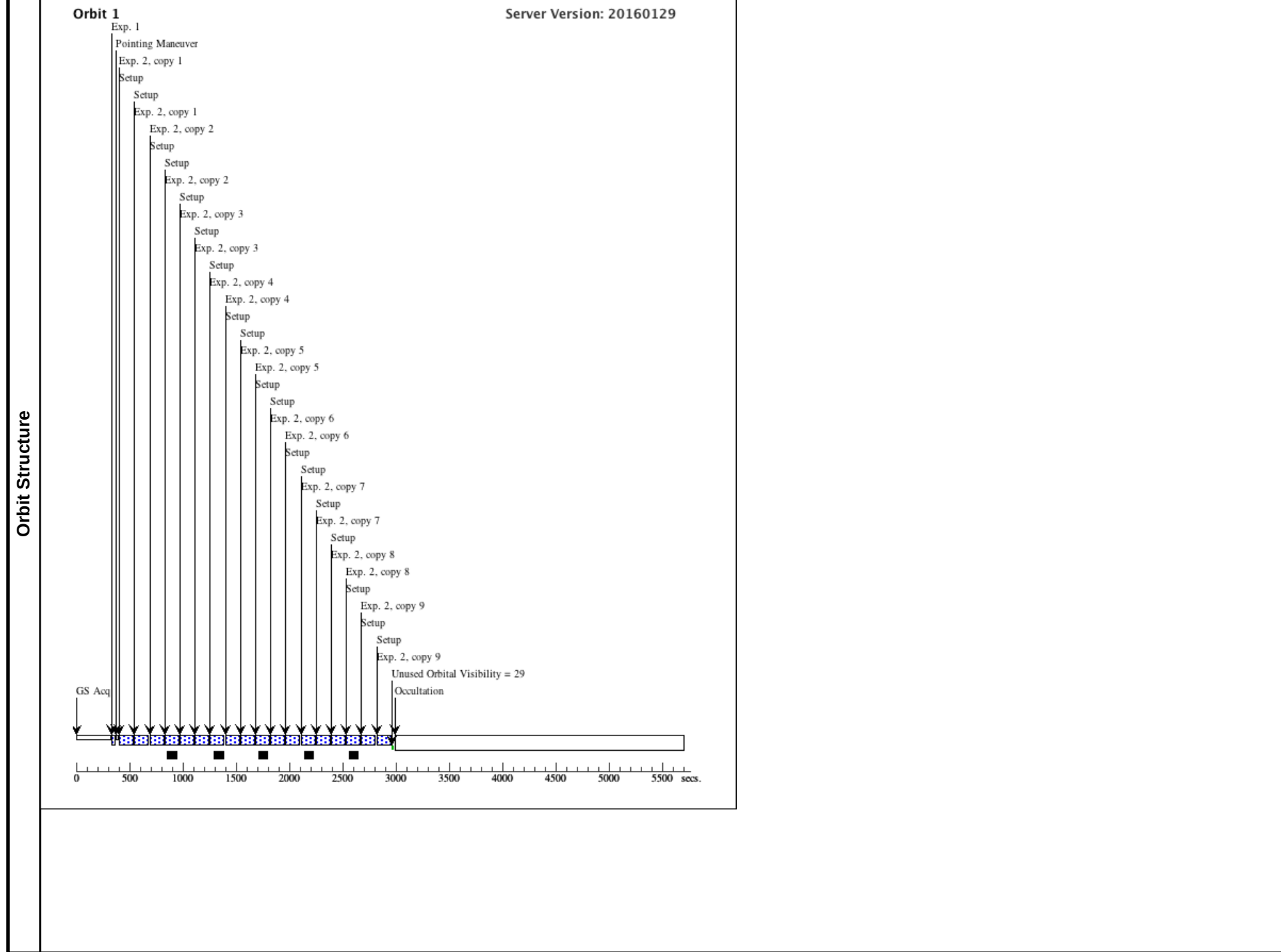
Proposal 13665 - Kepler-138 WFC3 G141 6 (06) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

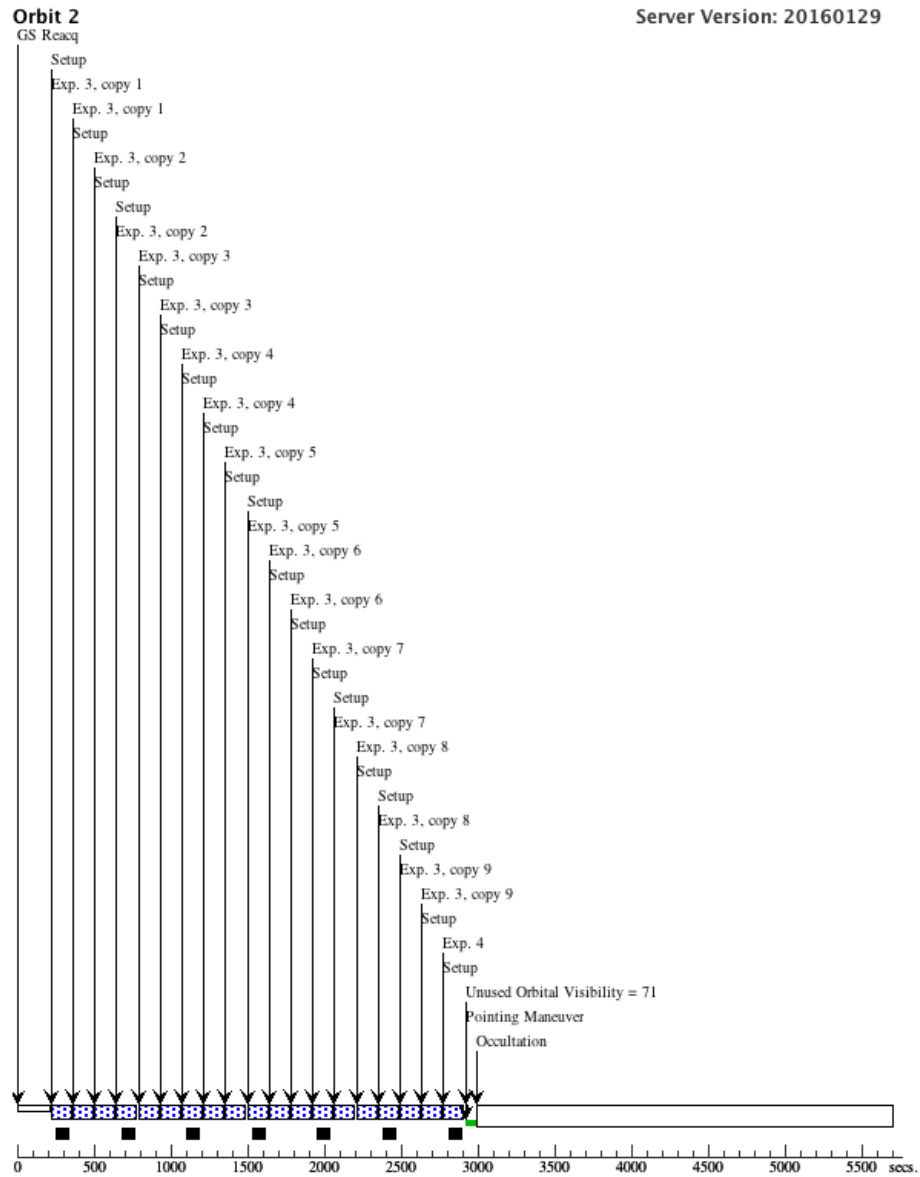
4	G141 Science Data Forward	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG +1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees,Forward	Sequence 3-4 Non-Int in Kepler-138_WFC3_G141_6 (06)	103.128633 Secs (103.129 Secs) [==>]	[2]
5	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG +1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees,Round trip	Sequence 5-6 Non-Int in Kepler-138_WFC3_G141_6 (06)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[3]
6	G141 Science Data Forward	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG +1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees,Forward	Sequence 5-6 Non-Int in Kepler-138_WFC3_G141_6 (06)	103.128633 Secs (103.129 Secs) [==>]	[3]

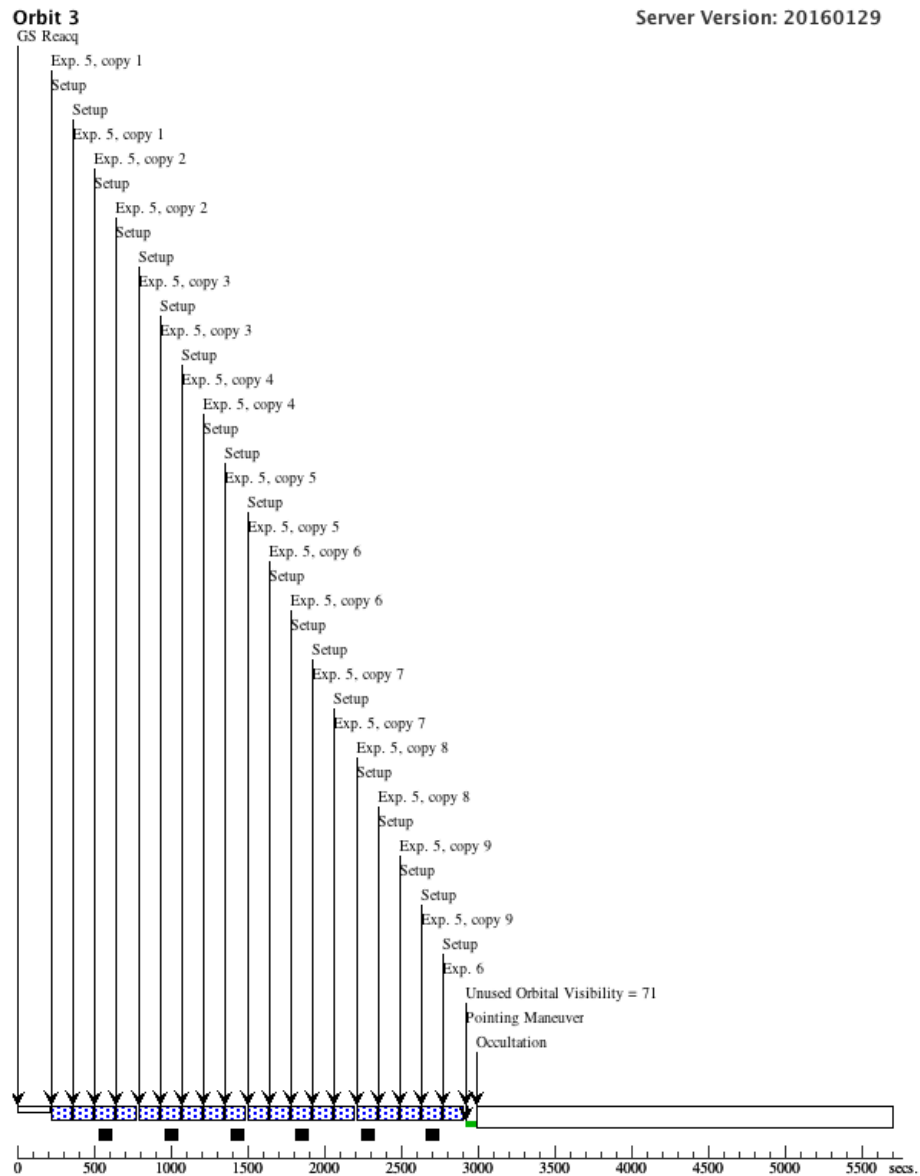
Proposal 13665 - Kepler-138 WFC3 G141 6 (06) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

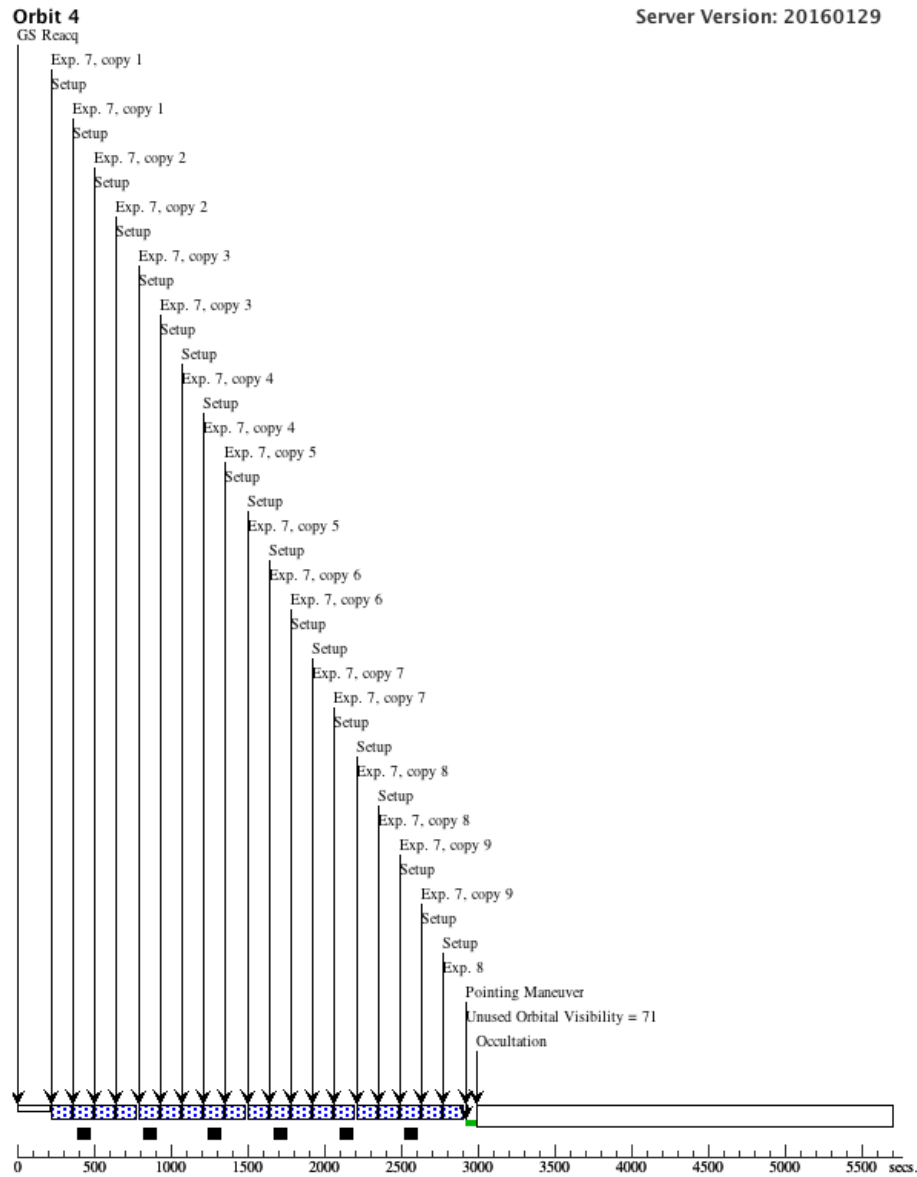
7	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG +1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees, Round trip	Sequence 7-8 Non-Int in Kepler-138_WFC3_G141_6 (06)	103.128633 Secs X 9 (1856.315 Secs)	
								[==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[4]
8	G141 Science Data Forward	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG +1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees, Forward	Sequence 7-8 Non-Int in Kepler-138_WFC3_G141_6 (06)	103.128633 Secs (103.129 Secs)	
								[==>]	[4]
9	G141 Science Data	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG +1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees, Round trip	Sequence 9-10 Non-Int in Kepler-138_WFC3_G141_6 (06)	103.128633 Secs X 9 (1856.315 Secs)	
								[==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[5]

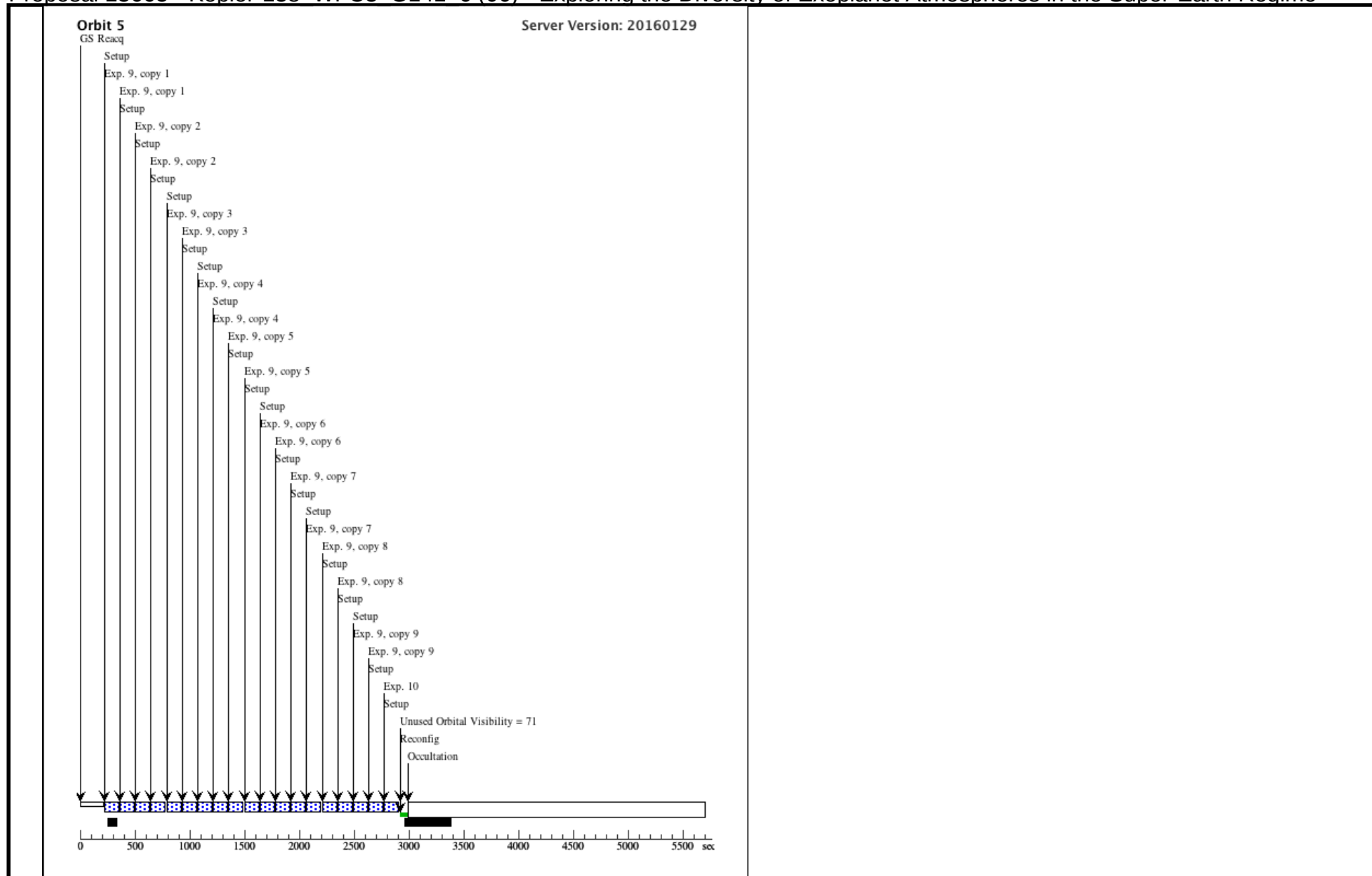
Proposal 13665 - Kepler-138 WFC3 G141 6 (06) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime									
10	G141 Science Data Forward	(5) KEPLER-138	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG +1.5,+1; SPATIAL SCAN 0.0 7,90.0 Degrees,Forward	Sequence 9-10 Non-Int in Kepler-138_WFC3_G141_6 (06)	103.128633 Secs (103.129 Secs) [==>]	[5]











Proposal 13665 - HD-97658 STIS G750L 1 (07) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, HD-97658_STIS_G750L_1 (07), completed Sun Apr 10 01:17:20 GMT 2016 Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; Period 9.489264 D AND ZERO-PHASE HJD2456665.46415 Comments: First (of four) STIS/G750L transit of HD 97658 b. These observations are designed to oversaturate the STIS CCD by a factor of ~2. Liberated charges will bleed along detector columns, but we will add up the "leaked" charge and recover all photoelectrons. It is essential for the five orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 and 4 in each HD97658 STIS visit observe HD97658 during the transit of HD97658b. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.9794-0.9819 in planet orbital phase, corresponding to a 34 minute interval. In order to also ensure complete coverage of the transit light curve when combining the four visits, the first visit has been scheduled to begin within the first 10 minutes of the phase windows and the second visit has been scheduled to begin in the last 10 min of the phase windows.. The remaining visits can be arbitrarily placed within the entire 0.9794-0.9819 phase window. If the first or second visits place a significant barrier to scheduling, the requirements for all visits and may be relaxed to 0.9794-0.9819 phase range. We disable auto-wavecalcs, which improves our observing efficiency and repeatability. We opt for only a single GO-wavecal (at the end of each visit) because the GO-wavecal requires a different aperture (52x0.2 instead of the 52x2 used for science observations). To minimize disruption to the observatory, we therefore defer the GO wavecal until the end of each visit. This strategy has been successfully employed in past programs, e.g. 12473 (PI Sing).															
	Fixed Targets <table> <tr> <th>#</th><th>Name</th><th>Target Coordinates</th><th>Targ. Coord. Corrections</th><th>Fluxes</th><th>Miscellaneous</th></tr> <tr> <td>(1)</td><td>HD-97658</td><td>RA: 11 14 33.1619 (168.6381746d) Dec: +25 42 37.39 (25.71039d) Equinox: J2000</td><td>Proper Motion RA: -106.48 mas/yr Proper Motion Dec: 48.82 mas/yr Epoch of Position: 2000</td><td>V=7.714 R=7.3, I=6.8, J=6.2, H=5.8</td><td>Reference Frame: ICRS</td></tr> </table> Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	HD-97658	RA: 11 14 33.1619 (168.6381746d) Dec: +25 42 37.39 (25.71039d) Equinox: J2000	Proper Motion RA: -106.48 mas/yr Proper Motion Dec: 48.82 mas/yr Epoch of Position: 2000	V=7.714 R=7.3, I=6.8, J=6.2, H=5.8
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(1)	HD-97658	RA: 11 14 33.1619 (168.6381746d) Dec: +25 42 37.39 (25.71039d) Equinox: J2000	Proper Motion RA: -106.48 mas/yr Proper Motion Dec: 48.82 mas/yr Epoch of Position: 2000	V=7.714 R=7.3, I=6.8, J=6.2, H=5.8	Reference Frame: ICRS											

Proposal 13665 - HD-97658 STIS G750L 1 (07) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ, phase constrained	(1) HD-97658	STIS/CCD, ACQ, F28X500II	MIRROR		PHASE 0.9794 TO 0.9801	Sequence 1-2 Non-Int in HD-97658_STIS_G750L_1 (07)	.7 Secs (0.7 Secs)	
									[==>]	[1]
	2	HD-97658 G750L Orbit 1	(1) HD-97658	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256; WAVECAL=NO		Sequence 1-2 Non-Int in HD-97658_STIS_G750L_1 (07)	40 Secs X 34 (1360 Secs)	
									[==>(Copy 1)]	
									[==>(Copy 2)]	
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										[1]

Proposal 13665 - HD-97658 STIS G750L 1 (07) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

3	HD-97658 G750L Orbit 2	(1) HD-97658	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256	Sequence 3-3 Non-Int in HD-97658_STIS _G750L_1 (07)	40 Secs X 42 (1680 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)] [==>(Copy 33)] [==>(Copy 34)] [==>(Copy 35)] [==>(Copy 36)] [==>(Copy 37)] [==>(Copy 38)] [==>(Copy 39)] [==>(Copy 40)] [==>(Copy 41)] [==>(Copy 42)]	[2]

Proposal 13665 - HD-97658 STIS G750L 1 (07) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

4	HD-97658 (1) HD-97658 G750L Orbit 3	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256	Sequence 4-4 Non-Int in HD-97658_STIS _G750L_1 (07)	40 Secs X 42 (1680 Secs)	
						[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)] [==>(Copy 33)] [==>(Copy 34)] [==>(Copy 35)] [==>(Copy 36)] [==>(Copy 37)] [==>(Copy 38)] [==>(Copy 39)] [==>(Copy 40)] [==>(Copy 41)] [==>(Copy 42)]	[3]

Proposal 13665 - HD-97658 STIS G750L 1 (07) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

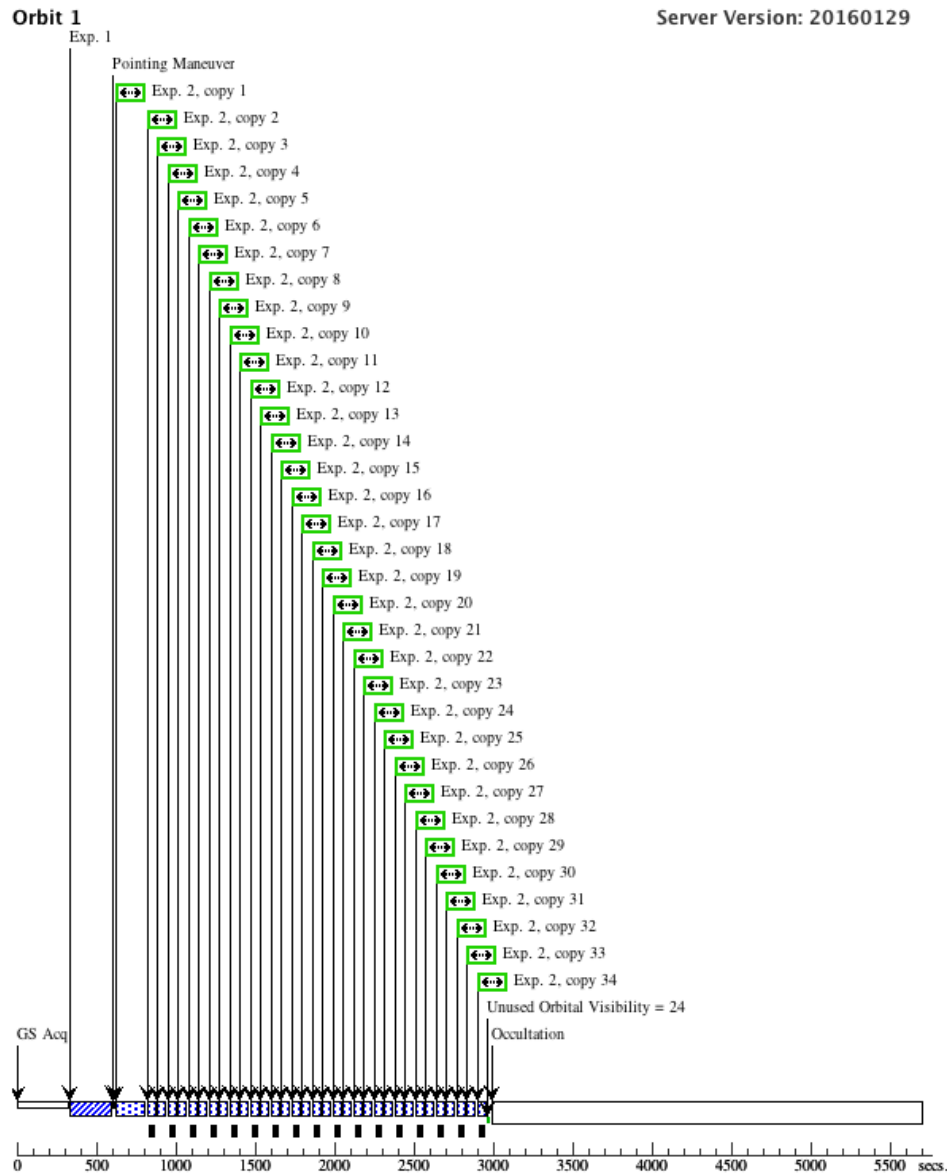
5	HD-97658 G750L Orbit 4	(1) HD-97658	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256	Sequence 5-5 Non-Int in HD-97658_STIS _G750L_1 (07)	40 Secs X 42 (1680 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)] [==>(Copy 33)] [==>(Copy 34)] [==>(Copy 35)] [==>(Copy 36)] [==>(Copy 37)] [==>(Copy 38)] [==>(Copy 39)] [==>(Copy 40)] [==>(Copy 41)] [==>(Copy 42)]	[4]

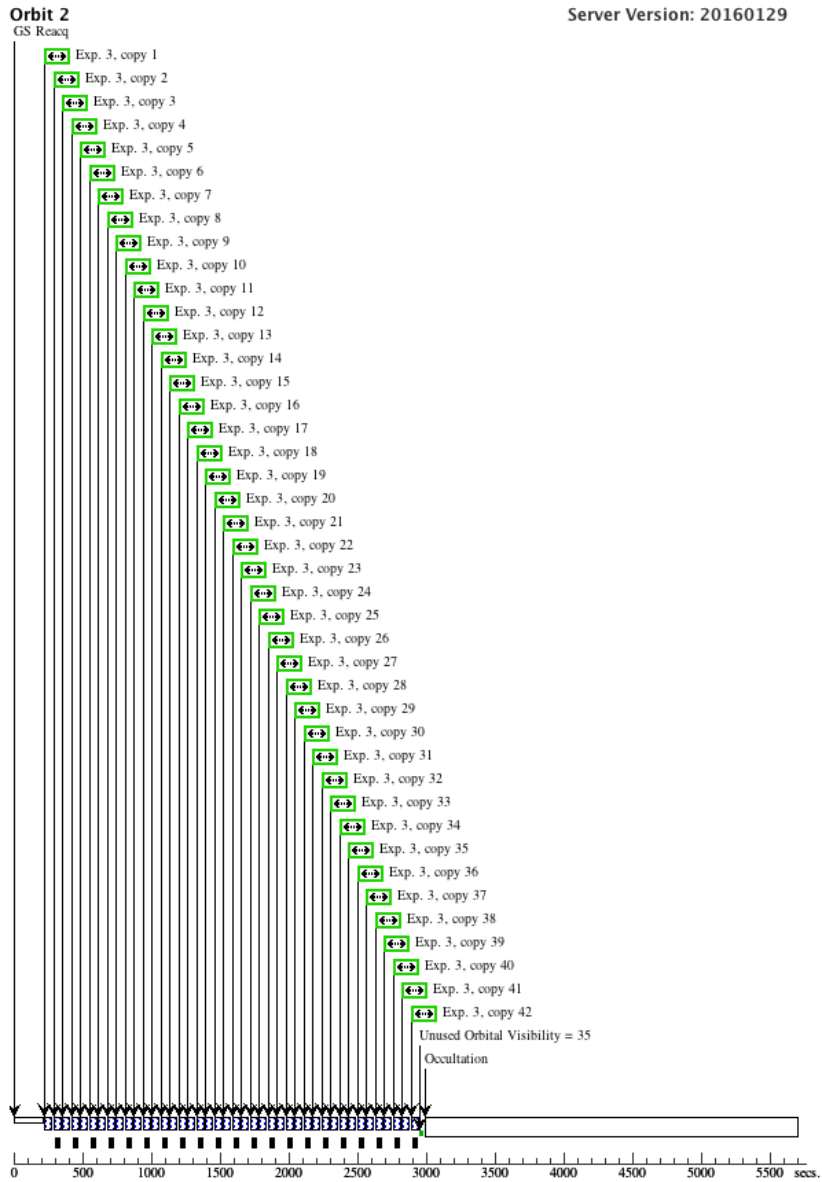
Proposal 13665 - HD-97658 STIS G750L 1 (07) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

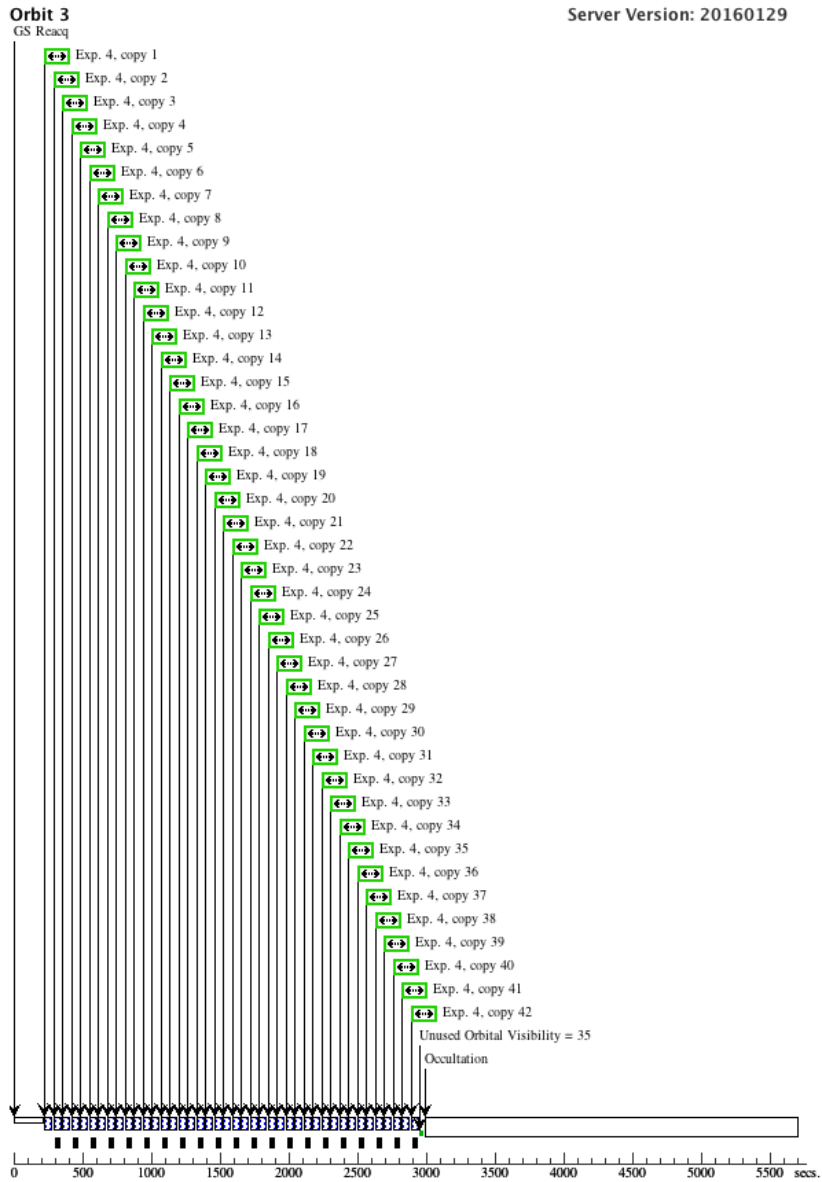
6	HD-97658 (1) HD-97658 G750L Orbit 5	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256	Sequence 6-8 Non-Int in HD-97658_STIS _G750L_1 (07)	40 Secs X 42 (1680 Secs)	
						[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)] [==>(Copy 33)] [==>(Copy 34)] [==>(Copy 35)] [==>(Copy 36)] [==>(Copy 37)] [==>(Copy 38)] [==>(Copy 39)] [==>(Copy 40)] [==>(Copy 41)] [==>(Copy 42)]	[5]

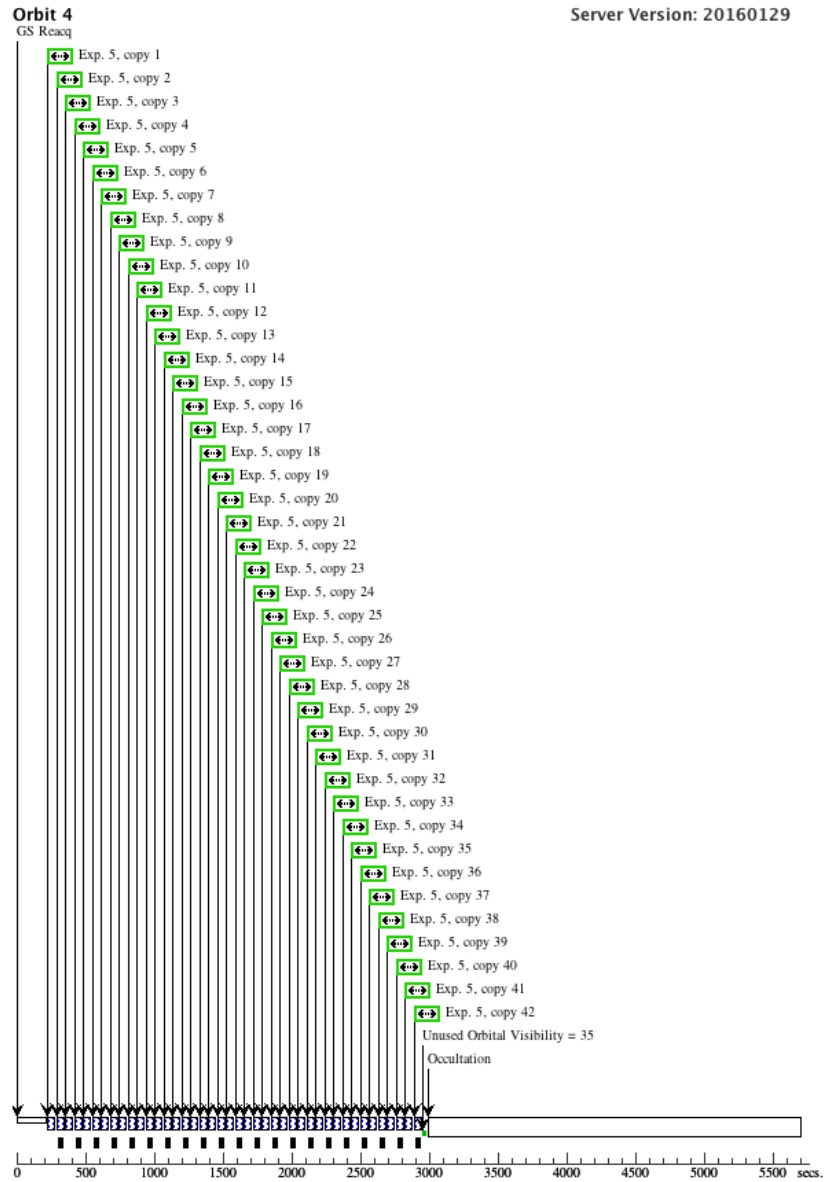
Proposal 13665 - HD-97658 STIS G750L 1 (07) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

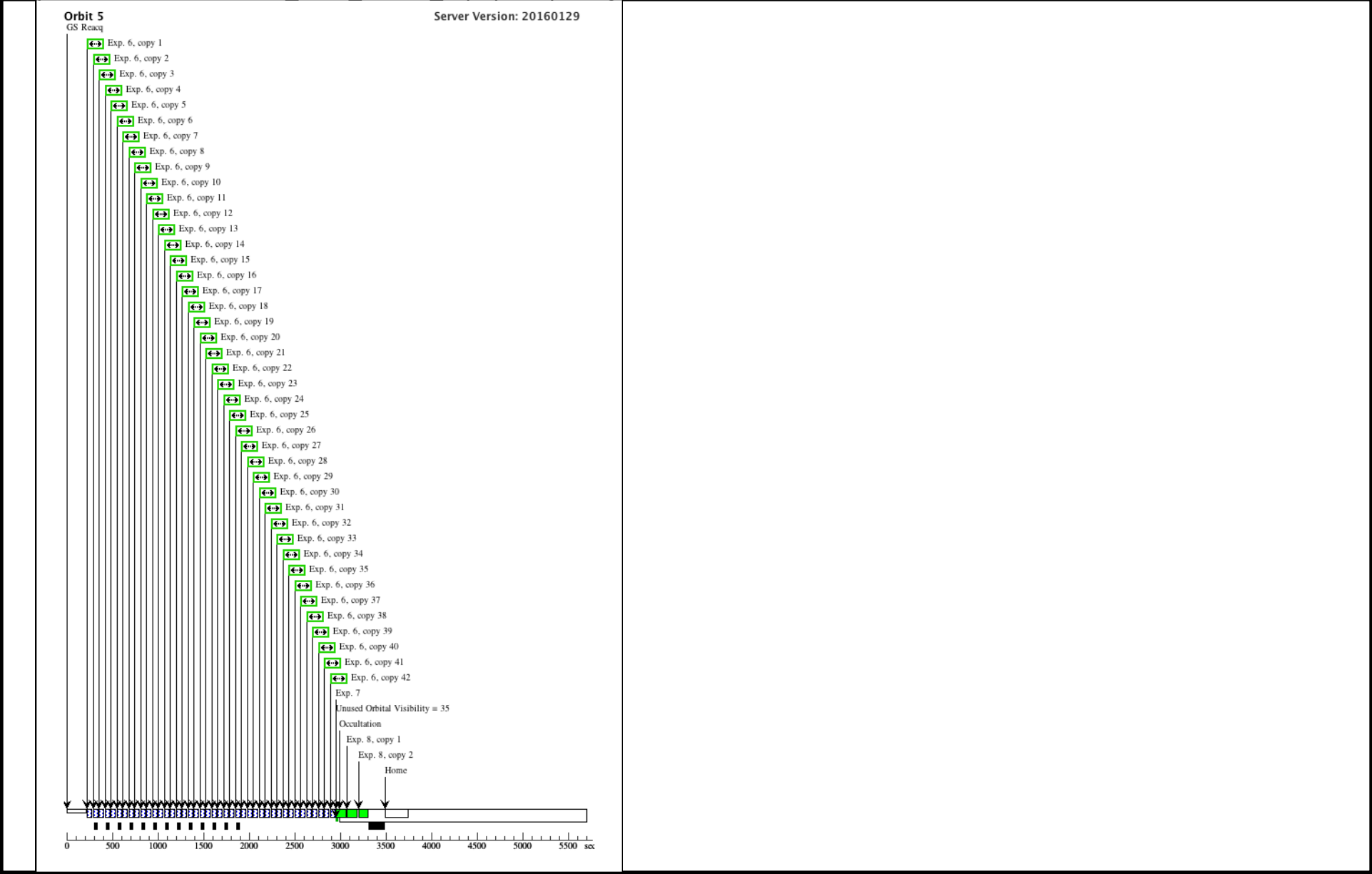
7	GO-WAVE WAVE CAL	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A	Sequence 6-8 Non-Int in HD-97658_STIS _G750L_1 (07)	[==>]	[5]
<i>Comments: Explicit WAVECAL, auto-waves disabled</i>						
8	Fringe Flat CCDFLAT	STIS/CCD, ACCUM, 0.3X0.09	G750L 7751 A	Sequence 6-8 Non-Int in HD-97658_STIS _G750L_1 (07)	[==>(Copy 1)] [==>(Copy 2)]	[5]











Proposal 13665 - HD-97658 STIS G750L 2 (08) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, HD-97658_STIS_G750L_2 (08), implementation					Sun Apr 10 01:17:20 GMT 2016
	Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; Period 9.489264 D AND ZERO-PHASE HJD2456665.46415 <i>Comments: Second (of four) STIS/G750L transit of HD 97658 b.</i> <i>These observations are designed to oversaturate the STIS CCD by a factor of ~2. Liberated charges will bleed along detector columns, but we will add up the "leaked" charge and recover all photoelectrons.</i> <i>It is essential for the five orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 and 4 in each HD97658 STIS visit observe HD97658 during the transit of HD97658b. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.9794-0.9819 in planet orbital phase, corresponding to a 34 minute interval. In order to also ensure complete coverage of the transit light curve when combining the four visits, the first visit has been scheduled to begin within the first 10 minutes of the phase windows and the second visit has been scheduled to begin in the last 10 min of the phase windows.. The remaining visits can be arbitrarily placed within the entire 0.9794-0.9819 phase window. If the first or second visits place a significant barrier to scheduling, the requirements for all visits and may be relaxed to 0.9794-0.9819 phase range.</i> <i>We disable auto-wavecalcs, which improves our observing efficiency and repeatability. We opt for only a single GO-wavecal (at the end of each visit) because the GO-wavecal requires a different aperture (52x0.2 instead of the 52x2 used for science observations). To minimize disruption to the observatory, we therefore defer the GO wavecal until the end of each visit. This strategy has been successfully employed in past programs, e.g. 12473 (PI Sing).</i>					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	HD-97658	RA: 11 14 33.1619 (168.6381746d) Dec: +25 42 37.39 (25.71039d) Equinox: J2000	Proper Motion RA: -106.48 mas/yr Proper Motion Dec: 48.82 mas/yr Epoch of Position: 2000	V=7.714 R=7.3, I=6.8, J=6.2, H=5.8	Reference Frame: ICRS
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 13665 - HD-97658 STIS G750L 2 (08) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ, phase constrained	(1) HD-97658	STIS/CCD, ACQ, F28X500II	MIRROR		PHASE 0.9812 TO 0.9819	Sequence 1-2 Non-Int in HD-97658_STIS_G750L_2 (08)	.7 Secs (0.7 Secs)	
									[==>]	[1]
	2	HD-97658 G750L Orbit 1	(1) HD-97658	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256; WAVECAL=NO		Sequence 1-2 Non-Int in HD-97658_STIS_G750L_2 (08)	40 Secs X 34 (1360 Secs)	
									[==>(Copy 1)]	
									[==>(Copy 2)]	
									[==>(Copy 3)]	
									[==>(Copy 4)]	
									[==>(Copy 5)]	
									[==>(Copy 6)]	
									[==>(Copy 7)]	
									[==>(Copy 8)]	
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									[==>(Copy 10)]	
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									[==>(Copy 31)]	
									[==>(Copy 32)]	
									[==>(Copy 33)]	
									[==>(Copy 34)]	
										[1]

Proposal 13665 - HD-97658 STIS G750L 2 (08) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

3	HD-97658 G750L Orbit 2	(1) HD-97658	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256	Sequence 3-3 Non-Int in HD-97658_STIS _G750L_2 (08)	40 Secs X 42 (1680 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)] [==>(Copy 33)] [==>(Copy 34)] [==>(Copy 35)] [==>(Copy 36)] [==>(Copy 37)] [==>(Copy 38)] [==>(Copy 39)] [==>(Copy 40)] [==>(Copy 41)] [==>(Copy 42)]	[2]

Proposal 13665 - HD-97658 STIS G750L 2 (08) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

4	HD-97658 G750L Orbit 3	(1) HD-97658	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256	Sequence 4-4 Non-Int in HD-97658_STIS _G750L_2 (08)	40 Secs X 42 (1680 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)] [==>(Copy 33)] [==>(Copy 34)] [==>(Copy 35)] [==>(Copy 36)] [==>(Copy 37)] [==>(Copy 38)] [==>(Copy 39)] [==>(Copy 40)] [==>(Copy 41)] [==>(Copy 42)]	[3]

Proposal 13665 - HD-97658 STIS G750L 2 (08) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

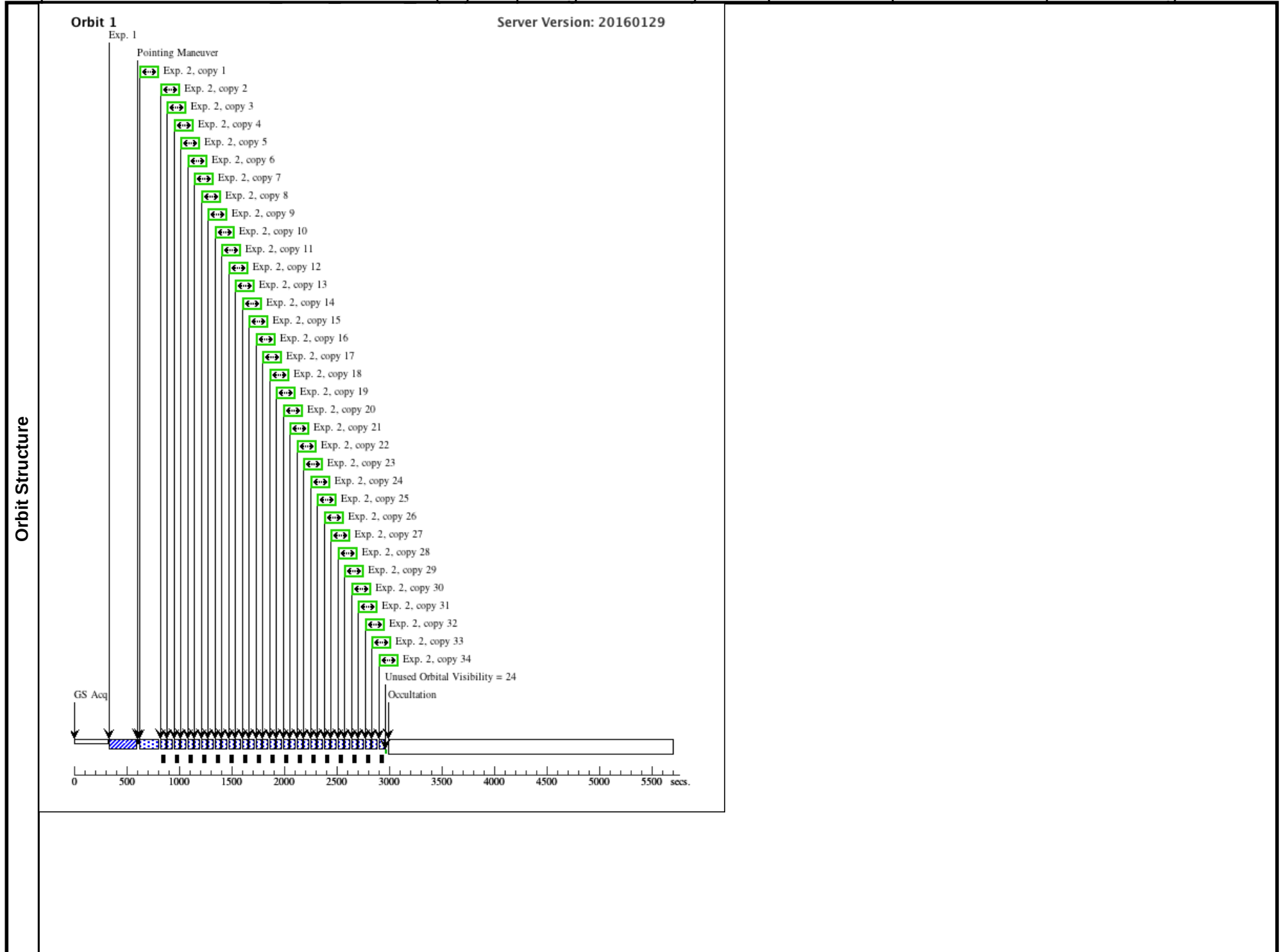
5	HD-97658 G750L Orbit 4	(1) HD-97658	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256	Sequence 5-5 Non-Int in HD-97658_STIS _G750L_2 (08)	40 Secs X 42 (1680 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)] [==>(Copy 33)] [==>(Copy 34)] [==>(Copy 35)] [==>(Copy 36)] [==>(Copy 37)] [==>(Copy 38)] [==>(Copy 39)] [==>(Copy 40)] [==>(Copy 41)] [==>(Copy 42)]	[4]

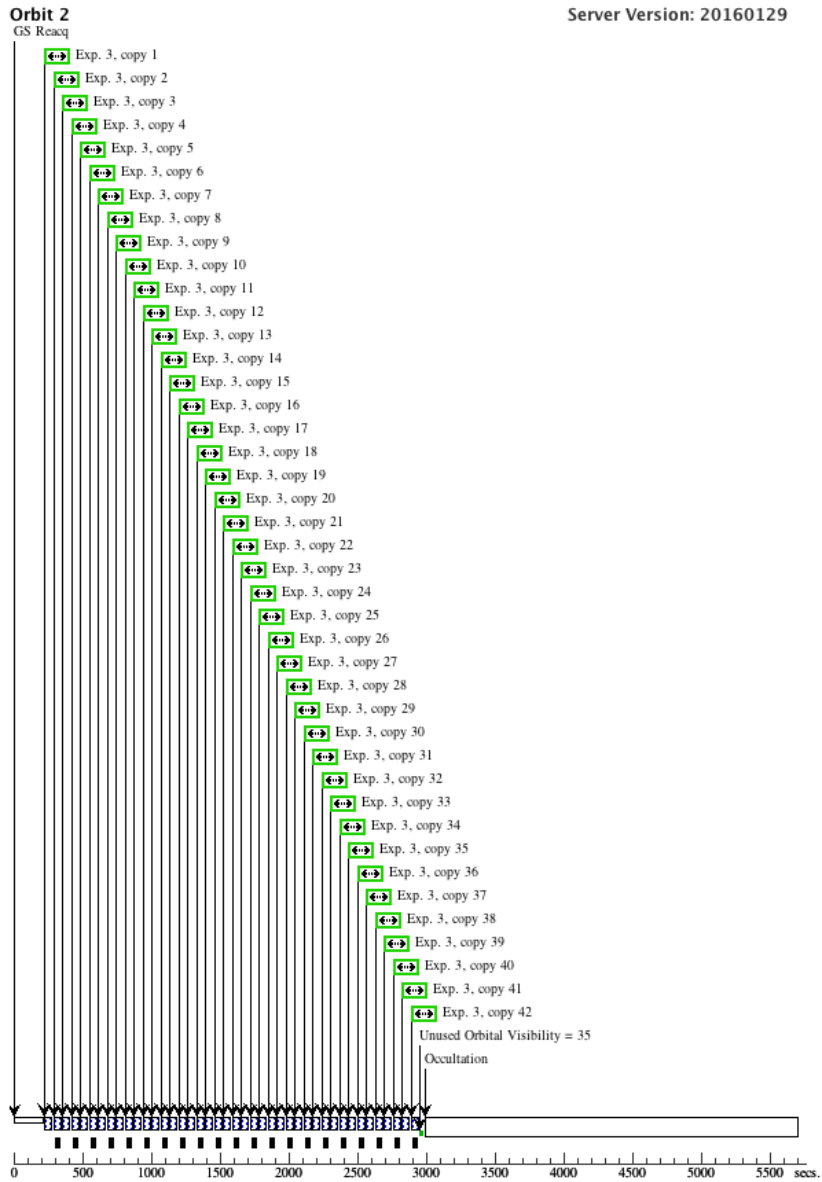
Proposal 13665 - HD-97658 STIS G750L 2 (08) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

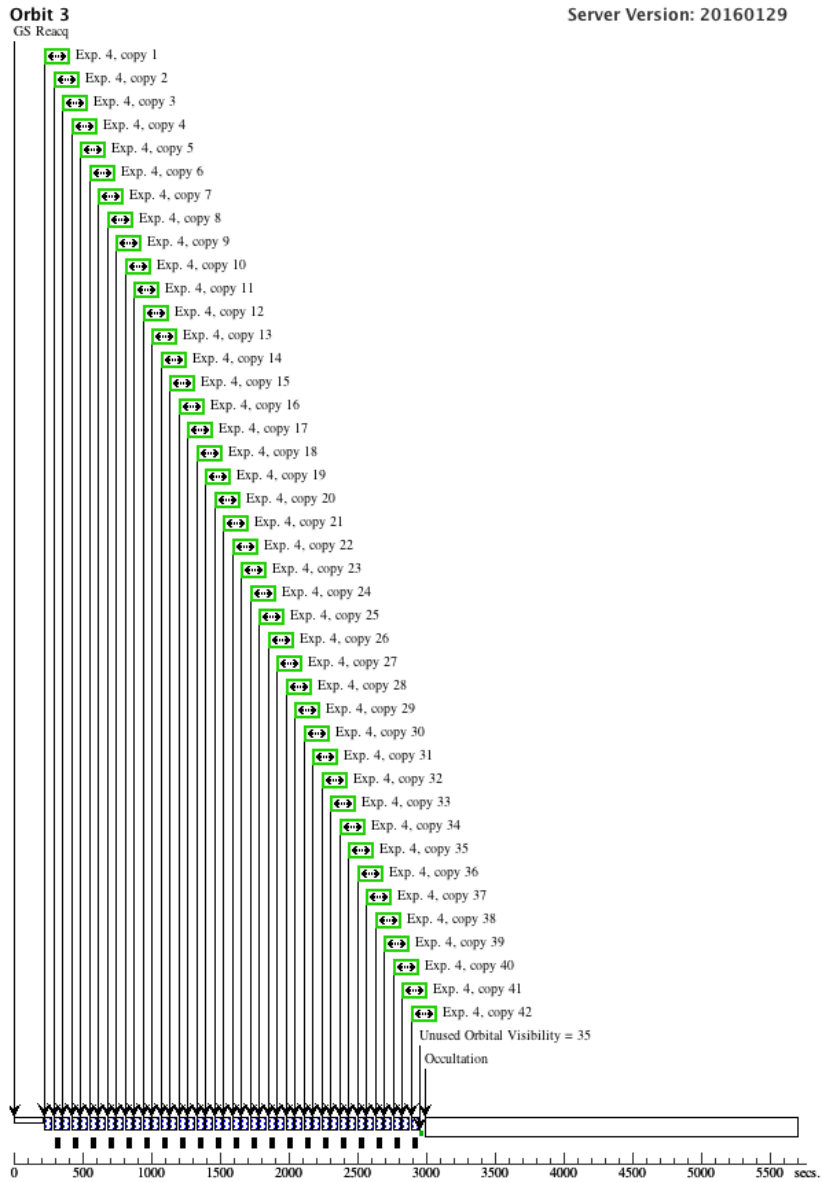
6	HD-97658 G750L Orbit 5	(1) HD-97658	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256	Sequence 6-8 Non-Int in HD-97658_STIS _G750L_2 (08)	40 Secs X 42 (1680 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)] [==>(Copy 33)] [==>(Copy 34)] [==>(Copy 35)] [==>(Copy 36)] [==>(Copy 37)] [==>(Copy 38)] [==>(Copy 39)] [==>(Copy 40)] [==>(Copy 41)] [==>(Copy 42)]	[5]

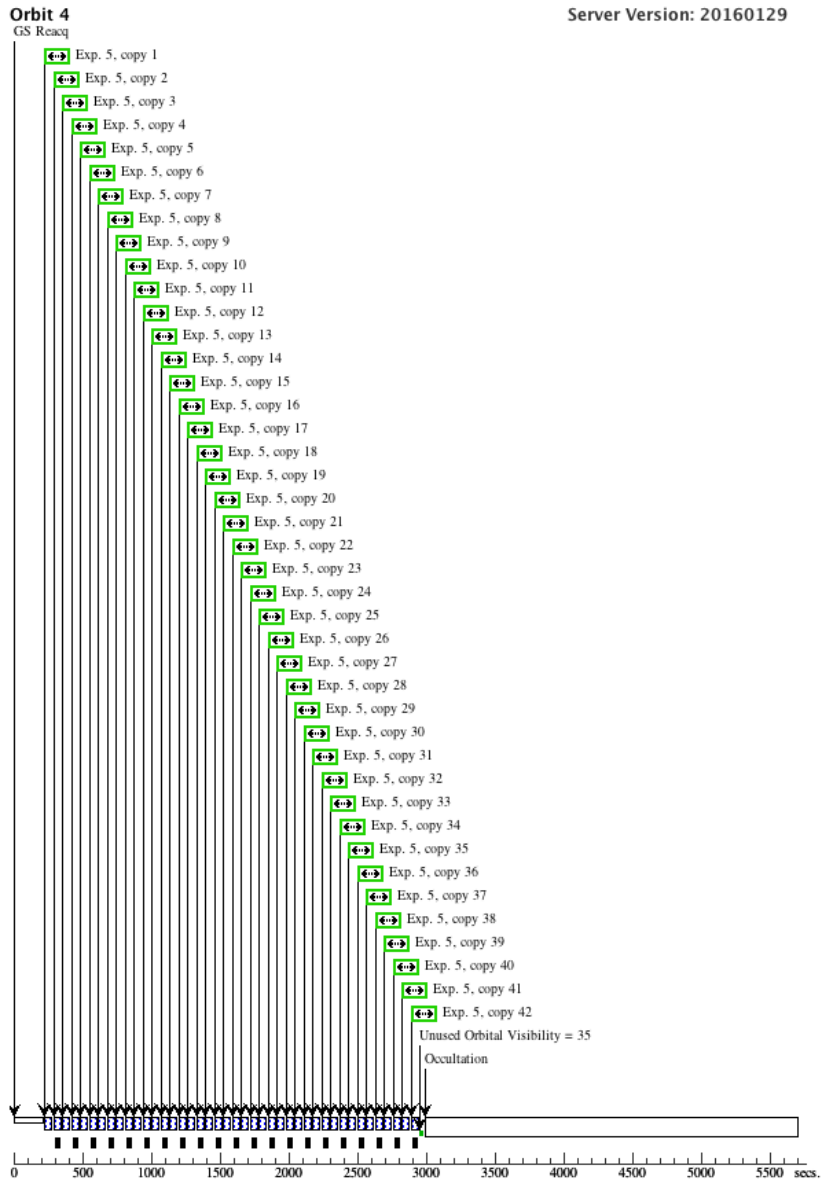
Proposal 13665 - HD-97658 STIS G750L 2 (08) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

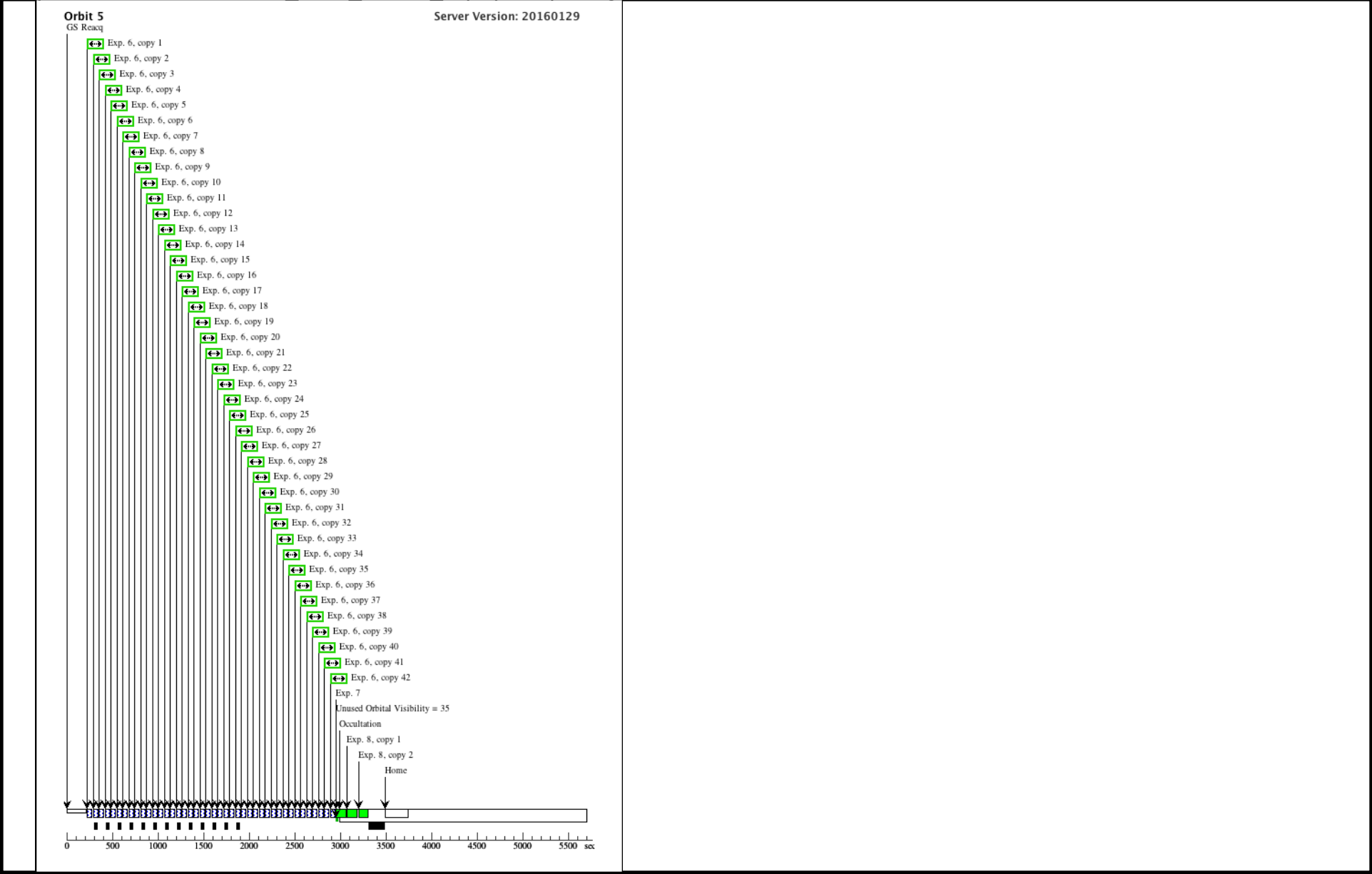
7	GO-WAVE WAVE CAL	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A	Sequence 6-8 Non-Int in HD-97658_STIS _G750L_2 (08)	[==>]	[5]
<i>Comments: Explicit WAVECAL, auto-waves disabled</i>						
8	Fringe Flat CCDFLAT	STIS/CCD, ACCUM, 0.3X0.09	G750L 7751 A	Sequence 6-8 Non-Int in HD-97658_STIS _G750L_2 (08)	[==>(Copy 1)] [==>(Copy 2)]	[5]











Proposal 13665 - HD-97658 STIS G750L 3 (09) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, HD-97658_STIS_G750L_3 (09), completed Sun Apr 10 01:17:21 GMT 2016 Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; Period 9.489264 D AND ZERO-PHASE HJD2456665.46415 Comments: Third (of four) STIS/G750L transit of HD 97658 b. These observations are designed to oversaturate the STIS CCD by a factor of ~2. Liberated charges will bleed along detector columns, but we will add up the "leaked" charge and recover all photoelectrons. It is essential for the five orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 and 4 in each HD97658 STIS visit observe HD97658 during the transit of HD97658b. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.9794-0.9819 in planet orbital phase, corresponding to a 34 minute interval. In order to also ensure complete coverage of the transit light curve when combining the four visits, the first visit has been scheduled to begin within the first 10 minutes of the phase windows and the second visit has been scheduled to begin in the last 10 min of the phase windows.. The remaining visits can be arbitrarily placed within the entire 0.9794-0.9819 phase window. If the first or second visits place a significant barrier to scheduling, the requirements for all visits and may be relaxed to 0.9794-0.9819 phase range. We disable auto-wavecalcs, which improves our observing efficiency and repeatability. We opt for only a single GO-wavecal (at the end of each visit) because the GO-wavecal requires a different aperture (52x0.2 instead of the 52x2 used for science observations). To minimize disruption to the observatory, we therefore defer the GO wavecal until the end of each visit. This strategy has been successfully employed in past programs, e.g. 12473 (PI Sing).															
	Fixed Targets <table> <tr> <th>#</th><th>Name</th><th>Target Coordinates</th><th>Targ. Coord. Corrections</th><th>Fluxes</th><th>Miscellaneous</th></tr> <tr> <td>(1)</td><td>HD-97658</td><td>RA: 11 14 33.1619 (168.6381746d) Dec: +25 42 37.39 (25.71039d) Equinox: J2000</td><td>Proper Motion RA: -106.48 mas/yr Proper Motion Dec: 48.82 mas/yr Epoch of Position: 2000</td><td>V=7.714 R=7.3, I=6.8, J=6.2, H=5.8</td><td>Reference Frame: ICRS</td></tr> </table> Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	HD-97658	RA: 11 14 33.1619 (168.6381746d) Dec: +25 42 37.39 (25.71039d) Equinox: J2000	Proper Motion RA: -106.48 mas/yr Proper Motion Dec: 48.82 mas/yr Epoch of Position: 2000	V=7.714 R=7.3, I=6.8, J=6.2, H=5.8
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(1)	HD-97658	RA: 11 14 33.1619 (168.6381746d) Dec: +25 42 37.39 (25.71039d) Equinox: J2000	Proper Motion RA: -106.48 mas/yr Proper Motion Dec: 48.82 mas/yr Epoch of Position: 2000	V=7.714 R=7.3, I=6.8, J=6.2, H=5.8	Reference Frame: ICRS											

Proposal 13665 - HD-97658 STIS G750L 3 (09) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ, phase constrained	(1) HD-97658	STIS/CCD, ACQ, F28X50OII	MIRROR		PHASE 0.9794 TO 0.9819	Sequence 1-2 Non-Int in HD-97658_STIS_G750L_3 (09)	.7 Secs (0.7 Secs)	
									[==>]	[1]
	2	HD-97658 G750L Orbit 1	(1) HD-97658	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256; WAVECAL=NO		Sequence 1-2 Non-Int in HD-97658_STIS_G750L_3 (09)	40 Secs X 34 (1360 Secs)	
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										[1]

Proposal 13665 - HD-97658 STIS G750L 3 (09) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

3	HD-97658 G750L Orbit 2	(1) HD-97658	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256	Sequence 3-3 Non-Int in HD-97658_STIS _G750L_3 (09)	40 Secs X 42 (1680 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)] [==>(Copy 33)] [==>(Copy 34)] [==>(Copy 35)] [==>(Copy 36)] [==>(Copy 37)] [==>(Copy 38)] [==>(Copy 39)] [==>(Copy 40)] [==>(Copy 41)] [==>(Copy 42)]	[2]

Proposal 13665 - HD-97658 STIS G750L 3 (09) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

4	HD-97658 G750L Orbit 3	(1) HD-97658	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256	Sequence 4-4 Non-Int in HD-97658_STIS _G750L_3 (09)	40 Secs X 42 (1680 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)] [==>(Copy 33)] [==>(Copy 34)] [==>(Copy 35)] [==>(Copy 36)] [==>(Copy 37)] [==>(Copy 38)] [==>(Copy 39)] [==>(Copy 40)] [==>(Copy 41)] [==>(Copy 42)]	[3]

Proposal 13665 - HD-97658 STIS G750L 3 (09) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

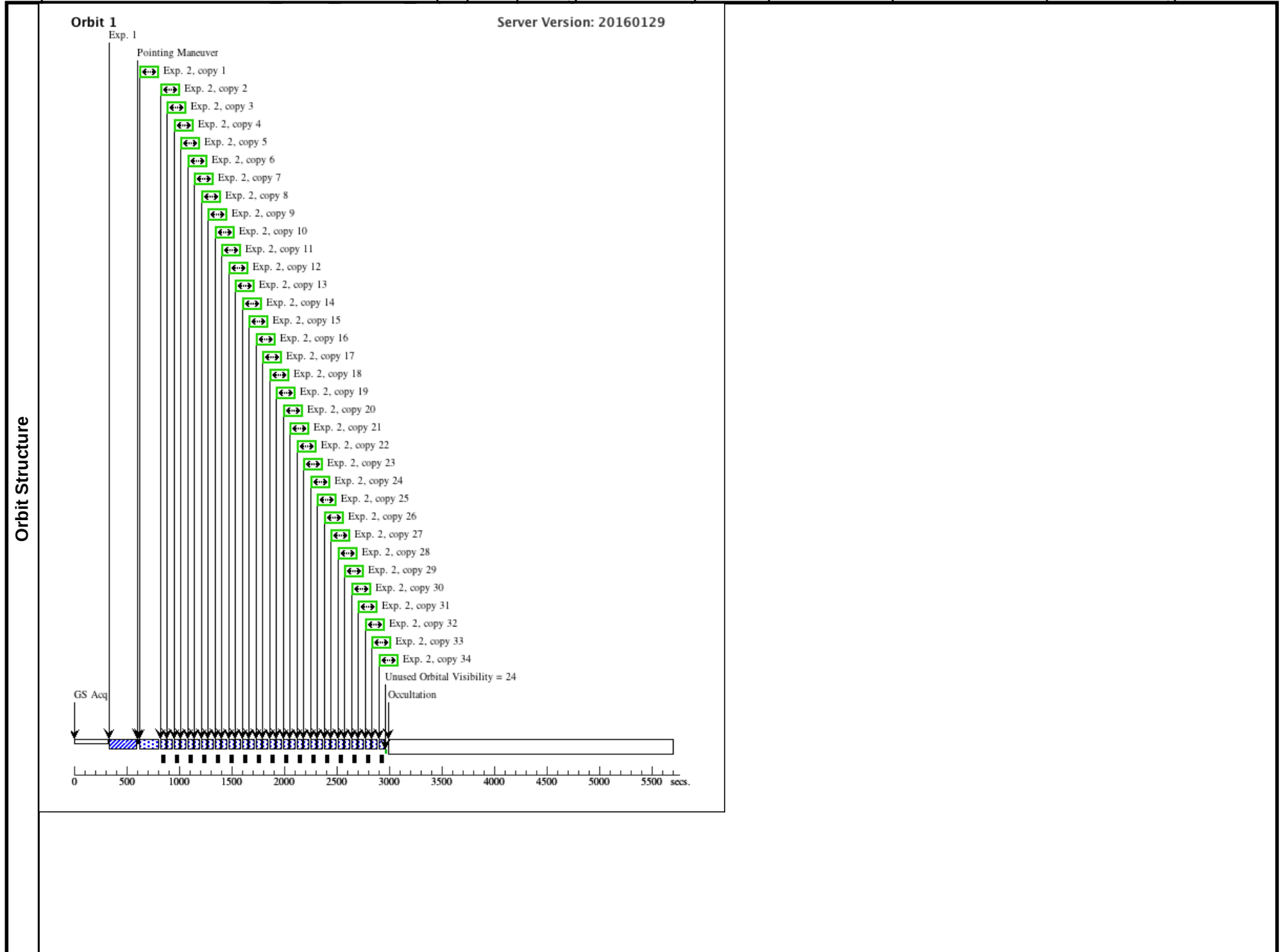
5	HD-97658 (1) HD-97658 G750L Orbit 4	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256	Sequence 5-5 Non-Int in HD-97658_STIS _G750L_3 (09)	40 Secs X 42 (1680 Secs)	
						[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)] [==>(Copy 33)] [==>(Copy 34)] [==>(Copy 35)] [==>(Copy 36)] [==>(Copy 37)] [==>(Copy 38)] [==>(Copy 39)] [==>(Copy 40)] [==>(Copy 41)] [==>(Copy 42)]	[4]

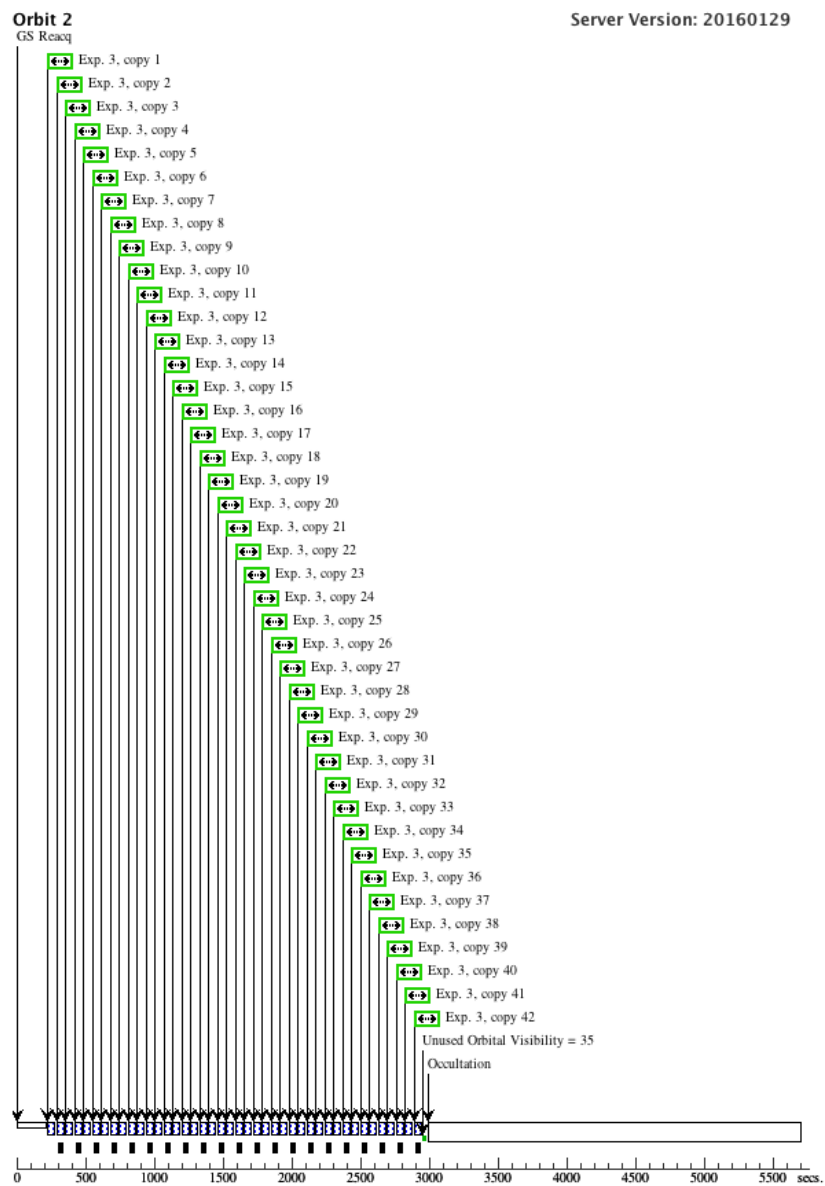
Proposal 13665 - HD-97658 STIS G750L 3 (09) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

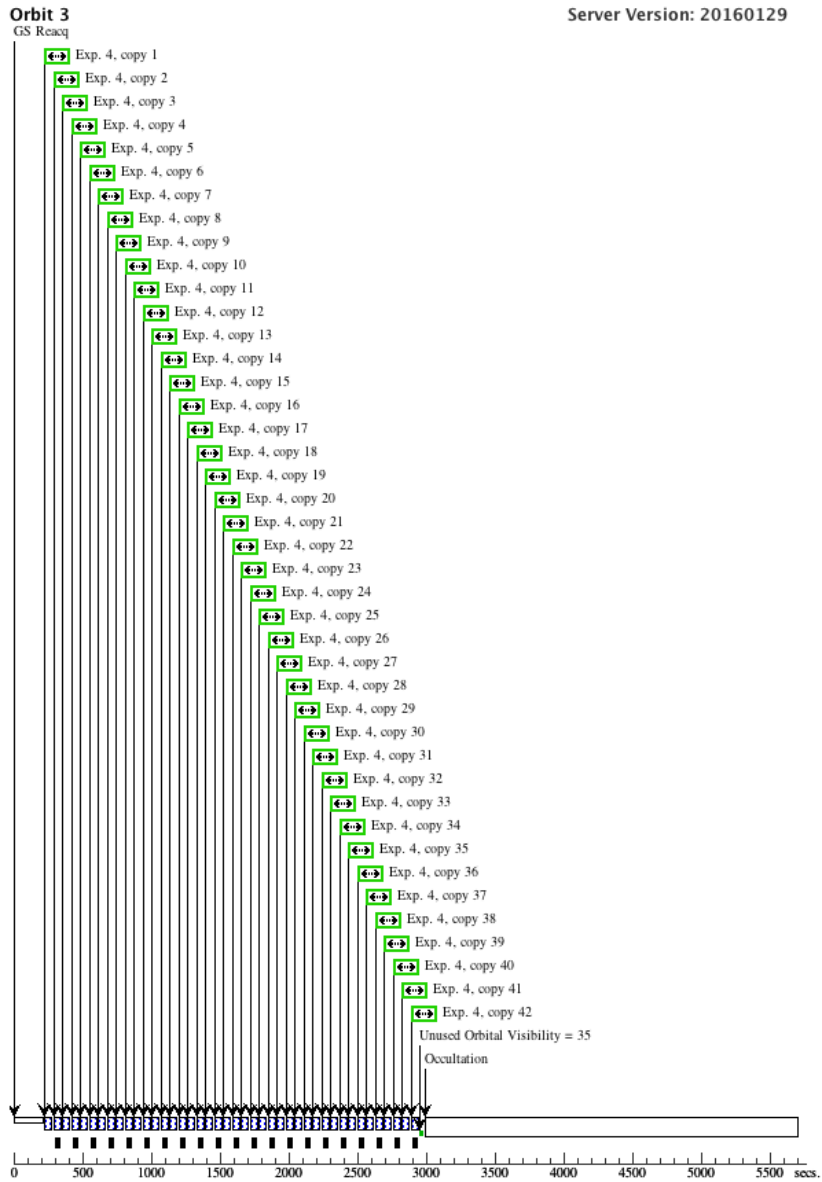
6	HD-97658 G750L Orbit 5	(1) HD-97658	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256	Sequence 6-8 Non-Int in HD-97658_STIS _G750L_3 (09)	40 Secs X 42 (1680 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)] [==>(Copy 33)] [==>(Copy 34)] [==>(Copy 35)] [==>(Copy 36)] [==>(Copy 37)] [==>(Copy 38)] [==>(Copy 39)] [==>(Copy 40)] [==>(Copy 41)] [==>(Copy 42)]	[5]

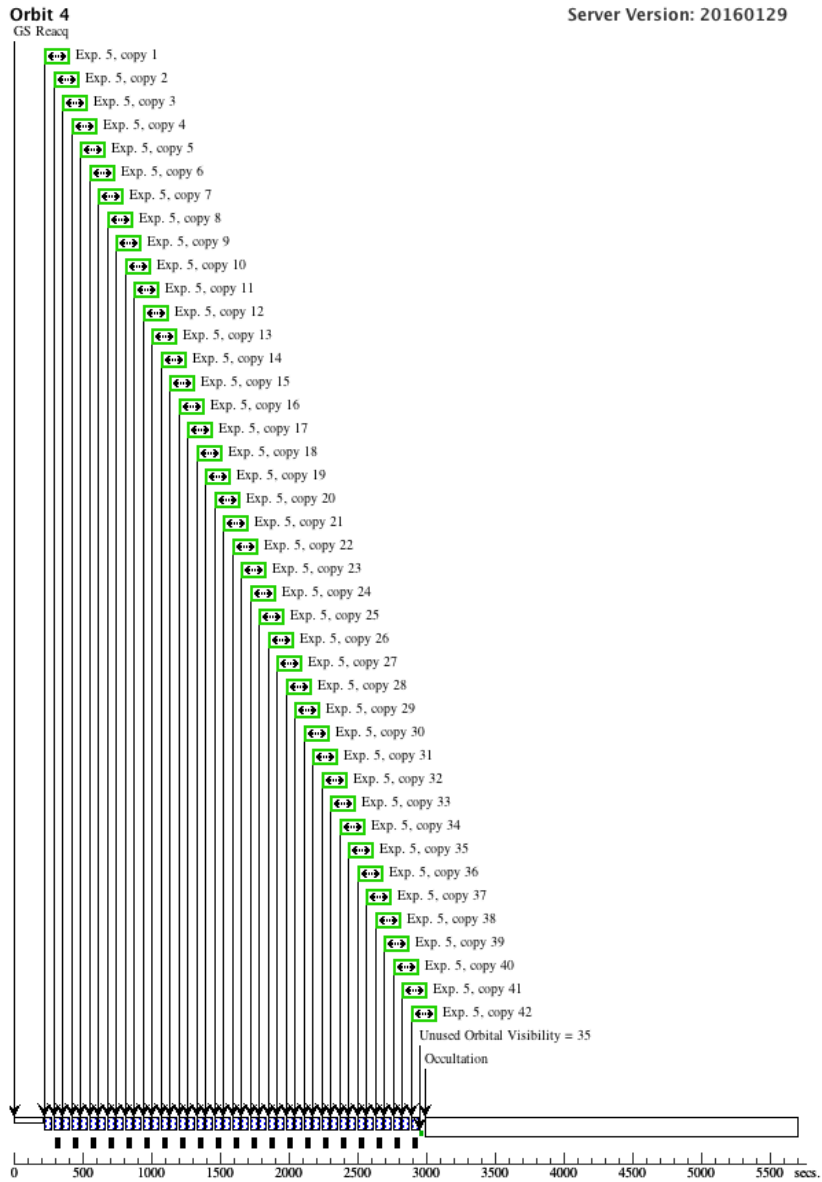
Proposal 13665 - HD-97658 STIS G750L 3 (09) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

7	GO-WAVE WAVE CAL	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A	Sequence 6-8 Non-Int in HD-97658_STIS _G750L_3 (09)	[==>]	[5]
<i>Comments: Explicit WAVECAL, auto-waves disabled</i>						
8	Fringe Flat CCDFLAT	STIS/CCD, ACCUM, 0.3X0.09	G750L 7751 A	Sequence 6-8 Non-Int in HD-97658_STIS _G750L_3 (09)	[==>(Copy 1)] [==>(Copy 2)]	[5]

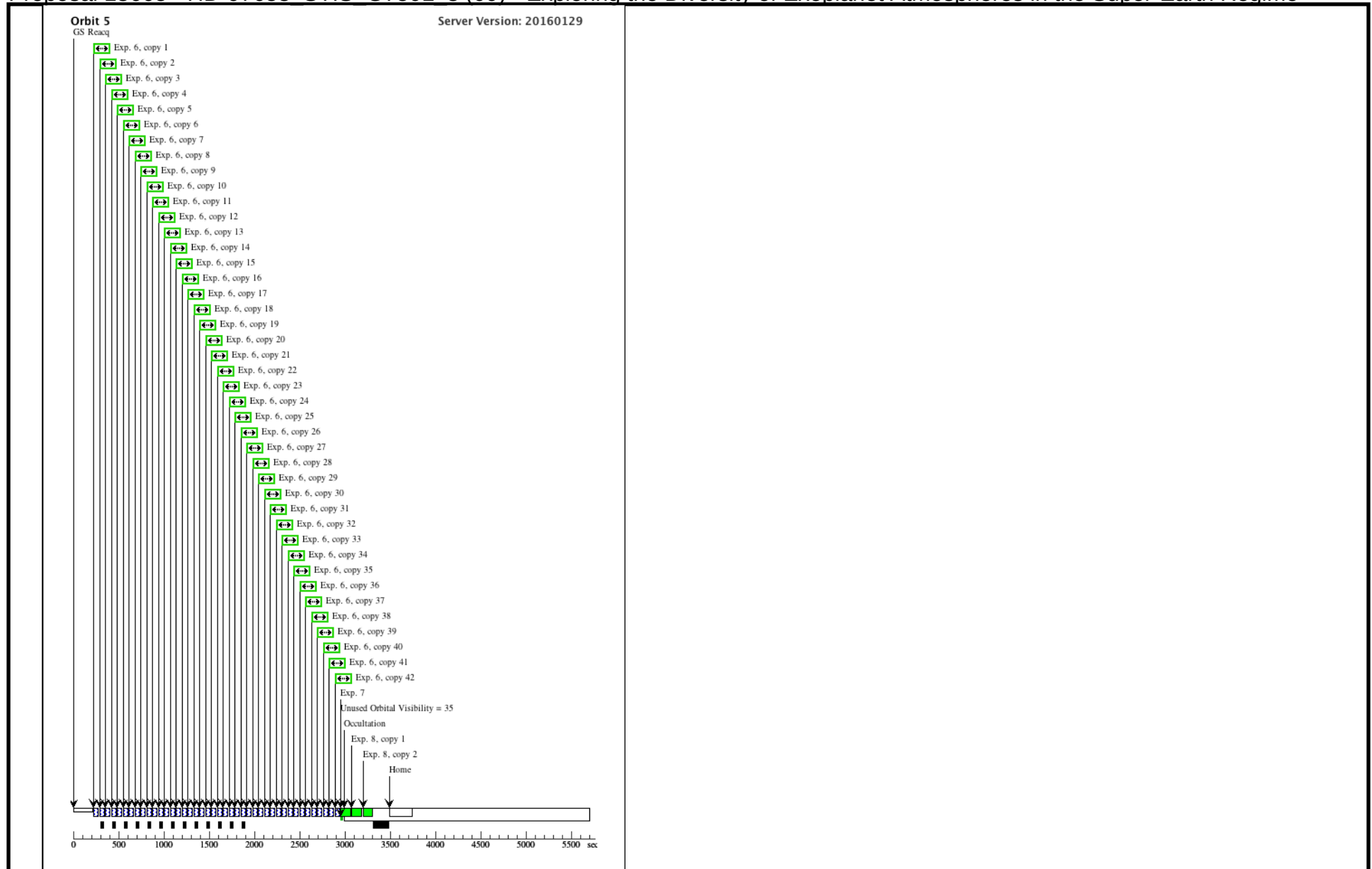








Proposal 13665 - HD-97658 STIS G750L 3 (09) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime



Proposal 13665 - HD-97658 STIS G750L 4 (10) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, HD-97658_STIS_G750L_4 (10), completed Sun Apr 10 01:17:21 GMT 2016 Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; Period 9.489264 D AND ZERO-PHASE HJD2456665.46415 Comments: Fourth (of four) STIS/G750L transit of HD 97658 b. These observations are designed to oversaturate the STIS CCD by a factor of ~2. Liberated charges will bleed along detector columns, but we will add up the "leaked" charge and recover all photoelectrons. It is essential for the five orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 and 4 in each HD97658 STIS visit observe HD97658 during the transit of HD97658b. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.9794-0.9819 in planet orbital phase, corresponding to a 34 minute interval. In order to also ensure complete coverage of the transit light curve when combining the four visits, the first visit has been scheduled to begin within the first 10 minutes of the phase windows and the second visit has been scheduled to begin in the last 10 min of the phase windows.. The remaining visits can be arbitrarily placed within the entire 0.9794-0.9819 phase window. If the first or second visits place a significant barrier to scheduling, the requirements for all visits and may be relaxed to 0.9794-0.9819 phase range. We disable auto-wavecalcs, which improves our observing efficiency and repeatability. We opt for only a single GO-wavecal (at the end of each visit) because the GO-wavecal requires a different aperture (52x0.2 instead of the 52x2 used for science observations). To minimize disruption to the observatory, we therefore defer the GO wavecal until the end of each visit. This strategy has been successfully employed in past programs, e.g. 12473 (PI Sing).															
	Fixed Targets <table> <tr> <th>#</th><th>Name</th><th>Target Coordinates</th><th>Targ. Coord. Corrections</th><th>Fluxes</th><th>Miscellaneous</th></tr> <tr> <td>(1)</td><td>HD-97658</td><td>RA: 11 14 33.1619 (168.6381746d) Dec: +25 42 37.39 (25.71039d) Equinox: J2000</td><td>Proper Motion RA: -106.48 mas/yr Proper Motion Dec: 48.82 mas/yr Epoch of Position: 2000</td><td>V=7.714 R=7.3, I=6.8, J=6.2, H=5.8</td><td>Reference Frame: ICRS</td></tr> </table> Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	HD-97658	RA: 11 14 33.1619 (168.6381746d) Dec: +25 42 37.39 (25.71039d) Equinox: J2000	Proper Motion RA: -106.48 mas/yr Proper Motion Dec: 48.82 mas/yr Epoch of Position: 2000	V=7.714 R=7.3, I=6.8, J=6.2, H=5.8
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(1)	HD-97658	RA: 11 14 33.1619 (168.6381746d) Dec: +25 42 37.39 (25.71039d) Equinox: J2000	Proper Motion RA: -106.48 mas/yr Proper Motion Dec: 48.82 mas/yr Epoch of Position: 2000	V=7.714 R=7.3, I=6.8, J=6.2, H=5.8	Reference Frame: ICRS											

Proposal 13665 - HD-97658 STIS G750L 4 (10) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ, phase constrained	(1) HD-97658	STIS/CCD, ACQ, F28X50OII	MIRROR		PHASE 0.9794 TO 0.9819	Sequence 1-2 Non-Int in HD-97658_STIS_G750L_4 (10)	.7 Secs (0.7 Secs)	
									[==>]	[1]
Exposures	2	HD-97658 G750L Orbit 1	(1) HD-97658	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256; WAVECAL=NO		Sequence 1-2 Non-Int in HD-97658_STIS_G750L_4 (10)	40 Secs X 34 (1360 Secs)	
									[==>(Copy 1)]	
									[==>(Copy 2)]	
									[==>(Copy 3)]	
									[==>(Copy 4)]	
									[==>(Copy 5)]	
									[==>(Copy 6)]	
									[==>(Copy 7)]	
									[==>(Copy 8)]	
									[==>(Copy 9)]	
									[==>(Copy 10)]	
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									[==>(Copy 30)]	
									[==>(Copy 31)]	
									[==>(Copy 32)]	
									[==>(Copy 33)]	
									[==>(Copy 34)]	
										[1]

Proposal 13665 - HD-97658 STIS G750L 4 (10) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

3	HD-97658 G750L Orbit 2	(1) HD-97658	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256	Sequence 3-3 Non-Int in HD-97658_STIS _G750L_4 (10)	40 Secs X 42 (1680 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)] [==>(Copy 33)] [==>(Copy 34)] [==>(Copy 35)] [==>(Copy 36)] [==>(Copy 37)] [==>(Copy 38)] [==>(Copy 39)] [==>(Copy 40)] [==>(Copy 41)] [==>(Copy 42)]	[2]

Proposal 13665 - HD-97658 STIS G750L 4 (10) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

4	HD-97658 G750L Orbit 3	(1) HD-97658	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256	Sequence 4-4 Non-Int in HD-97658_STIS _G750L_4 (10)	40 Secs X 42 (1680 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)] [==>(Copy 33)] [==>(Copy 34)] [==>(Copy 35)] [==>(Copy 36)] [==>(Copy 37)] [==>(Copy 38)] [==>(Copy 39)] [==>(Copy 40)] [==>(Copy 41)] [==>(Copy 42)]	[3]

Proposal 13665 - HD-97658 STIS G750L 4 (10) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

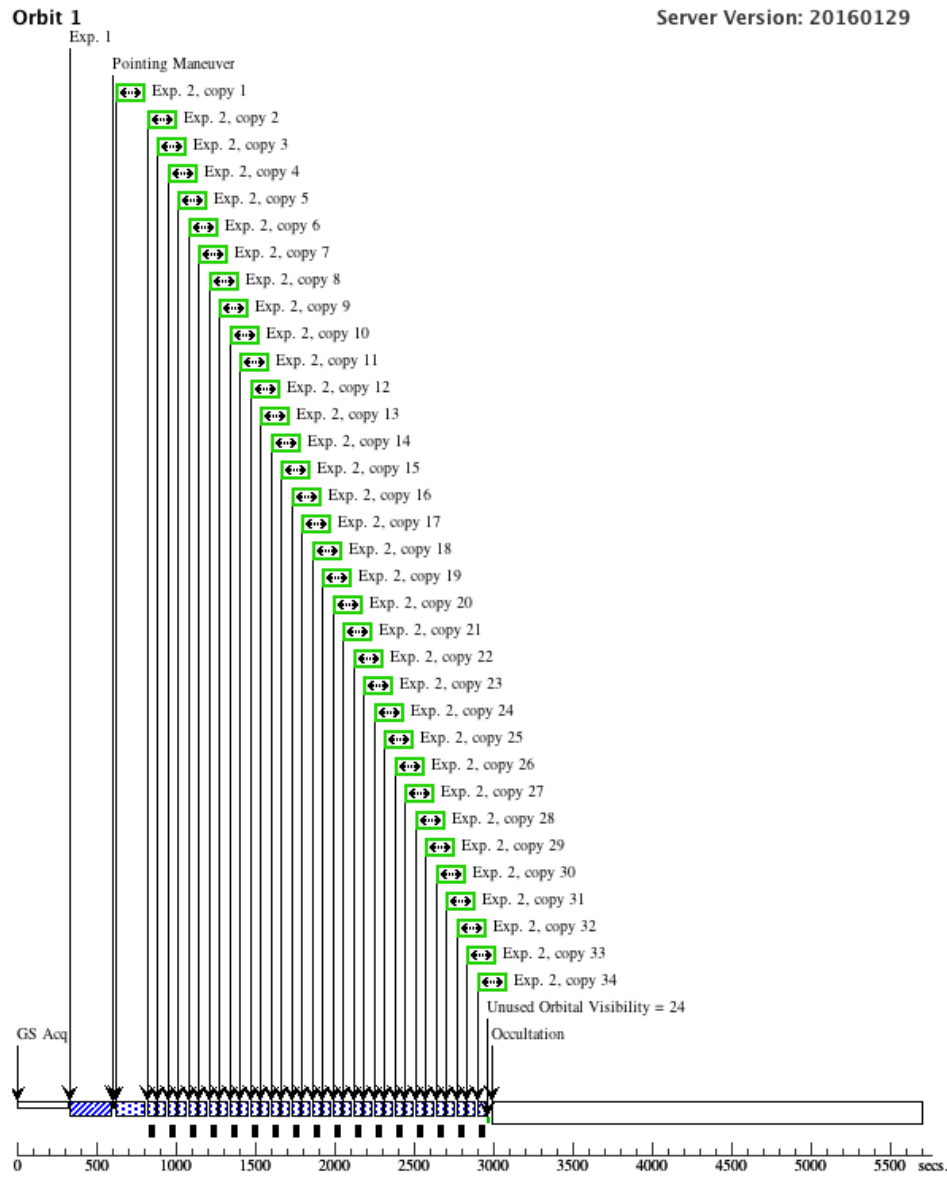
5	HD-97658 G750L Orbit 4	(1) HD-97658	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256	Sequence 5-5 Non-Int in HD-97658_STIS _G750L_4 (10)	40 Secs X 42 (1680 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)] [==>(Copy 33)] [==>(Copy 34)] [==>(Copy 35)] [==>(Copy 36)] [==>(Copy 37)] [==>(Copy 38)] [==>(Copy 39)] [==>(Copy 40)] [==>(Copy 41)] [==>(Copy 42)]	[4]

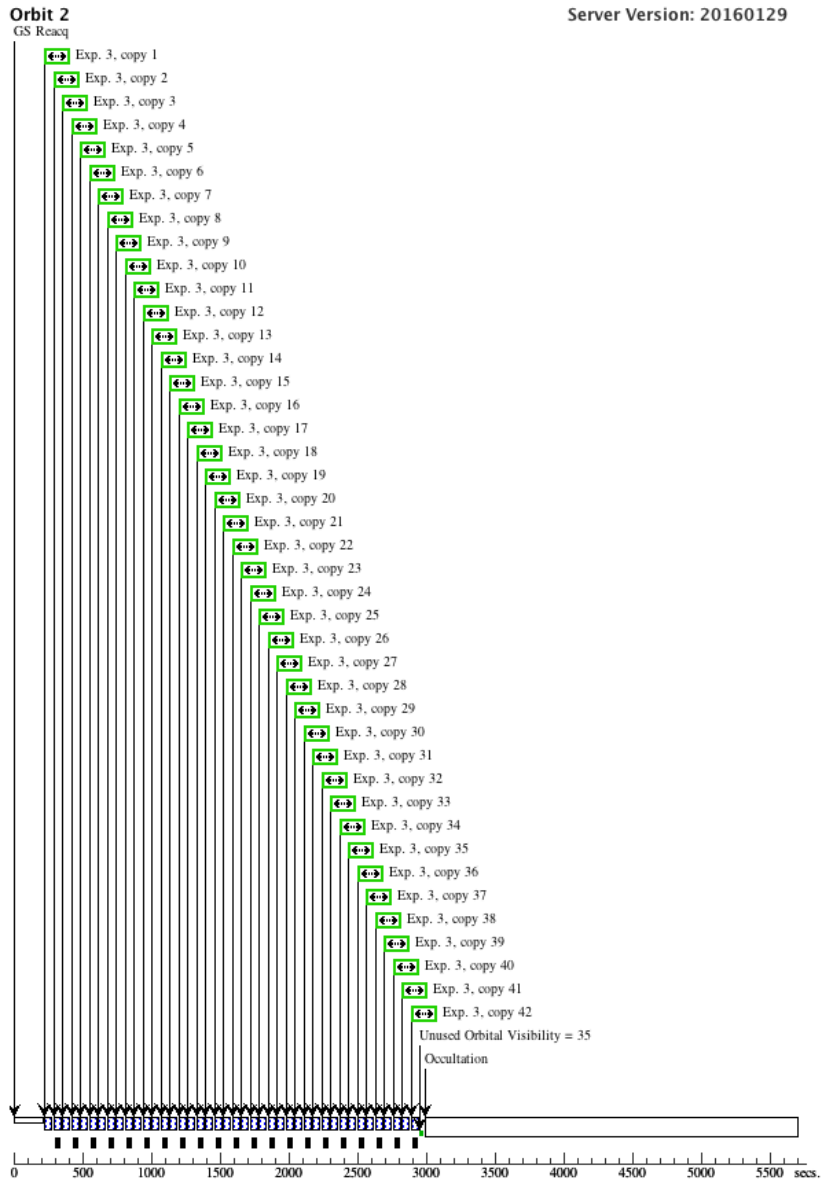
Proposal 13665 - HD-97658 STIS G750L 4 (10) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

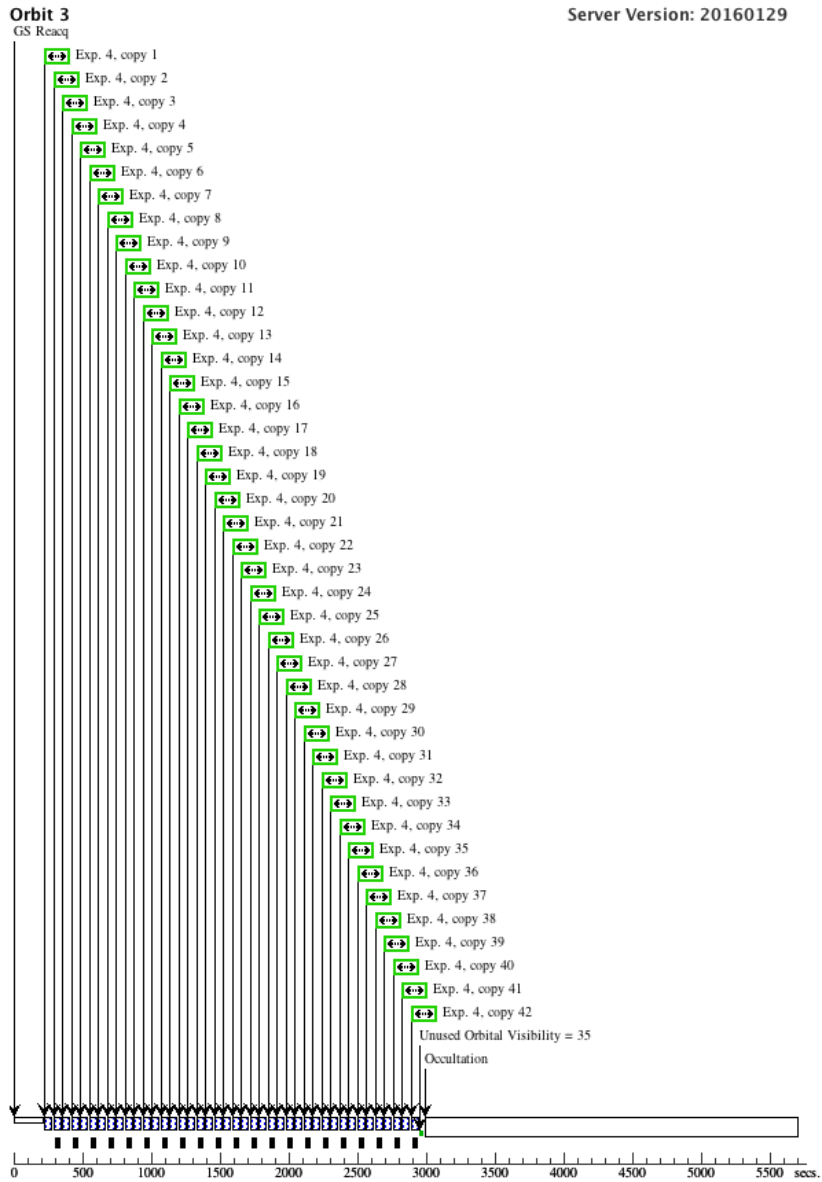
6	HD-97658 G750L Orbit 5	(1) HD-97658	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256	Sequence 6-8 Non-Int in HD-97658_STIS _G750L_4 (10)	40 Secs X 42 (1680 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)] [==>(Copy 33)] [==>(Copy 34)] [==>(Copy 35)] [==>(Copy 36)] [==>(Copy 37)] [==>(Copy 38)] [==>(Copy 39)] [==>(Copy 40)] [==>(Copy 41)] [==>(Copy 42)]	[5]

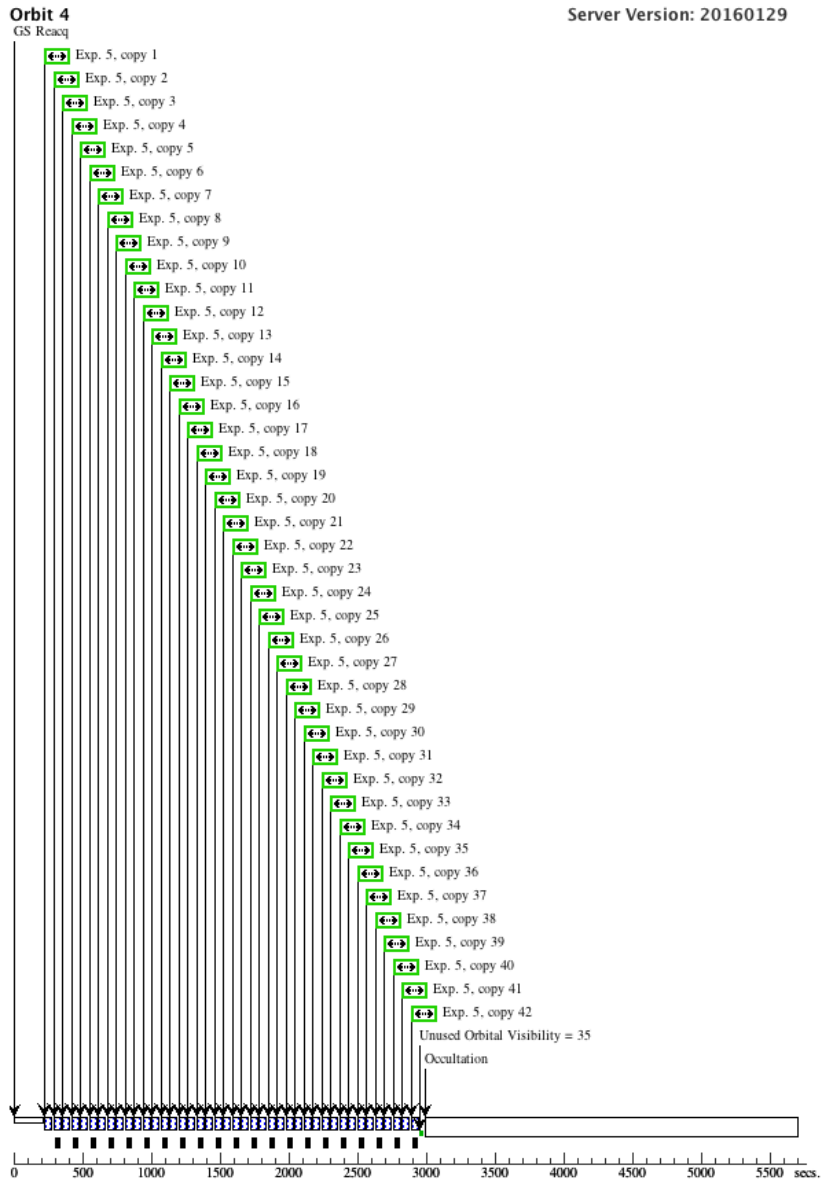
Proposal 13665 - HD-97658 STIS G750L 4 (10) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

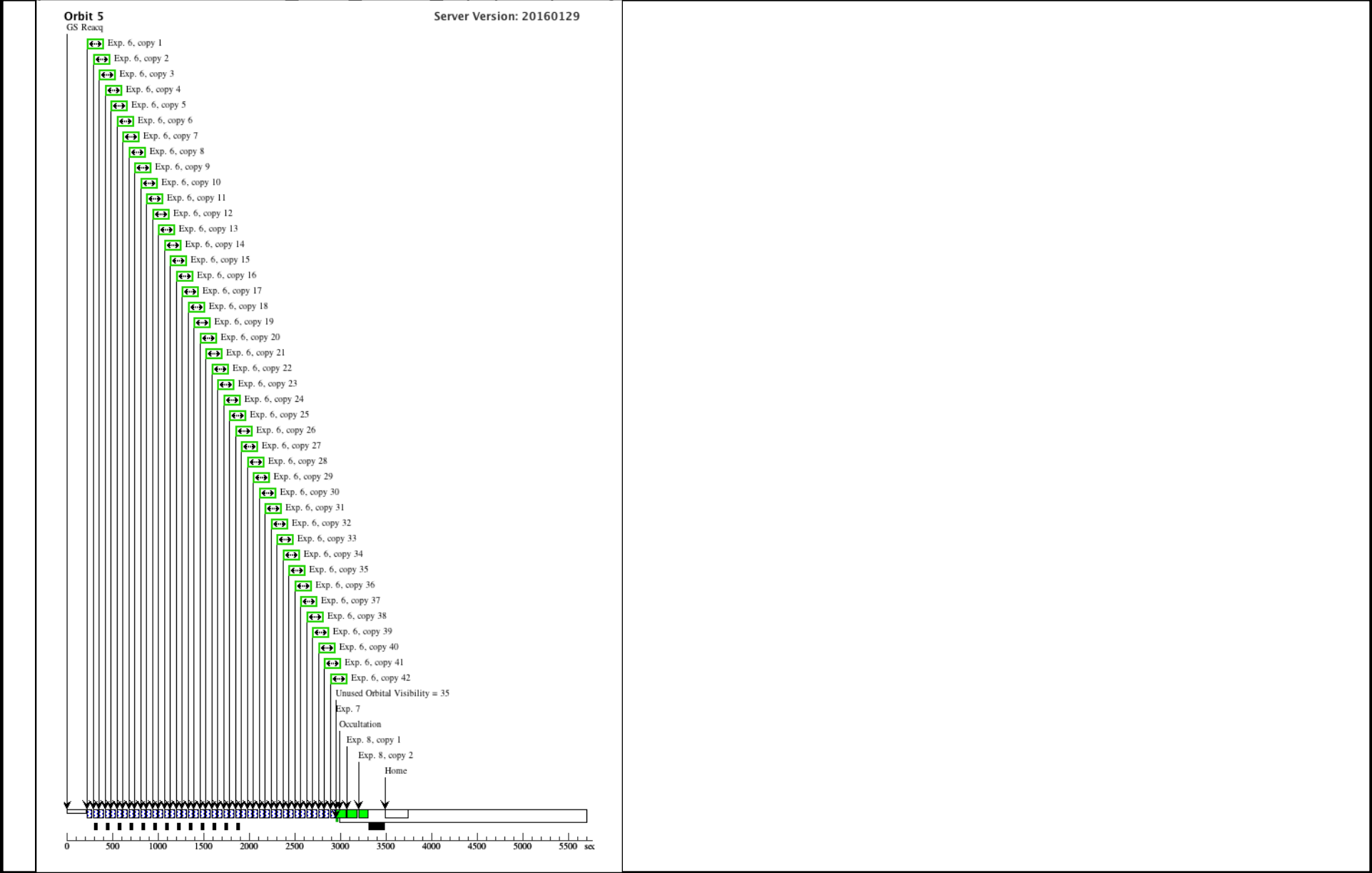
7	GO-WAVE WAVE CAL	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A	Sequence 6-8 Non-Int in HD-97658_STIS _G750L_4 (10)	[==>]	[5]
<i>Comments: Explicit WAVECAL, auto-waves disabled</i>						
8	Fringe Flat CCDFLAT	STIS/CCD, ACCUM, 0.3X0.09	G750L 7751 A	Sequence 6-8 Non-Int in HD-97658_STIS _G750L_4 (10)	[==>(Copy 1)] [==>(Copy 2)]	[5]











Proposal 13665 - HD-97658 WFC3 G141 1 (11) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, HD-97658_WFC3_G141_1 (11), scheduled					Sun Apr 10 01:17:21 GMT 2016
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: WFC3/IR					
	Special Requirements: SCHED 100%; Period 9.489264 D AND ZERO-PHASE HJD2456665.46415					
Fixed Targets	Comments: First (of two) WFC3/G141 transit visits of HD 97658 b.					
	It is essential for the five orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 and 4 in each HD97658 STIS visit observe HD97658 during the transit of HD97658b. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.9794-0.9819 in planet orbital phase, corresponding to a 34 minute interval. In order to also ensure complete coverage of the transit light curve when combining these visits with previously taken data, the first visit has been scheduled to begin within the first 10 minutes of the phase windows. The second visit can be arbitrarily placed within the entire 0.9794-0.9819 phase window. If the first visit places a significant barrier to scheduling, the requirements for all visits and may be relaxed to 0.9794-0.9819 phase range.					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	HD-97658	RA: 11 14 33.1619 (168.6381746d) Dec: +25 42 37.39 (25.71039d) Equinox: J2000	Proper Motion RA: -106.48 mas/yr Proper Motion Dec: 48.82 mas/yr Epoch of Position: 2000	V=7.714 R=7.3, I=6.8, J=6.2, H=5.8	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.						

Proposal 13665 - HD-97658 WFC3 G141 1 (11) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	HD-97658, ACQ, phase constrained	(1) HD-97658	WFC3/IR, MULTIACCUM, IRSUB512	F132N	NSAMP=6; SAMP-SEQ=RAPID	PHASE 0.9794 TO 0.9801; GS ACQ SCENARIO SINGLE	Sequence 1-4 Non-Int in HD-97658_WFC3_G141_1 (11)	5.118162 Secs (5.118 Secs) [==>]	[1]
	2	G141 Science Data	(1) HD-97658	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS25; NSAMP=2	POS TARG 13.5,-23; SPATIAL SCAN 1.4,90.0 Degrees,Round trip	Sequence 1-4 Non-Int in HD-97658_WFC3_G141_1 (11)	23.774278 Secs X 17 (808.325 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)]	[1]
	3	G141 Science Data	(1) HD-97658	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS10; NSAMP=3	POS TARG 13.5,-23; SPATIAL SCAN 1.4,90.0 Degrees,Forward	Sequence 1-4 Non-Int in HD-97658_WFC3_G141_1 (11)	16.696425 Secs (16.696 Secs) [==>]	[1]

Proposal 13665 - HD-97658 WFC3 G141 1 (11) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

4	G141 Science Data (1) HD-97658	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID ; NSAMP=15	POS TARG 13.5,-23 ; SPATIAL SCAN 1.4 ,90.0 Degrees,Reverse	Sequence 1-4 Non-Interleaved in HD-97658_WFC3_G141_1 (11)	12.795405 Secs (12.795 Secs) [==>]	[1]
5	G141 Science Data (1) HD-97658	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 13.5,-23 ; SPATIAL SCAN 1.4 ,90.0 Degrees,Round trip	Sequence 5-6 Non-Interleaved in HD-97658_WFC3_G141_1 (11)	23.774278 Secs X 19 (903.423 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)] [==>(Copy 18, Forward)] [==>(Copy 18, Reverse)] [==>(Copy 19, Forward)] [==>(Copy 19, Reverse)]	[2]

Proposal 13665 - HD-97658 WFC3 G141 1 (11) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

6	G141 Science Data (1) HD-97658	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID ; NSAMP=15	POS TARG 13.5,-23 ; SPATIAL SCAN 1.4 ,90.0 Degrees, Forward	Sequence 5-6 Non-Interleaved in HD-97658_WFC3_G141_1 (11)	12.795405 Secs (12.795 Secs) [==>]	[2]
7	G141 Science Data (1) HD-97658	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 13.5,-23 ; SPATIAL SCAN 1.4 ,90.0 Degrees, Round trip	Sequence 7-8 Non-Interleaved in HD-97658_WFC3_G141_1 (11)	23.774278 Secs X 19 (903.423 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)] [==>(Copy 18, Forward)] [==>(Copy 18, Reverse)] [==>(Copy 19, Forward)] [==>(Copy 19, Reverse)]	[3]

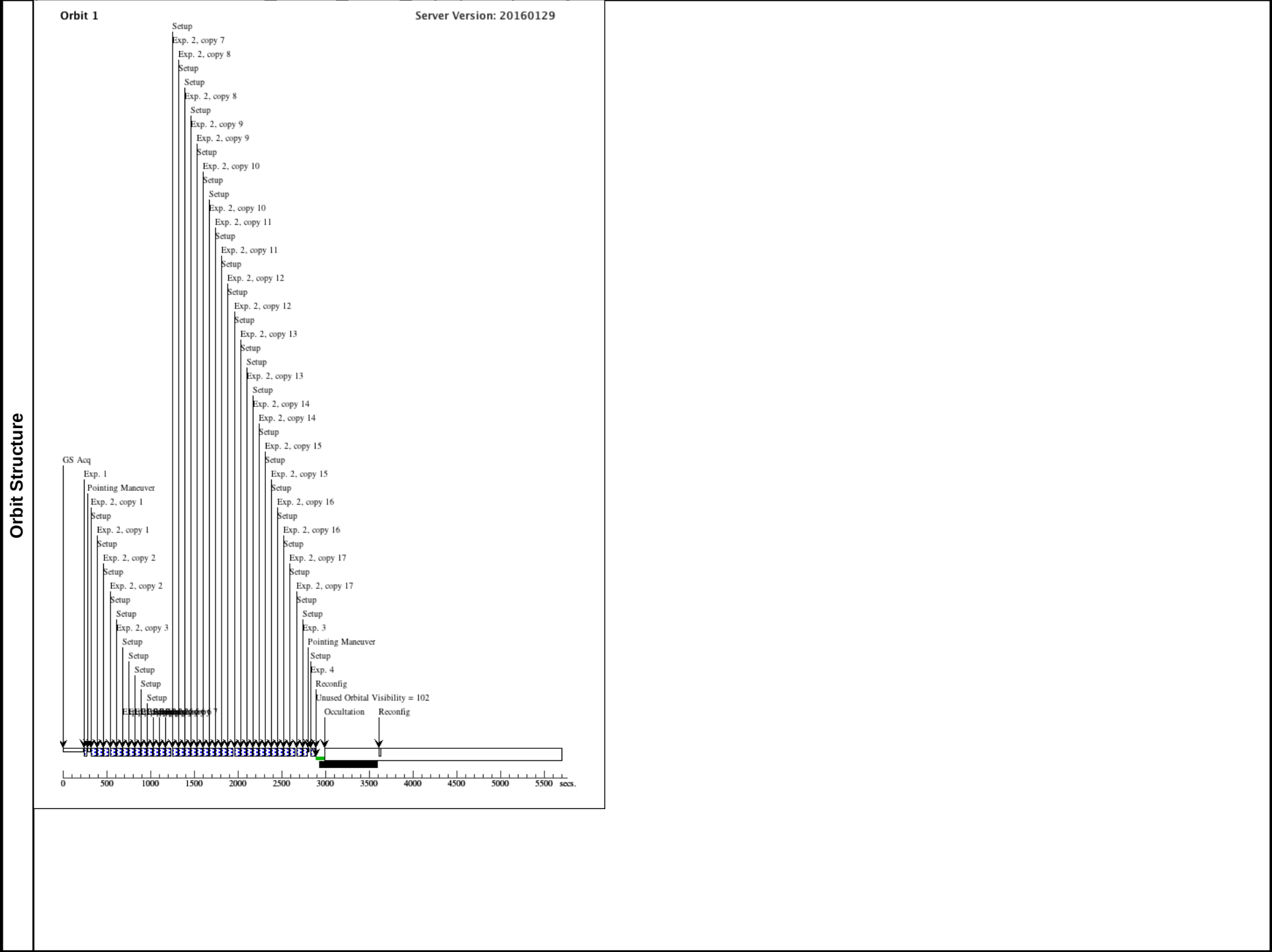
Proposal 13665 - HD-97658 WFC3 G141 1 (11) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

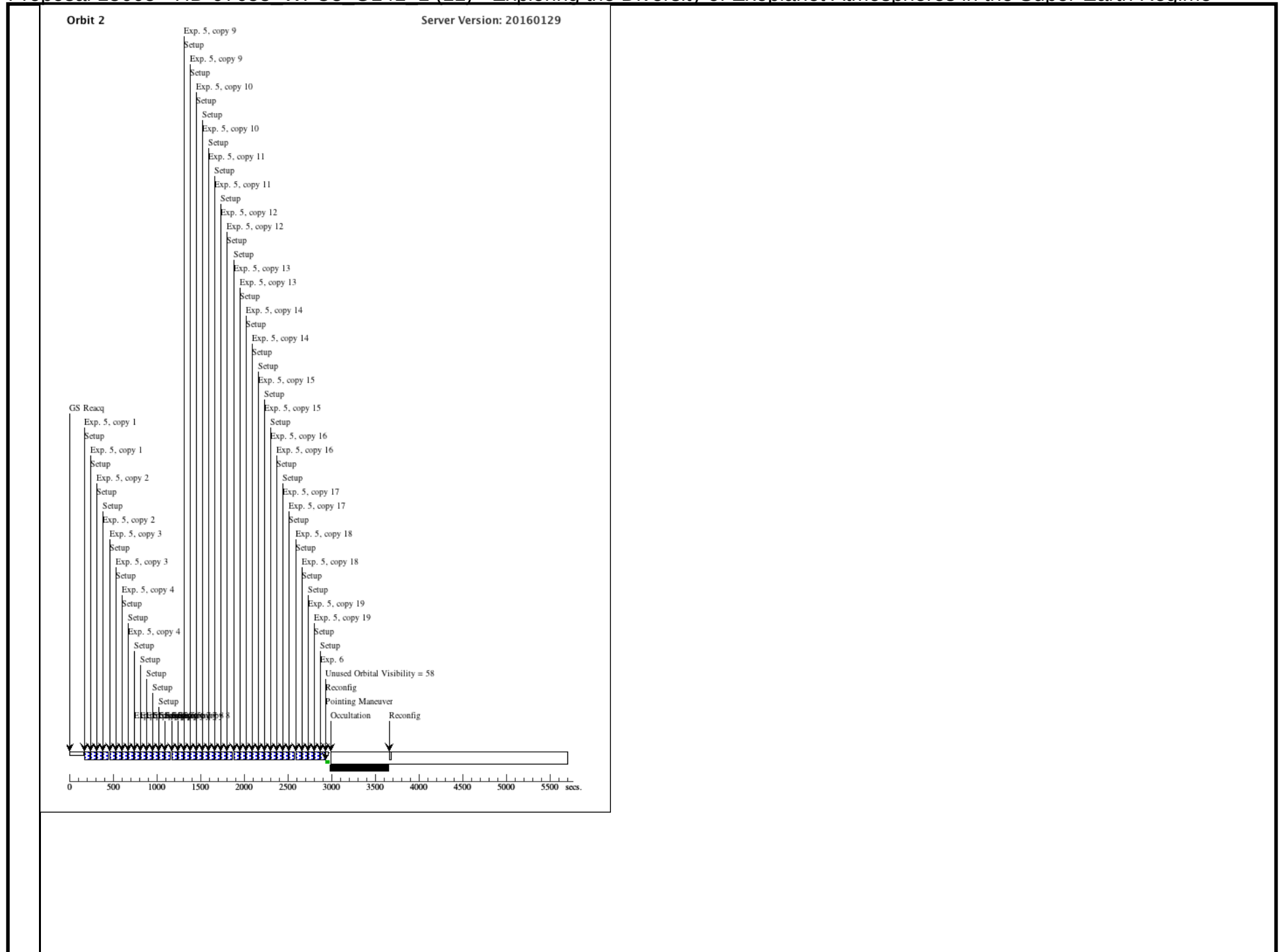
8	G141 Science Data (1) HD-97658	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID; NSAMP=15	POS TARG 13.5,-23; SPATIAL SCAN 1.4,90.0 Degrees, Forward	Sequence 7-8 Non-Int in HD-97658_WFC3_G141_1 (11)	12.795405 Secs (12.795 Secs) [==>]	[3]
9	G141 Science Data (1) HD-97658	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS25; NSAMP=2	POS TARG 13.5,-23; SPATIAL SCAN 1.4,90.0 Degrees, Round trip	Sequence 9-10 Non-Int in HD-97658_WFC3_G141_1 (11)	23.774278 Secs X 19 (903.423 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)] [==>(Copy 18, Forward)] [==>(Copy 18, Reverse)] [==>(Copy 19, Forward)] [==>(Copy 19, Reverse)]	[4]

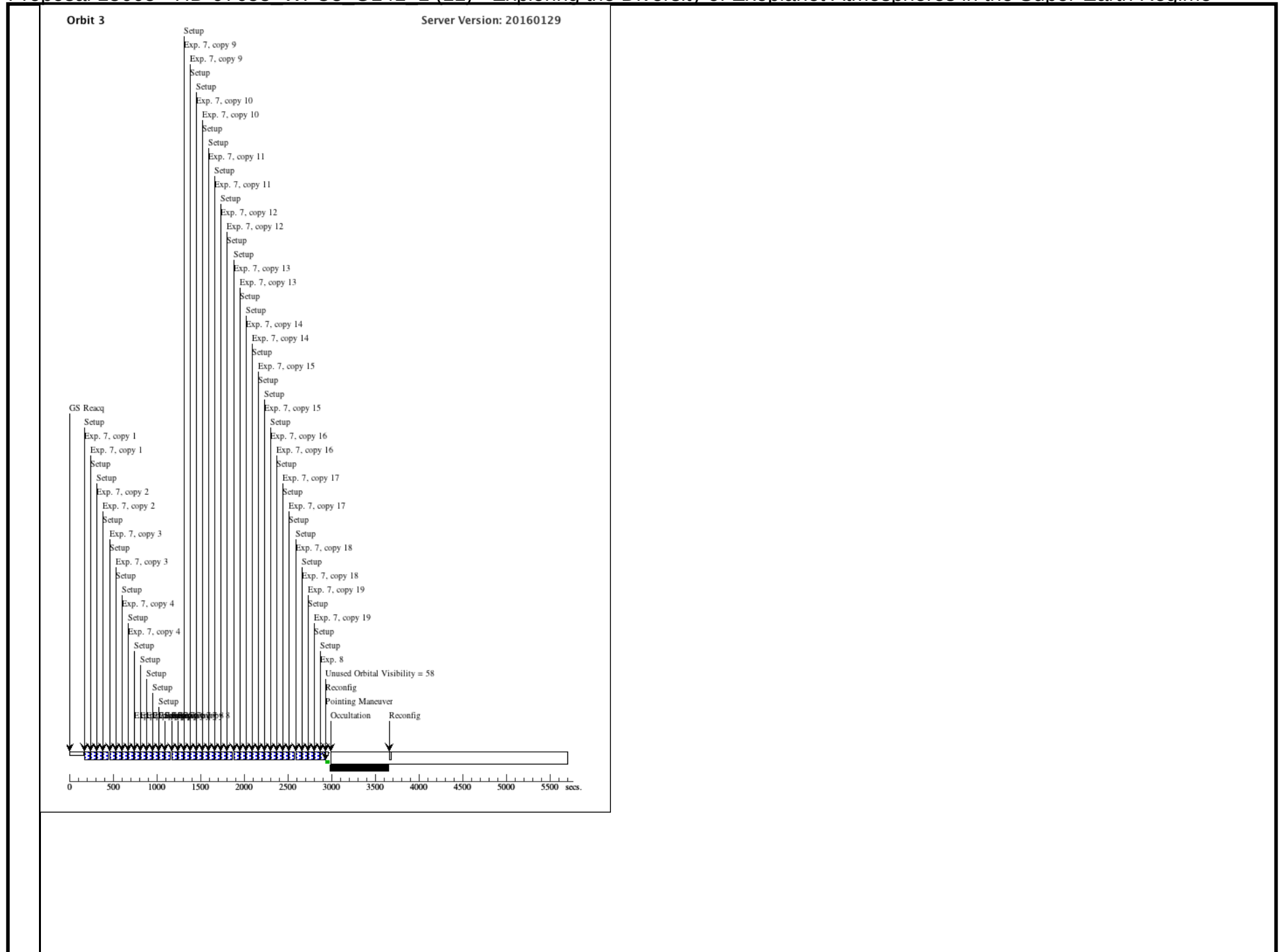
Proposal 13665 - HD-97658 WFC3 G141 1 (11) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

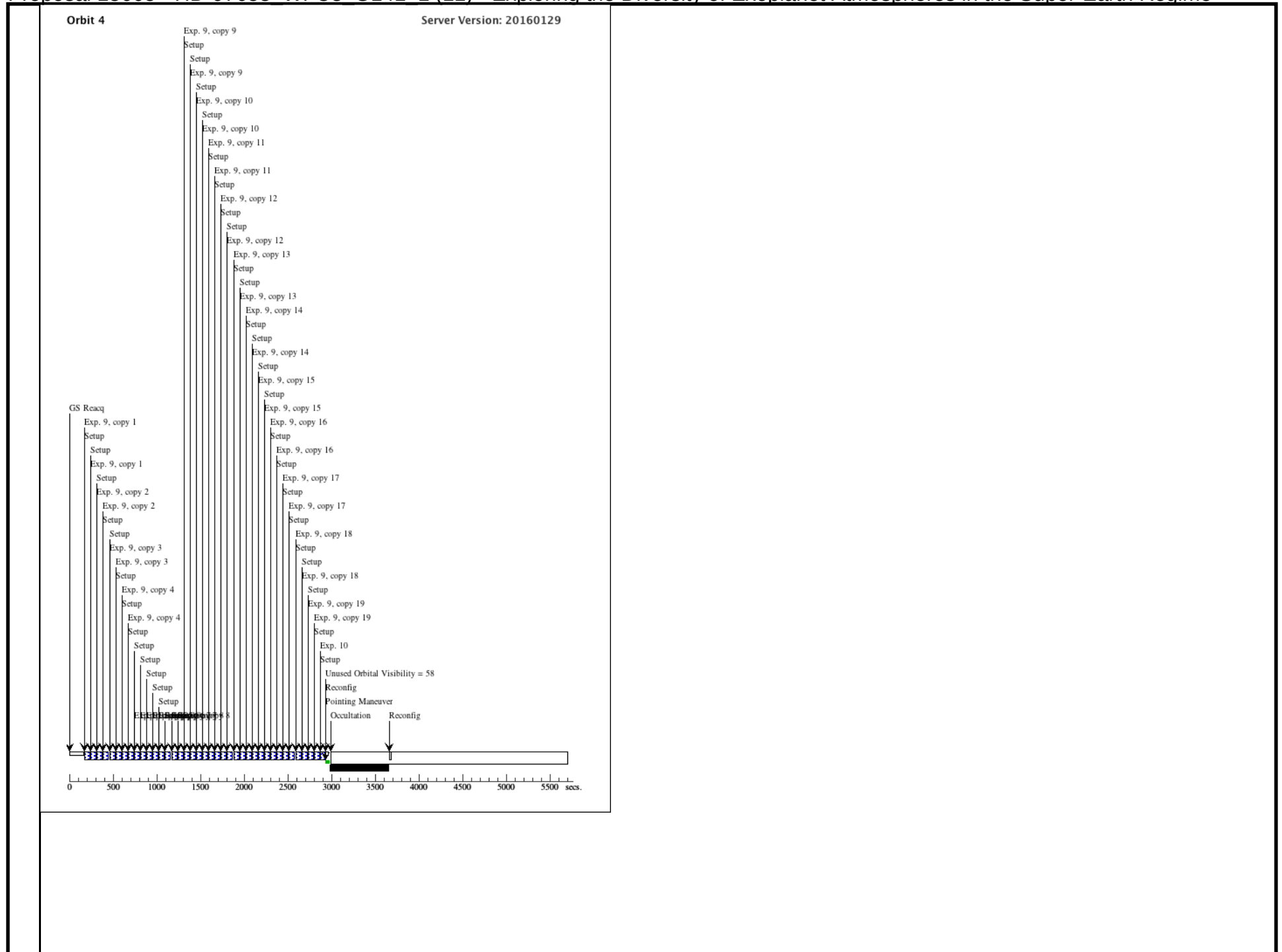
10	G141 Science Data (1) HD-97658	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID; NSAMP=15	POS TARG 13.5,-23; SPATIAL SCAN 1.4,90.0 Degrees, Forward	Sequence 9-10 Non-Int in HD-97658_WFC3_G141_1 (11)	12.795405 Secs (12.795 Secs) [==>]	[4]
11	G141 Science Data (1) HD-97658	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS25; NSAMP=2	POS TARG 13.5,-23; SPATIAL SCAN 1.4,90.0 Degrees, Round trip	Sequence 11-12 Non-Int in HD-97658_WFC3_G141_1 (11)	23.774278 Secs X 19 (903.423 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)] [==>(Copy 18, Forward)] [==>(Copy 18, Reverse)] [==>(Copy 19, Forward)] [==>(Copy 19, Reverse)]	[5]

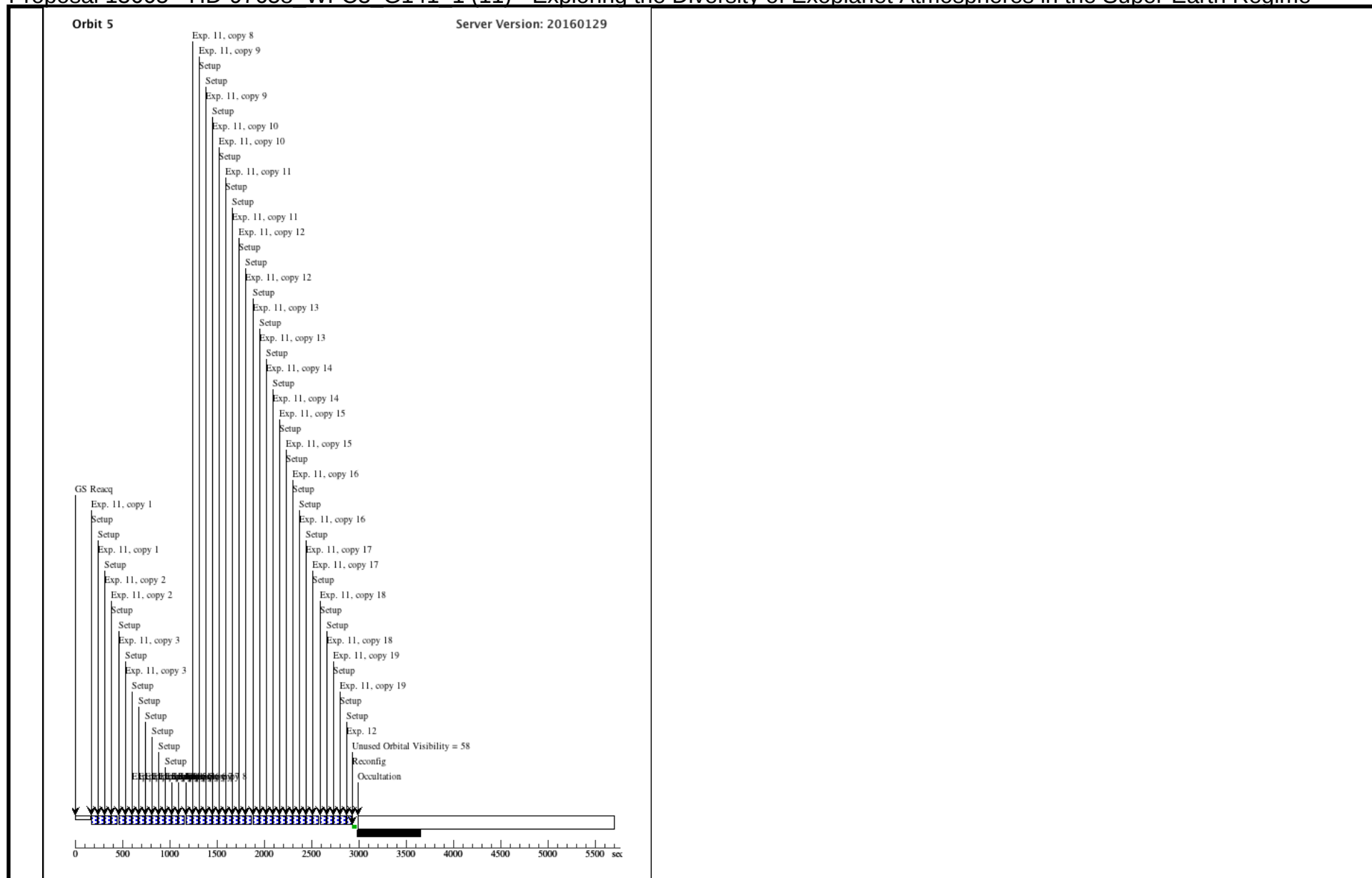
Proposal 13665 - HD-97658 WFC3 G141 1 (11) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime										
	12	G141 Scienc e Data	(1) HD-97658	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID	POS TARG 13.5,-23	Sequence 11-12 Non	12.795405 Secs (12.795 Secs)	
						;	;	-Int in HD-97658_W	[==>]	
						NSAMP=15	SPATIAL SCAN 1.4	FC3_G141_1 (11)		
							,90.0 Degrees,Forwa			[5]
							rd			











Proposal 13665 - HD-97658 WFC3 G141 2 (12) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, HD-97658_WFC3_G141_2 (12), implementation					Sun Apr 10 01:17:21 GMT 2016
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: WFC3/IR					
	Special Requirements: SCHED 100%; Period 9.489264 D AND ZERO-PHASE HJD2456665.46415					
Fixed Targets	Comments: Second (of two) WFC3/G141 transit visits of HD 97658 b.					
	It is essential for the five orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 and 4 in each HD97658 STIS visit observe HD97658 during the transit of HD97658b. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.9794-0.9819 in planet orbital phase, corresponding to a 34 minute interval. In order to also ensure complete coverage of the transit light curve when combining these visits with previously taken data, the first visit has been scheduled to begin within the first 10 minutes of the phase windows. The second visit can be arbitrarily placed within the entire 0.9794-0.9819 phase window. If the first visit places a significant barrier to scheduling, the requirements for all visits and may be relaxed to 0.9794-0.9819 phase range.					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	HD-97658	RA: 11 14 33.1619 (168.6381746d) Dec: +25 42 37.39 (25.71039d) Equinox: J2000	Proper Motion RA: -106.48 mas/yr Proper Motion Dec: 48.82 mas/yr Epoch of Position: 2000	V=7.714 R=7.3, I=6.8, J=6.2, H=5.8	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.						

Proposal 13665 - HD-97658 WFC3 G141 2 (12) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	HD-97658, ACQ, phase constrained	(1) HD-97658	WFC3/IR, MULTIACCUM, IRSUB512	F132N	NSAMP=6; SAMP-SEQ=RAPID	PHASE 0.9812 TO 0.9819; GS ACQ SCENARIO SINGLE	Sequence 1-4 Non-Int in HD-97658_WFC3_G141_2 (12)	5.118162 Secs (5.118 Secs) [==>]	[1]
	2	G141 Science Data	(1) HD-97658	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS25; NSAMP=2	POS TARG 13.5,-23; SPATIAL SCAN 1.4,90.0 Degrees,Round trip	Sequence 1-4 Non-Int in HD-97658_WFC3_G141_2 (12)	23.774278 Secs X 17 (808.325 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)]	[1]
	3	G141 Science Data	(1) HD-97658	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS10; NSAMP=3	POS TARG 13.5,-23; SPATIAL SCAN 1.4,90.0 Degrees,Forward	Sequence 1-4 Non-Int in HD-97658_WFC3_G141_2 (12)	16.696425 Secs (16.696 Secs) [==>]	[1]

Proposal 13665 - HD-97658 WFC3 G141 2 (12) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

4	G141 Science Data (1) HD-97658	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID ; NSAMP=15	POS TARG 13.5,-23 ; SPATIAL SCAN 1.4 ,90.0 Degrees,Reverse	Sequence 1-4 Non-Interleaved in HD-97658_WFC3_G141_2 (12)	12.795405 Secs (12.795 Secs) [==>]	[1]
5	G141 Science Data (1) HD-97658	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 13.5,-23 ; SPATIAL SCAN 1.4 ,90.0 Degrees,Round trip	Sequence 5-6 Non-Interleaved in HD-97658_WFC3_G141_2 (12)	23.774278 Secs X 19 (903.423 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)] [==>(Copy 18, Forward)] [==>(Copy 18, Reverse)] [==>(Copy 19, Forward)] [==>(Copy 19, Reverse)]	[2]

Proposal 13665 - HD-97658 WFC3 G141 2 (12) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

6	G141 Science Data (1) HD-97658	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID; NSAMP=15	POS TARG 13.5,-23; SPATIAL SCAN 1.4,90.0 Degrees,Forward	Sequence 5-6 Non-Int in HD-97658_WFC3_G141_2 (12)	12.795405 Secs (12.795 Secs) [==>]	[2]
7	G141 Science Data (1) HD-97658	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS25; NSAMP=2	POS TARG 13.5,-23; SPATIAL SCAN 1.4,90.0 Degrees,Round trip	Sequence 7-8 Non-Int in HD-97658_WFC3_G141_2 (12)	23.774278 Secs X 19 (903.423 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)] [==>(Copy 18, Forward)] [==>(Copy 18, Reverse)] [==>(Copy 19, Forward)] [==>(Copy 19, Reverse)]	[3]

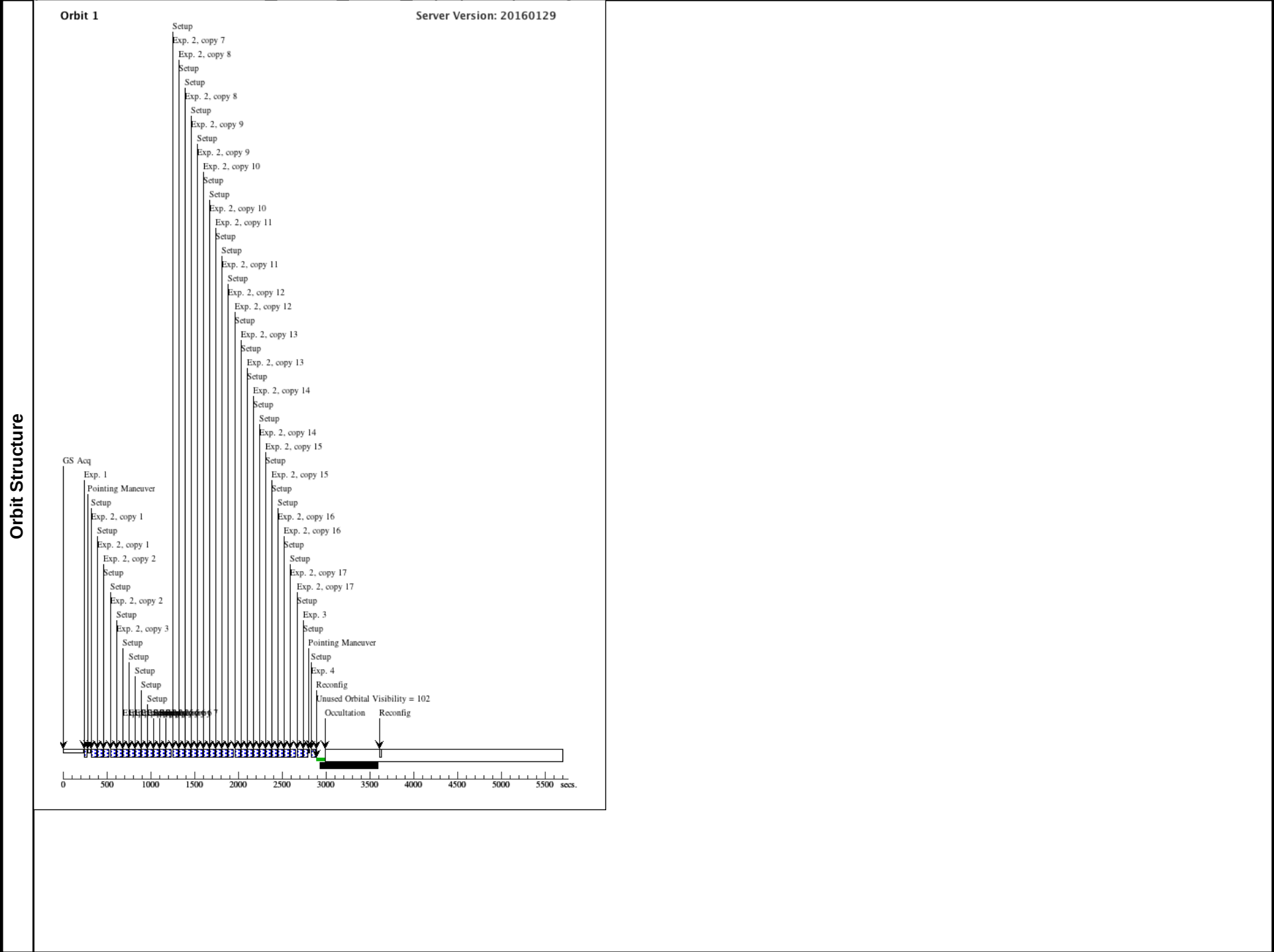
Proposal 13665 - HD-97658 WFC3 G141 2 (12) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

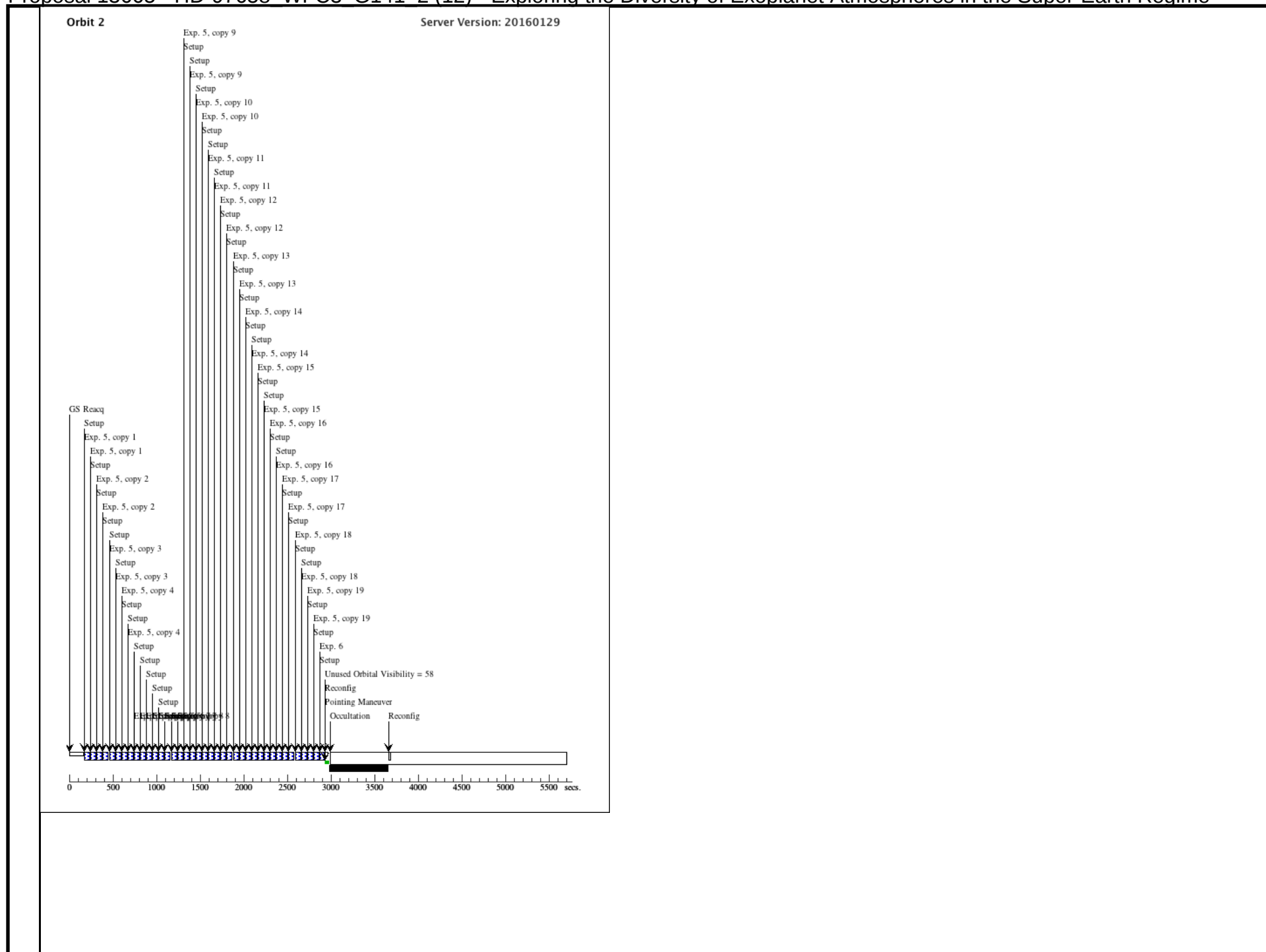
8	G141 Science Data (1) HD-97658	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID ; NSAMP=15	POS TARG 13.5,-23 ; SPATIAL SCAN 1.4 ,90.0 Degrees, Forward	Sequence 7-8 Non-Int in HD-97658_WFC3_G141_2 (12)	12.795405 Secs (12.795 Secs) [==>]	[3]
9	G141 Science Data (1) HD-97658	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 13.5,-23 ; SPATIAL SCAN 1.4 ,90.0 Degrees, Round trip	Sequence 9-10 Non-Int in HD-97658_WFC3_G141_2 (12)	23.774278 Secs X 19 (903.423 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)] [==>(Copy 18, Forward)] [==>(Copy 18, Reverse)] [==>(Copy 19, Forward)] [==>(Copy 19, Reverse)]	[4]

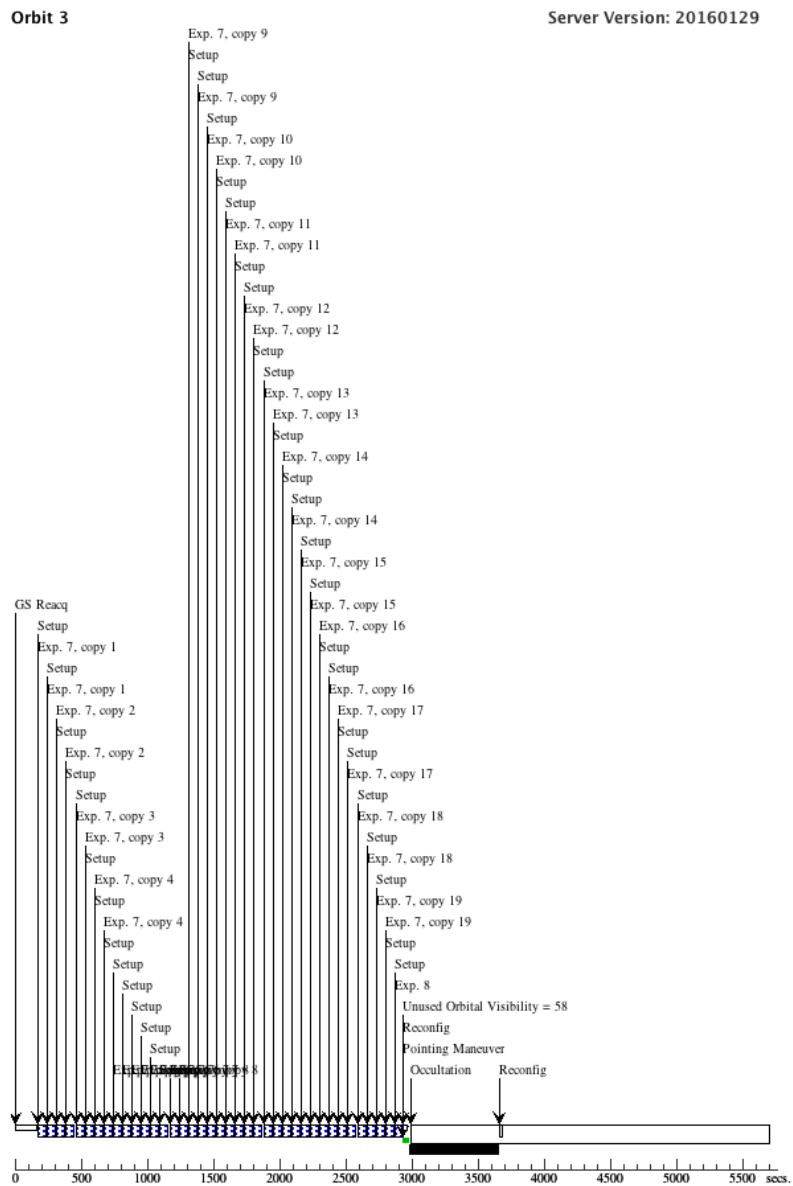
Proposal 13665 - HD-97658 WFC3 G141 2 (12) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

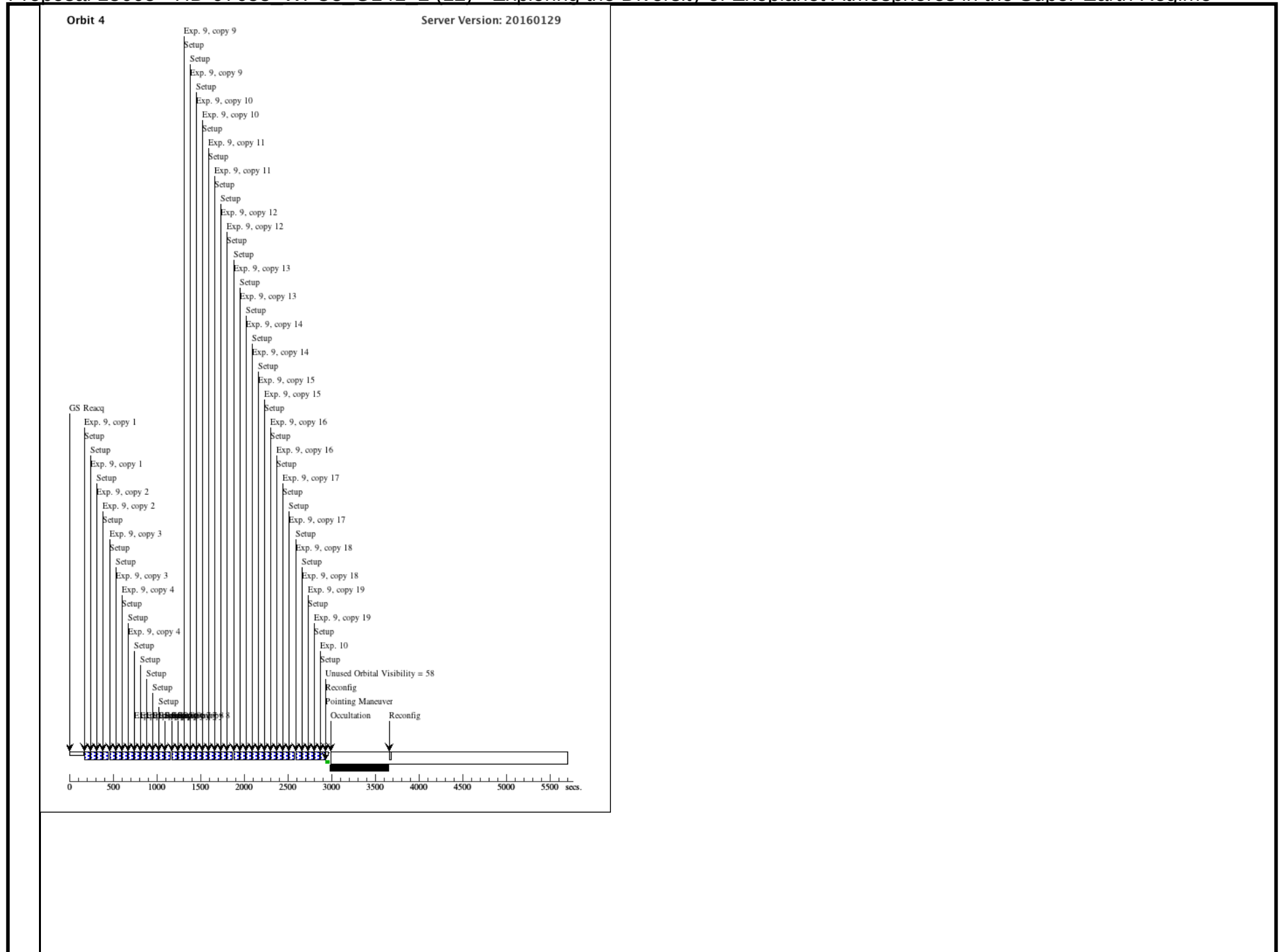
10	G141 Science Data (1) HD-97658	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID ; NSAMP=15	POS TARG 13.5,-23 ; SPATIAL SCAN 1.4 ,90.0 Degrees, Forward	Sequence 9-10 Non-Int in HD-97658_WFC3_G141_2 (12)	12.795405 Secs (12.795 Secs) [==>]	[4]
11	G141 Science Data (1) HD-97658	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 13.5,-23 ; SPATIAL SCAN 1.4 ,90.0 Degrees, Round trip	Sequence 11-12 Non-Int in HD-97658_WFC3_G141_2 (12)	23.774278 Secs X 19 (903.423 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)] [==>(Copy 18, Forward)] [==>(Copy 18, Reverse)] [==>(Copy 19, Forward)] [==>(Copy 19, Reverse)]	[5]

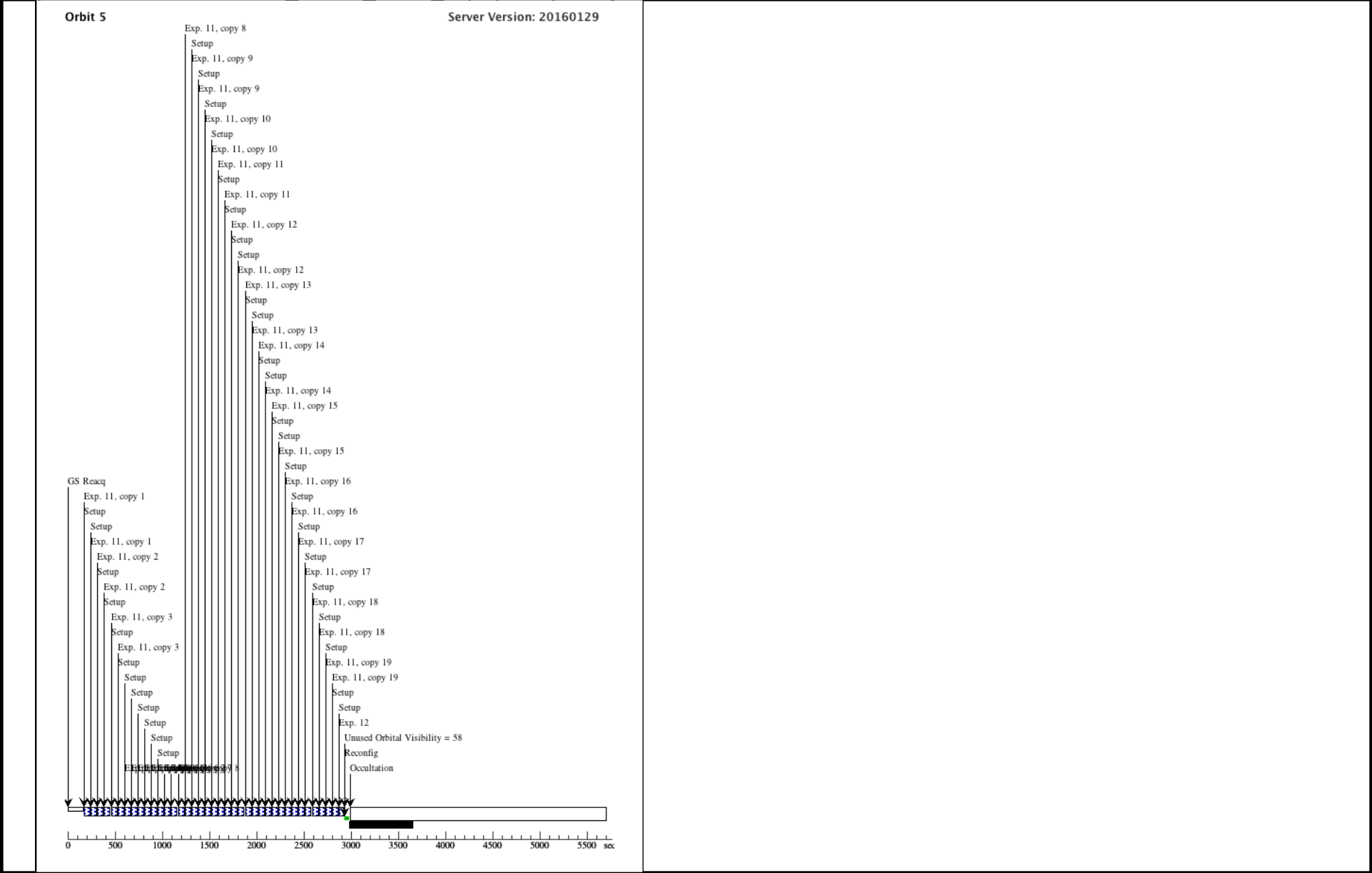
Proposal 13665 - HD-97658 WFC3 G141 2 (12) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime									
	12	G141 Science Data (1) HD-97658	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID ; NSAMP=15	POS TARG 13.5,-23 ; SPATIAL SCAN 1.4 ,90.0 Degrees, Forward	Sequence 11-12 Non-Int in HD-97658_WFC3_G141_2 (12)	12.795405 Secs (12.795 Secs) [==>]	











Proposal 13665 - 55-CANCRI STIS G750L 1 (13) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, 55-CANCRI_STIS_G750L_1 (13), completed					Sun Apr 10 01:17:22 GMT 2016
	Diagnostic Status: Warning					
	Scientific Instruments: STIS/CCD					
	Special Requirements: SCHED 100%; Period 0.7365418 D AND ZERO-PHASE HJD2455962.0693					
Visit	Comments: First (of four) STIS/G750L transit of 55 Cancri e.					
	These observations are designed to oversaturate the STIS CCD by a factor of ~7. Liberated charges will bleed along detector columns, but we will add up the "leaked" charge and recover all photoelectrons.					
	It is essential for the four orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 in each 55 Cnc STIS visit observes 55 Cnc during the transit of 55 Cnc e. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.7732-0.8194 in planet orbital phase, corresponding to a 49 minute interval. In order to also ensure complete coverage of the transit light curve when combining the four STIS visits, the first visit has been scheduled to begin within the first 10 minutes of the phase windows and the second visit has been scheduled to begin in the last 10 min of the phase windows.. The remaining visits can be arbitrarily placed within the entire 0.7732-0.8194 phase window. If the first or second visits place a significant barrier to scheduling, the requirements for all visits and may be relaxed to 0.7732-0.8194 phase range.					
	We disable auto-wavecalcs, which improves our observing efficiency and repeatability. We opt for only a single GO-wavecal (at the end of each visit) because the GO-wavecal requires a different aperture (52x0.2 instead of the 52x2 used for science observations). To minimize disruption to the observatory, we therefore defer the GO wavecal until the end of each visit. This strategy has been successfully employed in past programs, e.g. 12473 (PI Sing).					
Diagnostics	(55-CANCRI_STIS_G750L_1 (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	55-CANCRI	RA: 08 52 35.8109 (133.1492121d)	Proper Motion RA: -485.80 mas/yr	V=5.95	Reference Frame: ICRS
		Alt Name1: HR3522	Dec: +28 19 50.95 (28.33082d)	Proper Motion Dec: -234.05 mas/yr	B=6.82,	
		Alt Name2: GJ324A	Equinox: J2000	Parallax: 0.08103"	R=5.4,	
Fixed Targets				Epoch of Position: 2000	I=5.0,	
				Radial Velocity: 26.6 km/sec	J=4.768,	
					H=4.265,	
					K=4.015	
Fixed Targets	Comments: This star is in a double system (common proper motions) with 55 Cancri B (GJ 324B), a much fainter (V=13) M4 dwarf that is 1.4-arcmin away. It also 4.6-arcmin away from the similarly bright (V=6.3) star 53 Cancri (BO Cancri).					

Proposal 13665 - 55-CANCRI STIS G750L 1 (13) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	ACQ, phase constrained	(4) 55-CANCRI	STIS/CCD, ACQ, F28X50OII	MIRROR		PHASE 0.7732 TO 0.7827	Sequence 1-2 Non-Int in 55-CANCRI_STIS_G750L_1 (13)	.7 Secs (0.7 Secs)		
									[==>]		[1]
	2	55-CANCRI G750L Orbit 1 (619436)	(4) 55-CANCRI	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; WAVECAL=NO		Sequence 1-2 Non-Int in 55-CANCRI_STIS_G750L_1 (13)	36 Secs X 28 (1008 Secs)		
									[==>(Copy 1)]		
									[==>(Copy 2)]		
									[==>(Copy 3)]		
									[==>(Copy 4)]		
									[==>(Copy 5)]		
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Proposal 13665 - 55-CANCRI STIS G750L 1 (13) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

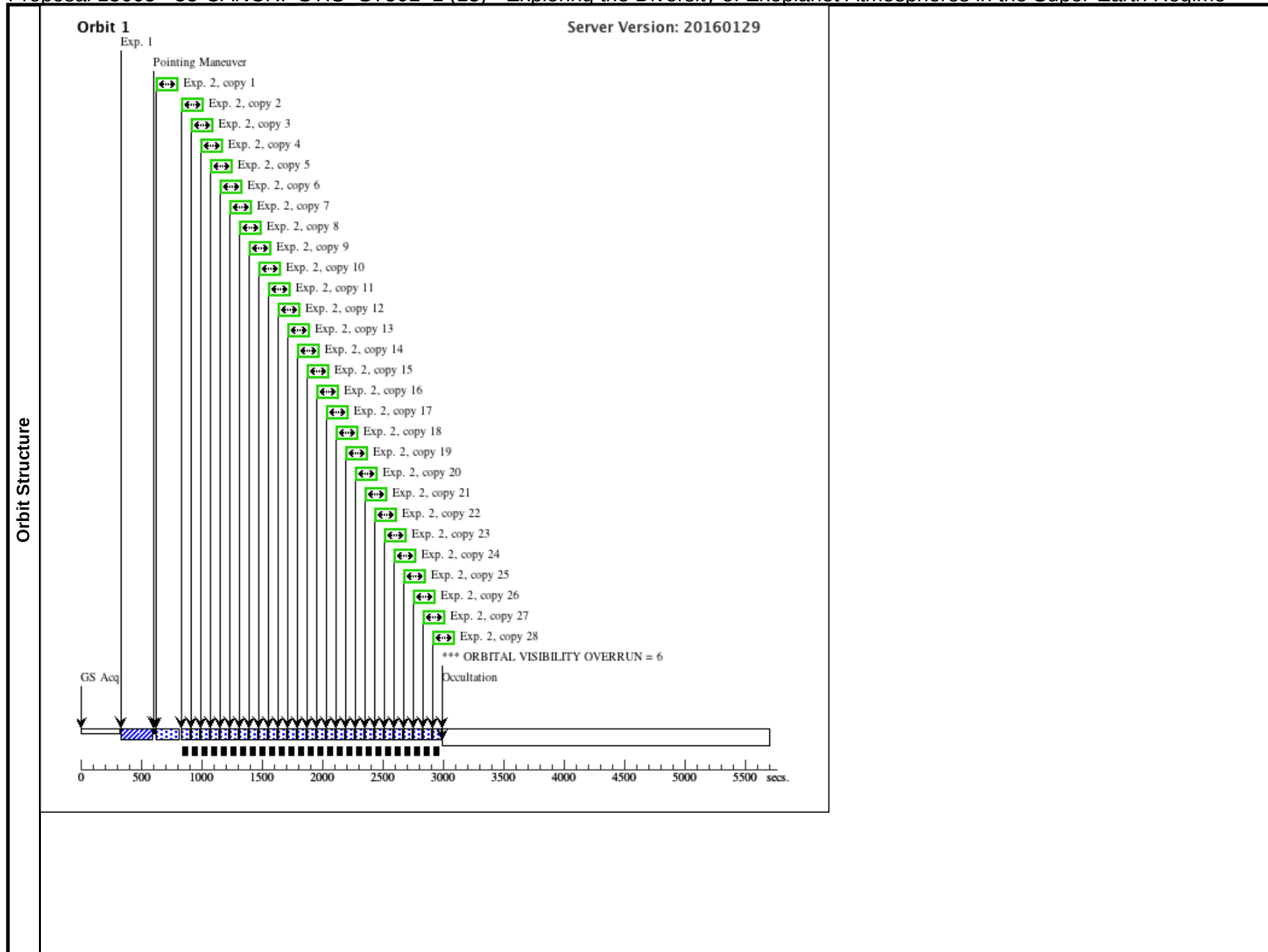
3	55-CANCRI (4) 55-CANCRI G750L Orbit 2 (619436)	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4	Sequence 3-3 Non-Int in 55-CANCRI_STIS_G750L_1 (13)	36 Secs X 34 (1224 Secs)	
						[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)] [==>(Copy 33)] [==>(Copy 34)]	[2]

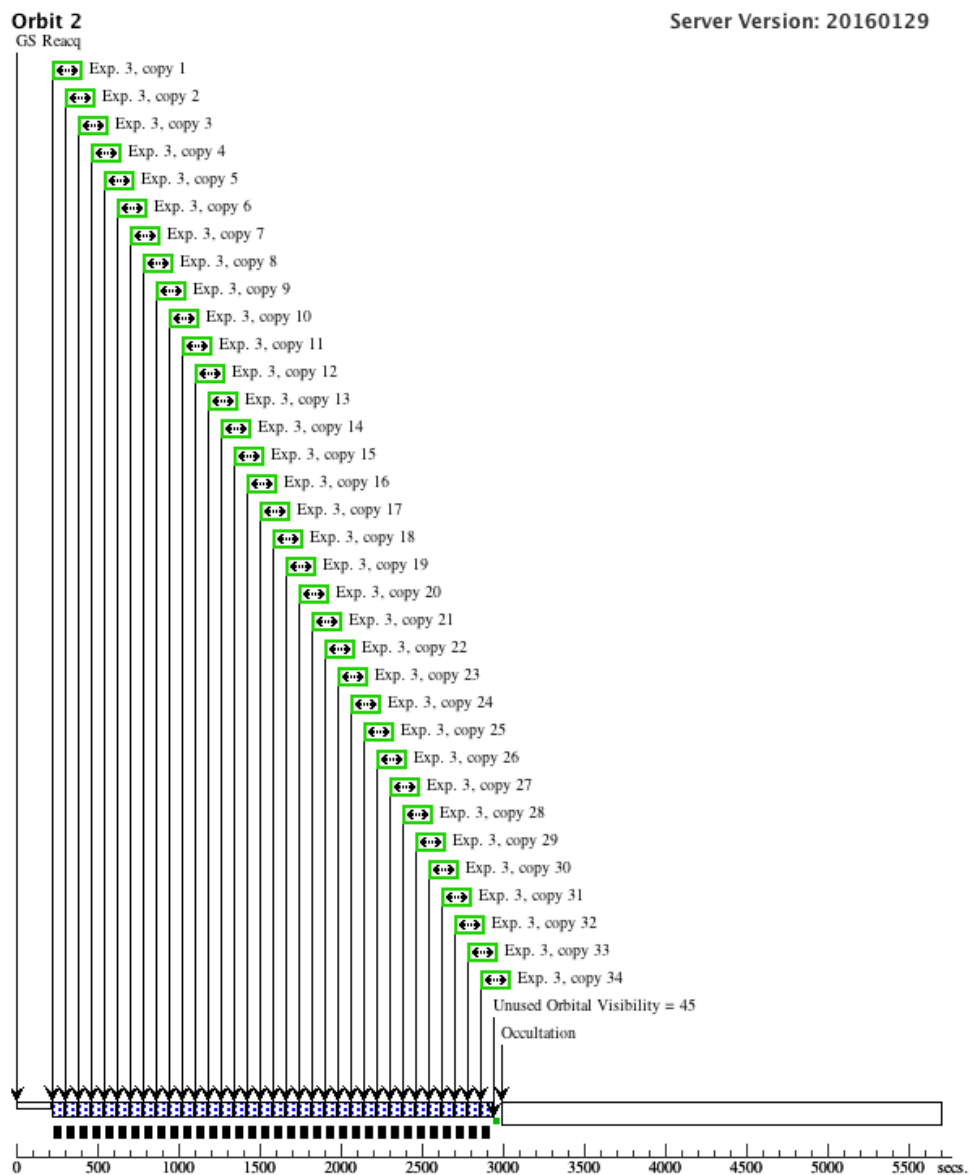
Proposal 13665 - 55-CANCRI STIS G750L 1 (13) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

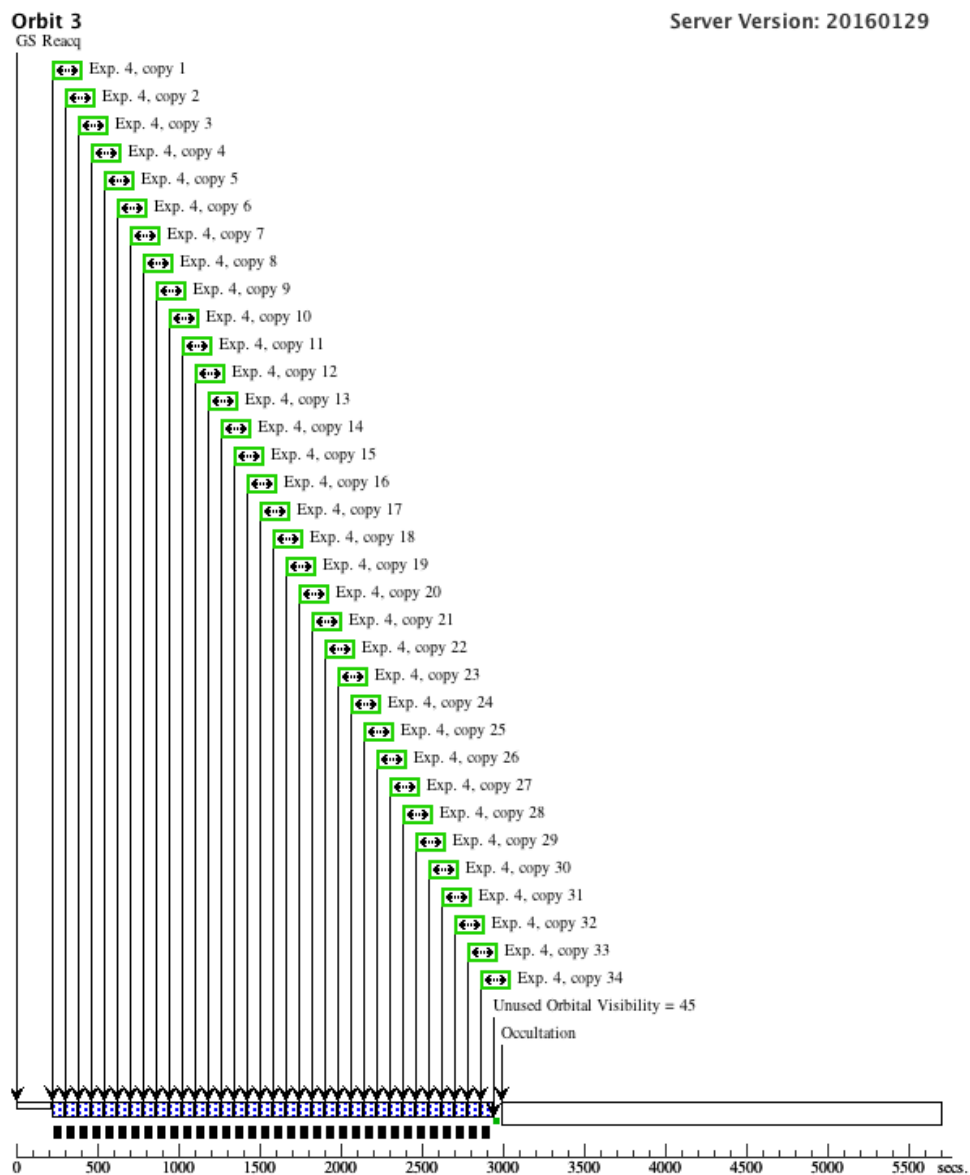
4	55-CANCRI (4) 55-CANCRI G750L Orbit 3 (619436)	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4	Sequence 4-4 Non-Int in 55-CANCRI_STIS_G750L_1 (13)	36 Secs X 34 (1224 Secs)	
						[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)] [==>(Copy 33)] [==>(Copy 34)]	[3]

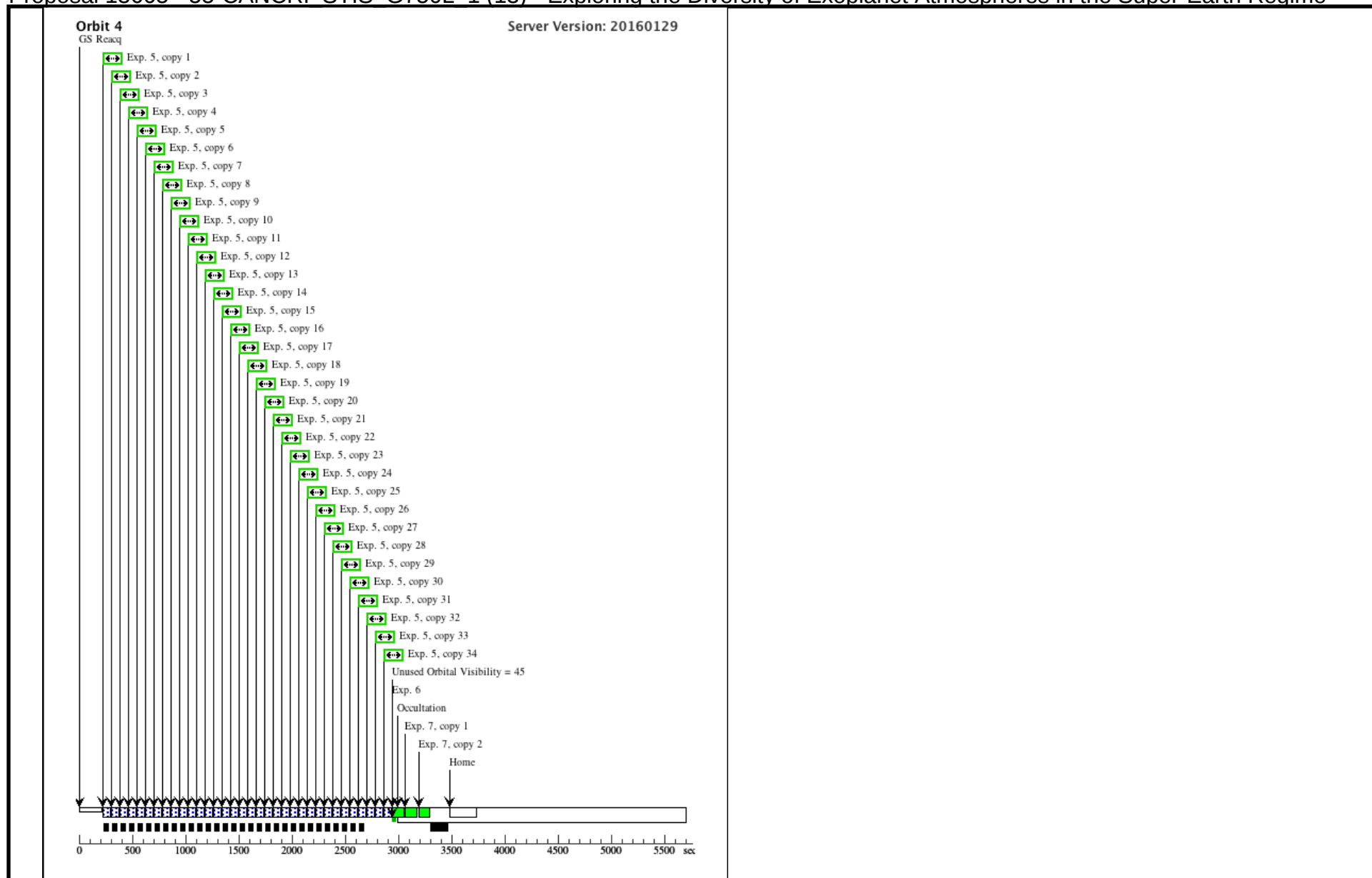
Proposal 13665 - 55-CANCRI STIS G750L 1 (13) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

5	55-CANCRI (4) 55-CANCRI G750L Orbit 4 (619436)	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4	Sequence 5-7 Non-In t in 55-CANCRI_ST IS_G750L_1 (13)	36 Secs X 34 (1224 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)] [==>(Copy 33)] [==>(Copy 34)]	[4]
6	GO-WAVE WAVE CAL	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A		Sequence 5-7 Non-In t in 55-CANCRI_ST IS_G750L_1 (13)	[==>]	[4]
<i>Comments: Explicit WAVECAL, auto-waves disabled</i>							
7	Fringe Flat CCDFLAT	STIS/CCD, ACCUM, 0.3X0.09	G750L 7751 A		Sequence 5-7 Non-In t in 55-CANCRI_ST IS_G750L_1 (13)	[==>(Copy 1)] [==>(Copy 2)]	[4]









Proposal 13665 - 55-CANCRI STIS G750L 2 (14) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, 55-CANCRI_STIS_G750L_2 (14), completed					Sun Apr 10 01:17:22 GMT 2016
	Diagnostic Status: Warning					
	Scientific Instruments: STIS/CCD					
	Special Requirements: SCHED 100%; Period 0.7365460 D AND ZERO-PHASE HJD2455733.007					
Diagnostics	Comments: Second (of four) STIS/G750L transit of 55 Cancri e.					
	It is essential for the four orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 in each 55 Cnc STIS visit observes 55 Cnc during the transit of 55 Cnc e. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.7732-0.8194 in planet orbital phase, corresponding to a 49 minute interval. In order to also ensure complete coverage of the transit light curve when combining the four visits, the first visit has been scheduled to begin within the first 10 minutes of the phase windows and the second visit has been scheduled to begin in the last 10 min of the phase windows.. The remaining visits can be arbitrarily placed within the entire 0.7732-0.8194 phase window. If the first or second visits place a significant barrier to scheduling, the requirements for all visits and may be relaxed to 0.7732-0.8194 phase range.					
	We disable auto-wavecalcs, which improves our observing efficiency and repeatability. We opt for only a single GO-wavecal (at the end of each visit) because the GO-wavecal requires a different aperture (52x0.2 instead of the 52x2 used for science observations). To minimize disruption to the observatory, we therefore defer the GO wavecal until the end of each visit. This strategy has been successfully employed in past programs, e.g. 12473 (PI Sing).					
	(55-CANCRI_STIS_G750L_2 (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	55-CANCRI	RA: 08 52 35.8109 (133.1492121d)	Proper Motion RA: -485.80 mas/yr	V=5.95	Reference Frame: ICRS
		Alt Name1: HR3522	Dec: +28 19 50.95 (28.33082d)	Proper Motion Dec: -234.05 mas/yr	B=6.82,	
		Alt Name2: GJ324A	Equinox: J2000	Parallax: 0.08103"	R=5.4,	
				Epoch of Position: 2000	I=5.0,	
				Radial Velocity: 26.6 km/sec	J=4.768,	
					H=4.265,	
					K=4.015	
Comments: This star is in a double system (common proper motions) with 55 Cancri B (GJ 324B), a much fainter (V=13) M4 dwarf that is 1.4-arcmin away. It also 4.6-arcmin away from the similarly bright (V=6.3) star 53 Cancri (BO Cancri).						

Proposal 13665 - 55-CANCRI STIS G750L 2 (14) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	ACQ, phase constrained	(4) 55-CANCRI	STIS/CCD, ACQ, F28X500II	MIRROR		PHASE 0.7832 TO 0.8094	Sequence 1-2 Non-Int in 55-CANCRI_STIS_G750L_2 (14)	.7 Secs (0.7 Secs)	[==>]	[1]
	2	55-CANCRI G750L Orbit 1 (619436)	(4) 55-CANCRI	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; WAVECAL=NO; CENTERAXIS2=500		Sequence 1-2 Non-Int in 55-CANCRI_STIS_G750L_2 (14)	36 Secs X 28 (1008 Secs)	[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)]	[1]

Exposures

Proposal 13665 - 55-CANCRI STIS G750L 2 (14) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

3	55-CANCRI (4) 55-CANCRI G750L Orbit 2 (619436)	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=500	Sequence 3-3 Non-Int in 55-CANCRI_STIS_G750L_2 (14)	36 Secs X 41 (1476 Secs)	
						[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)] [==>(Copy 33)] [==>(Copy 34)] [==>(Copy 35)] [==>(Copy 36)] [==>(Copy 37)] [==>(Copy 38)] [==>(Copy 39)] [==>(Copy 40)] [==>(Copy 41)]	[2]

Proposal 13665 - 55-CANCRI STIS G750L 2 (14) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

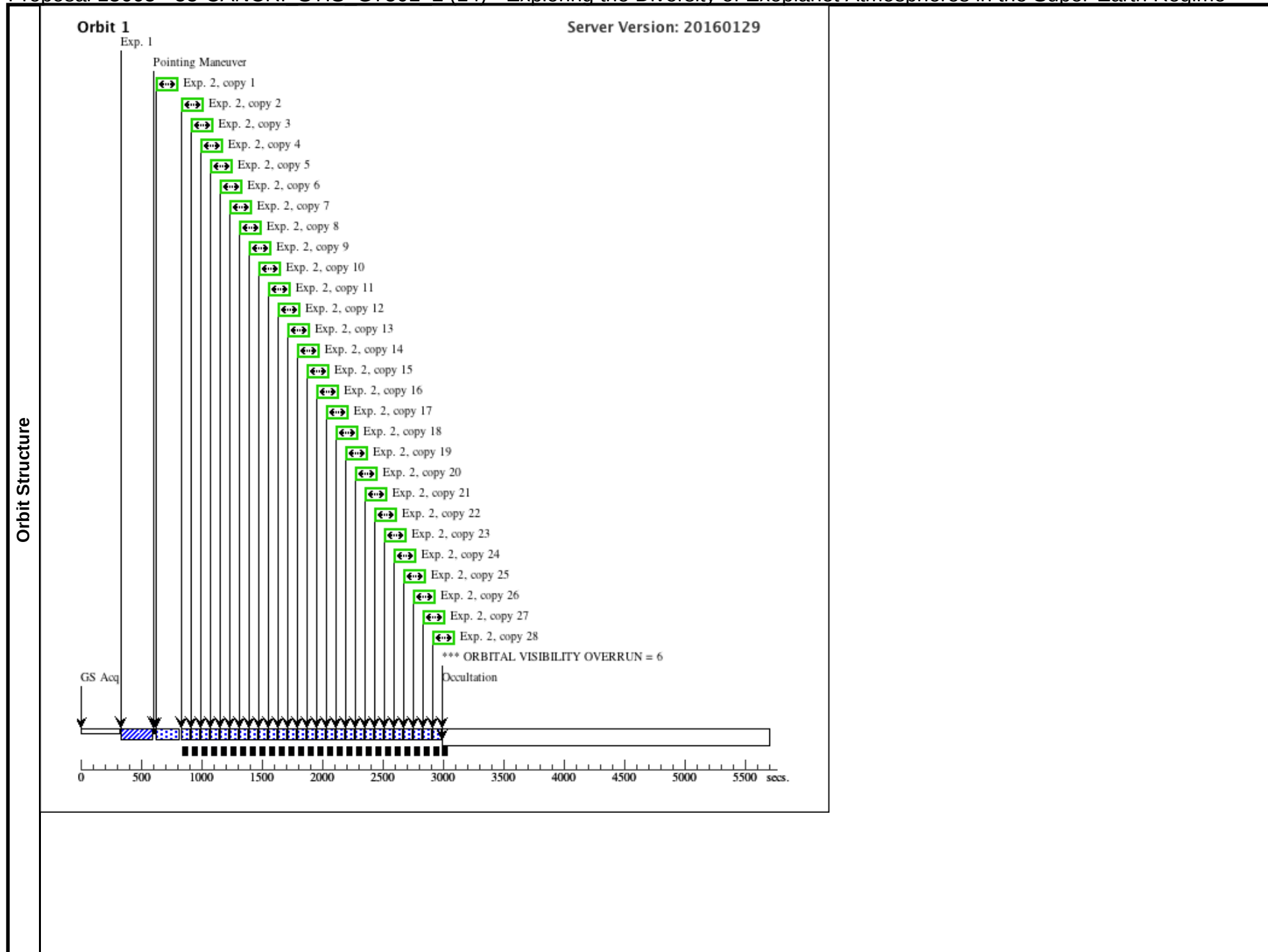
4	55-CANCRI (4) 55-CANCRI G750L Orbit 2 (619436)	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=500	Sequence 4-4 Non-Int in 55-CANCRI_STIS_G750L_2 (14)	36 Secs X 41 (1476 Secs)	
						[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)] [==>(Copy 33)] [==>(Copy 34)] [==>(Copy 35)] [==>(Copy 36)] [==>(Copy 37)] [==>(Copy 38)] [==>(Copy 39)] [==>(Copy 40)] [==>(Copy 41)]	[3]

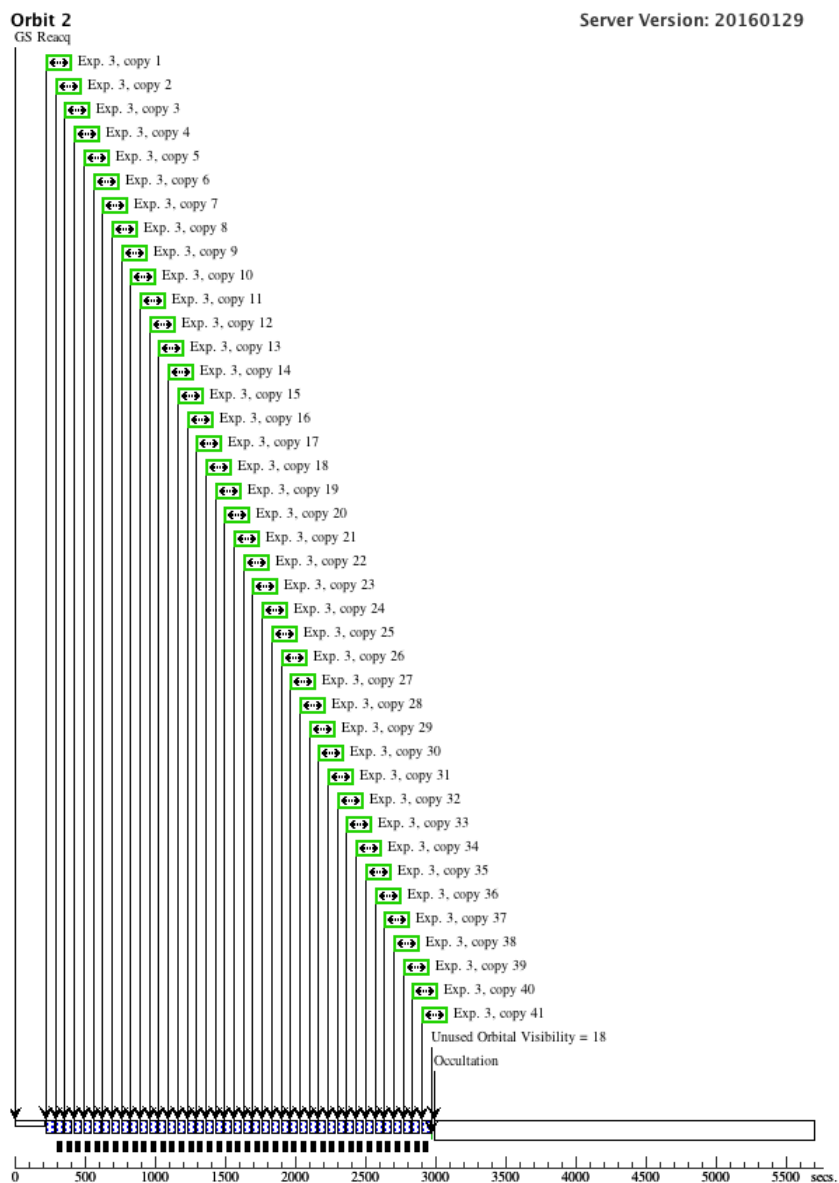
Proposal 13665 - 55-CANCRI STIS G750L 2 (14) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

5	55-CANCRI (4) 55-CANCRI G750L Orbit 4 (619436)	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=500	Sequence 5-7 Non-Int in 55-CANCRI_STIS_G750L_2 (14)	36 Secs X 41 (1476 Secs)	
						[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)] [==>(Copy 33)] [==>(Copy 34)] [==>(Copy 35)] [==>(Copy 36)] [==>(Copy 37)] [==>(Copy 38)] [==>(Copy 39)] [==>(Copy 40)] [==>(Copy 41)]	[4]

Proposal 13665 - 55-CANCRI STIS G750L 2 (14) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

6	GO-WAVE WAVE CAL	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A	Sequence 5-7 Non-In t in 55-CANCRI_ST IS_G750L_2 (14)	[==>]	[4]
<i>Comments: Explicit WAVECAL, auto-waves disabled</i>						
7	Fringe Flat CCDFLAT	STIS/CCD, ACCUM, 0.3X0.09	G750L 7751 A	Sequence 5-7 Non-In t in 55-CANCRI_ST IS_G750L_2 (14)	[==>(Copy 1)] [==>(Copy 2)]	[4]

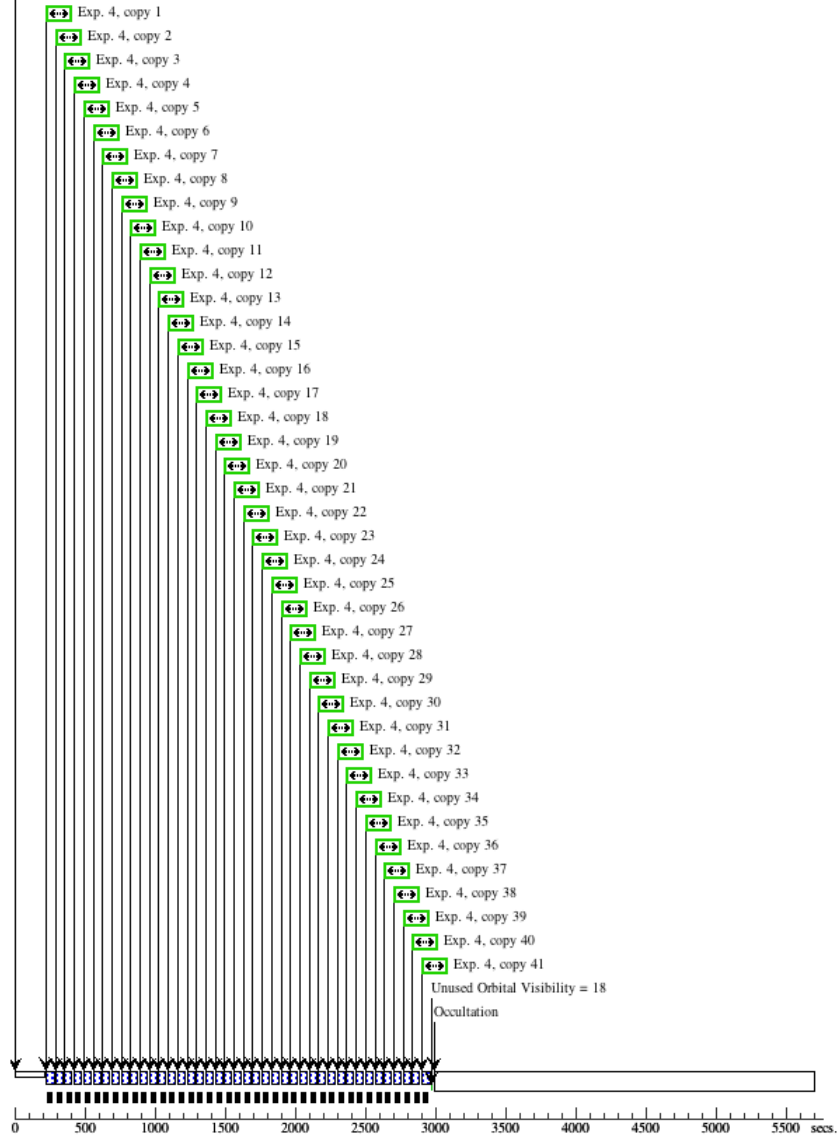


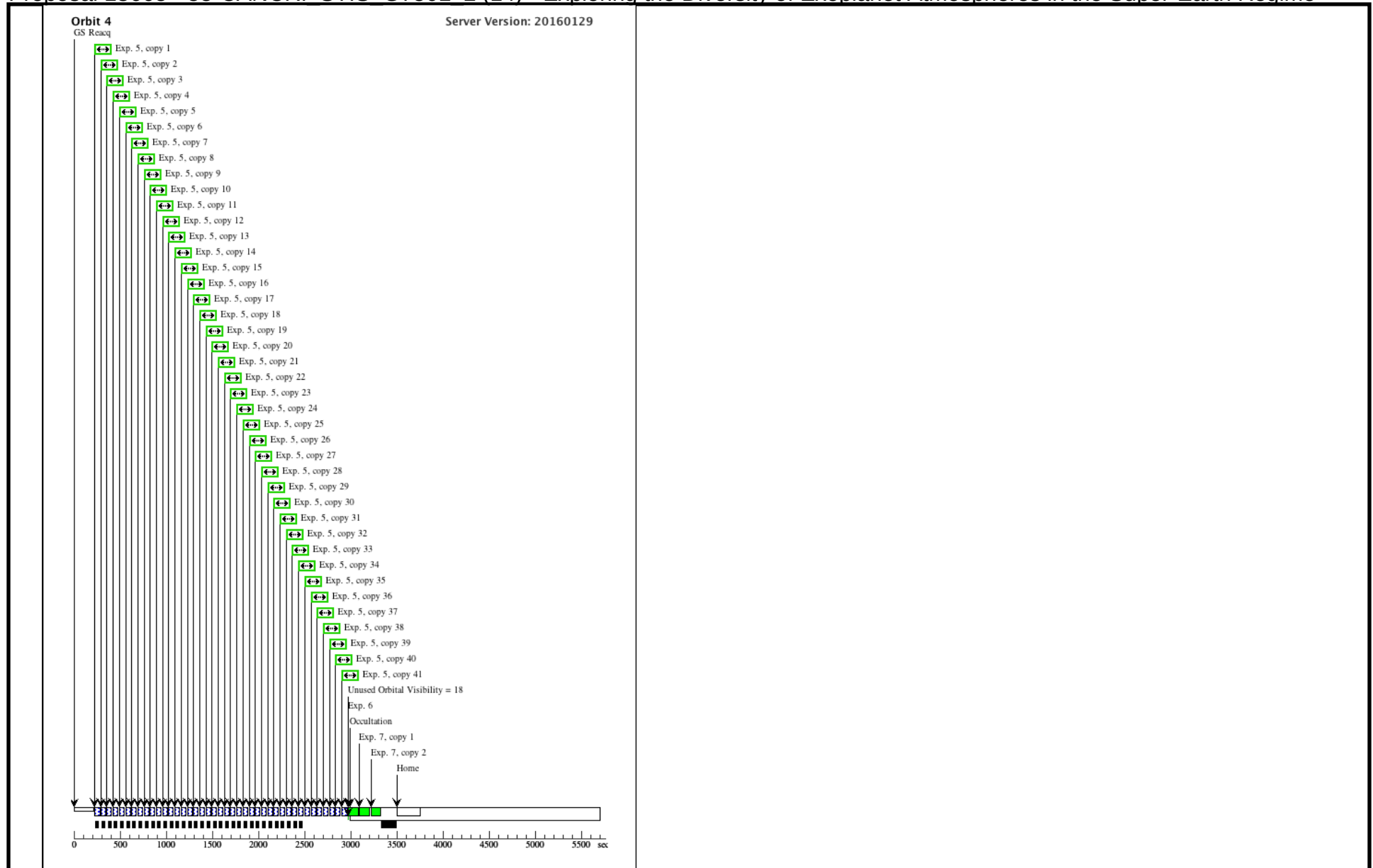


Orbit 3

GS Reacq

Server Version: 20160129





Proposal 13665 - 55-CANCRI STIS G750L 3 (15) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, 55-CANCRI_STIS_G750L_3 (15), completed					Sun Apr 10 01:17:22 GMT 2016
	Diagnostic Status: Warning					
	Scientific Instruments: STIS/CCD					
	Special Requirements: SCHED 100%; Period 0.7365460 D AND ZERO-PHASE HJD2455733.007					
Diagnostics	Comments: Third (of four) STIS/G750L transit of 55 Cancr <i>i</i> e.					
	It is essential for the four orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 in each 55 Cnc STIS visit observes 55 Cnc during the transit of 55 Cnc e. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.7732-0.8194 in planet orbital phase, corresponding to a 49 minute interval. In order to also ensure complete coverage of the transit light curve when combining the four visits, the first visit has been scheduled to begin within the first 10 minutes of the phase windows and the second visit has been scheduled to begin in the last 10 min of the phase windows.. The remaining visits can be arbitrarily placed within the entire 0.7732-0.8194 phase window. If the first or second visits place a significant barrier to scheduling, the requirements for all visits and may be relaxed to 0.7732-0.8194 phase range.					
	We disable auto-wavecalcs, which improves our observing efficiency and repeatability. We opt for only a single GO-wavecal (at the end of each visit) because the GO-wavecal requires a different aperture (52x0.2 instead of the 52x2 used for science observations). To minimize disruption to the observatory, we therefore defer the GO wavecal until the end of each visit. This strategy has been successfully employed in past programs, e.g. 12473 (PI Sing).					
	(55-CANCRI_STIS_G750L_3 (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	55-CANCRI	RA: 08 52 35.8109 (133.1492121d)	Proper Motion RA: -485.80 mas/yr	V=5.95	Reference Frame: ICRS
		Alt Name1: HR3522	Dec: +28 19 50.95 (28.33082d)	Proper Motion Dec: -234.05 mas/yr	B=6.82,	
		Alt Name2: GJ324A	Equinox: J2000	Parallax: 0.08103"	R=5.4,	
				Epoch of Position: 2000	I=5.0,	
				Radial Velocity: 26.6 km/sec	J=4.768,	
					H=4.265,	
					K=4.015	
Comments: This star is in a double system (common proper motions) with 55 Cancr <i>i</i> B (GJ 324B), a much fainter (V=13) M4 dwarf that is 1.4-arcmin away. It also 4.6-arcmin away from the similarly bright (V=6.3) star 53 Cancr <i>i</i> (BO Cancr <i>i</i>).						

Proposal 13665 - 55-CANCRI STIS G750L 3 (15) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ, phase constrained	(4) 55-CANCRI	STIS/CCD, ACQ, F28X500II	MIRROR		PHASE 0.7732 TO 0 .8194	Sequence 1-2 Non-In t in 55-CANCRI_ST IS_G750L_3 (15)	.7 Secs (0.7 Secs) [==>]	[1]
	2	55-CANCRI G750L Orbit 1 (619436)	(4) 55-CANCRI	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; WAVECAL=NO; CENTERAXIS2=50 0		Sequence 1-2 Non-In t in 55-CANCRI_ST IS_G750L_3 (15)	36 Secs X 28 (1008 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)]	[1]

Proposal 13665 - 55-CANCRI STIS G750L 3 (15) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

3	55-CANCRI (4) 55-CANCRI G750L Orbit 2 (619436)	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=500	Sequence 3-3 Non-In t in 55-CANCRI_ST IS_G750L_3 (15)	36 Secs X 41 (1476 Secs)	
						[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)] [==>(Copy 33)] [==>(Copy 34)] [==>(Copy 35)] [==>(Copy 36)] [==>(Copy 37)] [==>(Copy 38)] [==>(Copy 39)] [==>(Copy 40)] [==>(Copy 41)]	[2]

Proposal 13665 - 55-CANCRI STIS G750L 3 (15) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

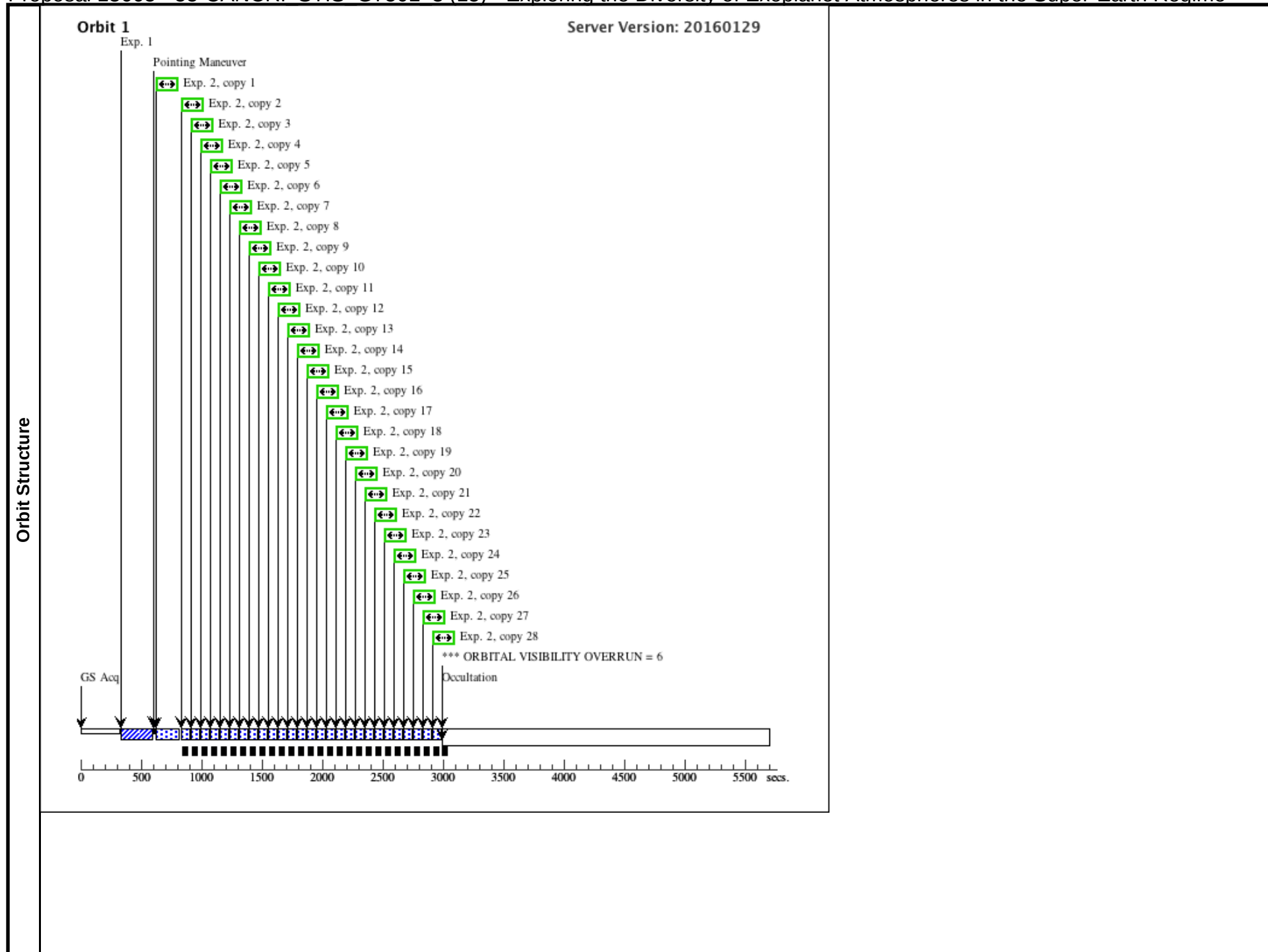
4	55-CANCRI (4) 55-CANCRI G750L Orbit 2 (619436)	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=500	Sequence 4-4 Non-Int in 55-CANCRI_STIS_G750L_3 (15)	36 Secs X 41 (1476 Secs)	
						[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)] [==>(Copy 33)] [==>(Copy 34)] [==>(Copy 35)] [==>(Copy 36)] [==>(Copy 37)] [==>(Copy 38)] [==>(Copy 39)] [==>(Copy 40)] [==>(Copy 41)]	[3]

Proposal 13665 - 55-CANCRI STIS G750L 3 (15) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

5	55-CANCRI (4) 55-CANCRI G750L Orbit 4 (619436)	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=500	Sequence 5-7 Non-Int in 55-CANCRI_STIS_G750L_3 (15)	36 Secs X 41 (1476 Secs)	
						[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)] [==>(Copy 33)] [==>(Copy 34)] [==>(Copy 35)] [==>(Copy 36)] [==>(Copy 37)] [==>(Copy 38)] [==>(Copy 39)] [==>(Copy 40)] [==>(Copy 41)]	[4]

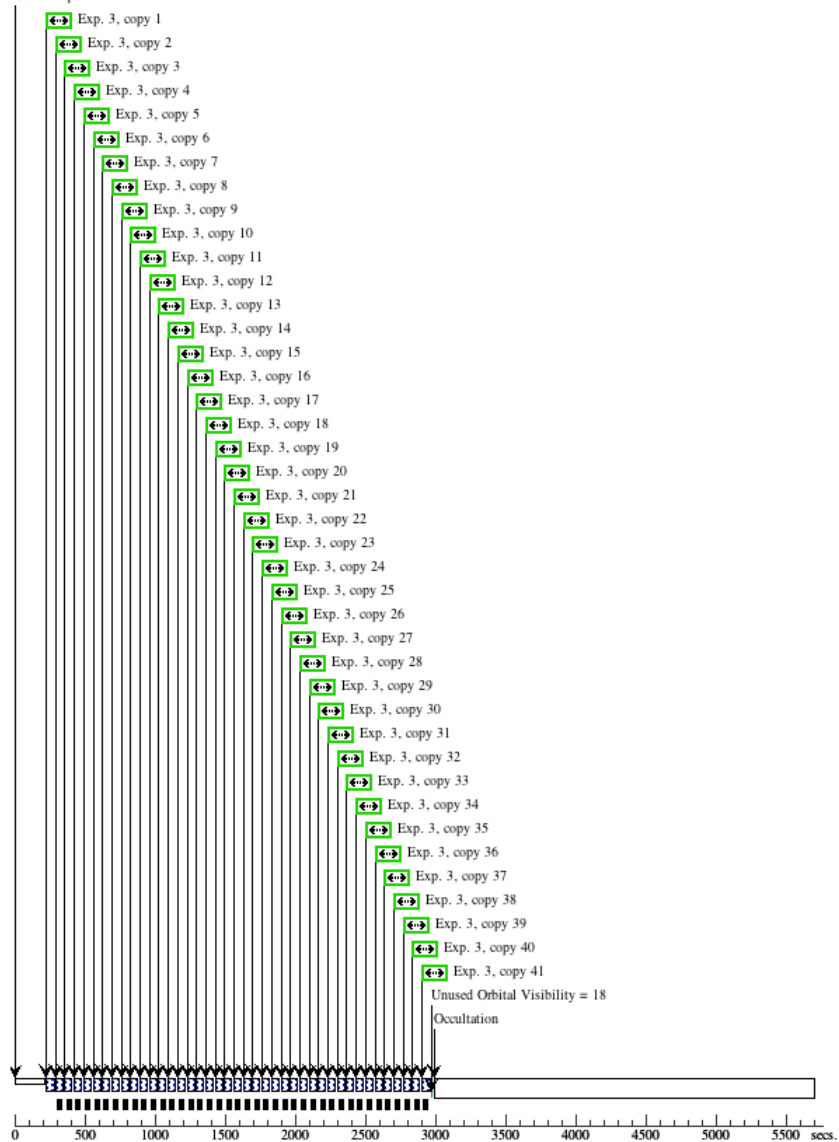
Proposal 13665 - 55-CANCRI STIS G750L 3 (15) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

6	GO-WAVE WAVE CAL	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A	Sequence 5-7 Non-In t in 55-CANCRI_ST IS_G750L_3 (15)	[==>]	[4]
<i>Comments: Explicit WAVECAL, auto-waves disabled</i>						
7	Fringe Flat CCDFLAT	STIS/CCD, ACCUM, 0.3X0.09	G750L 7751 A	Sequence 5-7 Non-In t in 55-CANCRI_ST IS_G750L_3 (15)	[==>(Copy 1)] [==>(Copy 2)]	[4]



Orbit 2
GS Reacq

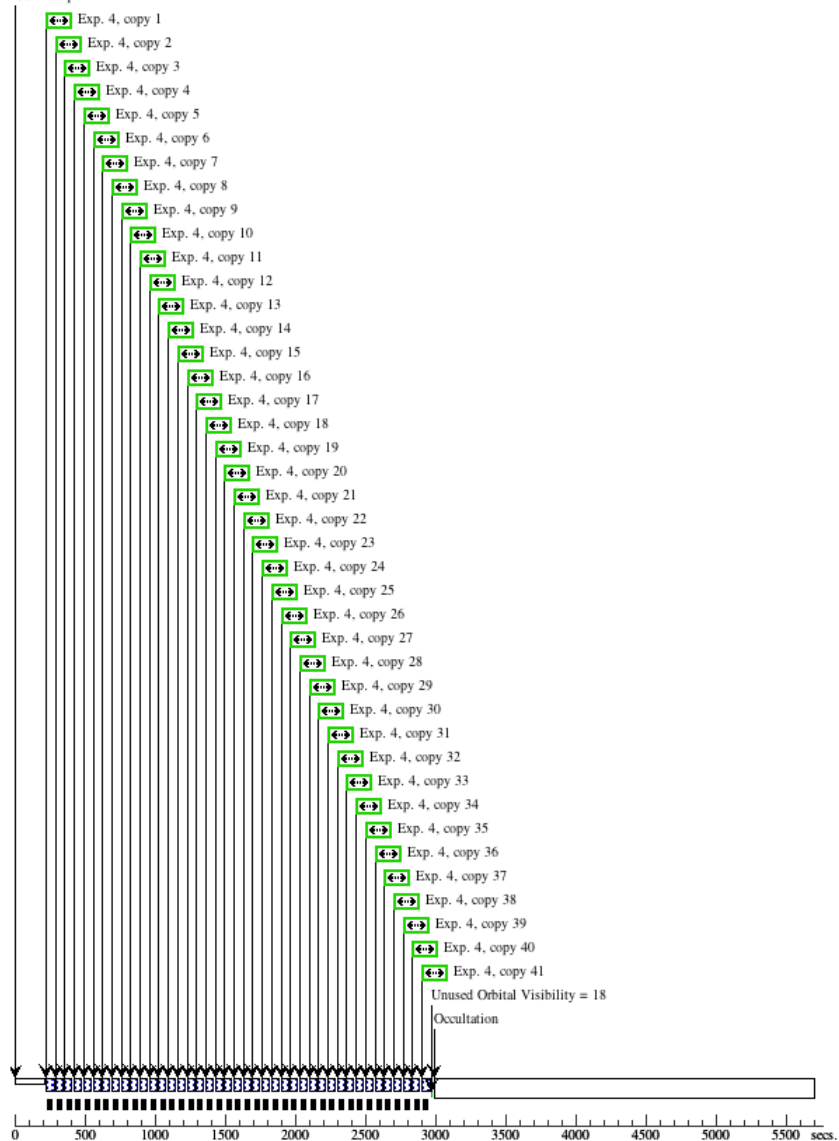
Server Version: 20160129

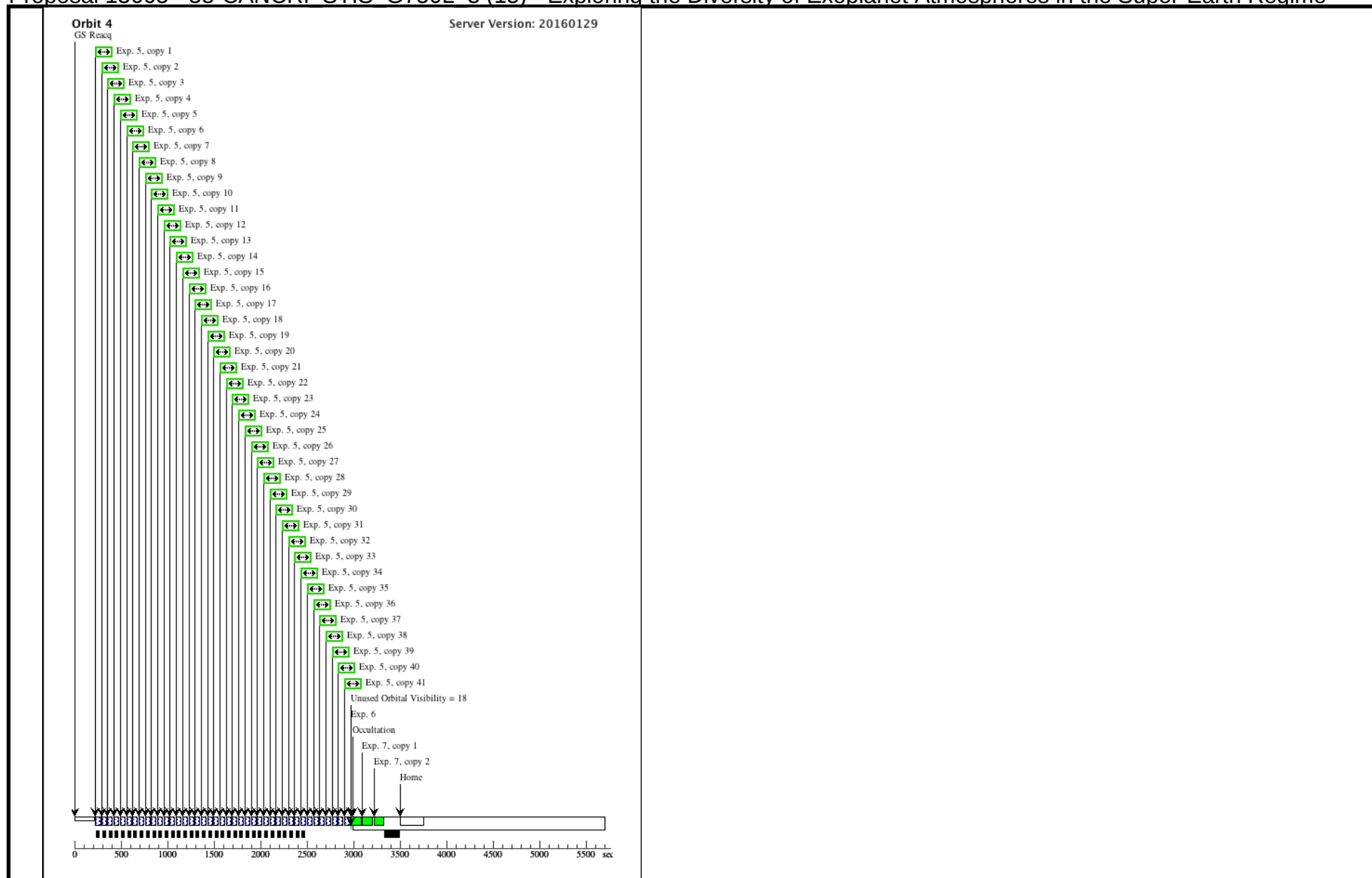


Orbit 3

GS Reacq

Server Version: 20160129





Diagnostics

[illegible]

Proposal 13665 - 55-CANCRI WFC3 G141 1 (17) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

	(55-CANCRI_WFC3_G141_1 (17)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING					
	(55-CANCRI_WFC3_G141_1 (17)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING					
	(55-CANCRI_WFC3_G141_1 (17)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING					
	(55-CANCRI_WFC3_G141_1 (17)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING					
	(55-CANCRI_WFC3_G141_1 (17)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING					
	(55-CANCRI_WFC3_G141_1 (17)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING					
	(55-CANCRI_WFC3_G141_1 (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
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Proposal 13665 - 55-CANCRI WFC3 G141 1 (17) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	55-Cancri, ACQ, phase constrained	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, IRSUB512	F132N	NSAMP=14; SAMP-SEQ=RAPID	PHASE 0.7732 TO 0.7827; GS ACQ SCENARIO SINGLE	Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17) Sequence 1-3 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17) Same Obset in Sequence 1-3 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17)	11.942378 Secs (11.942 Secs) [==>]	[1]
	2	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS10; NSAMP=2	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17) Sequence 1-3 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17) Same Obset in Sequence 1-3 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17)	8.774726 Secs X 15 (263.242 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)]	[1]

Proposal 13665 - 55-CANCRI WFC3 G141 1 (17) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

3	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID; NSAMP=11	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17) Sequence 1-3 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17) Same Obset in Sequence 1-3 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17)	9.383297 Secs (18.767 Secs) [==>(Forward)] [==>(Reverse)]	[1]
4	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS10; NSAMP=2	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17) Sequence 4-5 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17) Same Obset in Sequence 4-5 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17)	8.774726 Secs X 17 (298.341 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)]	[2]

Proposal 13665 - 55-CANCRI WFC3 G141 1 (17) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

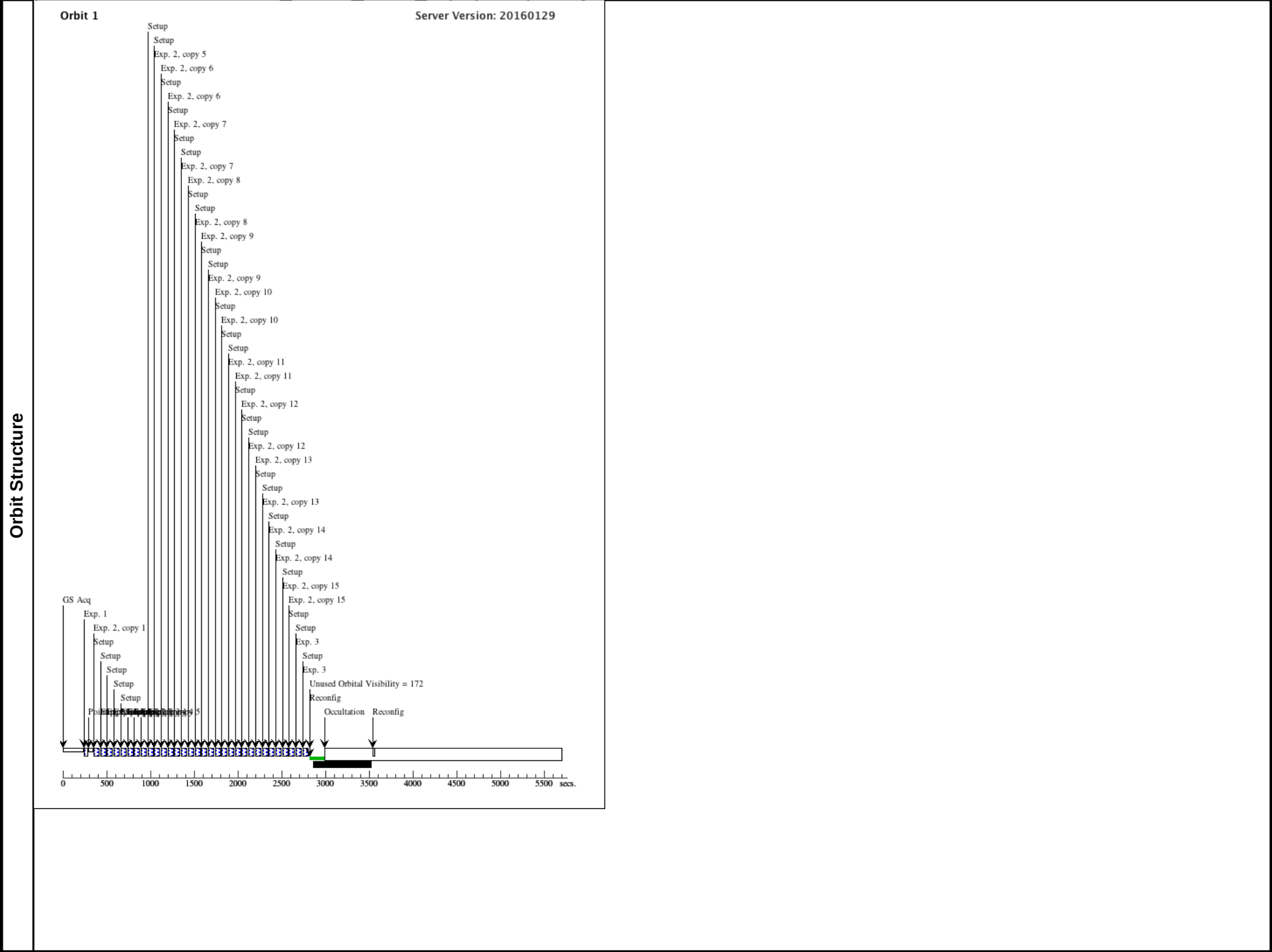
5	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID; NSAMP=12	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17) Sequence 4-5 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17) Same Obset in Sequence 4-5 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17)	10.236324 Secs (20.473 Secs) [==>(Forward)] [==>(Reverse)]	[2]
6	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS10; NSAMP=2	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17) Sequence 6-7 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17) Same Obset in Sequence 6-7 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17)	8.774726 Secs X 17 (298.341 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)]	[3]

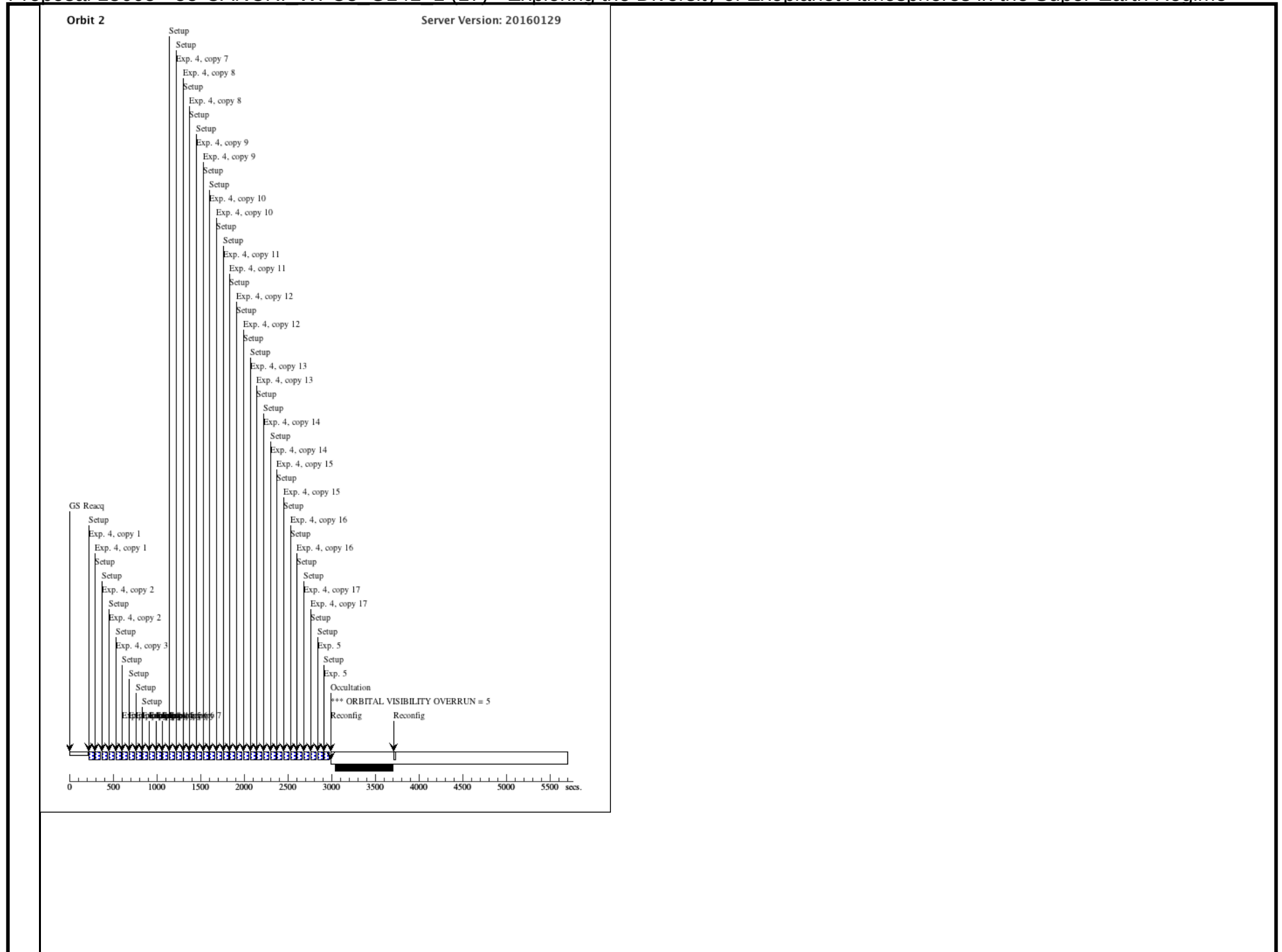
Proposal 13665 - 55-CANCRI WFC3 G141 1 (17) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

7	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID; NSAMP=12	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17) Sequence 6-7 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17) Same Obset in Sequence 6-7 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17)	10.236324 Secs (20.473 Secs) [==>(Forward)] [==>(Reverse)]	[3]
8	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS10; NSAMP=2	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17) Sequence 8-9 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17) Same Obset in Sequence 8-9 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17)	8.774726 Secs X 17 (298.341 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)]	[4]

Proposal 13665 - 55-CANCRI WFC3 G141 1 (17) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

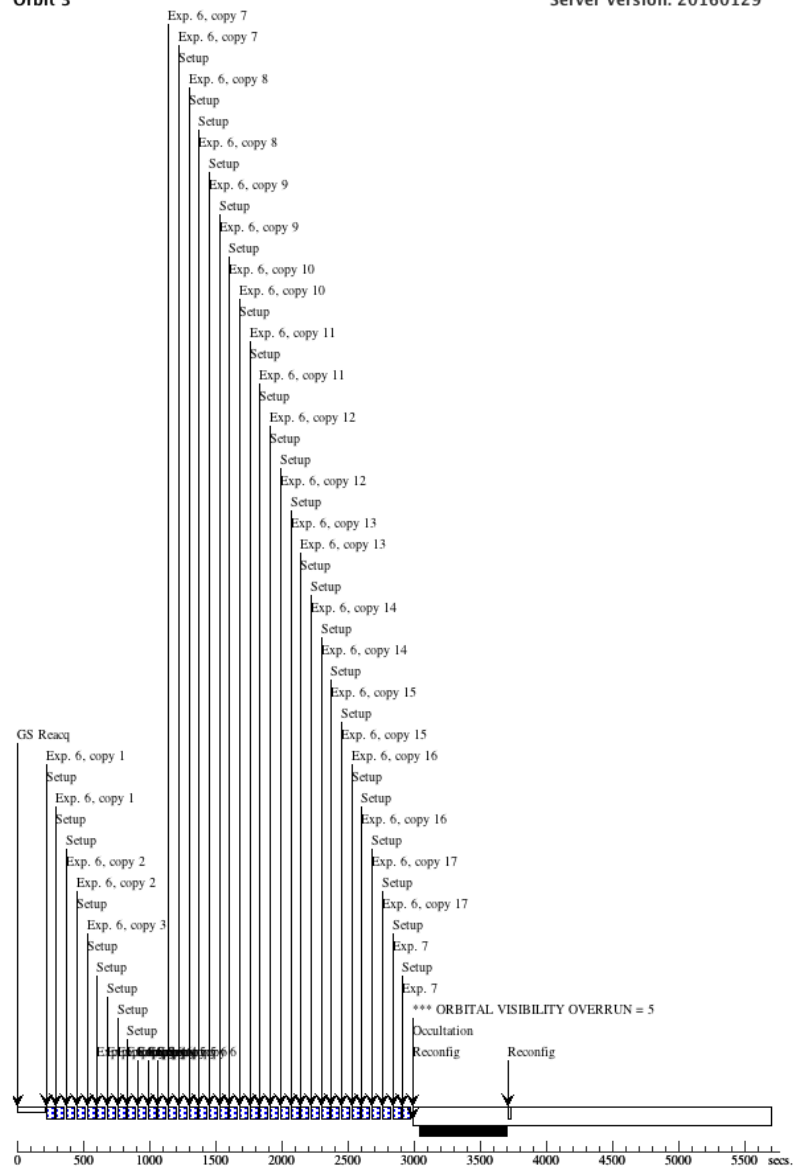
9	G141 Science Data (4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID ; NSAMP=12	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17) Sequence 8-9 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17) Same Obset in Sequence 8-9 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_1 (17)	10.236324 Secs (20.473 Secs) [==>(Forward)] [==>(Reverse)]	[4]
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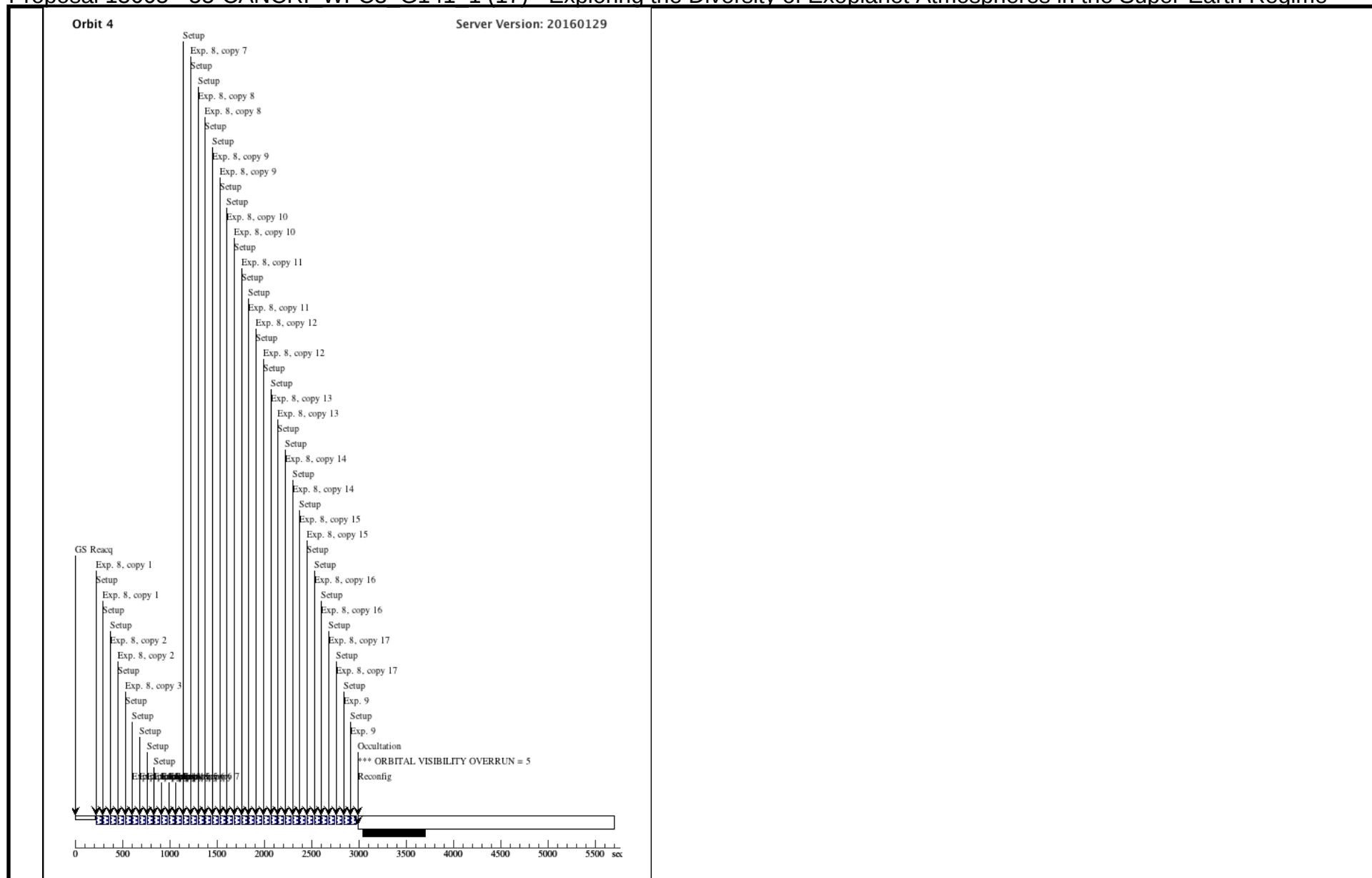




Orbit 3

Server Version: 20160129





Proposal 13665 - 55-CANCRI WFC3 G141 2 (18) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, 55-CANCRI_WFC3_G141_2 (18), withdrawn	Sun Apr 10 01:17:23 GMT 2016
	Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; Period 0.7365460 D AND ZERO-PHASE HJD2455733.007 Comments: Second (of four) WFC3/G141 transit visits of 55 Cnc e. <i>It is essential for the four orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 in each 55 Cnc STIS visit observes 55 Cnc during the transit of 55 Cnc e. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.7732-0.8194 in planet orbital phase, corresponding to a 49 minute interval. In order to also ensure complete coverage of the transit light curve when combining the four WFC3 visits, the first visit has been scheduled to begin within the first 10 minutes of the phase windows and the second visit has been scheduled to begin in the last 10 min of the phase windows.. The remaining visits can be arbitrarily placed within the entire 0.7732-0.8194 phase window. If the first or second visits place a significant barrier to scheduling, the requirements for all visits and may be relaxed to 0.7732-0.8194 phase range.</i>	

Proposal 13665 - 55-CANCRI WFC3 G141 2 (18) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Diagnostics

[illegible]

Proposal 13665 - 55-CANCRI WFC3 G141 2 (18) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

[illegible]

Proposal 13665 - 55-CANCRI WFC3 G141 2 (18) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	55-Cancr, ACQ, phase constrained	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, IRSUB512	F132N	NSAMP=14; SAMP-SEQ=RAPID	PHASE 0.8100 TO 0.8194; GS ACQ SCENARIO SINGLE	Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18) Sequence 1-3 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18) Same Obset in Sequence 1-3 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18)	11.942378 Secs (11.942 Secs) [==>]	[1]
	2	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS10; NSAMP=2	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18) Sequence 1-3 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18) Same Obset in Sequence 1-3 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18)	8.774726 Secs X 15 (263.242 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)]	[1]

Proposal 13665 - 55-CANCRI WFC3 G141 2 (18) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

3	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID; NSAMP=11	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18) Sequence 1-3 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18) Same Obset in Sequence 1-3 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18)	9.383297 Secs (18.767 Secs) [==>(Forward)] [==>(Reverse)]	[1]
4	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS10; NSAMP=2	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18) Sequence 4-5 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18) Same Obset in Sequence 4-5 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18)	8.774726 Secs X 17 (298.341 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)]	[2]

Proposal 13665 - 55-CANCRI WFC3 G141 2 (18) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

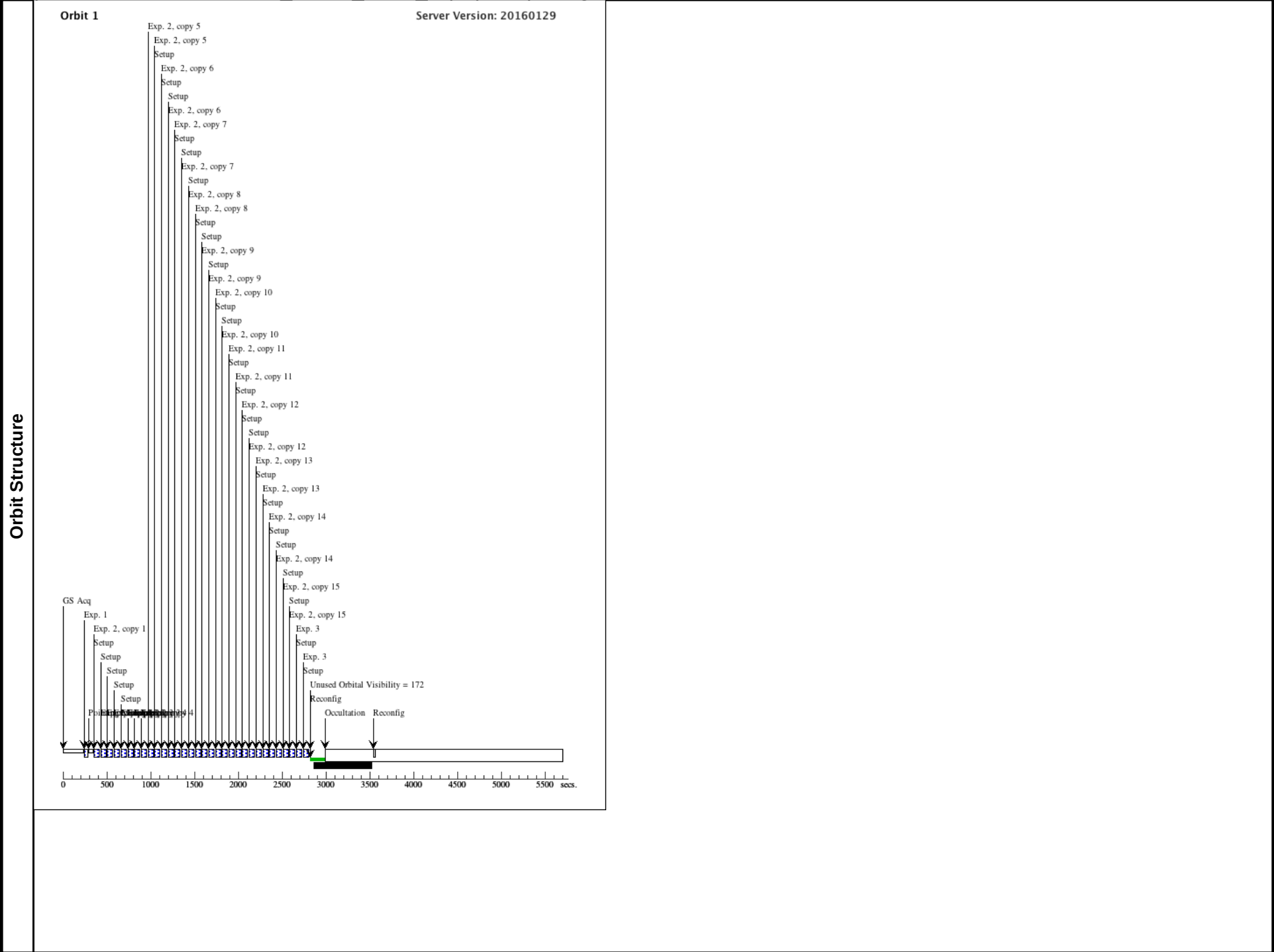
5	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID; NSAMP=12	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18) Sequence 4-5 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18) Same Obset in Sequence 4-5 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18)	10.236324 Secs (20.473 Secs) [==>(Forward)] [==>(Reverse)]	[2]
6	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS10; NSAMP=2	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18) Sequence 6-7 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18) Same Obset in Sequence 6-7 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18)	8.774726 Secs X 17 (298.341 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)]	[3]

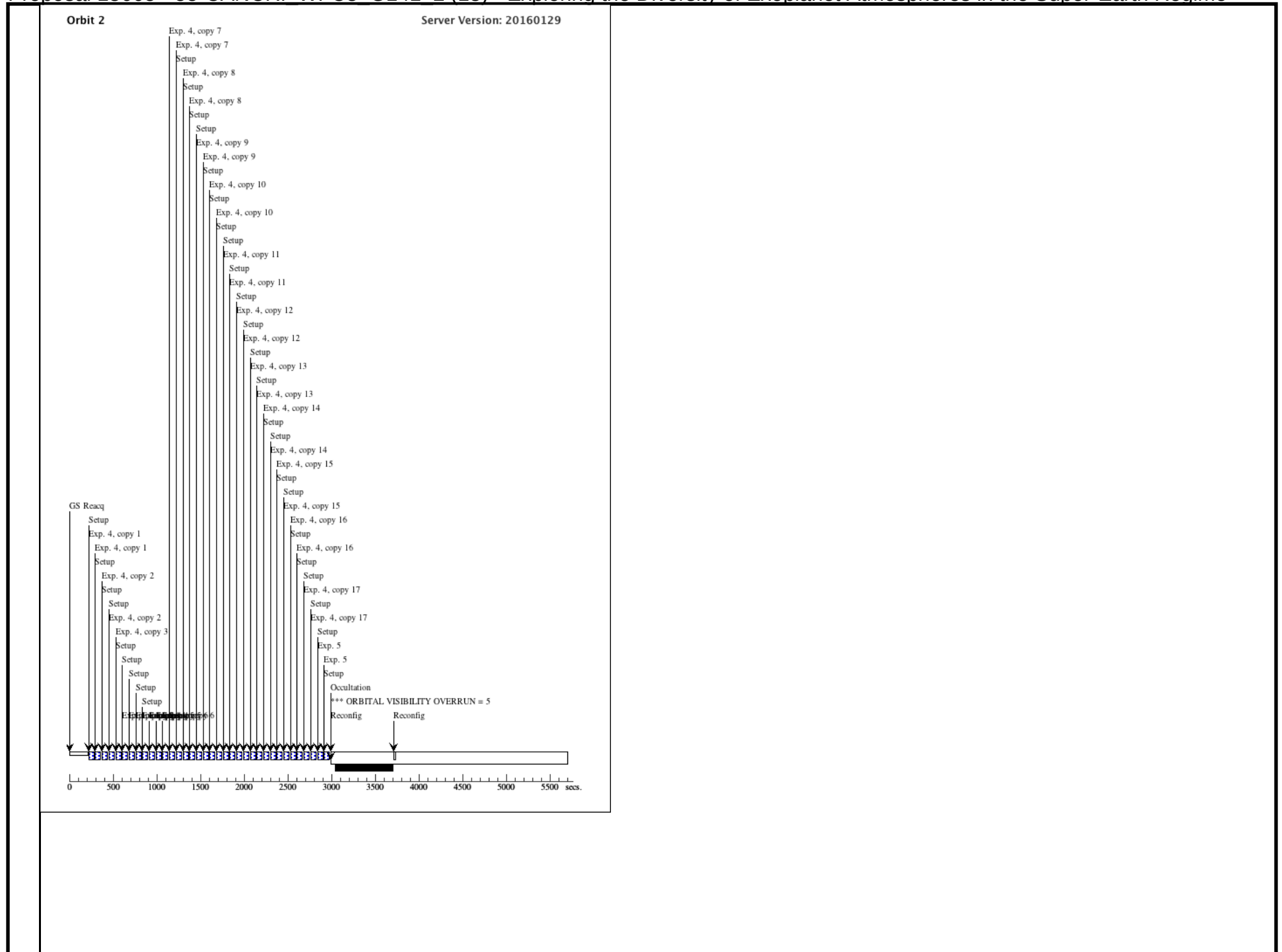
Proposal 13665 - 55-CANCRI WFC3 G141 2 (18) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

7	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID; NSAMP=12	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18) Sequence 6-7 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18) Same Obset in Sequence 6-7 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18)	10.236324 Secs (20.473 Secs) [==>(Forward)] [==>(Reverse)]	[3]
8	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS10; NSAMP=2	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18) Sequence 8-9 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18) Same Obset in Sequence 8-9 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18)	8.774726 Secs X 17 (298.341 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)]	[4]

Proposal 13665 - 55-CANCRI WFC3 G141 2 (18) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

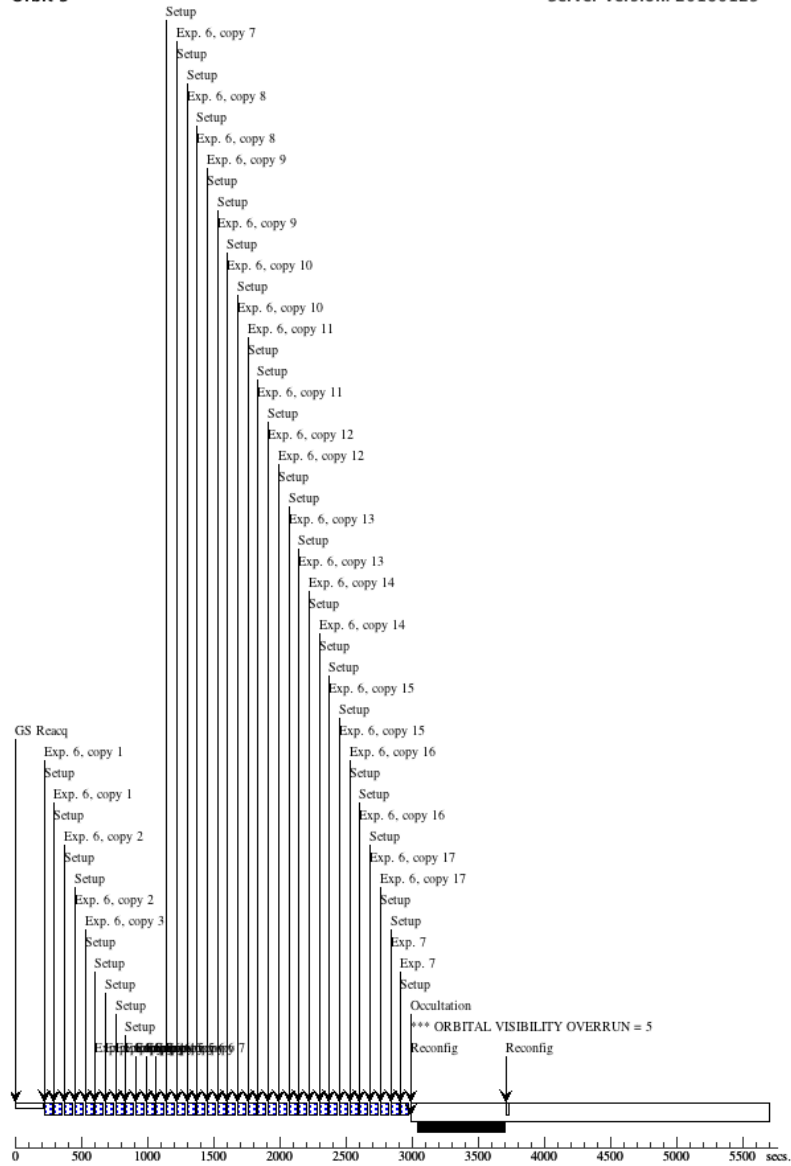
9	G141 Science Data (4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID ; NSAMP=12	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18) Sequence 8-9 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18) Same Obset in Sequence 8-9 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_2 (18)	10.236324 Secs (20.473 Secs) [==>(Forward)] [==>(Reverse)]	[4]
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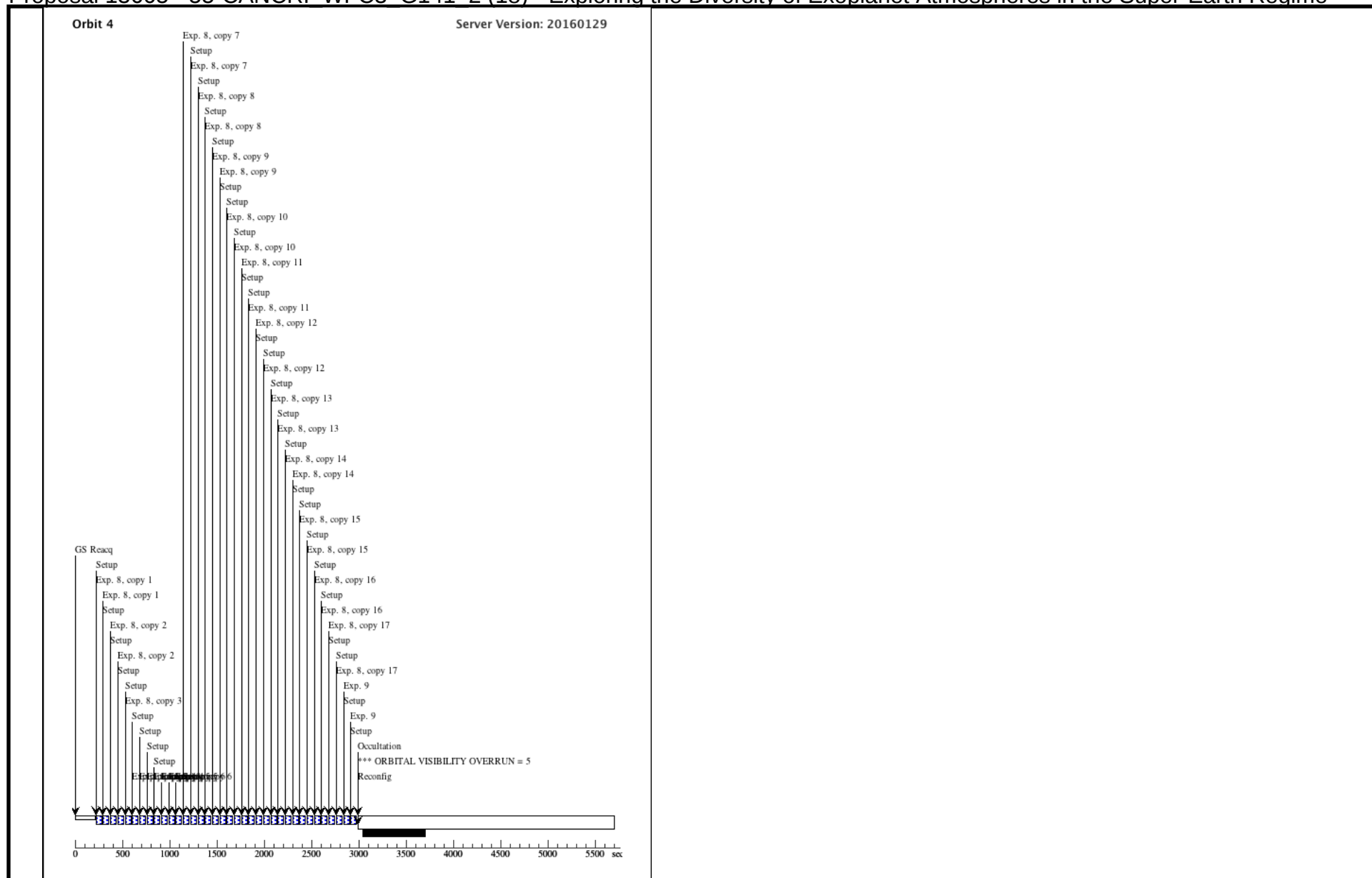




Orbit 3

Server Version: 20160129





Proposal 13665 - 55-CANCRI WFC3 G141 3 (19) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Sun Apr 10 01:17:23 GMT 2016

Visit

Proposal 13665, 55-CANCRI_WFC3_G141_3 (19), completed

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: SCHED 100%; Period 0.7365460 D AND ZERO-PHASE HJD2455733.007

Comments: Thrid (of four) WFC3/G141 transit visits of 55 Cnc e.

It is essential for the four orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 in each 55 Cnc STIS visit observes 55 Cnc during the transit of 55 Cnc e. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.7732-0.8194 in planet orbital phase, corresponding to a 49 minute interval. In order to also ensure complete coverage of the transit light curve when combining the four WFC3 visits, the first visit has been scheduled to begin within the first 10 minutes of the phase windows and the second visit has been scheduled to begin in the last 10 min of the phase windows.. The remaining visits can be arbitrarily placed within the entire 0.7732-0.8194 phase window. If the first or second visits place a significant barrier to scheduling, the requirements for all visits and may be relaxed to 0.7732-0.8194 phase range.

Diagnostics

[illegible]

Proposal 13665 - 55-CANCRI WFC3 G141 3 (19) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

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Proposal 13665 - 55-CANCRI WFC3 G141 3 (19) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	55-Cancri, ACQ, phase constrained	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, IRSUB512	F132N	NSAMP=14; SAMP-SEQ=RAPID	PHASE 0.7732 TO 0.8194; GS ACQ SCENARIO SINGLE	Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19) Sequence 1-3 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19) Same Obset in Sequence 1-3 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19)	11.942378 Secs (11.942 Secs) [==>]	[1]
	2	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS10; NSAMP=2	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19) Sequence 1-3 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19) Same Obset in Sequence 1-3 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19)	8.774726 Secs X 15 (263.242 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)]	[1]

Proposal 13665 - 55-CANCRI WFC3 G141 3 (19) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

3	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID; NSAMP=11	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19) Sequence 1-3 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19) Same Obset in Sequence 1-3 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19)	9.383297 Secs (18.767 Secs) [==>(Forward)] [==>(Reverse)]	[1]
4	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS10; NSAMP=2	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19) Sequence 4-5 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19) Same Obset in Sequence 4-5 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19)	8.774726 Secs X 17 (298.341 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)]	[2]

Proposal 13665 - 55-CANCRI WFC3 G141 3 (19) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

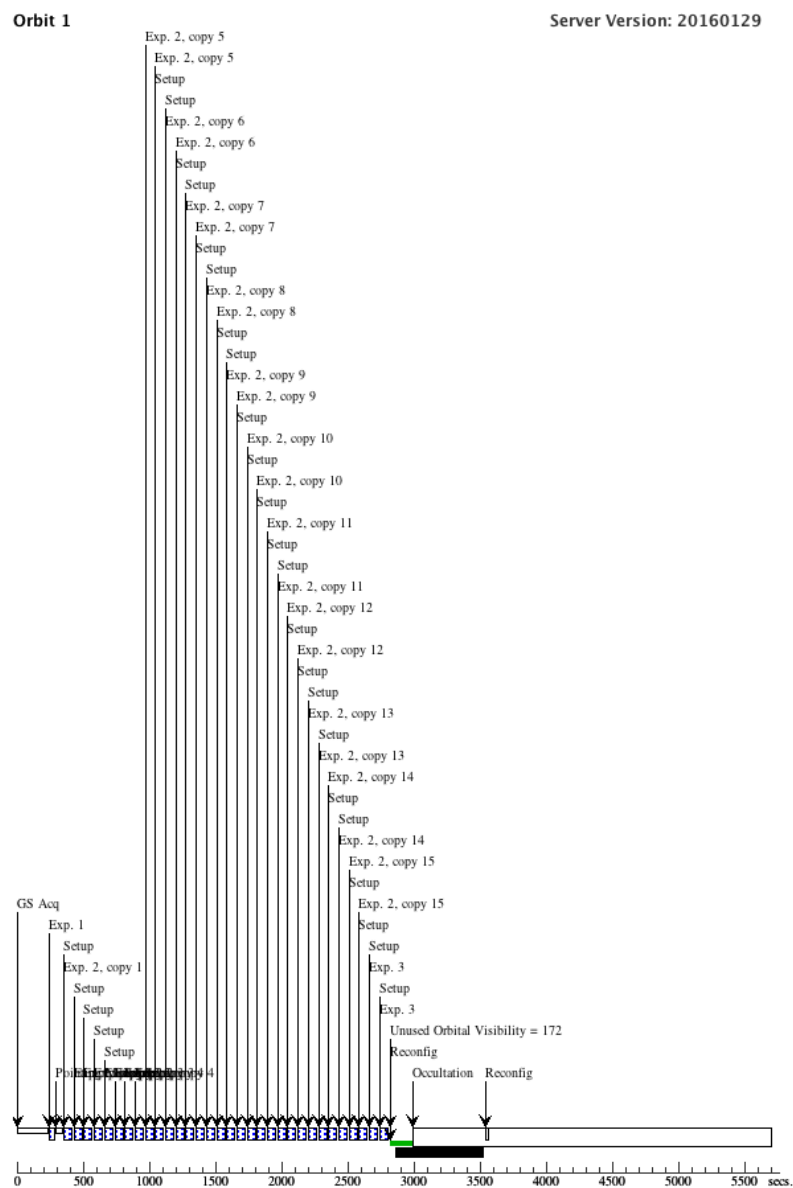
5	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID; NSAMP=12	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19) Sequence 4-5 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19) Same Obset in Sequence 4-5 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19)	10.236324 Secs (20.473 Secs) [==>(Forward)] [==>(Reverse)]	[2]
6	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS10; NSAMP=2	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19) Sequence 6-7 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19) Same Obset in Sequence 6-7 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19)	8.774726 Secs X 17 (298.341 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)]	[3]

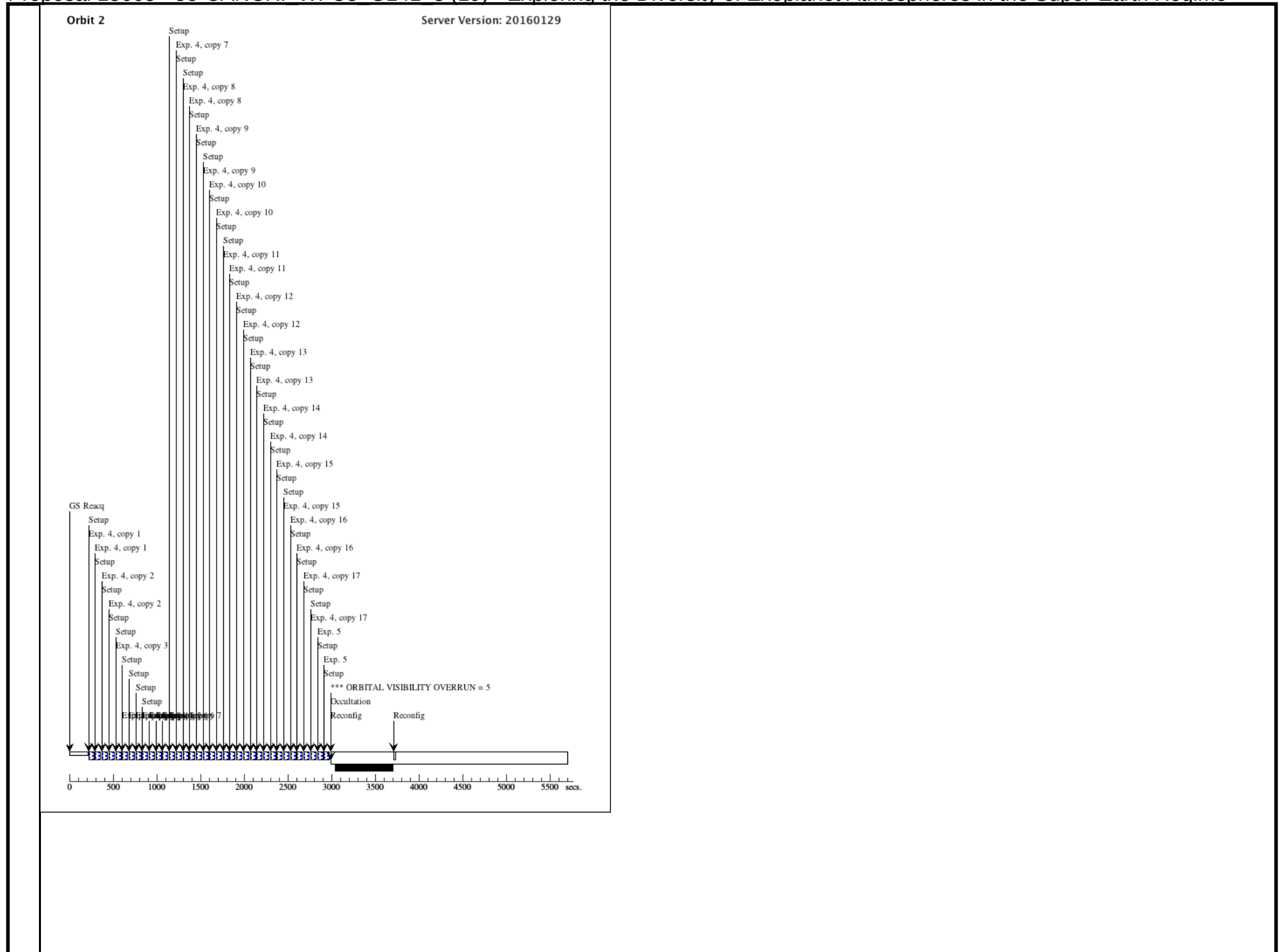
Proposal 13665 - 55-CANCRI WFC3 G141 3 (19) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

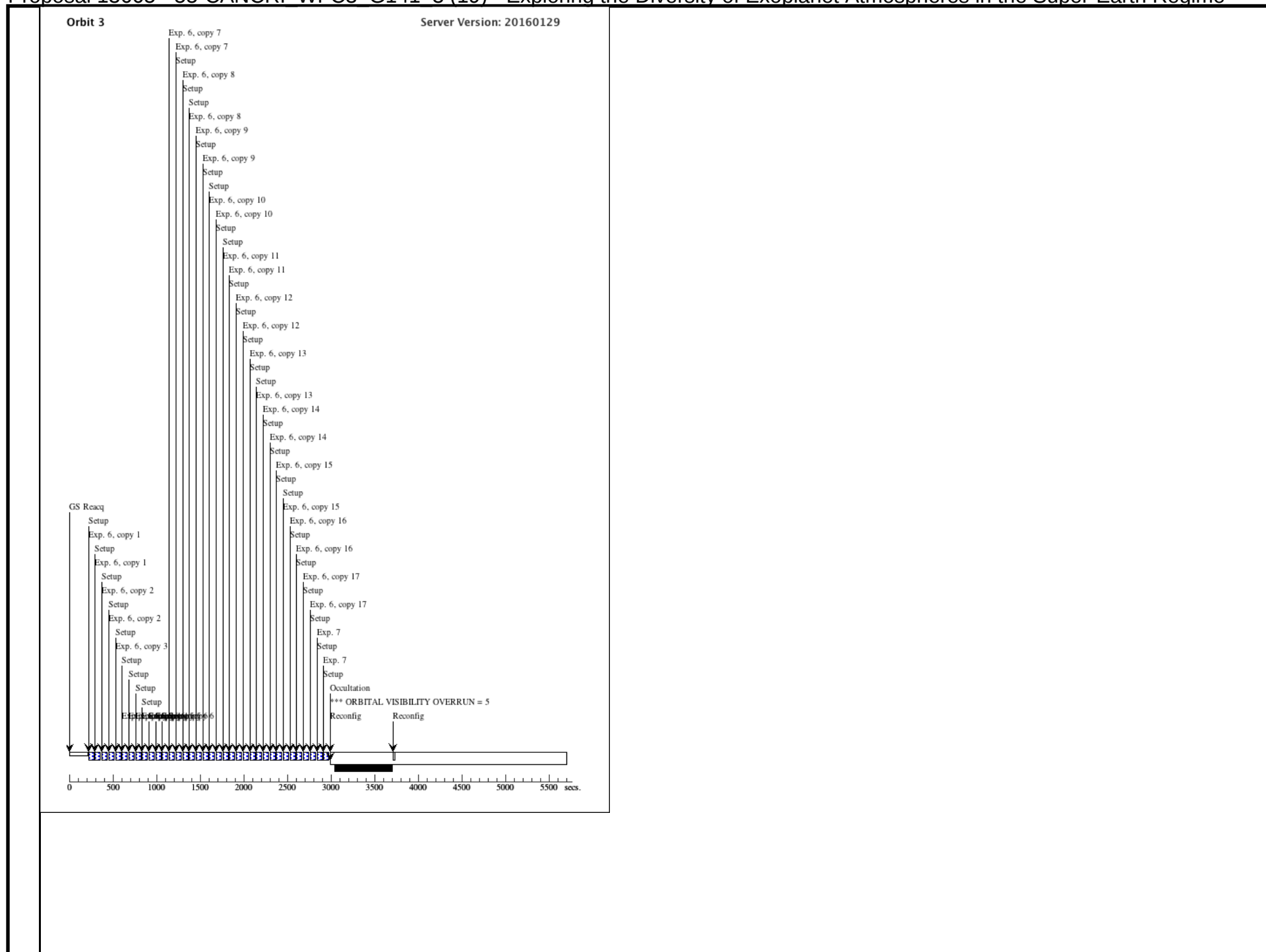
7	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID; NSAMP=12	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19) Sequence 6-7 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19) Same Obset in Sequence 6-7 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19)	10.236324 Secs (20.473 Secs) [==>(Forward)] [==>(Reverse)]	[3]
8	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS10; NSAMP=2	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19) Sequence 8-9 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19) Same Obset in Sequence 8-9 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19)	8.774726 Secs X 17 (298.341 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)]	[4]

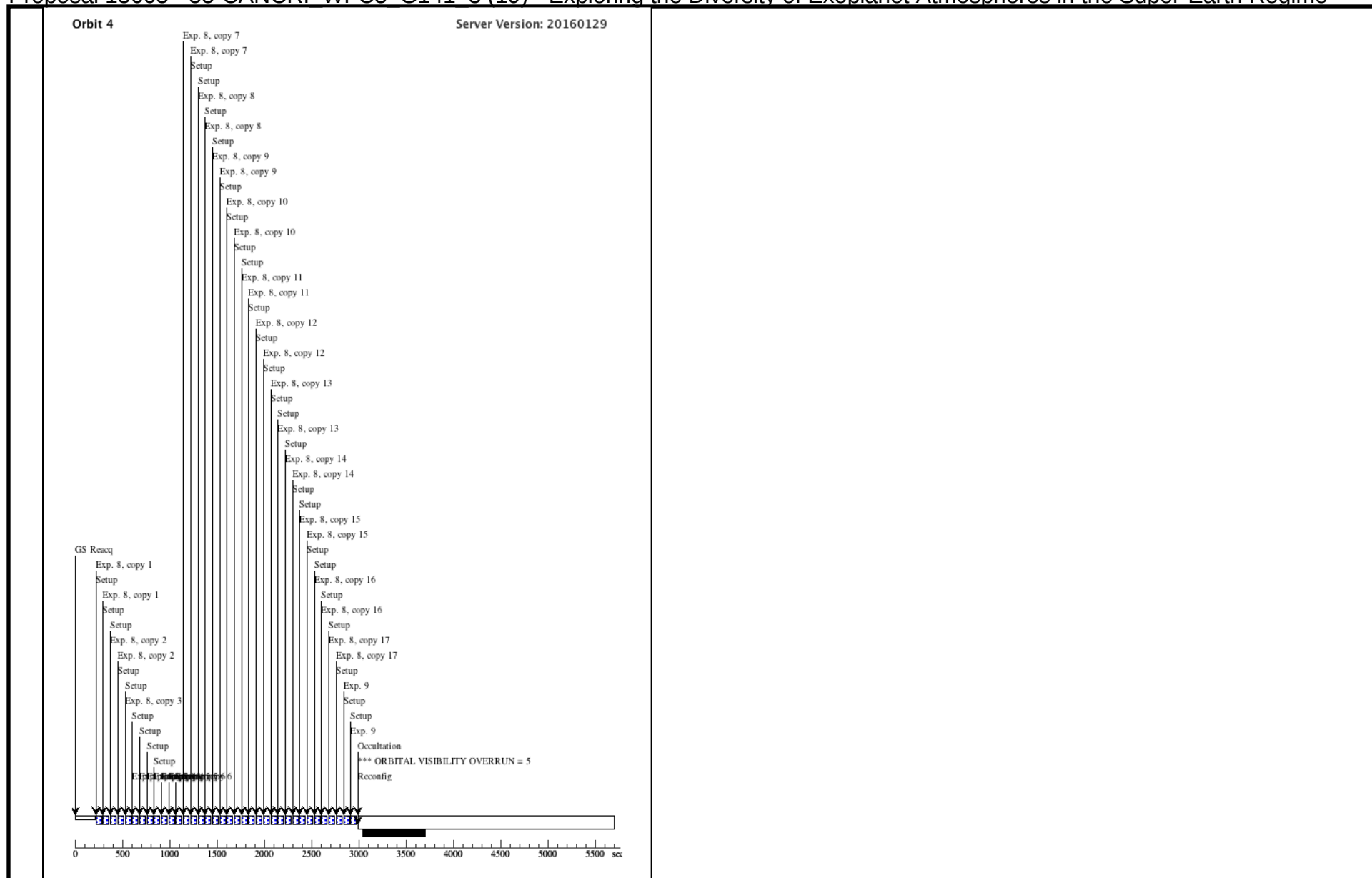
Proposal 13665 - 55-CANCRI WFC3 G141 3 (19) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

9	G141 Science Data (4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID ; NSAMP=12	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19) Sequence 8-9 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19) Same Obset in Sequence 8-9 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_3 (19)	10.236324 Secs (20.473 Secs) [==>(Forward)] [==>(Reverse)]	[4]
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Diagnostics

[illegible]

Proposal 13665 - 55-CANCRI WFC3 G141 4 (20) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

	(55-CANCRI_WFC3_G141_4 (20)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING (55-CANCRI_WFC3_G141_4 (20)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING (55-CANCRI_WFC3_G141_4 (20)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (55-CANCRI_WFC3_G141_4 (20)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING (55-CANCRI_WFC3_G141_4 (20)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING (55-CANCRI_WFC3_G141_4 (20)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING (55-CANCRI_WFC3_G141_4 (20)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING (55-CANCRI_WFC3_G141_4 (20)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING (55-CANCRI_WFC3_G141_4 (20)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING (55-CANCRI_WFC3_G141_4 (20)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING 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Proposal 13665 - 55-CANCRI WFC3 G141 4 (20) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	55-Cancri, ACQ, phase constrained	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, IRSUB512	F132N	NSAMP=14; SAMP-SEQ=RAPID	PHASE 0.7732 TO 0.8194; GS ACQ SCENARIO SINGLE	Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20) Sequence 1-3 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20) Same Obset in Sequence 1-3 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20)	11.942378 Secs (11.942 Secs) [==>]	[1]
	2	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS10; NSAMP=2	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20) Sequence 1-3 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20) Same Obset in Sequence 1-3 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20)	8.774726 Secs X 15 (263.242 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)]	[1]

Proposal 13665 - 55-CANCRI WFC3 G141 4 (20) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

3	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID; NSAMP=11	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20) Sequence 1-3 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20) Same Obset in Sequence 1-3 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20)	9.383297 Secs (18.767 Secs) [==>(Forward)] [==>(Reverse)]	[1]
4	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS10; NSAMP=2	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20) Sequence 4-5 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20) Same Obset in Sequence 4-5 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20)	8.774726 Secs X 17 (298.341 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)]	[2]

Proposal 13665 - 55-CANCRI WFC3 G141 4 (20) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

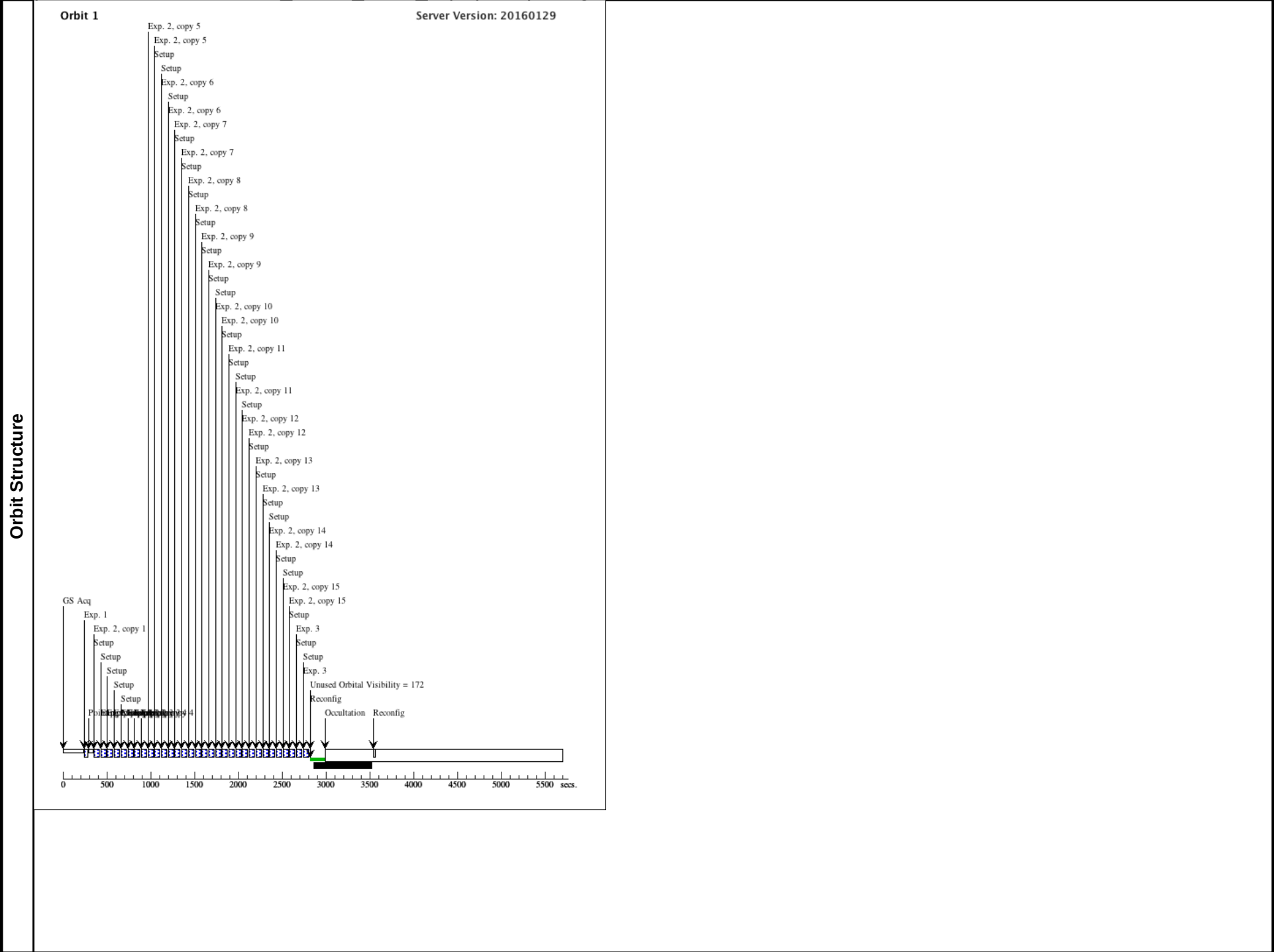
5	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID; NSAMP=12	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20) Sequence 4-5 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20) Same Obset in Sequence 4-5 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20)	10.236324 Secs (20.473 Secs) [==>(Forward)] [==>(Reverse)]	[2]
6	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS10; NSAMP=2	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20) Sequence 6-7 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20) Same Obset in Sequence 6-7 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20)	8.774726 Secs X 17 (298.341 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)]	[3]

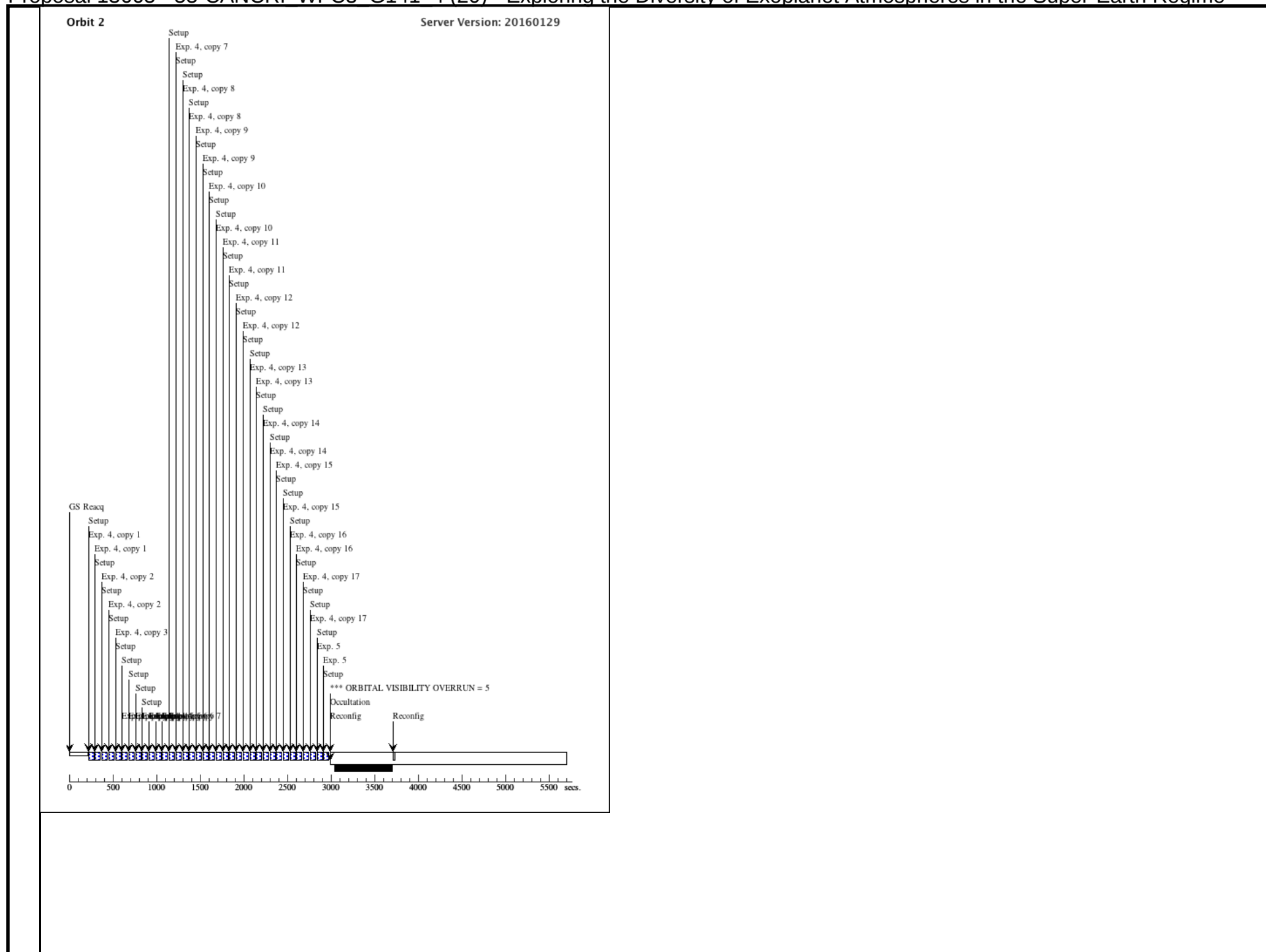
Proposal 13665 - 55-CANCRI WFC3 G141 4 (20) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

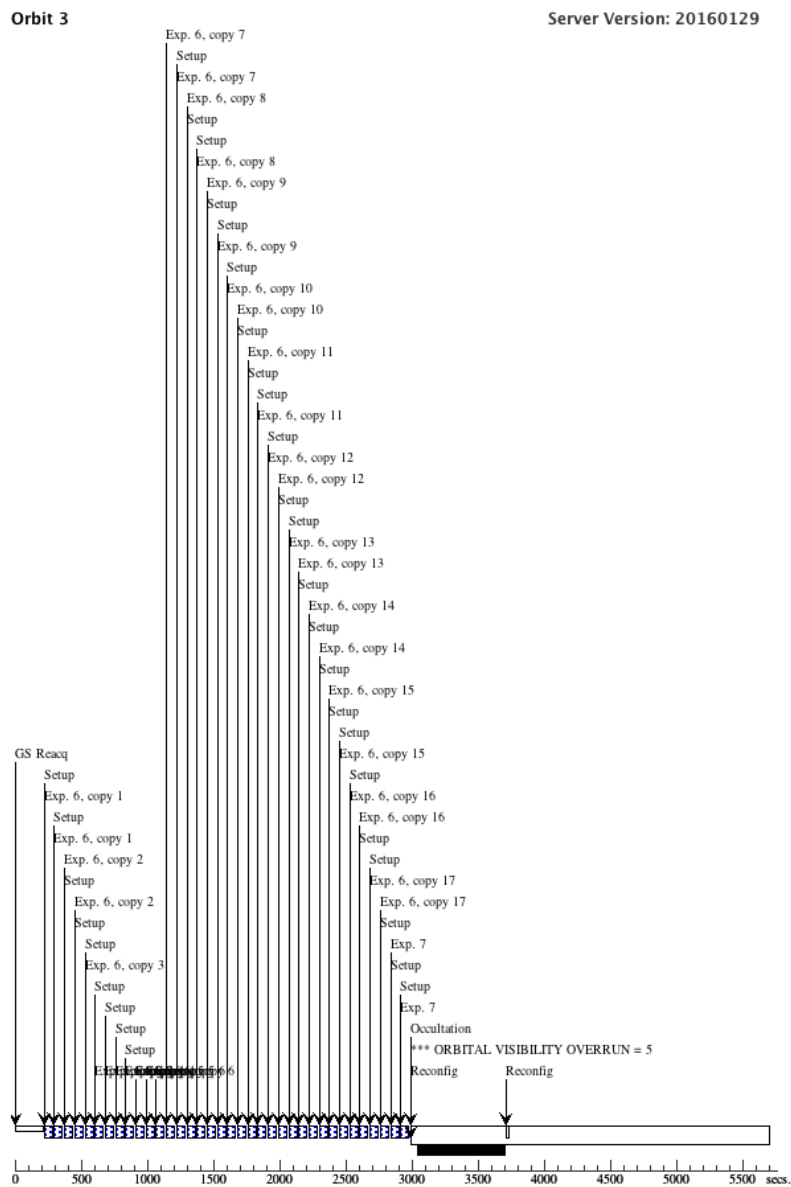
7	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID; NSAMP=12	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20) Sequence 6-7 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20) Same Obset in Sequence 6-7 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20)	10.236324 Secs (20.473 Secs) [==>(Forward)] [==>(Reverse)]	[3]
8	G141 Science Data	(4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS10; NSAMP=2	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20) Sequence 8-9 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20) Same Obset in Sequence 8-9 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20)	8.774726 Secs X 17 (298.341 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)]	[4]

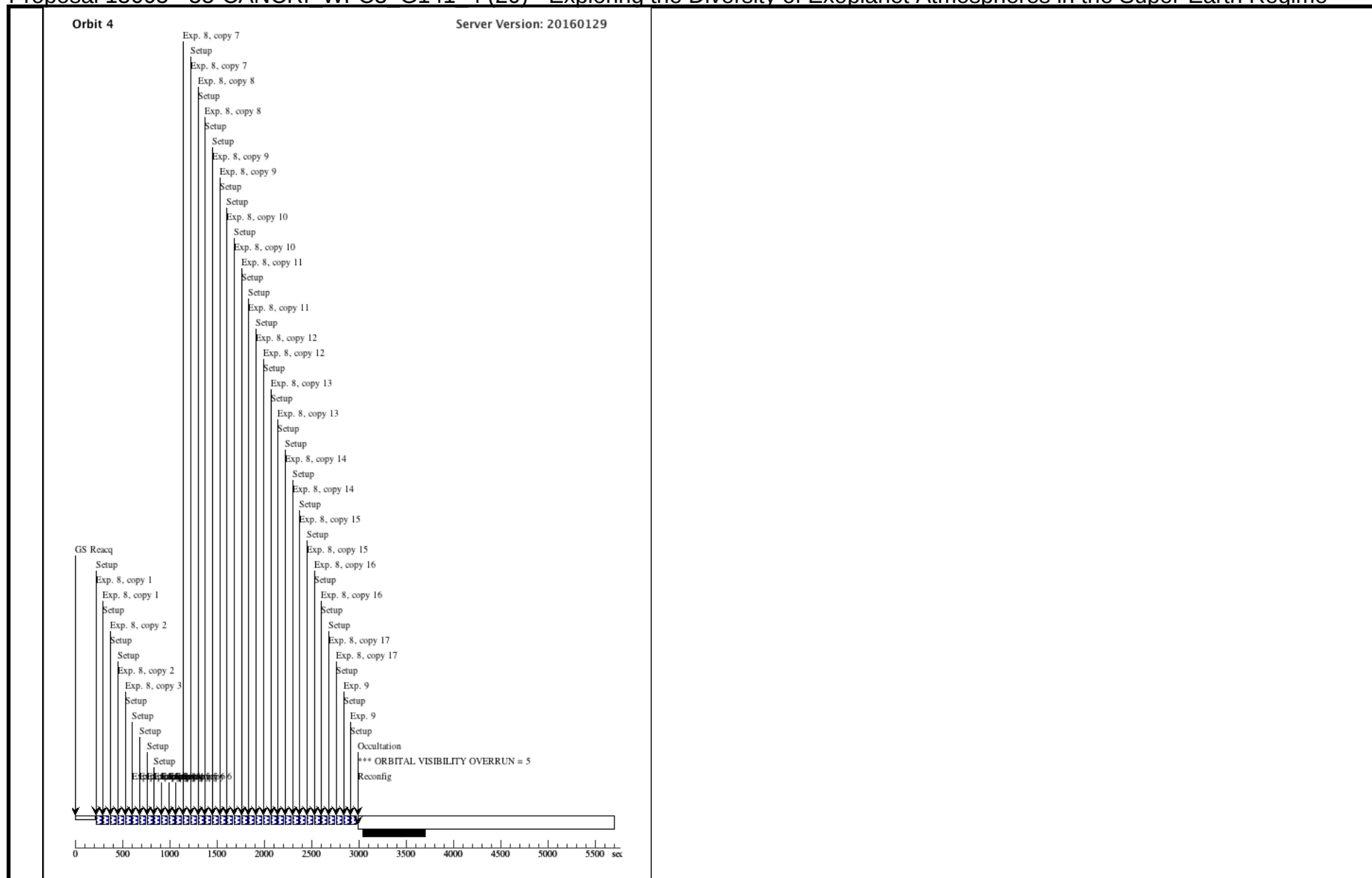
Proposal 13665 - 55-CANCRI WFC3 G141 4 (20) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

9	G141 Science Data (4) 55-CANCRI	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID ; NSAMP=12	POS TARG -13.5,-36; SPATIAL SCAN 4.8,90.0 Degrees, Round trip	Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20) Sequence 8-9 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20) Same Obset in Sequence 8-9 Non-Int in Same Guide Stars in 55-CANCRI_WFC3_G141_4 (20)	10.236324 Secs (20.473 Secs) [==>(Forward)] [==>(Reverse)]	[4]
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Proposal 13665 - GJ-3470 STIS G750L 1 (21) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

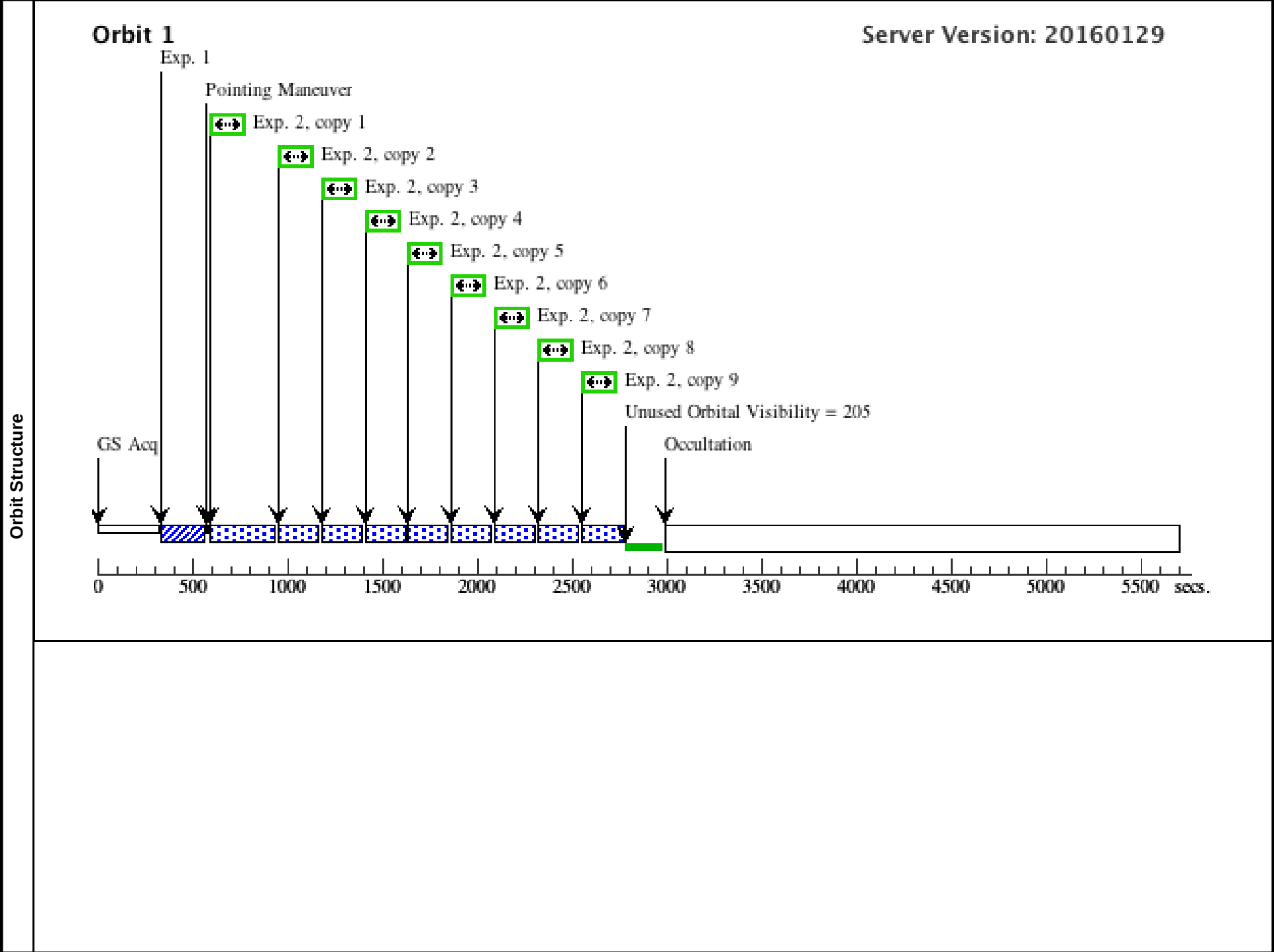
Visit	Proposal 13665, GJ-3470_STIS_G750L_1 (21), completed					Sun Apr 10 01:17:24 GMT 2016
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: STIS/CCD					
	Special Requirements: SCHED 100%; Period 3.3366487 D AND ZERO-PHASE HJD2455983.70472					
	Comments: First (of three) STIS/G750L transit of GJ 3470b.					
Fixed Targets	It is essential for the four orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 in each GJ-3470 STIS visit observes GJ-3470 during the transit of GJ-3470b. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.9515-0.9580 in planet orbital phase, corresponding to a 31 minute interval. In order to also ensure complete coverage of the transit light curve when combining the three STIS visits, the first visit has been scheduled to begin within the first 10 minutes of the phase windows and the second visit has been scheduled to begin in the last 10 min of the phase windows. The remaining visits can be arbitrarily placed within the entire 0.9515-0.9580 phase window. If the first or second visits place a significant barrier to scheduling, the requirements for all visits and may be relaxed to 0.9515-0.9580 phase range.					
	We disable auto-wavecalcs, which improves our observing efficiency and repeatability. We opt for only a single GO-wavecal (at the end of each visit) because the GO-wavecal requires a different aperture (52x0.2 instead of the 52x2 used for science observations). To minimize disruption to the observatory, we therefore defer the GO wavecal until the end of each visit. This strategy has been successfully employed in past programs, e.g. 12473 (PI Sing).					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	GJ-3470	RA: 07 59 5.8700 (119.7744583d)	Proper Motion RA: -175 mas/yr	V=12.33	Reference Frame: ICRS
			Dec: +15 23 29.50 (15.39153d)	Proper Motion Dec: -52 mas/yr	R=11.2,	
		Equinox: J2000	Parallax: 0.040"	I=9.8,		
			Epoch of Position: 2000	J=8.79,		
				H=8.21		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.					

Proposal 13665 - GJ-3470 STIS G750L 1 (21) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ, phase constrained	(2) GJ-3470	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.94859 TO 0.96108; GS ACQ SCENARI O BASE1B3	Sequence 1-2 Non-In t in GJ-3470_STIS_ G750L_1 (21)	.1 Secs (0.1 Secs) [==>]	[1]
	2	GJ-3470 G7 50L Orbit 1 (619432)	(2) GJ-3470	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256; WAVECAL=NO		Sequence 1-2 Non-In t in GJ-3470_STIS_ G750L_1 (21)	204 Secs X 9 (1836 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)]	[1]
	3	GJ-3470 G7 50L Orbit 2 (619432)	(2) GJ-3470	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256		Sequence 3-3 Non-In t in GJ-3470_STIS_ G750L_1 (21)	204 Secs X 12 (2448 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)]	[2]
	4	GJ-3470 G7 50L Orbit 3 (619432)	(2) GJ-3470	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256		Sequence 4-4 Non-In t in GJ-3470_STIS_ G750L_1 (21)	204 Secs X 12 (2448 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)]	[3]

Proposal 13665 - GJ-3470 STIS G750L 1 (21) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

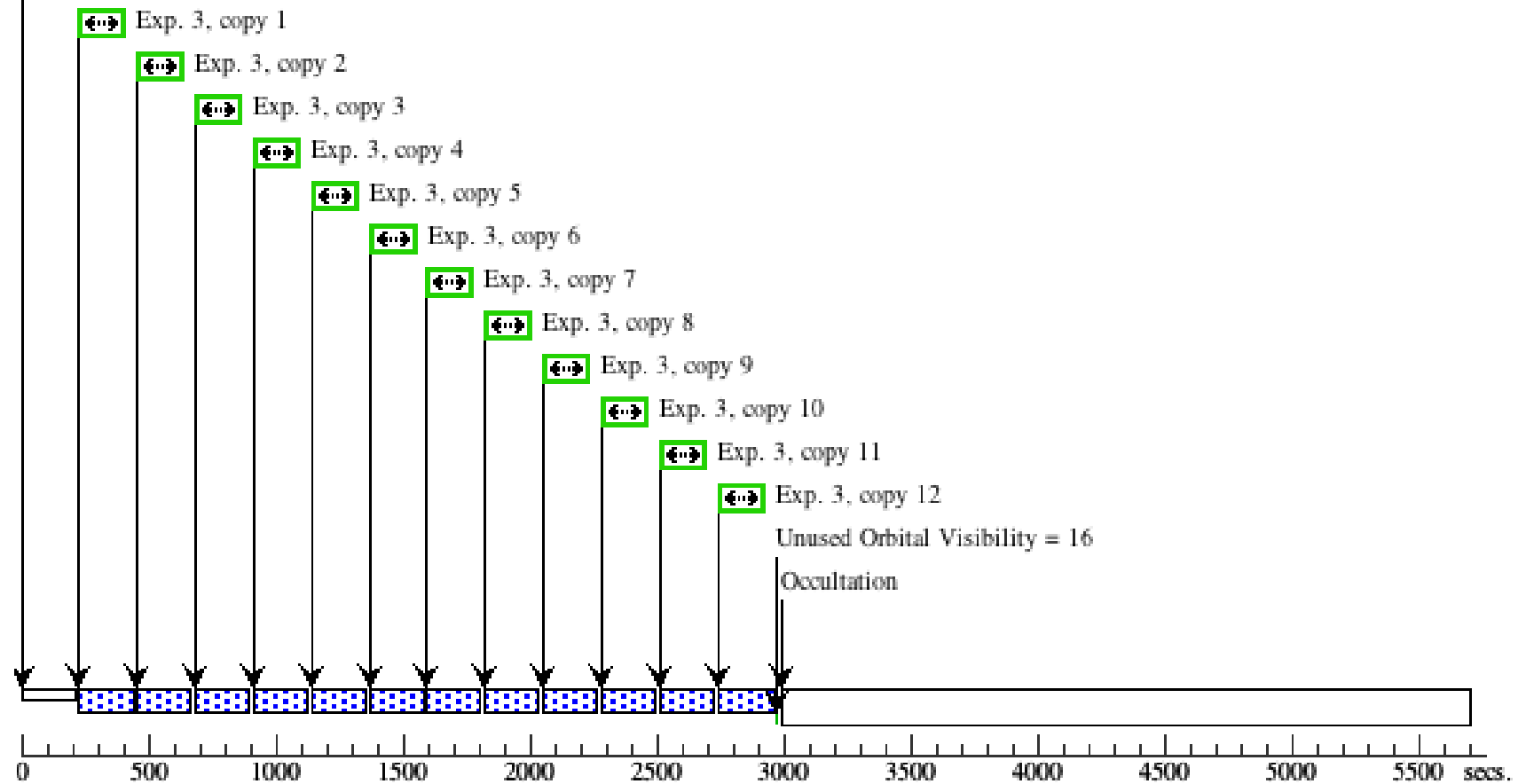
5	GJ-3470 G7 50L Orbit 4 (619432)	(2) GJ-3470	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256	Sequence 5-7 Non-Int in GJ-3470_STIS_ G750L_1 (21)	204 Secs X 12 (2448 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)]	[4]
6	GO-WAVE CAL	WAVE	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A		Sequence 5-7 Non-Int in GJ-3470_STIS_ G750L_1 (21)	[==>]	[4]
<i>Comments: Explicit WAVECAL, auto-waves disabled</i>								
7	Fringe Flat	CCDFLAT	STIS/CCD, ACCUM, 0.3X0.09	G750L 7751 A		Sequence 5-7 Non-Int in GJ-3470_STIS_ G750L_1 (21)	[==>(Copy 1)] [==>(Copy 2)]	[4]



Orbit 2

Server Version: 20160129

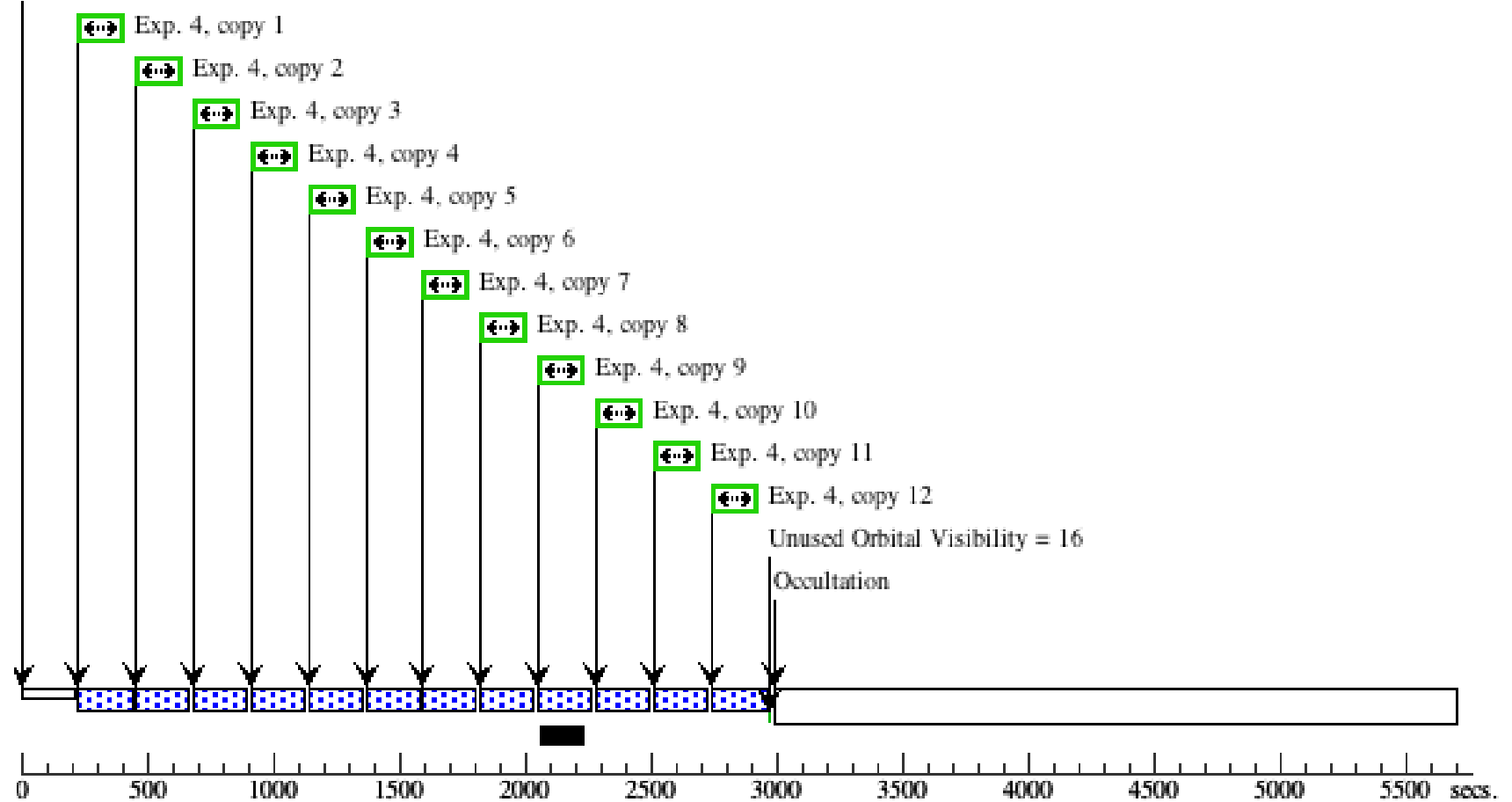
GS Reacq

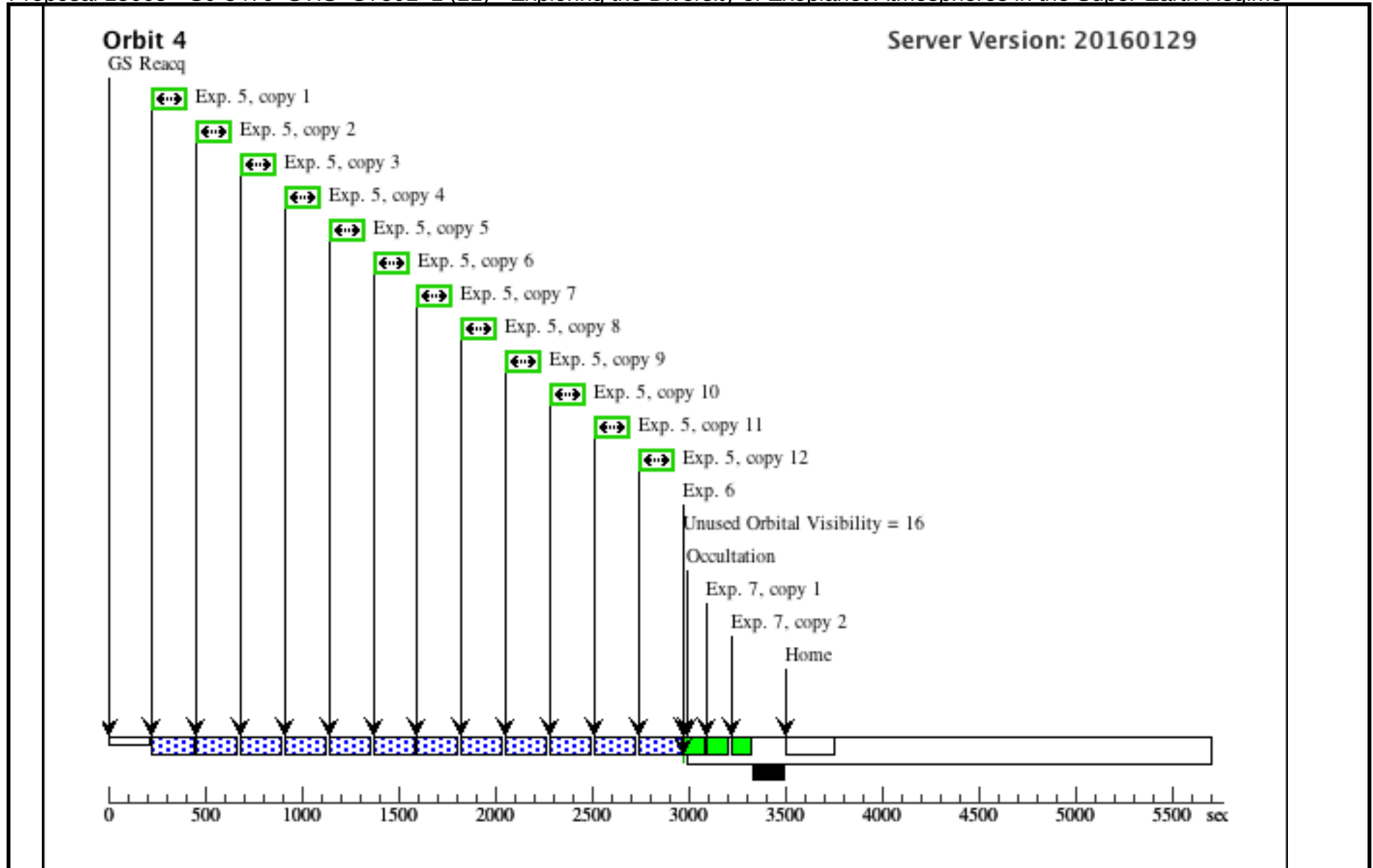


Orbit 3

Server Version: 20160129

GS Reacq





Proposal 13665 - GJ-3470 STIS G750L 2 (22) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

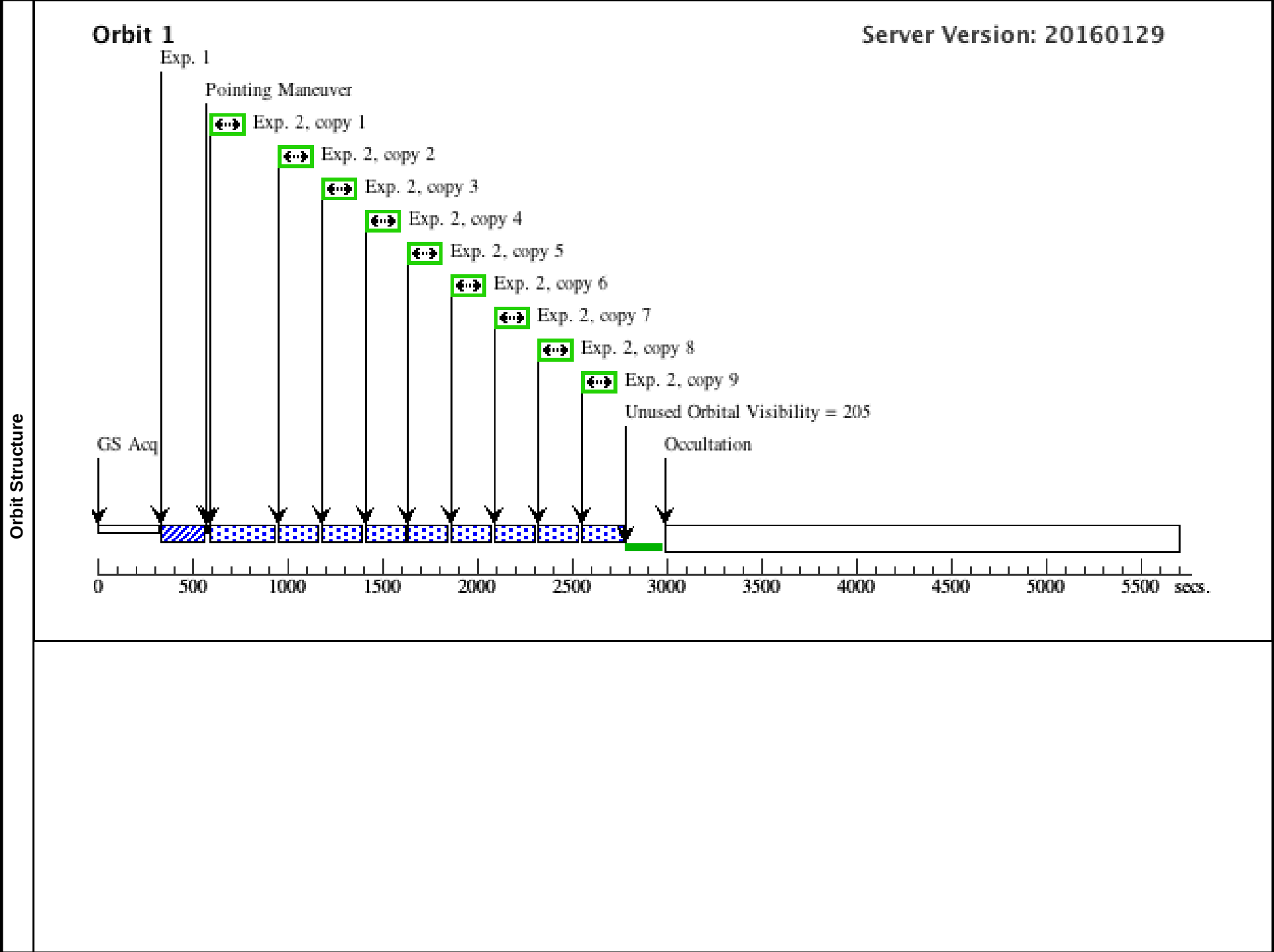
Visit	Proposal 13665, GJ-3470_STIS_G750L_2 (22), completed					Sun Apr 10 01:17:24 GMT 2016
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: STIS/CCD					
	Special Requirements: SCHED 100%; Period 3.3366487 D AND ZERO-PHASE HJD2455983.70472					
	Comments: Second (of three) STIS/G750L transit of GJ 3470b.					
Fixed Targets	It is essential for the four orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 in each GJ-3470 STIS visit observes GJ-3470 during the transit of GJ-3470b. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.9515-0.9580 in planet orbital phase, corresponding to a 31 minute interval. In order to also ensure complete coverage of the transit light curve when combining the three STIS visits, the first visit has been scheduled to begin within the first 10 minutes of the phase windows and the second visit has been scheduled to begin in the last 10 min of the phase windows. The remaining visits can be arbitrarily placed within the entire 0.9515-0.9580 phase window. If the first or second visits place a significant barrier to scheduling, the requirements for all visits and may be relaxed to 0.9515-0.9580 phase range.					
	We disable auto-wavecalcs, which improves our observing efficiency and repeatability. We opt for only a single GO-wavecal (at the end of each visit) because the GO-wavecal requires a different aperture (52x0.2 instead of the 52x2 used for science observations). To minimize disruption to the observatory, we therefore defer the GO wavecal until the end of each visit. This strategy has been successfully employed in past programs, e.g. 12473 (PI Sing).					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	GJ-3470	RA: 07 59 5.8700 (119.7744583d)	Proper Motion RA: -175 mas/yr	V=12.33	Reference Frame: ICRS
			Dec: +15 23 29.50 (15.39153d)	Proper Motion Dec: -52 mas/yr	R=11.2,	
		Equinox: J2000	Parallax: 0.040"	I=9.8,		
			Epoch of Position: 2000	J=8.79,		
				H=8.21		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.					

Proposal 13665 - GJ-3470 STIS G750L 2 (22) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ, phase constrained	(2) GJ-3470	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.9560 TO 0.9580	Sequence 1-2 Non-Int in GJ-3470_STIS_G750L_2 (22)	.1 Secs (0.1 Secs) [==>]	
	2	GJ-3470 G750L Orbit 1 (619432)	(2) GJ-3470	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256; WAVECAL=NO		Sequence 1-2 Non-Int in GJ-3470_STIS_G750L_2 (22)	204 Secs X 9 (1836 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)]	[1]
	3	GJ-3470 G750L Orbit 2 (619432)	(2) GJ-3470	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256		Sequence 3-3 Non-Int in GJ-3470_STIS_G750L_2 (22)	204 Secs X 12 (2448 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)]	[2]
	4	GJ-3470 G750L Orbit 3 (619432)	(2) GJ-3470	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256		Sequence 4-4 Non-Int in GJ-3470_STIS_G750L_2 (22)	204 Secs X 12 (2448 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)]	[3]

Proposal 13665 - GJ-3470 STIS G750L 2 (22) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

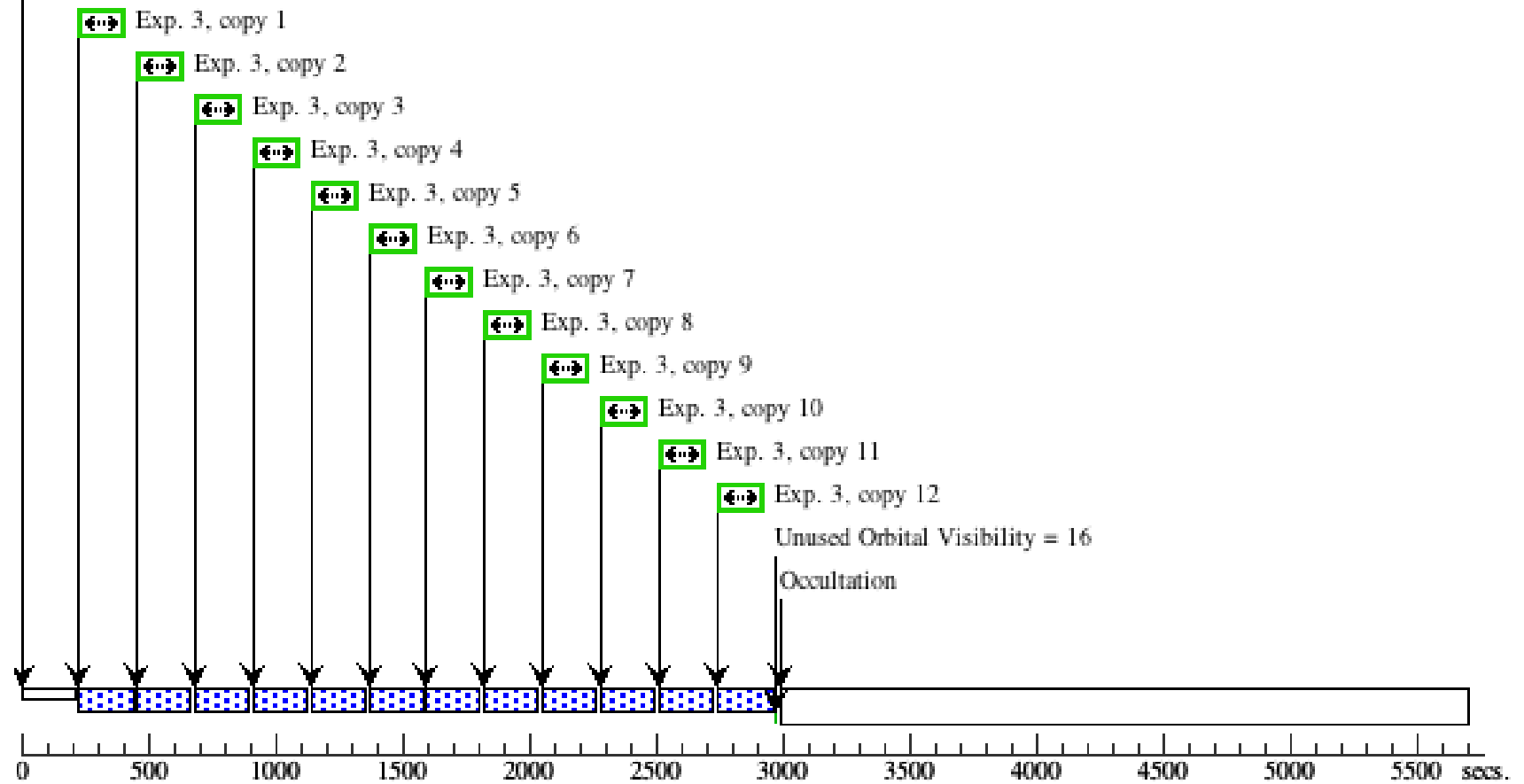
5	GJ-3470 G7 (2) GJ-3470 50L Orbit 4 (619432)	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256	Sequence 5-7 Non-Int in GJ-3470_STIS_ G750L_2 (22)	204 Secs X 12 (2448 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)]	[4]
6	GO-WAVE WAVE CAL	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A		Sequence 5-7 Non-Int in GJ-3470_STIS_ G750L_2 (22)	[==>]	[4]
<i>Comments: Explicit WAVECAL, auto-waves disabled</i>							
7	Fringe Flat CCDFLAT	STIS/CCD, ACCUM, 0.3X0.09	G750L 7751 A		Sequence 5-7 Non-Int in GJ-3470_STIS_ G750L_2 (22)	[==>(Copy 1)] [==>(Copy 2)]	[4]



Orbit 2

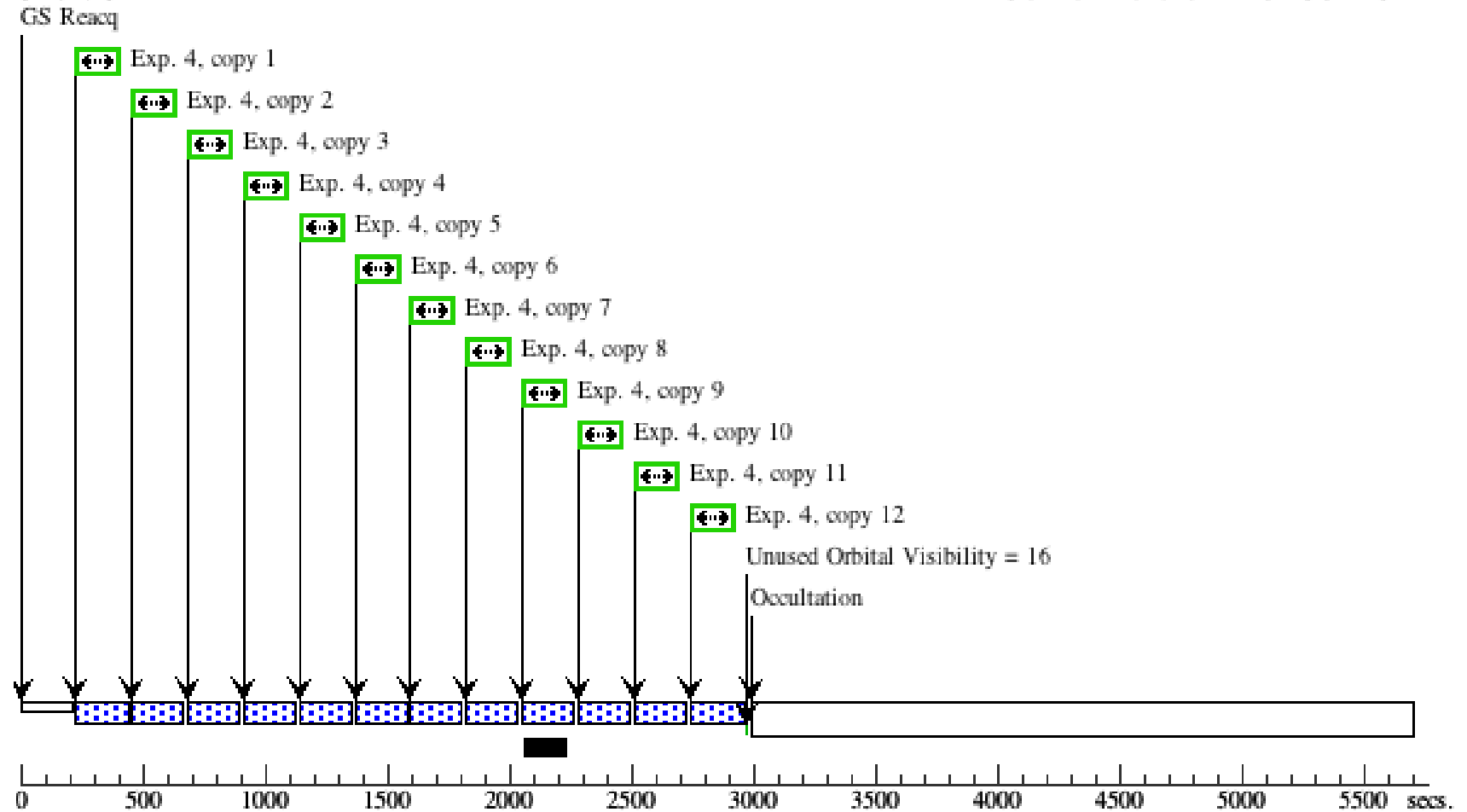
Server Version: 20160129

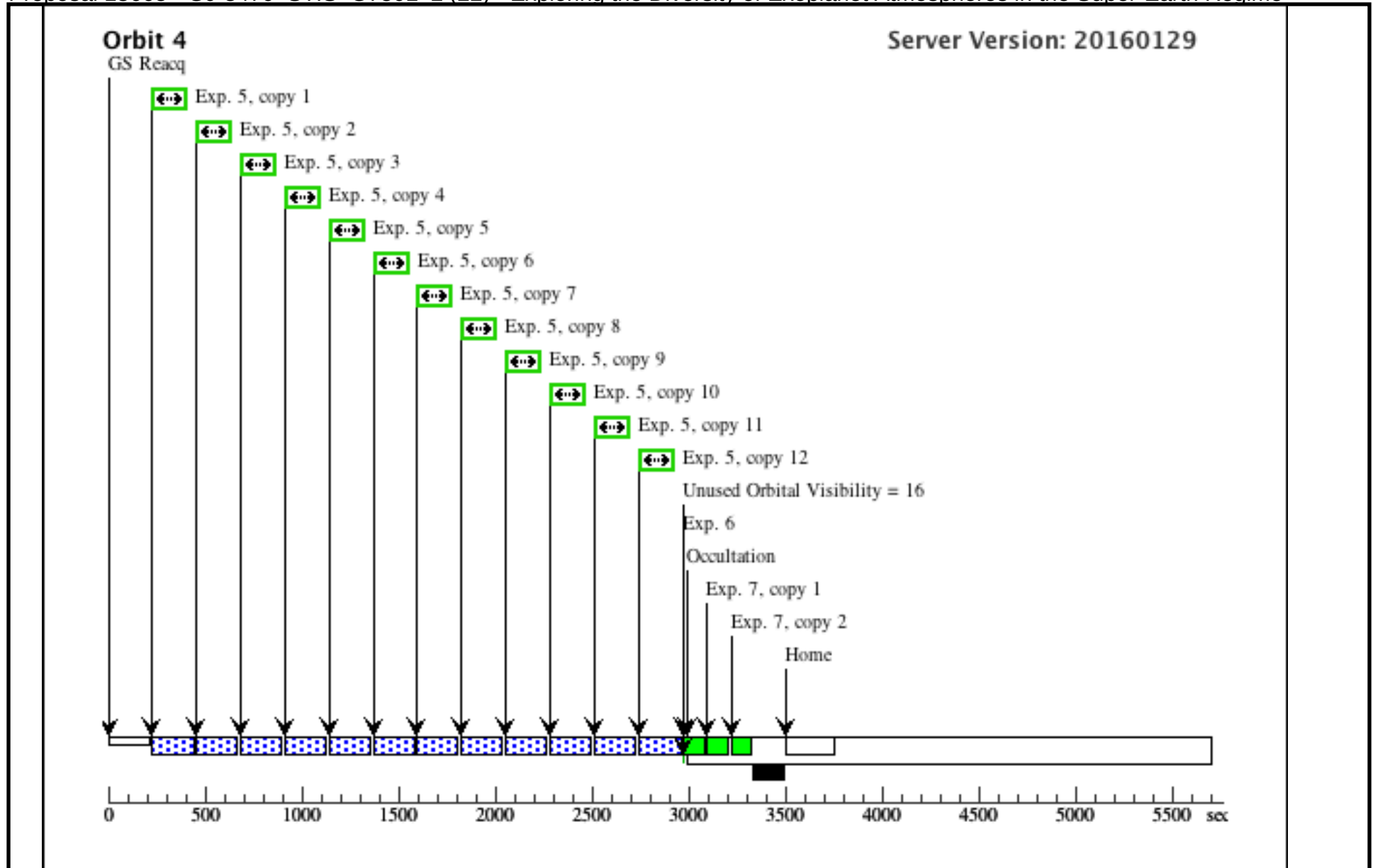
GS Reacq



Orbit 3

Server Version: 20160129





Proposal 13665 - GJ-3470 STIS G750L 3 (23) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

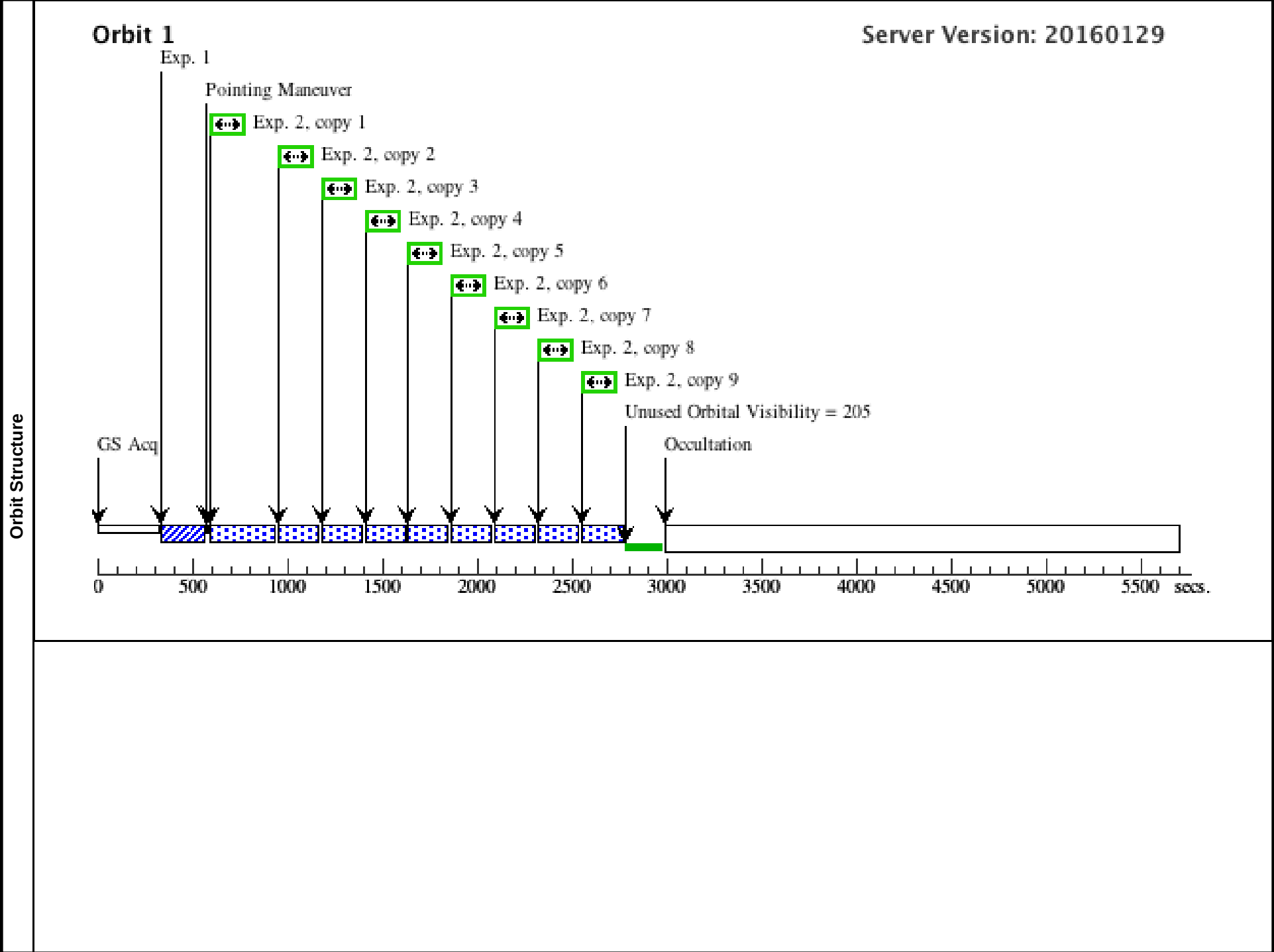
Visit	Proposal 13665, GJ-3470_STIS_G750L_3 (23), completed					Sun Apr 10 01:17:24 GMT 2016
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: STIS/CCD					
	Special Requirements: SCHED 100%; Period 3.3366487 D AND ZERO-PHASE HJD2455983.70472					
Fixed Targets	Comments: Third (of three) STIS/G750L transit of GJ 3470b.					
	It is essential for the four orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 in each GJ-3470 STIS visit observes GJ-3470 during the transit of GJ-3470b. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.9515-0.9580 in planet orbital phase, corresponding to a 31 minute interval. In order to also ensure complete coverage of the transit light curve when combining the three STIS visits, the first visit has been scheduled to begin within the first 10 minutes of the phase windows and the second visit has been scheduled to begin in the last 10 min of the phase windows. The remaining visits can be arbitrarily placed within the entire 0.9515-0.9580 phase window. If the first or second visits place a significant barrier to scheduling, the requirements for all visits and may be relaxed to 0.9515-0.9580 phase range.					
	We disable auto-wavecalcs, which improves our observing efficiency and repeatability. We opt for only a single GO-wavecal (at the end of each visit) because the GO-wavecal requires a different aperture (52x0.2 instead of the 52x2 used for science observations). To minimize disruption to the observatory, we therefore defer the GO wavecal until the end of each visit. This strategy has been successfully employed in past programs, e.g. 12473 (PI Sing).					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	GJ-3470	RA: 07 59 5.8700 (119.7744583d)	Proper Motion RA: -175 mas/yr	V=12.33	Reference Frame: ICRS
			Dec: +15 23 29.50 (15.39153d)	Proper Motion Dec: -52 mas/yr	R=11.2,	
			Equinox: J2000	Parallax: 0.040"	I=9.8,	
			Epoch of Position: 2000	J=8.79,		
H=8.21						
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.						

Proposal 13665 - GJ-3470 STIS G750L 3 (23) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ, phase constrained	(2) GJ-3470	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.9515 TO 0.9580	Sequence 1-2 Non-Int in GJ-3470_STIS_G750L_3 (23)	.1 Secs (0.1 Secs) [==>]	
	2	GJ-3470 G750L Orbit 1 (619432)	(2) GJ-3470	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256; WAVECAL=NO		Sequence 1-2 Non-Int in GJ-3470_STIS_G750L_3 (23)	204 Secs X 9 (1836 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)]	[1]
	3	GJ-3470 G750L Orbit 2 (619432)	(2) GJ-3470	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256		Sequence 3-3 Non-Int in GJ-3470_STIS_G750L_3 (23)	204 Secs X 12 (2448 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)]	[2]
	4	GJ-3470 G750L Orbit 3 (619432)	(2) GJ-3470	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256		Sequence 4-4 Non-Int in GJ-3470_STIS_G750L_3 (23)	204 Secs X 12 (2448 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)]	[3]

Proposal 13665 - GJ-3470 STIS G750L 3 (23) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

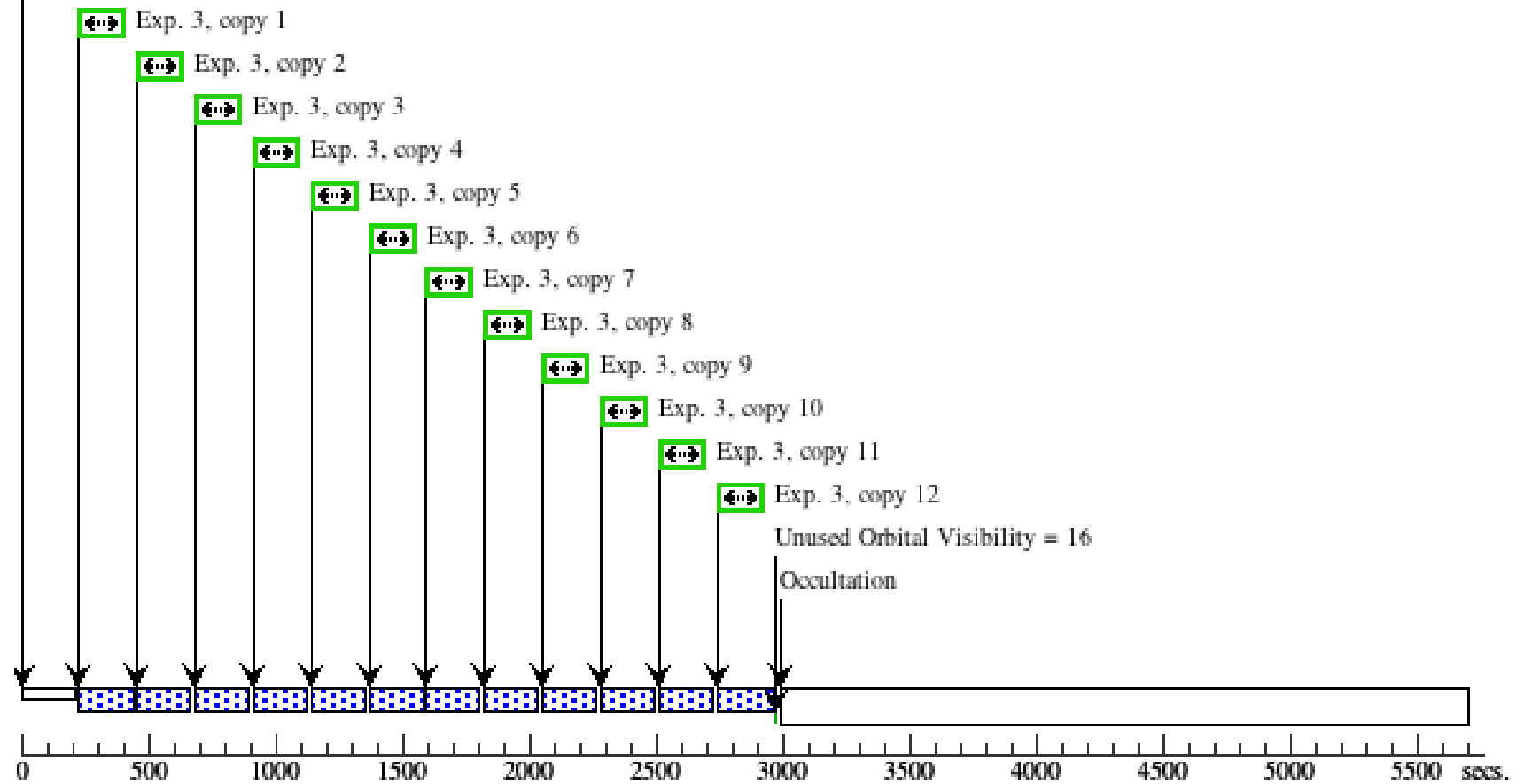
5	GJ-3470 G7 50L Orbit 4 (619432)	(2) GJ-3470	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256	Sequence 5-7 Non-Int in GJ-3470_STIS_G750L_3 (23)	204 Secs X 12 (2448 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)]	[4]
6	GO-WAVE CAL	WAVE	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A		Sequence 5-7 Non-Int in GJ-3470_STIS_G750L_3 (23)	[==>]	[4]
<i>Comments: Explicit WAVECAL, auto-waves disabled</i>								
7	Fringe Flat	CCDFLAT	STIS/CCD, ACCUM, 0.3X0.09	G750L 7751 A		Sequence 5-7 Non-Int in GJ-3470_STIS_G750L_3 (23)	[==>(Copy 1)] [==>(Copy 2)]	[4]



Orbit 2

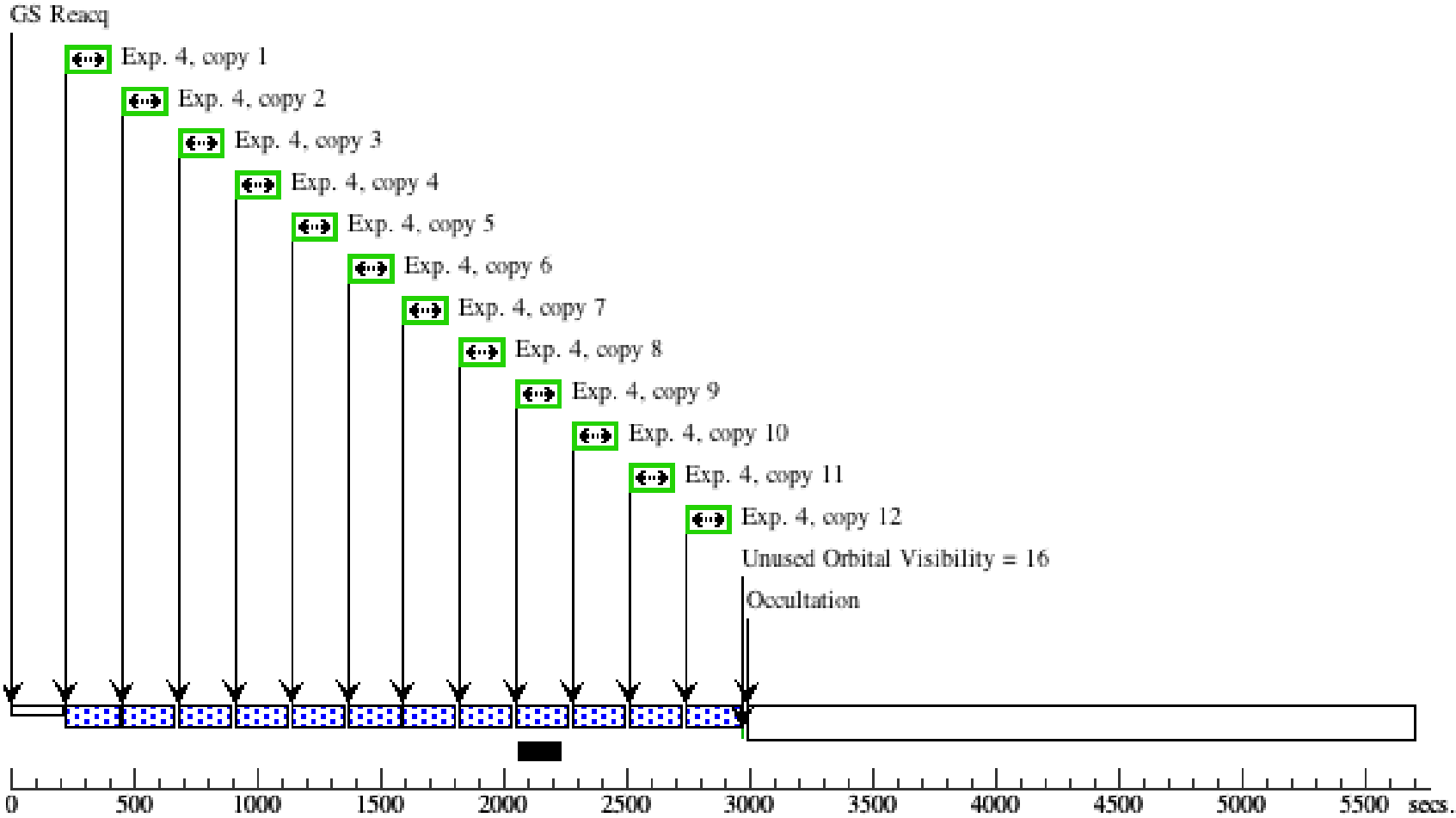
Server Version: 20160129

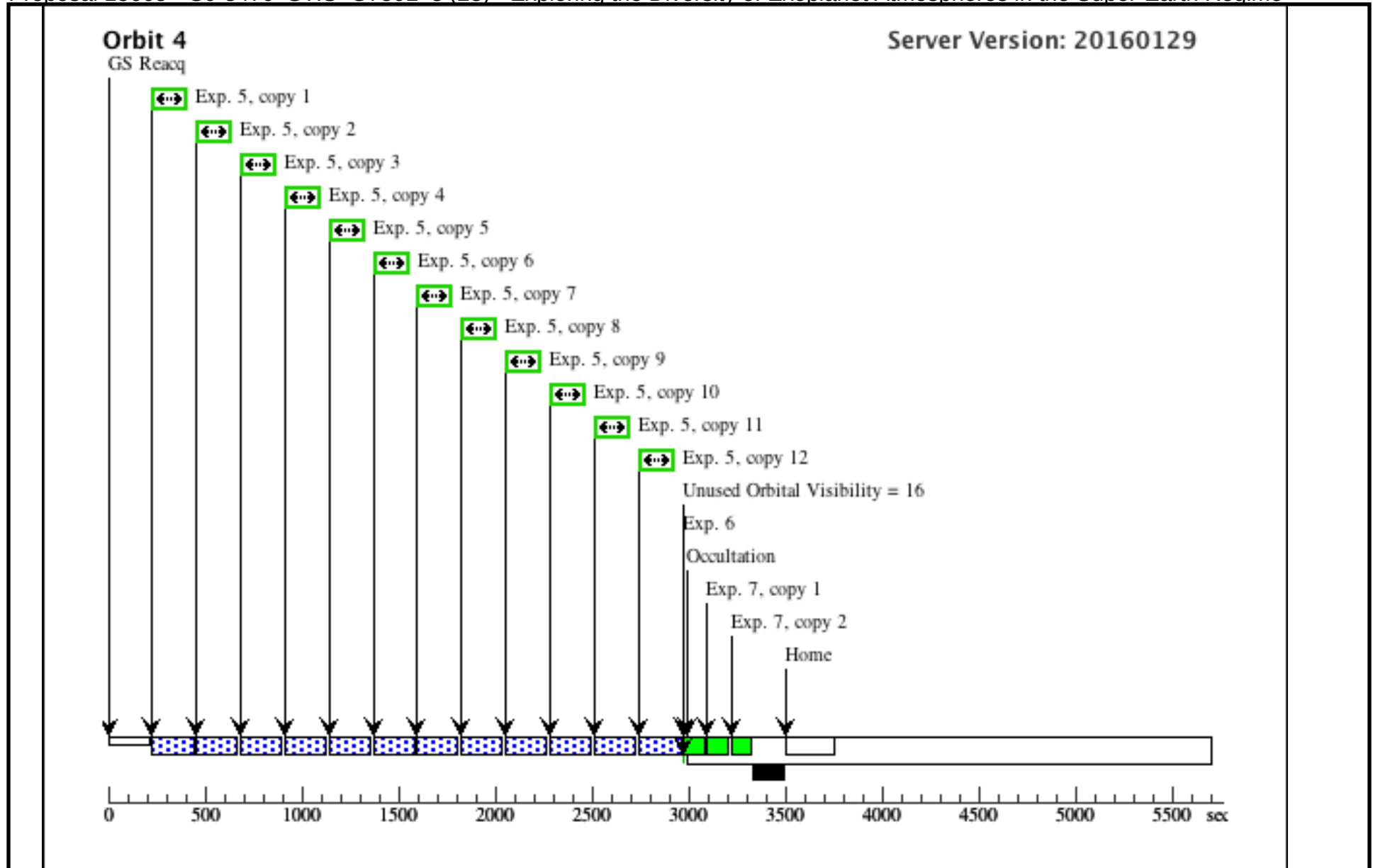
GS Reacq



Orbit 3

Server Version: 20160129





Proposal 13665 - GJ-3470 WFC3 G141 1 (24) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, GJ-3470_WFC3_G141_1 (24), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; Period 3.3366487 D AND ZERO-PHASE HJD2455983.70472 Comments: First (of three) WFC3/G141 transit visits of GJ-3470. <i>It is essential for the four orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 in each GJ-3470 WFC3 visit observes GJ-3470 during the transit of GJ-3470b. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.9515-0.9580 in planet orbital phase, corresponding to a 31 minute interval. In order to also ensure complete coverage of the transit light curve when combining the three WFC3 visits, the first visit has been scheduled to begin within the first 10 minutes of the phase windows and the second visit has been scheduled to begin in the last 10 min of the phase windows. The remaining visits can be arbitrarily placed within the entire 0.9515-0.9580 phase window. If the first or second visits place a significant barrier to scheduling, the requirements for all visits and may be relaxed to 0.9515-0.9580 phase range.</i>					Sun Apr 10 01:17:24 GMT 2016
	<i>It is essential for the four orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 in each GJ-3470 WFC3 visit observes GJ-3470 during the transit of GJ-3470b. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.9515-0.9580 in planet orbital phase, corresponding to a 31 minute interval. In order to also ensure complete coverage of the transit light curve when combining the three WFC3 visits, the first visit has been scheduled to begin within the first 10 minutes of the phase windows and the second visit has been scheduled to begin in the last 10 min of the phase windows. The remaining visits can be arbitrarily placed within the entire 0.9515-0.9580 phase window. If the first or second visits place a significant barrier to scheduling, the requirements for all visits and may be relaxed to 0.9515-0.9580 phase range.</i>					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	GJ-3470	RA: 07 59 5.8700 (119.7744583d) Dec: +15 23 29.50 (15.39153d) Equinox: J2000	Proper Motion RA: -175 mas/yr Proper Motion Dec: -52 mas/yr Parallax: 0.040" Epoch of Position: 2000	V=12.33 R=11.2, I=9.8, J=8.79, H=8.21	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.						

Proposal 13665 - GJ-3470 WFC3 G141 1 (24) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

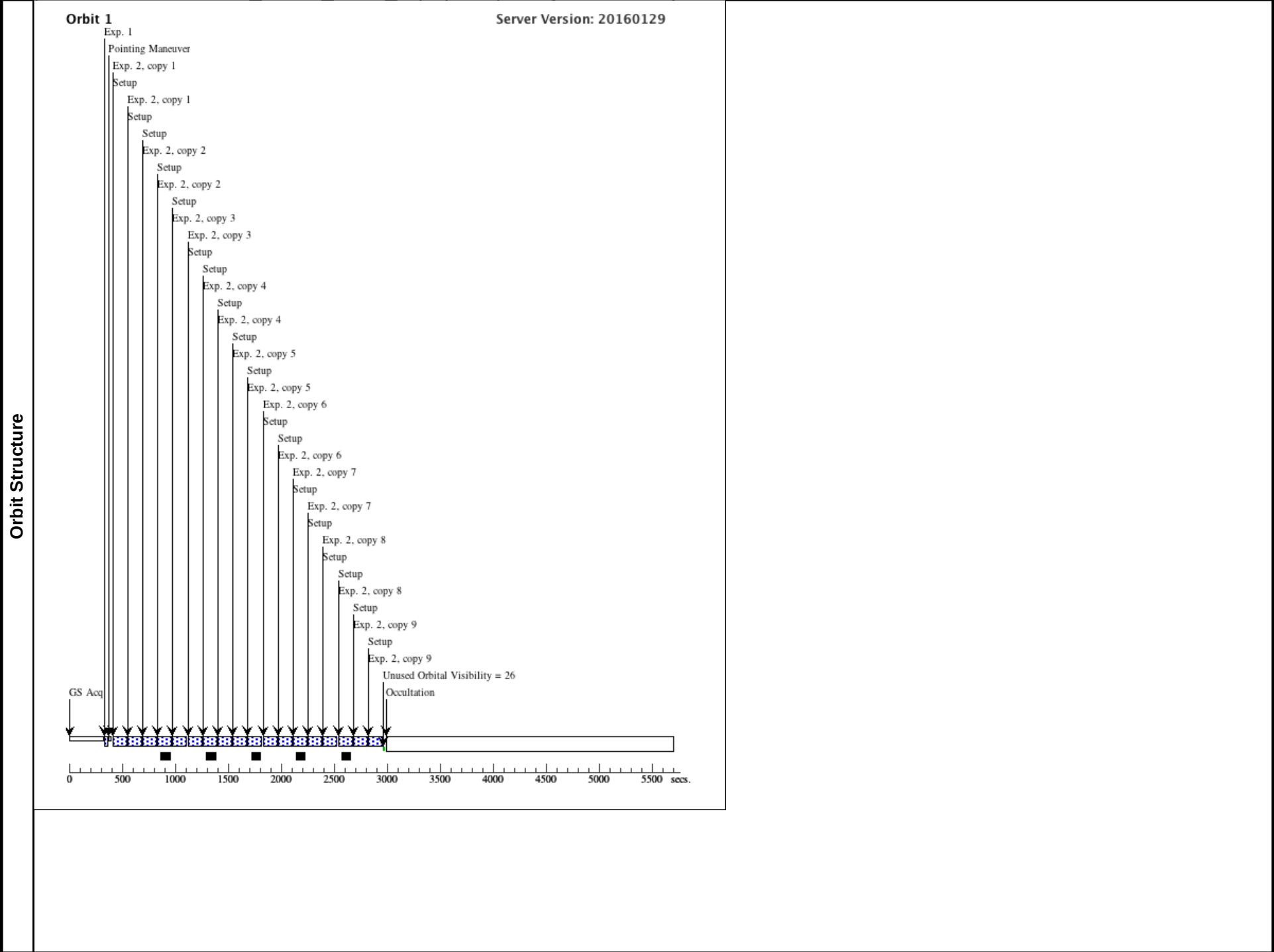
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	GJ-3470, A CQ, phase c onstrained	(2) GJ-3470	WFC3/IR, MULTIACCUM, IRSUB256	F130N	NSAMP=3; SAMP-SEQ=RAPID	PHASE 0.9515 TO 0.9535	Sequence 1-2 Non-Int in GJ-3470_WFC3_G141_1 (24)	0.833445 Secs (0.833 Secs) [==>]	[1]
	2	G141 Science Data	(2) GJ-3470	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,-16; SPATIAL SCAN 0.24,90.0 Degrees,Round trip	Sequence 1-2 Non-Int in GJ-3470_WFC3_G141_1 (24)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[1]
	3	G141 Science Data	(2) GJ-3470	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,-16; SPATIAL SCAN 0.24,90.0 Degrees,Round trip	Sequence 3-4 Non-Int in GJ-3470_WFC3_G141_1 (24)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[2]

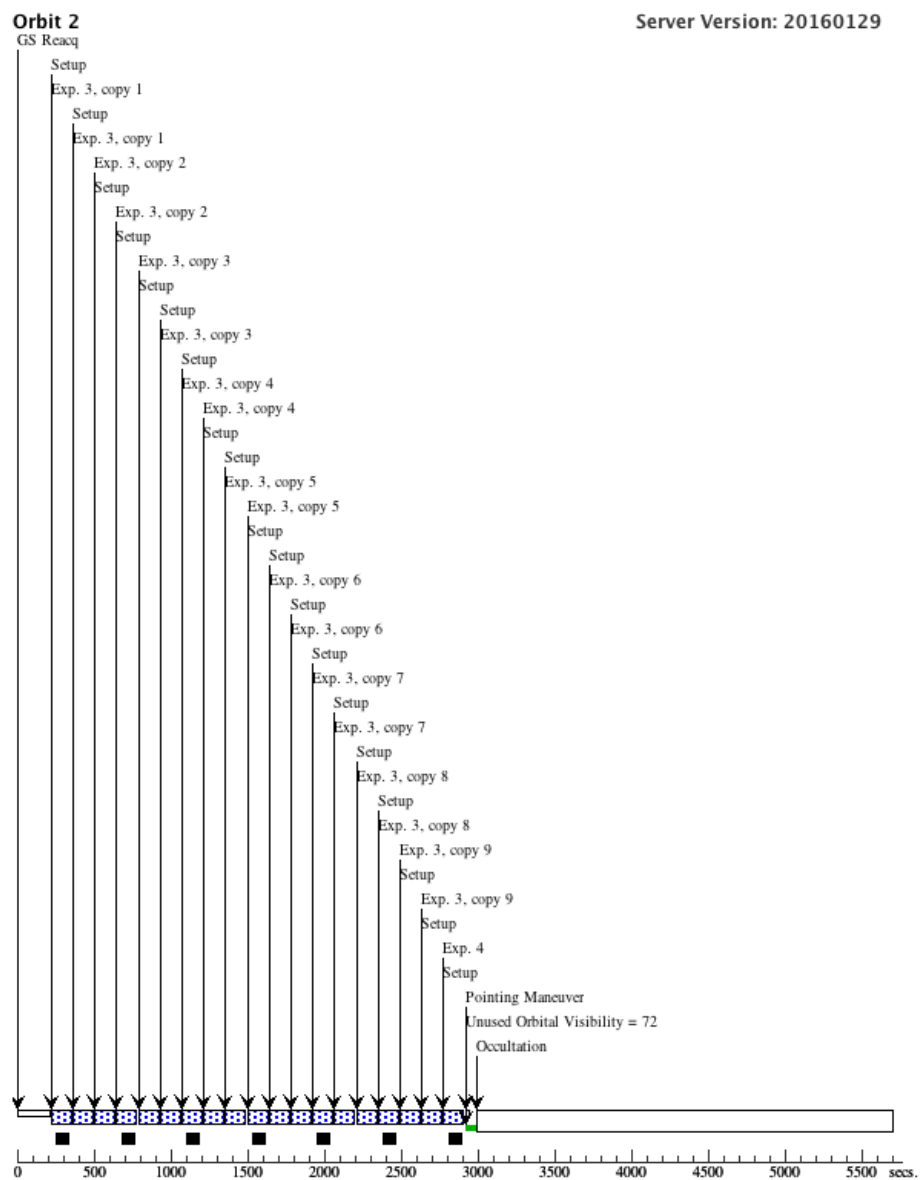
Proposal 13665 - GJ-3470 WFC3 G141 1 (24) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

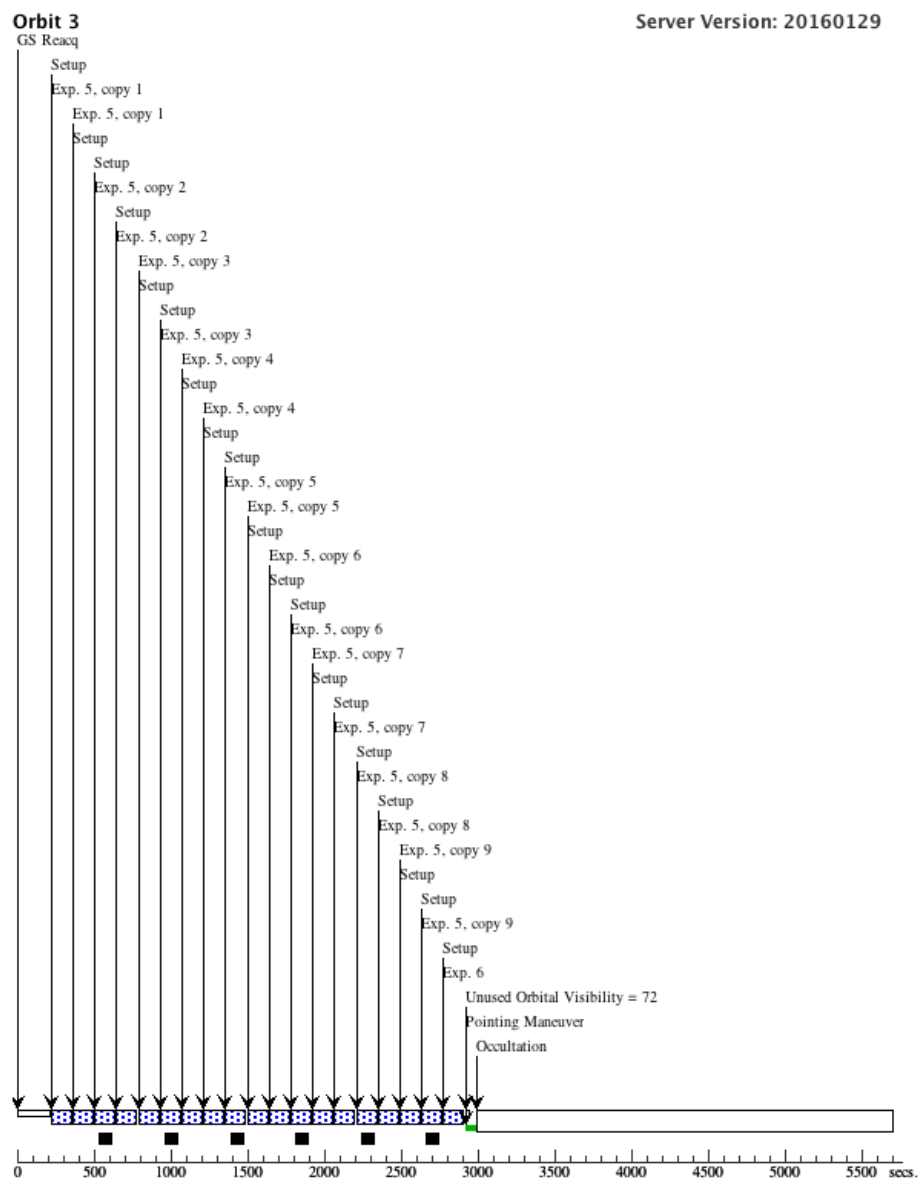
4	G141 Science Data Forward	(2) GJ-3470	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,-16; SPATIAL SCAN 0.24,90.0 Degrees,Forward	Sequence 3-4 Non-Insert in GJ-3470_WFC3_G141_1 (24)	103.128633 Secs (103.129 Secs) [==>]	[2]
5	G141 Science Data	(2) GJ-3470	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,-16; SPATIAL SCAN 0.24,90.0 Degrees,Round trip	Sequence 5-6 Non-Insert in GJ-3470_WFC3_G141_1 (24)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[3]
6	G141 Science Data Forward	(2) GJ-3470	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,-16; SPATIAL SCAN 0.24,90.0 Degrees,Forward	Sequence 5-6 Non-Insert in GJ-3470_WFC3_G141_1 (24)	103.128633 Secs (103.129 Secs) [==>]	[3]

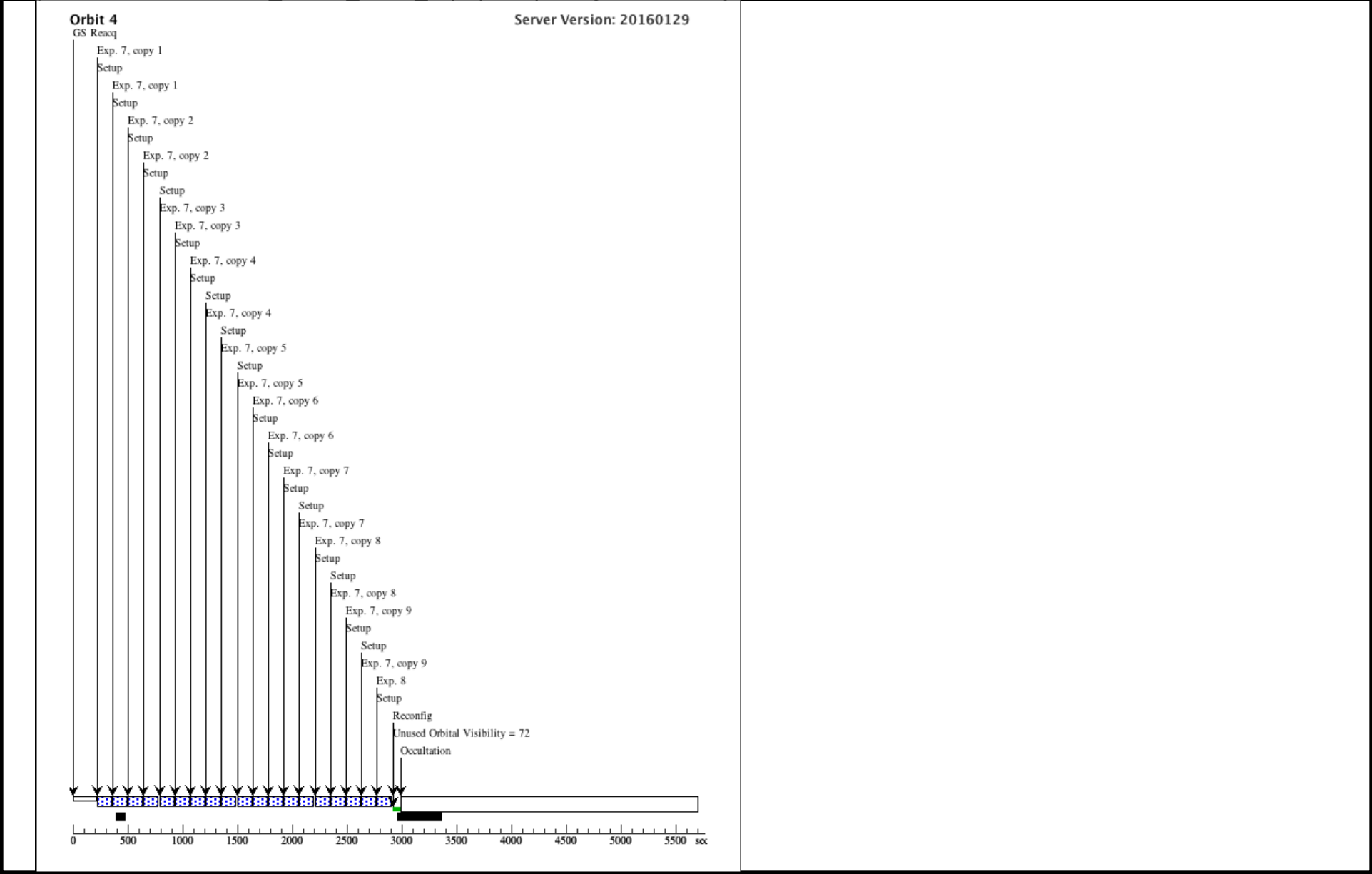
Proposal 13665 - GJ-3470 WFC3 G141 1 (24) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

7	G141 Science Data (2) GJ-3470	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,-16; SPATIAL SCAN 0.2 4,90.0 Degrees, Round trip	Sequence 7-8 Non-Int in GJ-3470_WFC3_G141_1 (24)	103.128633 Secs X 9 (1856.315 Secs)	
							[==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[4]
8	G141 Science Data Forward (2) GJ-3470	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,-16; SPATIAL SCAN 0.2 4,90.0 Degrees, Forward	Sequence 7-8 Non-Int in GJ-3470_WFC3_G141_1 (24)	103.128633 Secs (103.129 Secs)	
							[==>]	[4]









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Proposal 13665 - GJ-3470 WFC3 G141 2 (25) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, GJ-3470_WFC3_G141_2 (25), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; Period 3.3366487 D AND ZERO-PHASE HJD2455983.70472 Comments: Second (of three) WFC3/G141 transit visits of GJ-3470. <i>It is essential for the four orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 in each GJ-3470 WFC3 visit observes GJ-3470 during the transit of GJ-3470b. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.9515-0.9580 in planet orbital phase, corresponding to a 31 minute interval. In order to also ensure complete coverage of the transit light curve when combining the three WFC3 visits, the first visit has been scheduled to begin within the first 10 minutes of the phase windows and the second visit has been scheduled to begin in the last 10 min of the phase windows. The remaining visits can be arbitrarily placed within the entire 0.9515-0.9580 phase window. If the first or second visits place a significant barrier to scheduling, the requirements for all visits and may be relaxed to 0.9515-0.9580 phase range.</i>					Sun Apr 10 01:17:24 GMT 2016
	<i>It is essential for the four orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 in each GJ-3470 WFC3 visit observes GJ-3470 during the transit of GJ-3470b. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.9515-0.9580 in planet orbital phase, corresponding to a 31 minute interval. In order to also ensure complete coverage of the transit light curve when combining the three WFC3 visits, the first visit has been scheduled to begin within the first 10 minutes of the phase windows and the second visit has been scheduled to begin in the last 10 min of the phase windows. The remaining visits can be arbitrarily placed within the entire 0.9515-0.9580 phase window. If the first or second visits place a significant barrier to scheduling, the requirements for all visits and may be relaxed to 0.9515-0.9580 phase range.</i>					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	GJ-3470	RA: 07 59 5.8700 (119.7744583d) Dec: +15 23 29.50 (15.39153d) Equinox: J2000	Proper Motion RA: -175 mas/yr Proper Motion Dec: -52 mas/yr Parallax: 0.040" Epoch of Position: 2000	V=12.33 R=11.2, I=9.8, J=8.79, H=8.21	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.						

Proposal 13665 - GJ-3470 WFC3 G141 2 (25) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

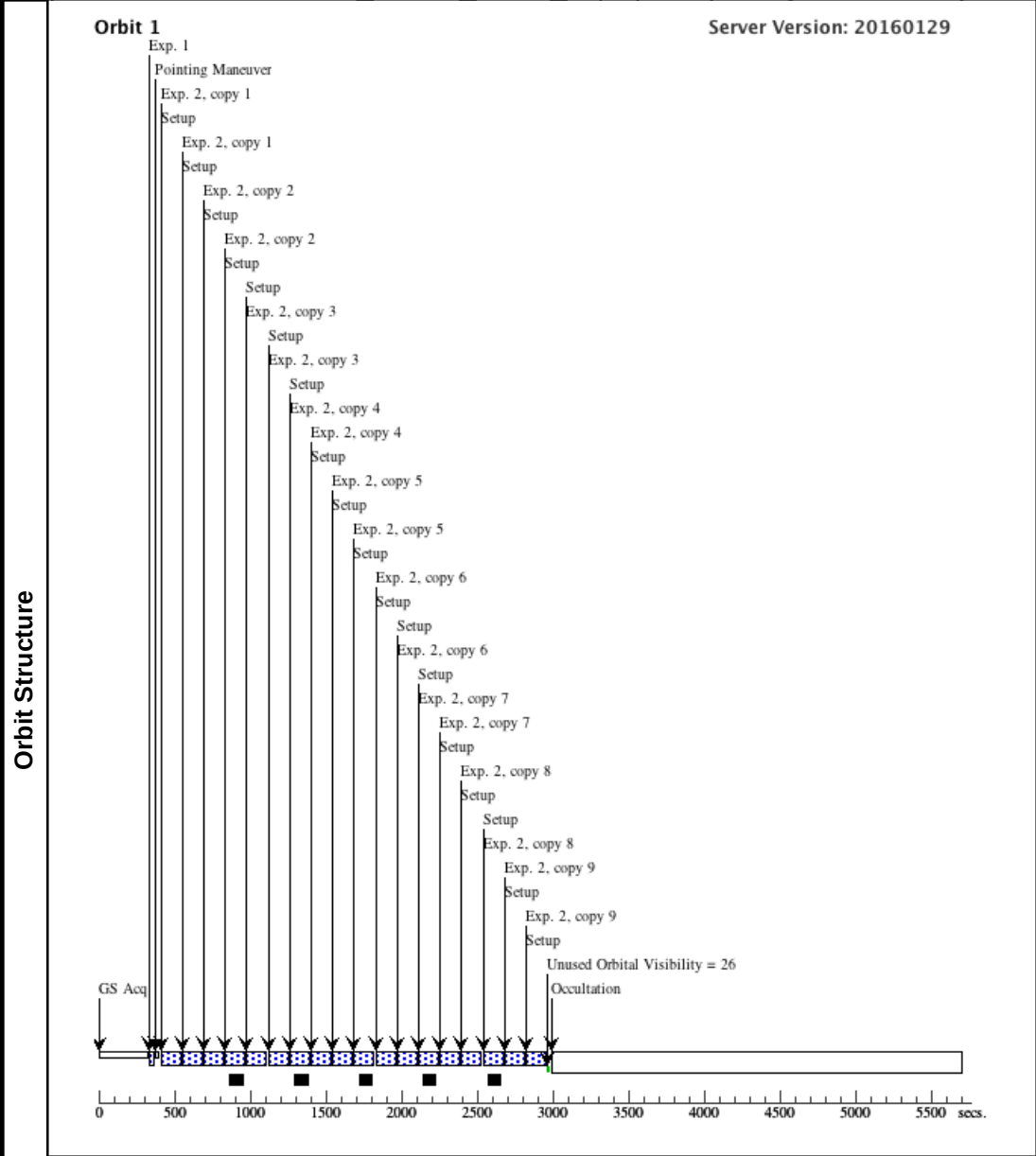
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	GJ-3470, A CQ, phase c onstrained	(2) GJ-3470	WFC3/IR, MULTIACCUM, IRSUB256	F130N	NSAMP=3; SAMP-SEQ=RAPID	PHASE 0.9560 TO 0.9580; GS ACQ SCENARIO BASE1B3	Sequence 1-2 Non-Int in GJ-3470_WFC3_G141_2 (25)	0.833445 Secs (0.833 Secs) [==>]	[1]
	2	G141 Science Data	(2) GJ-3470	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS10; NSAMP=15	POS TARG -1.5,-16; SPATIAL SCAN 0.24,90.0 Degrees,Round trip	Sequence 1-2 Non-Int in GJ-3470_WFC3_G141_2 (25)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[1]
	3	G141 Science Data	(2) GJ-3470	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS10; NSAMP=15	POS TARG -1.5,-16; SPATIAL SCAN 0.24,90.0 Degrees,Round trip	Sequence 3-4 Non-Int in GJ-3470_WFC3_G141_2 (25)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[2]

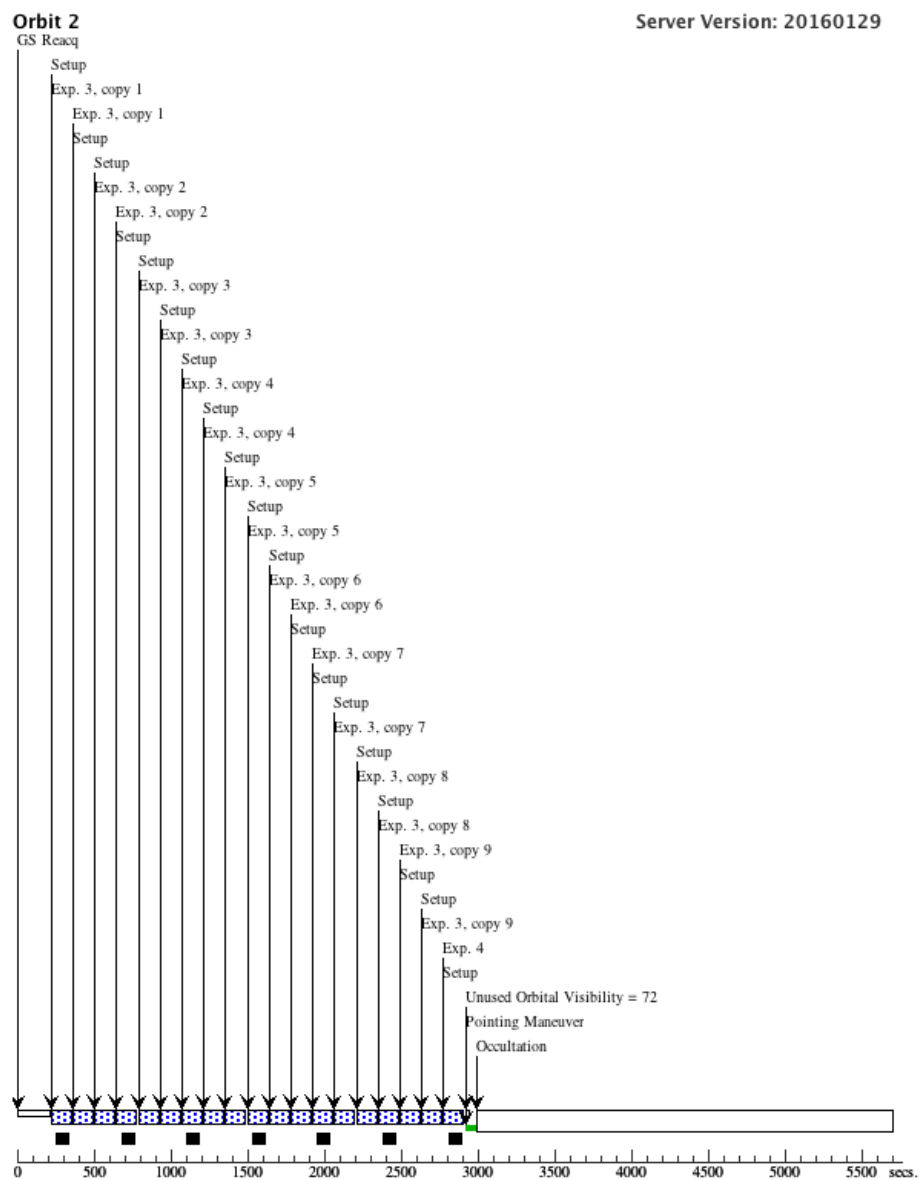
Proposal 13665 - GJ-3470 WFC3 G141 2 (25) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

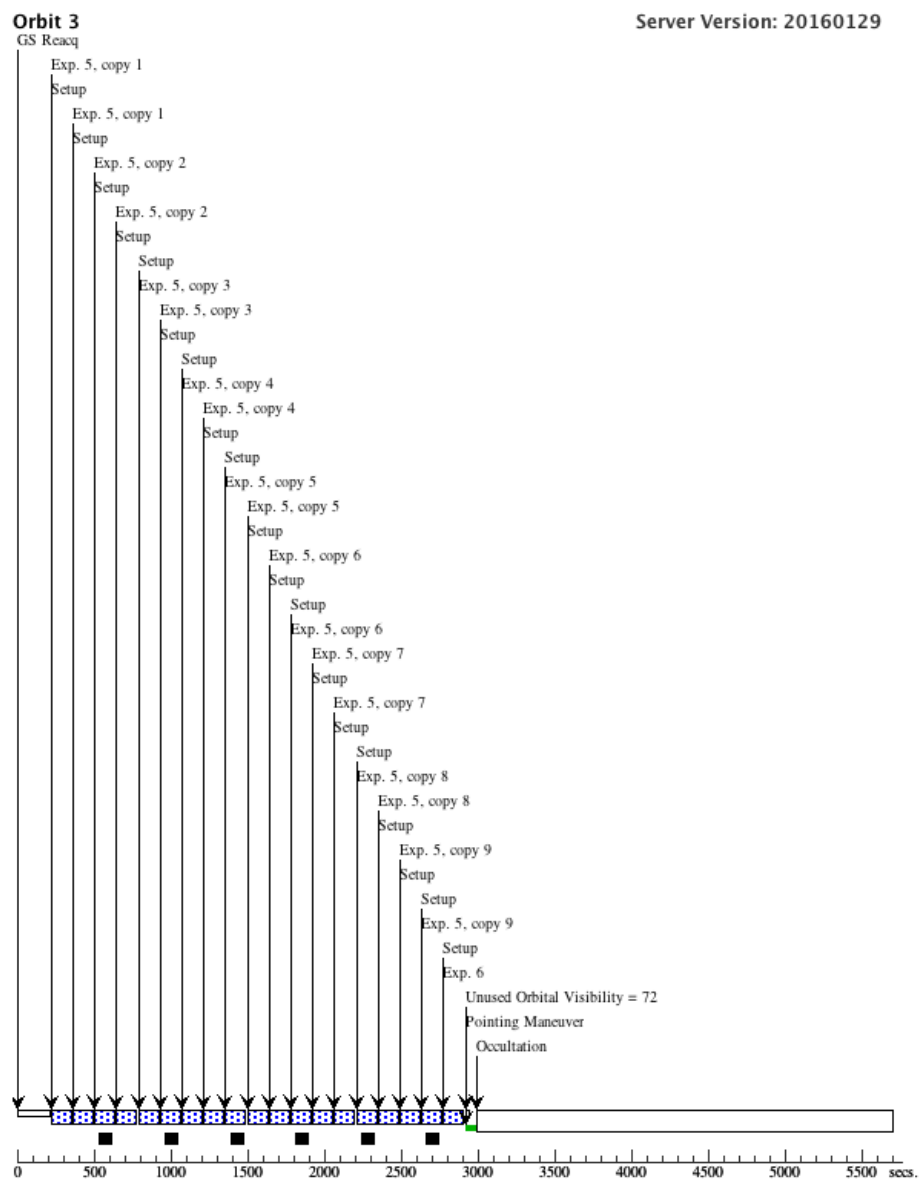
4	G141 Science Data Forward	(2) GJ-3470	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,-16; SPATIAL SCAN 0.24,90.0 Degrees,Forward	Sequence 3-4 Non-Int in GJ-3470_WFC3_G141_2 (25)	103.128633 Secs (103.129 Secs) [==>]	[2]
5	G141 Science Data	(2) GJ-3470	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,-16; SPATIAL SCAN 0.24,90.0 Degrees,Round trip	Sequence 5-6 Non-Int in GJ-3470_WFC3_G141_2 (25)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[3]
6	G141 Science Data Forward	(2) GJ-3470	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,-16; SPATIAL SCAN 0.24,90.0 Degrees,Forward	Sequence 5-6 Non-Int in GJ-3470_WFC3_G141_2 (25)	103.128633 Secs (103.129 Secs) [==>]	[3]

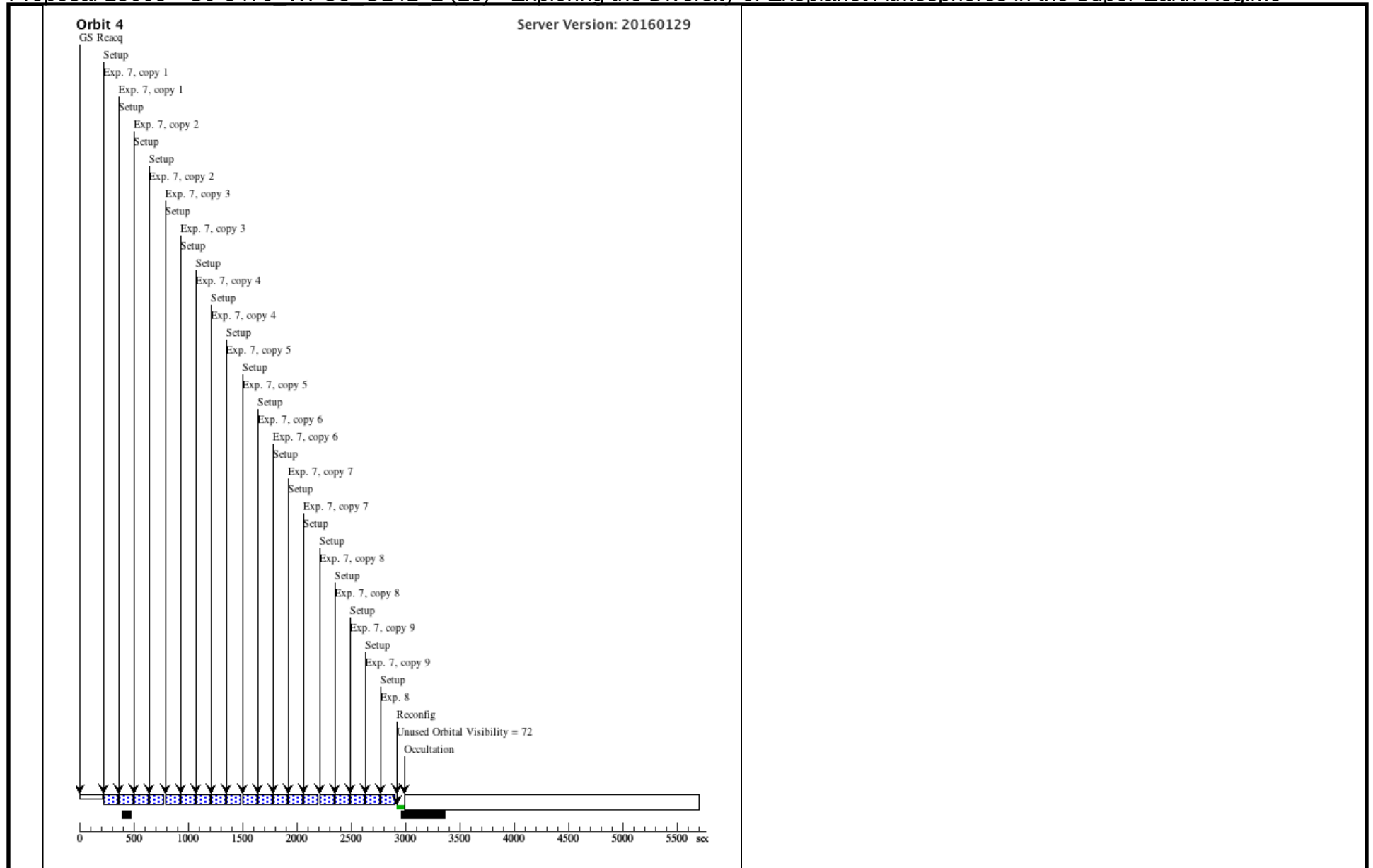
Proposal 13665 - GJ-3470 WFC3 G141 2 (25) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

7	G141 Science Data (2) GJ-3470	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,-16; SPATIAL SCAN 0.24,90.0 Degrees,Round trip	Sequence 7-8 Non-Int in GJ-3470_WFC3_G141_2 (25)	103.128633 Secs X 9 (1856.315 Secs)	
							[==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[4]
8	G141 Science Data Forward (2) GJ-3470	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG -1.5,-16; SPATIAL SCAN 0.24,90.0 Degrees,Forward	Sequence 7-8 Non-Int in GJ-3470_WFC3_G141_2 (25)	103.128633 Secs (103.129 Secs)	
							[==>]	[4]









Proposal 13665 - GJ-3470 WFC3 G141 3 (26) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, GJ-3470_WFC3_G141_3 (26), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; Period 3.3366487 D AND ZERO-PHASE HJD2455983.70472 Comments: Third (of three) WFC3/G141 transit visits of GJ-3470. <i>It is essential for the four orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 in each GJ-3470 WFC3 visit observes GJ-3470 during the transit of GJ-3470b. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.9515-0.9580 in planet orbital phase, corresponding to a 31 minute interval. In order to also ensure complete coverage of the transit light curve when combining the three WFC3 visits, the first visit has been scheduled to begin within the first 10 minutes of the phase windows and the second visit has been scheduled to begin in the last 10 min of the phase windows. The remaining visits can be arbitrarily placed within the entire 0.9515-0.9580 phase window. If the first or second visits place a significant barrier to scheduling, the requirements for all visits and may be relaxed to 0.9515-0.9580 phase range.</i>					Sun Apr 10 01:17:25 GMT 2016
	<i>It is essential for the four orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 in each GJ-3470 WFC3 visit observes GJ-3470 during the transit of GJ-3470b. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.9515-0.9580 in planet orbital phase, corresponding to a 31 minute interval. In order to also ensure complete coverage of the transit light curve when combining the three WFC3 visits, the first visit has been scheduled to begin within the first 10 minutes of the phase windows and the second visit has been scheduled to begin in the last 10 min of the phase windows. The remaining visits can be arbitrarily placed within the entire 0.9515-0.9580 phase window. If the first or second visits place a significant barrier to scheduling, the requirements for all visits and may be relaxed to 0.9515-0.9580 phase range.</i>					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	GJ-3470	RA: 07 59 5.8700 (119.7744583d) Dec: +15 23 29.50 (15.39153d) Equinox: J2000	Proper Motion RA: -175 mas/yr Proper Motion Dec: -52 mas/yr Parallax: 0.040" Epoch of Position: 2000	V=12.33 R=11.2, I=9.8, J=8.79, H=8.21	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.						

Proposal 13665 - GJ-3470 WFC3 G141 3 (26) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

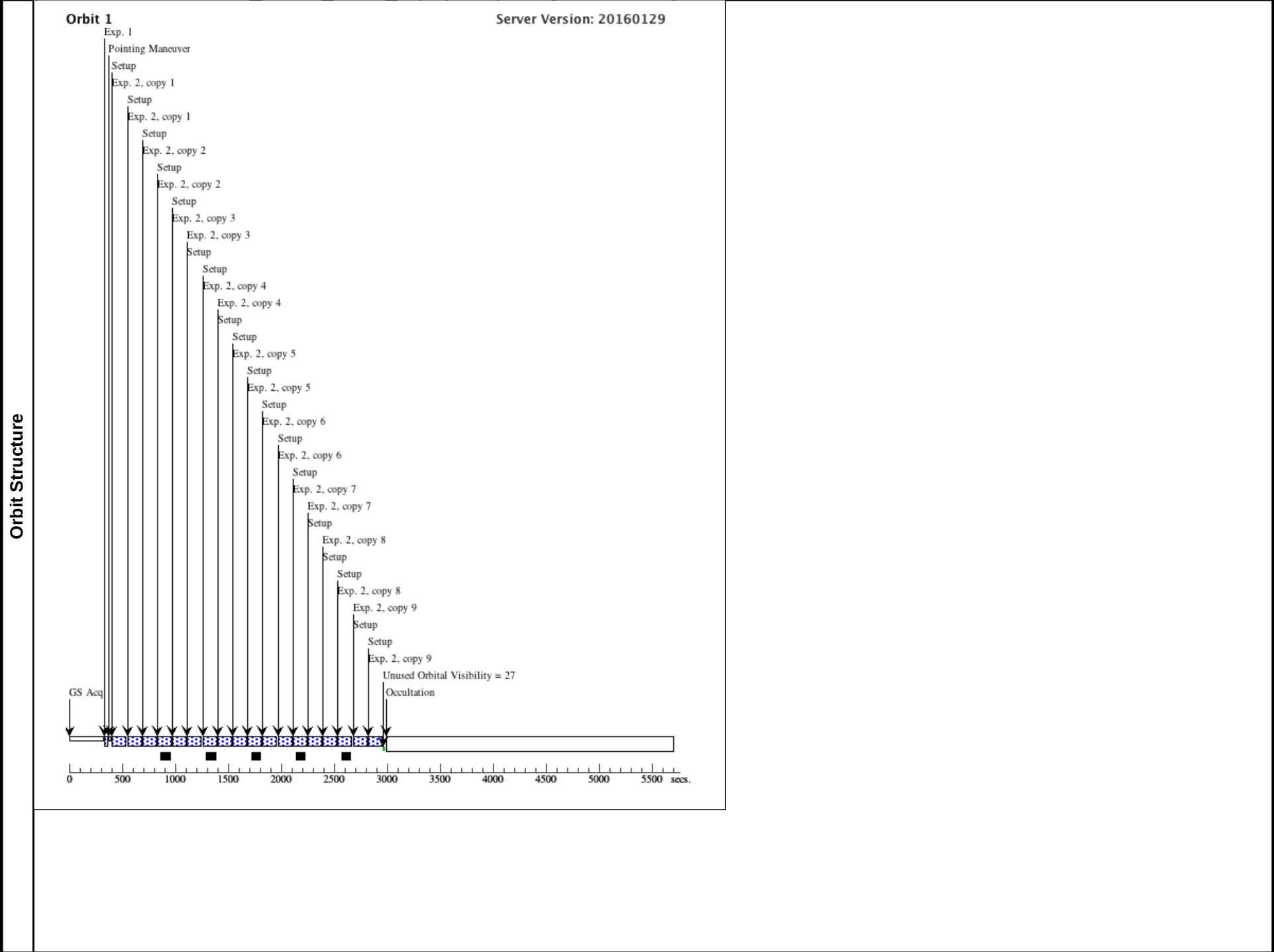
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	GJ-3470, A CQ, phase c onstrained	(2) GJ-3470	WFC3/IR, MULTIACCUM, IRSUB256	F130N	NSAMP=3; SAMP-SEQ=RAPID	PHASE 0.9515 TO 0.9580	Sequence 1-2 Non-Int in GJ-3470_WFC3_G141_3 (26)	0.833445 Secs (0.833 Secs) [==>]	[1]
	2	G141 Science Data	(2) GJ-3470	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 1.5,-16; SPATIAL SCAN 0.24,90.0 Degrees,Round trip	Sequence 1-2 Non-Int in GJ-3470_WFC3_G141_3 (26)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[1]
	3	G141 Science Data	(2) GJ-3470	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 1.5,-16; SPATIAL SCAN 0.24,90.0 Degrees,Round trip	Sequence 3-4 Non-Int in GJ-3470_WFC3_G141_3 (26)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[2]

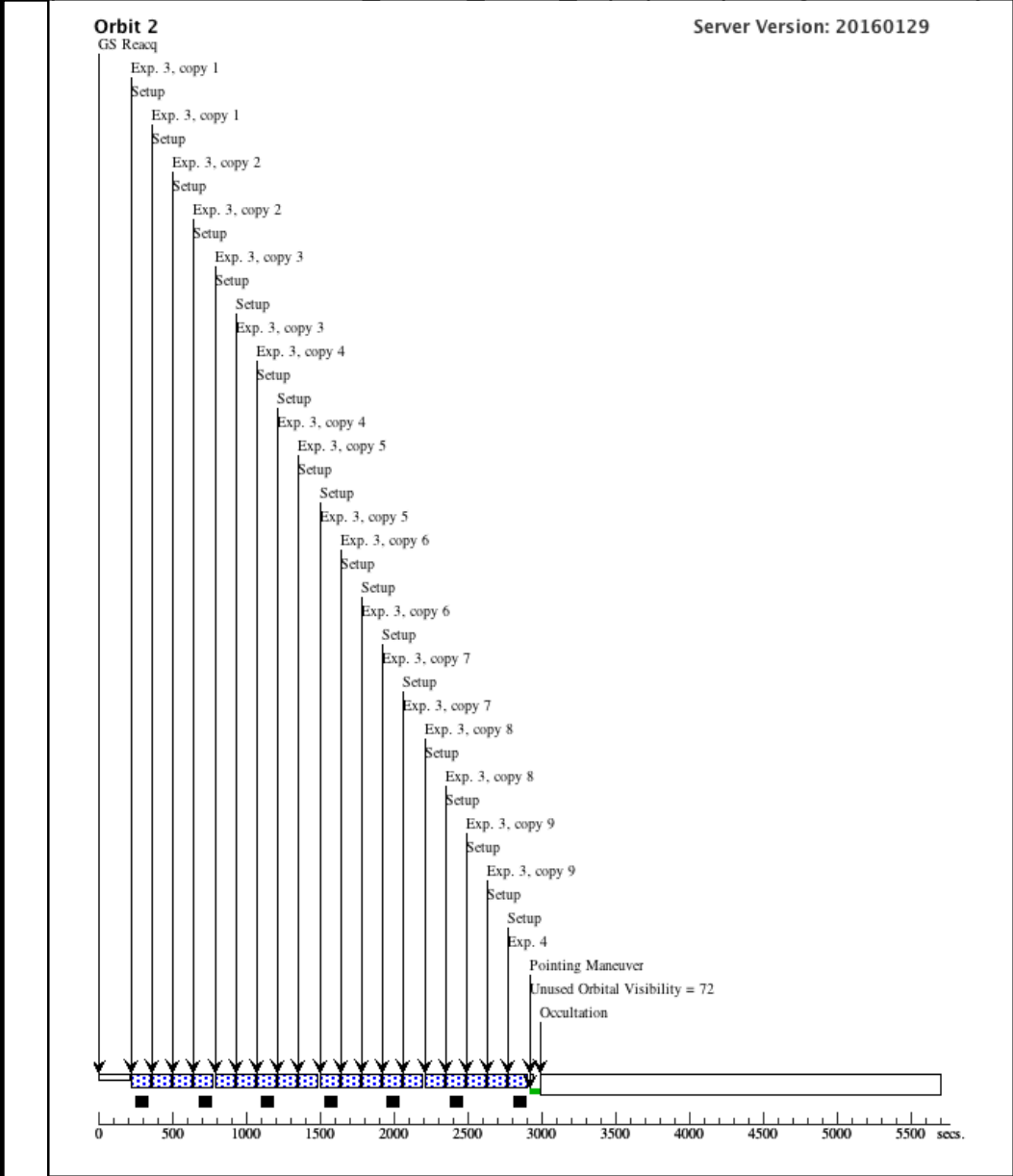
Proposal 13665 - GJ-3470 WFC3 G141 3 (26) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

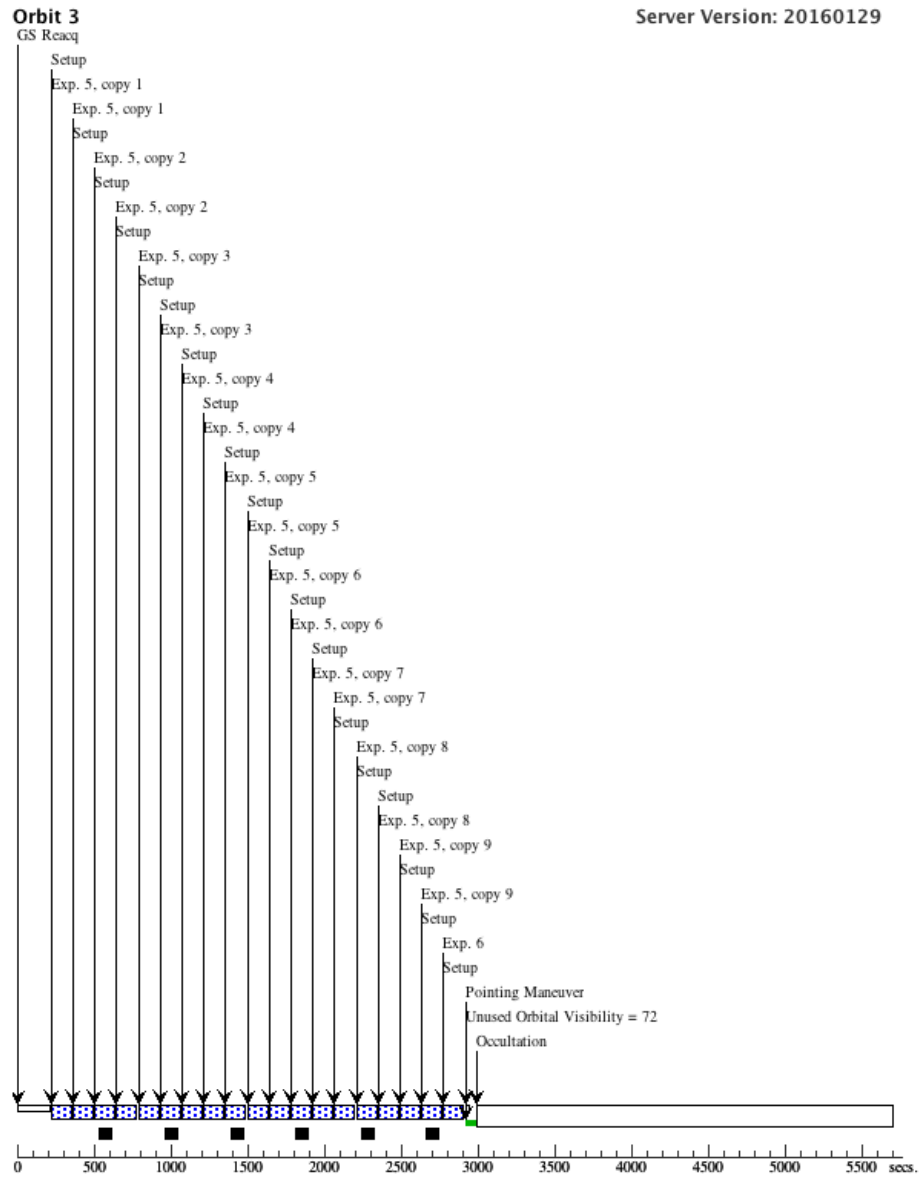
4	G141 Science Data Forward	(2) GJ-3470	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 1.5,-16; SPATIAL SCAN 0.24,90.0 Degrees,Forward	Sequence 3-4 Non-Int in GJ-3470_WFC3_G141_3 (26)	103.128633 Secs (103.129 Secs) [==>]	[2]
5	G141 Science Data	(2) GJ-3470	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 1.5,-16; SPATIAL SCAN 0.24,90.0 Degrees,Round trip	Sequence 5-6 Non-Int in GJ-3470_WFC3_G141_3 (26)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[3]
6	G141 Science Data Forward	(2) GJ-3470	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 1.5,-16; SPATIAL SCAN 0.24,90.0 Degrees,Forward	Sequence 5-6 Non-Int in GJ-3470_WFC3_G141_3 (26)	103.128633 Secs (103.129 Secs) [==>]	[3]

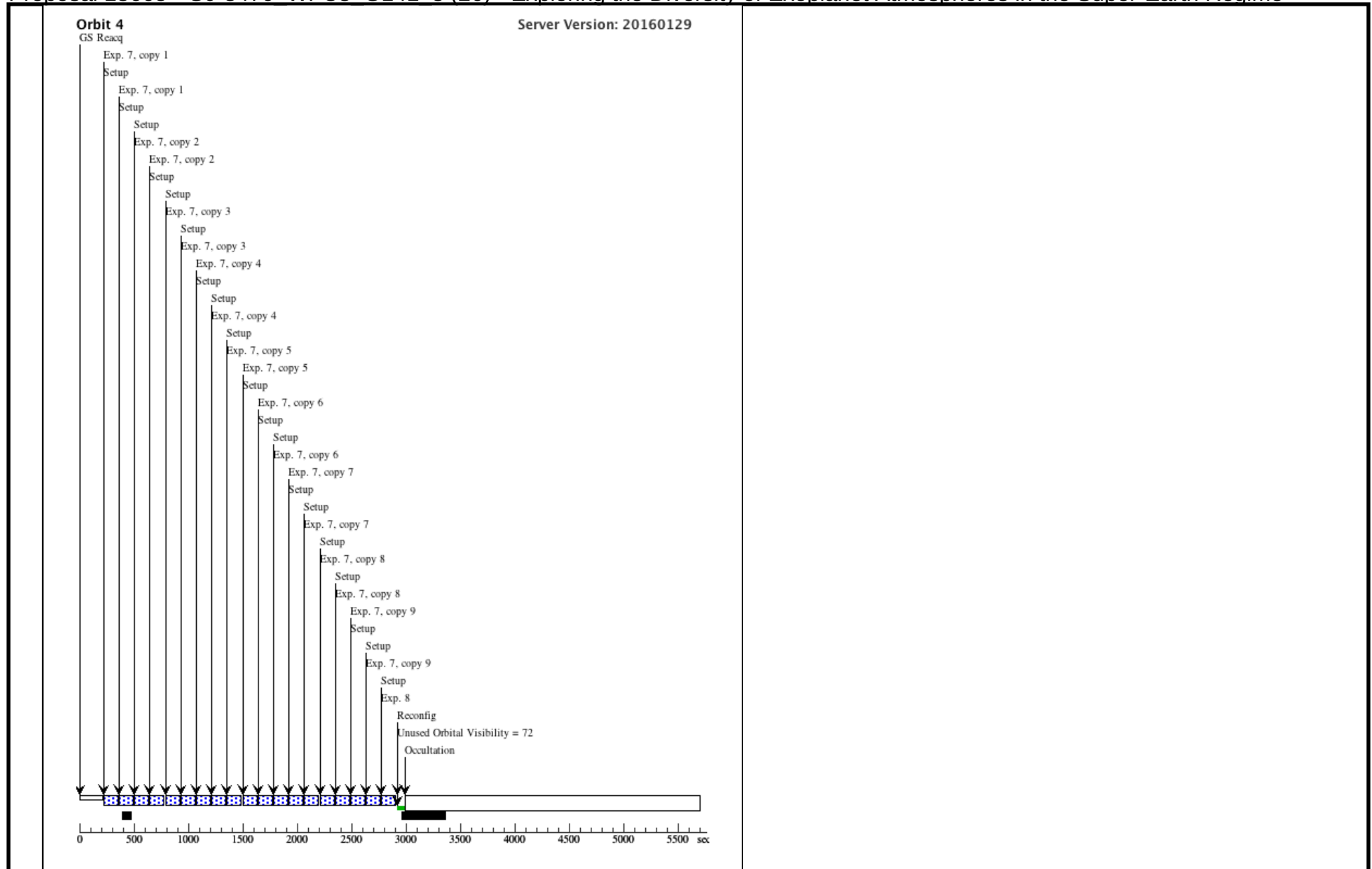
Proposal 13665 - GJ-3470 WFC3 G141 3 (26) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

7	G141 Science Data (2) GJ-3470	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 1.5,-16; SPATIAL SCAN 0.24,90.0 Degrees,Round trip	Sequence 7-8 Non-Int in GJ-3470_WFC3_G141_3 (26)	103.128633 Secs X 9 (1856.315 Secs)	
							[==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[4]
8	G141 Science Data Forward (2) GJ-3470	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 1.5,-16; SPATIAL SCAN 0.24,90.0 Degrees,Forward	Sequence 7-8 Non-Int in GJ-3470_WFC3_G141_3 (26)	103.128633 Secs (103.129 Secs)	
							[==>]	[4]









Proposal 13665 - GJ-436 STIS G750L 1 (27) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Sun Apr 10 01:17:25 GMT 2016

Proposal 13665, GJ-436_STIS_G750L_1 (27), completed

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD

Special Requirements: SCHED 100%; ORIENT 20D TO 170 D; ORIENT 200D TO 350 D; Period 2.64389782 D AND ZERO-PHASE HJD2456271.63758

Comments: First (of two) STIS/G750L transit of GJ 436b.

Visit

It is essential for the four orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 in each GJ-436 STIS visit observes GJ-436 during the transit of GJ-436b. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.9410-0.9455 in planet orbital phase, corresponding to a 17 minute interval. In order to also ensure complete coverage of the transit light curve when combining the three WFC3 visits, the first visit has been scheduled to begin within the first 8.5 minutes of the phase windows and the second visit has been scheduled to begin in the last 8.5 min of the phase windows. If the first or second visits place a significant barrier to scheduling, the requirements for all visits and may be relaxed to 0.9410-0.9455 phase range.

We disable auto-wavecal, which improves our observing efficiency and repeatability. We opt for only a single GO-wavecal (at the end of each visit) because the GO-wavecal requires a different aperture (52x0.2 instead of the 52x2 used for science observations). To minimize disruption to the observatory, we therefore defer the GO wavecal until the end of each visit. This strategy has been successfully employed in past programs, e.g. 12473 (PI Sing).

We also include orientation restrictions intended to avoid overlapping spectra with a $H=13.1$ star located at a distance of $64''$ ($6''S$, $63''W$) from GJ 436 ($H=6.3$). We find that we should avoid rotation angles between -10 to $+20$ degrees and 170 to 200 degrees in order to preserve a minimum separation of $12''$ in the Y (vertical) direction between the two spectra. We use 2MASS J2000 coordinates for both objects, and take into account GJ 436b's high proper motion of $[896.1, -813.5]$ mas/yr to calculate the J2012 coordinates and corresponding rotation angle constraints.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	GJ-436	RA: 11 42 11.0941 (175.5462254d) Dec: +26 42 23.65 (26.70657d) Equinox: J2000	Proper Motion RA: 0.059756 sec of time/yr Proper Motion Dec: -0.8137 arcsec/yr Parallax: 0.09773" Epoch of Position: 2000	V=10.68 R=9.6, I=8.2, J=6.9, H=6.32	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Proposal 13665 - GJ-436 STIS G750L 1 (27) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
								[==>]	
1	ACQ, phase constrained	(3) GJ-436	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.9410 TO 0.9434	Sequence 1-2 Non-Int in GJ-436_STIS_G750L_1 (27)	.1 Secs (0.1 Secs)	[1]
2	GJ-436 G750L Orbit 1	(3) GJ-436	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256; WAVECAL=NO		Sequence 1-2 Non-Int in GJ-436_STIS_G750L_1 (27)	100 Secs X 18 (1800 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)]	

Exposures

Proposal 13665 - GJ-436 STIS G750L 1 (27) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

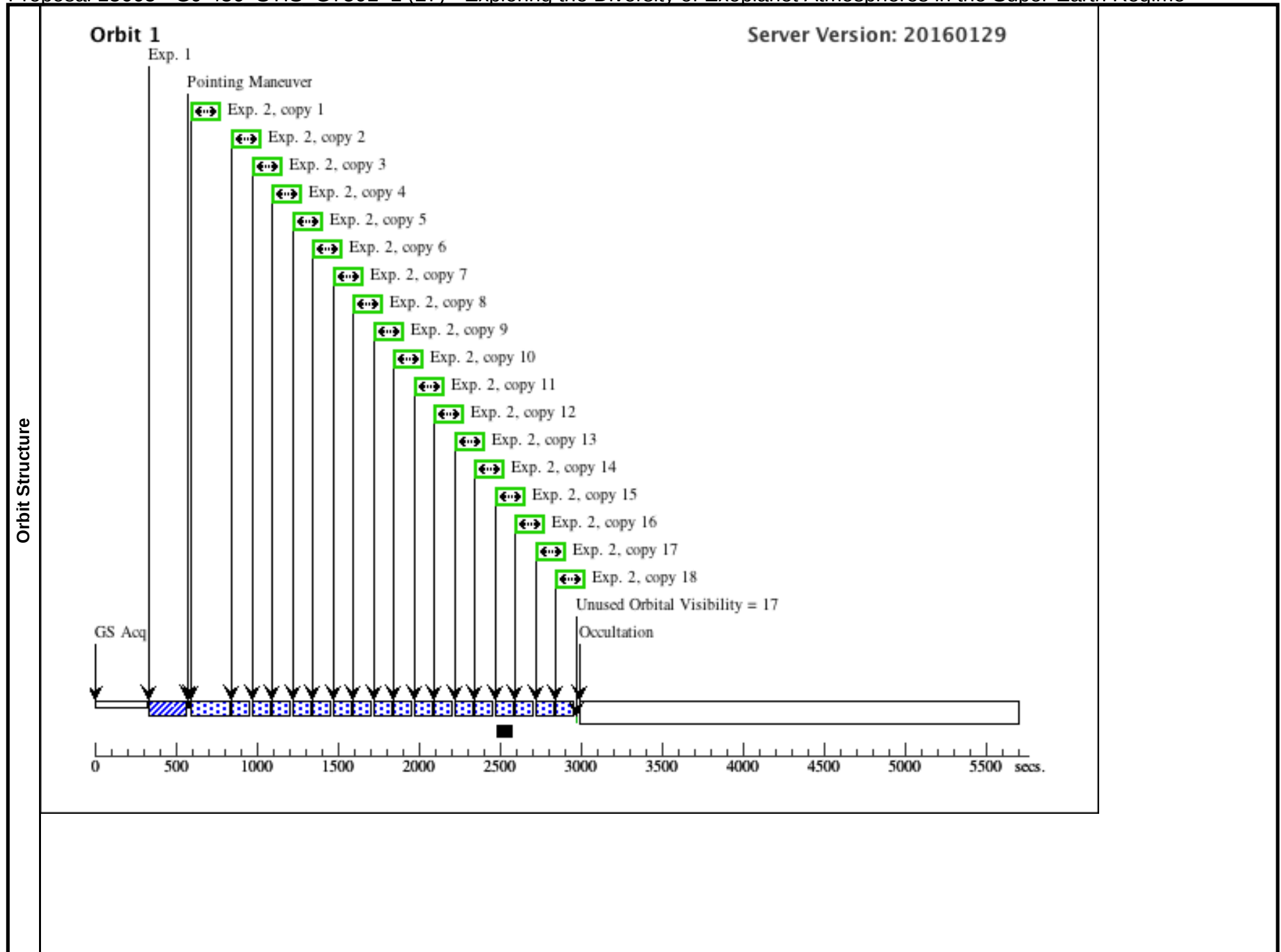
3	GJ-436 G75 (3) GJ-436 0L Orbit 2	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256	Sequence 3-3 Non-Int in GJ-436_STIS_G 750L_1 (27)	100 Secs X 22 (2200 Secs)	
						[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)]	[2]

Proposal 13665 - GJ-436 STIS G750L 1 (27) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

4	GJ-436 G75 (3) GJ-436 0L Orbit 3	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256	Sequence 4-4 Non-Int in GJ-436_STIS_G 750L_1 (27)	100 Secs X 22 (2200 Secs)	
						[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)]	[3]

Proposal 13665 - GJ-436 STIS G750L 1 (27) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

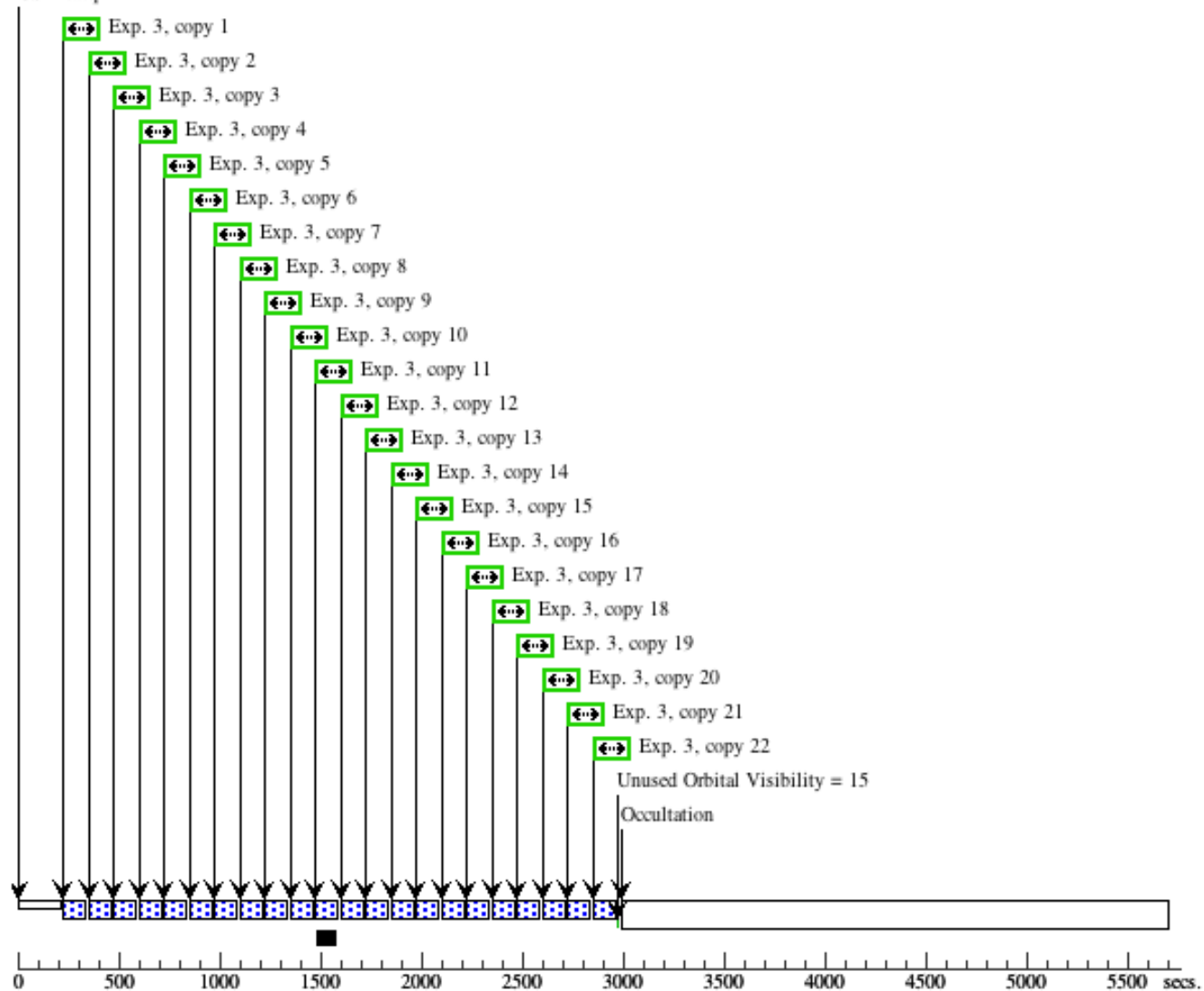
5	GJ-436 G75 (3) GJ-436 0L Orbit 4	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256	Sequence 5-7 Non-Int in GJ-436_STIS_G 750L_1 (27)	100 Secs X 22 (2200 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)]	[4]
6	GO-WAVE WAVE CAL	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A		Sequence 5-7 Non-Int in GJ-436_STIS_G 750L_1 (27)	[==>]	[4]
<i>Comments: Explicit WAVECAL, auto-waves disabled</i>							
7	Fringe Flat CCDFLAT	STIS/CCD, ACCUM, 0.3X0.09	G750L 7751 A		Sequence 5-7 Non-Int in GJ-436_STIS_G 750L_1 (27)	[==>(Copy 1)] [==>(Copy 2)]	[4]



Orbit 2

Server Version: 20160129

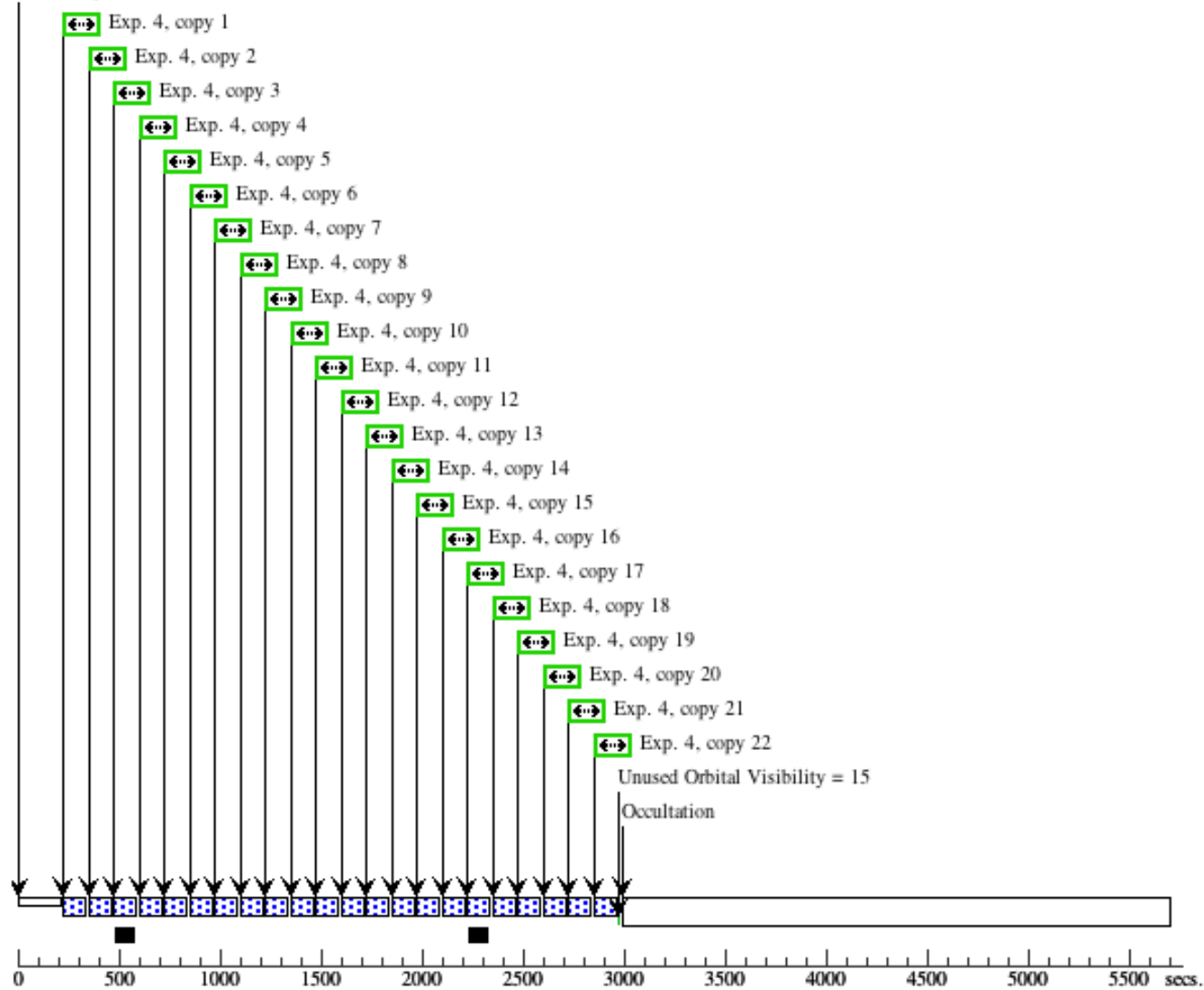
GS Reacq

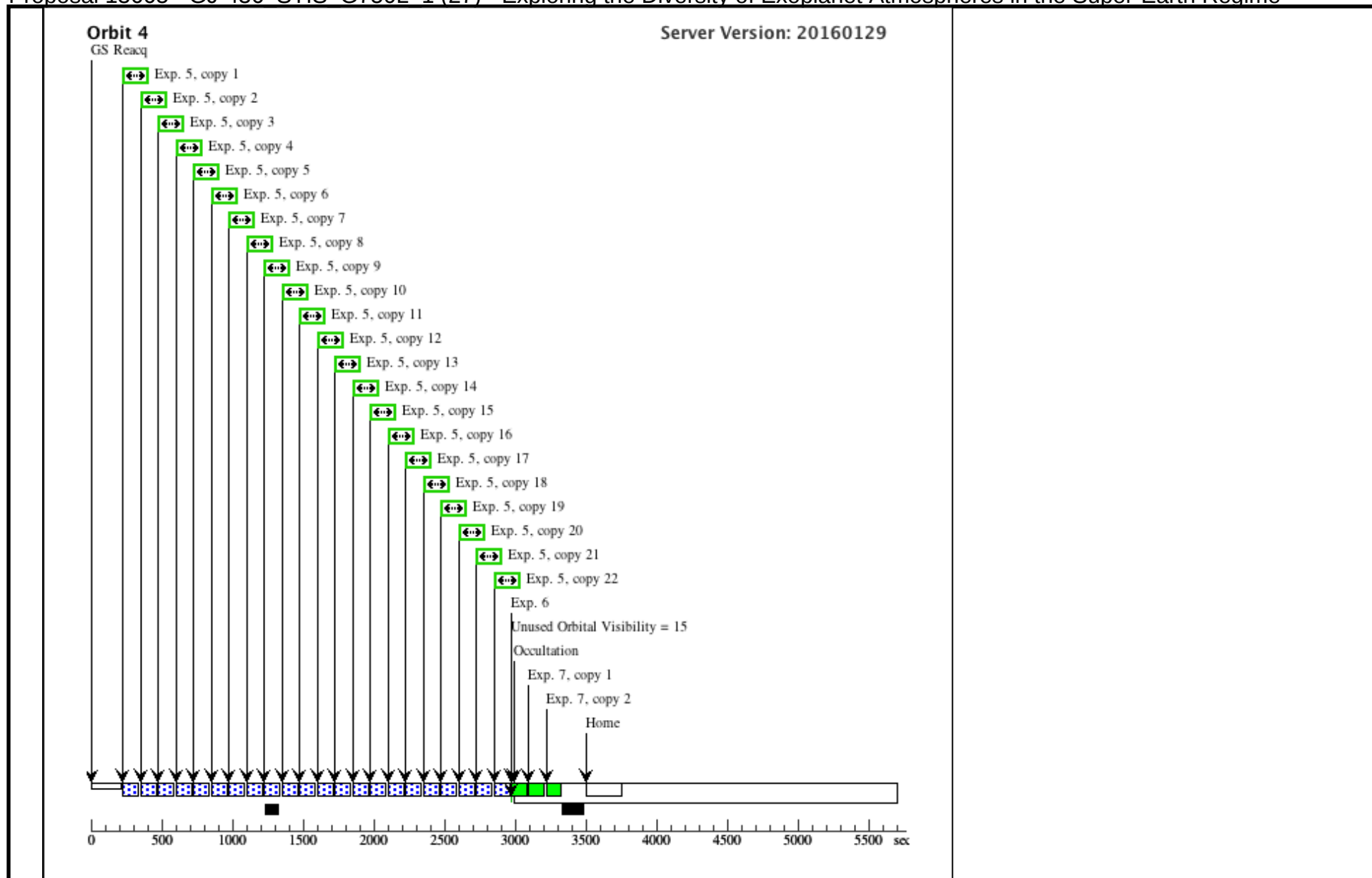


Orbit 3

Server Version: 20160129

GS Reacq





Proposal 13665 - GJ-436 STIS G750L 2 (28) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Proposal 13665, GJ-436_STIS_G750L_2 (28), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ORIENT 20D TO 170 D; ORIENT 200D TO 350 D; Period 2.64389782 D AND ZERO-PHASE HJD2456271.63758 Comments: Second (of two) STIS/G750L transit of GJ 436b.					
Visit	It is essential for the four orbits in each visit to be scheduled in a contiguous block. These orbits should be free of the SAA. Orbits 3 in each GJ-436 STIS visit observes GJ-436 during the transit of GJ-436b. To maximize the time of in-transit observation, the total allowed window for the start of the first exposure in orbit 1 is 0.9410-0.9455 in planet orbital phase, corresponding to a 17 minute interval. In order to also ensure complete coverage of the transit light curve when combining the three WFC3 visits, the first visit has been scheduled to begin within the first 8.5 minutes of the phase windows and the second visit has been scheduled to begin in the last 8.5 min of the phase windows. If the first or second visits place a significant barrier to scheduling, the requirements for all visits and may be relaxed to 0.9410-0.9455 phase range. We disable auto-wavecalcs, which improves our observing efficiency and repeatability. We opt for only a single GO-wavecal (at the end of each visit) because the GO-wavecal requires a different aperture (52x0.2 instead of the 52x2 used for science observations). To minimize disruption to the observatory, we therefore defer the GO wavecal until the end of each visit. This strategy has been successfully employed in past programs, e.g. 12473 (PI Sing). We also include orientation restrictions intended to avoid overlapping spectra with a H=13.1 star located at a distance of 64" (6"S, 63"W) from GJ 436 (H=6.3). We find that we should avoid rotation angles between -10 to +20 degrees and 170 to 200 degrees in order to preserve a minimum separation of 12" in the Y (vertical) direction between the two spectra. We use 2MASS J2000 coordinates for both objects, and take into account GJ 436b's high proper motion of [896.1, -813.5] mas/yr to calculate the J2012 coordinates and corresponding rotation angle constraints.				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(3)	GJ-436	RA: 11 42 11.0941 (175.5462254d) Dec: +26 42 23.65 (26.70657d) Equinox: J2000	Proper Motion RA: 0.059756 sec of time/yr Proper Motion Dec: -0.8137 arcsec/yr Parallax: 0.09773" Epoch of Position: 2000	V=10.68 R=9.6, I=8.2, J=6.9, H=6.32
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.					

Sun Apr 10 01:17:25 GMT 2016

Proposal 13665 - GJ-436 STIS G750L 2 (28) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
								[==>]	
1	ACQ, phase constrained	(3) GJ-436	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.9434 TO 0.9455	Sequence 1-2 Non-Int in GJ-436_STIS_G750L_2 (28)	.1 Secs (0.1 Secs)	[1]
2	GJ-436 G750L Orbit 1	(3) GJ-436	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256; WAVECAL=NO		Sequence 1-2 Non-Int in GJ-436_STIS_G750L_2 (28)	100 Secs X 18 (1800 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)]	
Exposures									[1]

Proposal 13665 - GJ-436 STIS G750L 2 (28) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

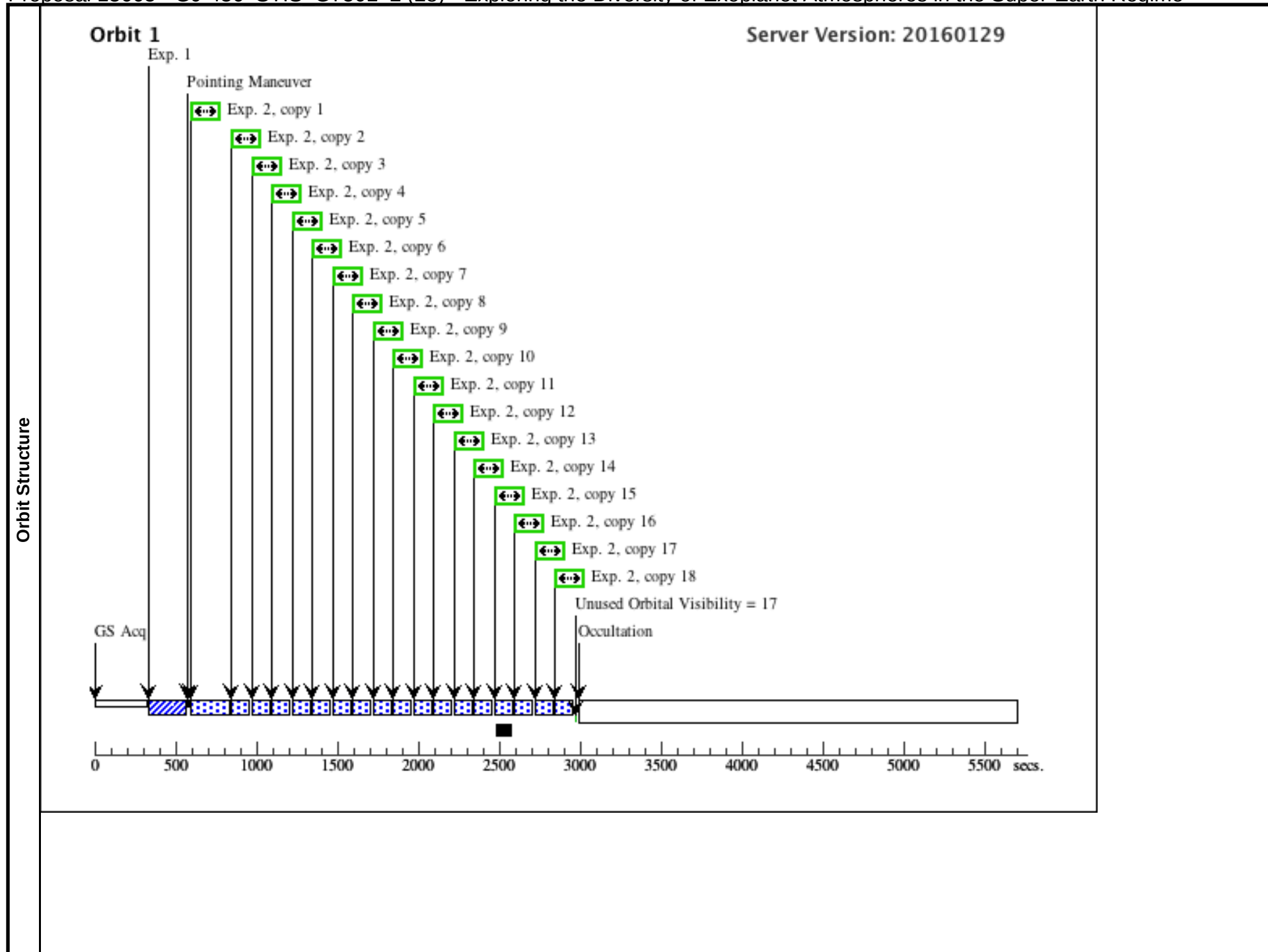
3	GJ-436 G75 (3) GJ-436 0L Orbit 2	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256	Sequence 3-3 Non-Int in GJ-436_STIS_G 750L_2 (28)	100 Secs X 22 (2200 Secs)	
						[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)]	[2]

Proposal 13665 - GJ-436 STIS G750L 2 (28) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

4	GJ-436 G75 (3) GJ-436 0L Orbit 3	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256	Sequence 4-4 Non-Int in GJ-436_STIS_G 750L_2 (28)	100 Secs X 22 (2200 Secs)	
						[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)]	[3]

Proposal 13665 - GJ-436 STIS G750L 2 (28) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

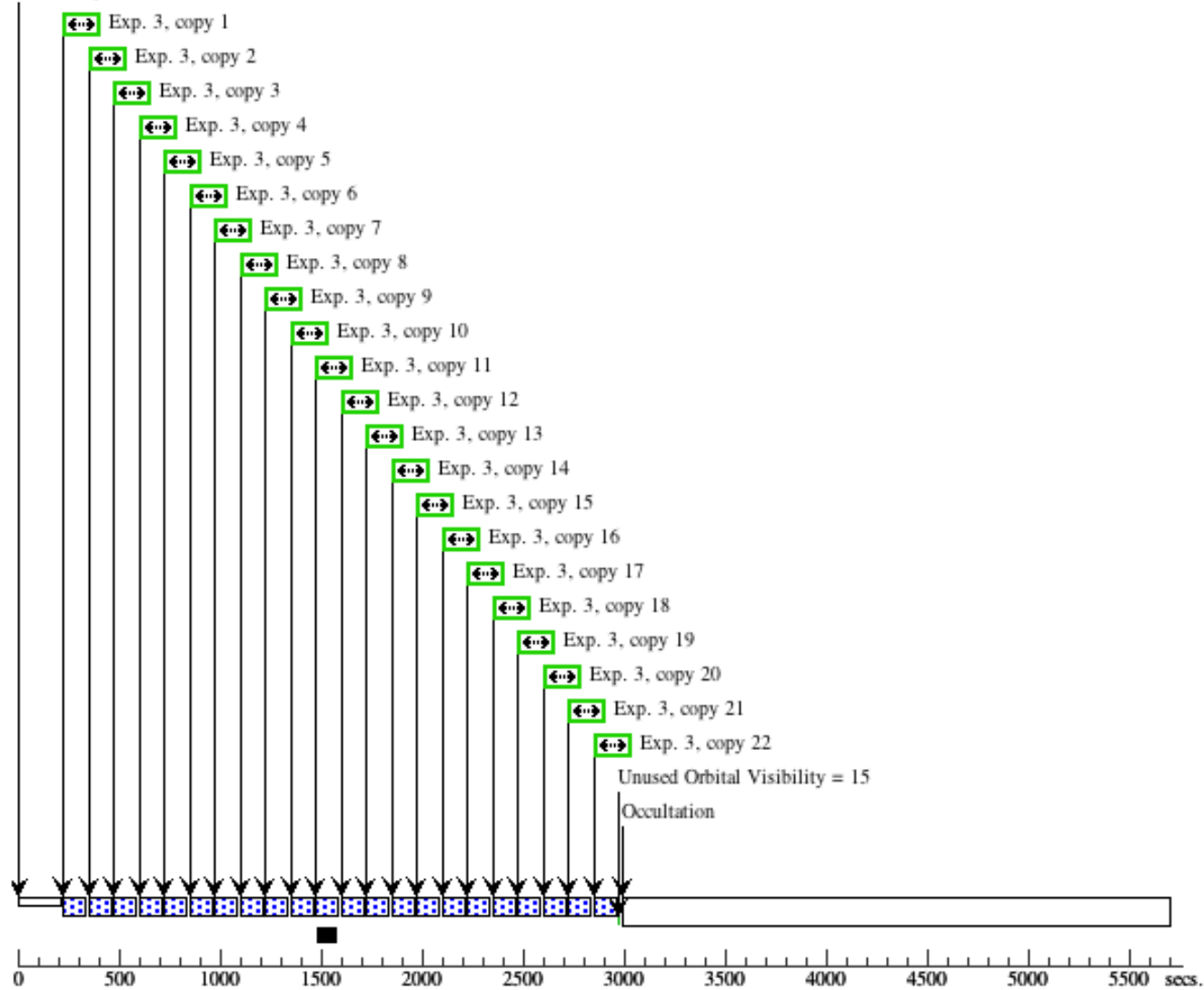
5	GJ-436 G75 (3) GJ-436 0L Orbit 4	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=256	Sequence 5-7 Non-Int in GJ-436_STIS_G 750L_2 (28)	100 Secs X 22 (2200 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)]	[4]
6	GO-WAVE WAVE CAL	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A		Sequence 5-7 Non-Int in GJ-436_STIS_G 750L_2 (28)	[==>]	[4]
<i>Comments: Explicit WAVECAL, auto-waves disabled</i>							
7	Fringe Flat CCDFLAT	STIS/CCD, ACCUM, 0.3X0.09	G750L 7751 A		Sequence 5-7 Non-Int in GJ-436_STIS_G 750L_2 (28)	[==>(Copy 1)] [==>(Copy 2)]	[4]



Orbit 2

Server Version: 20160129

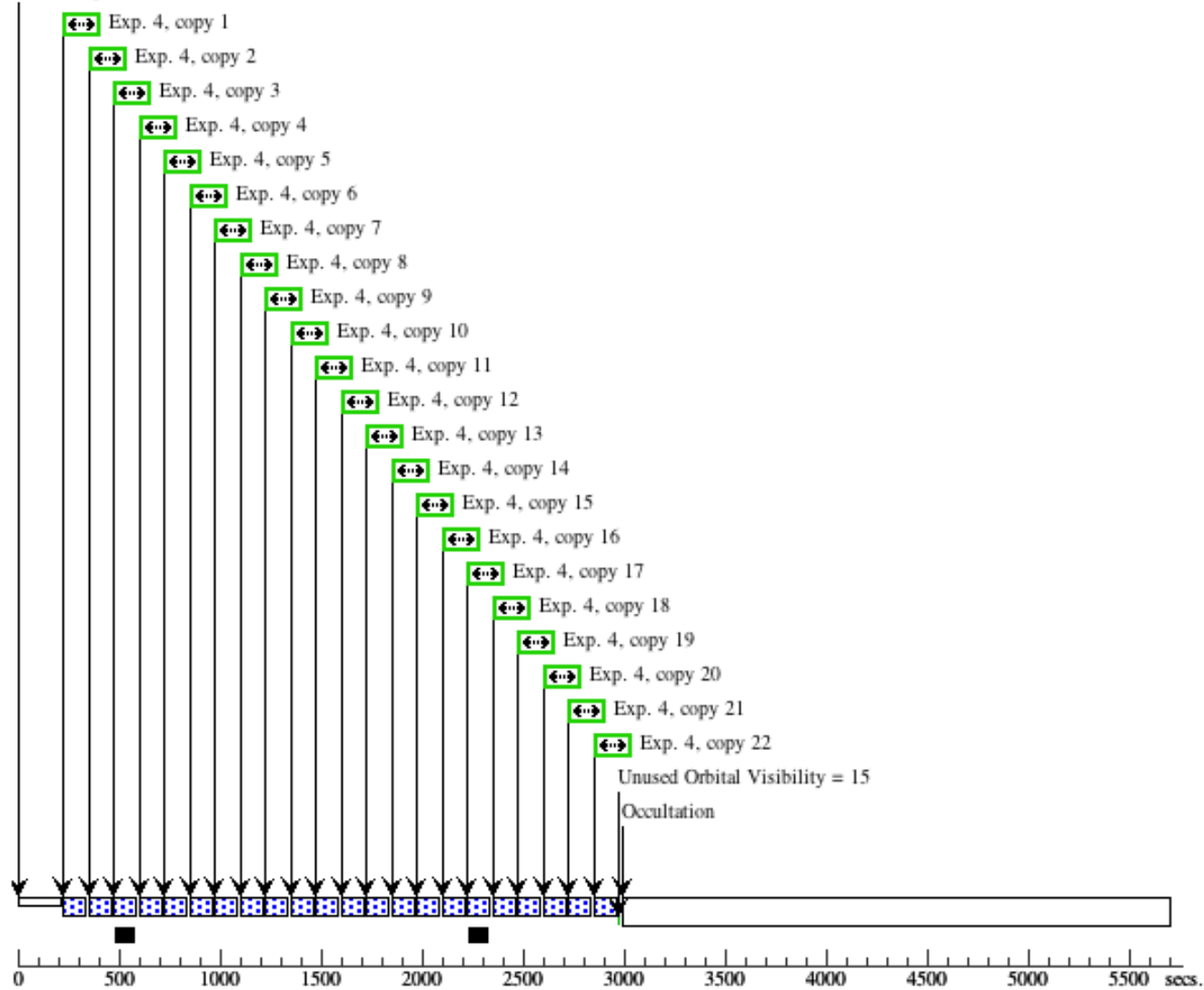
GS Reacq

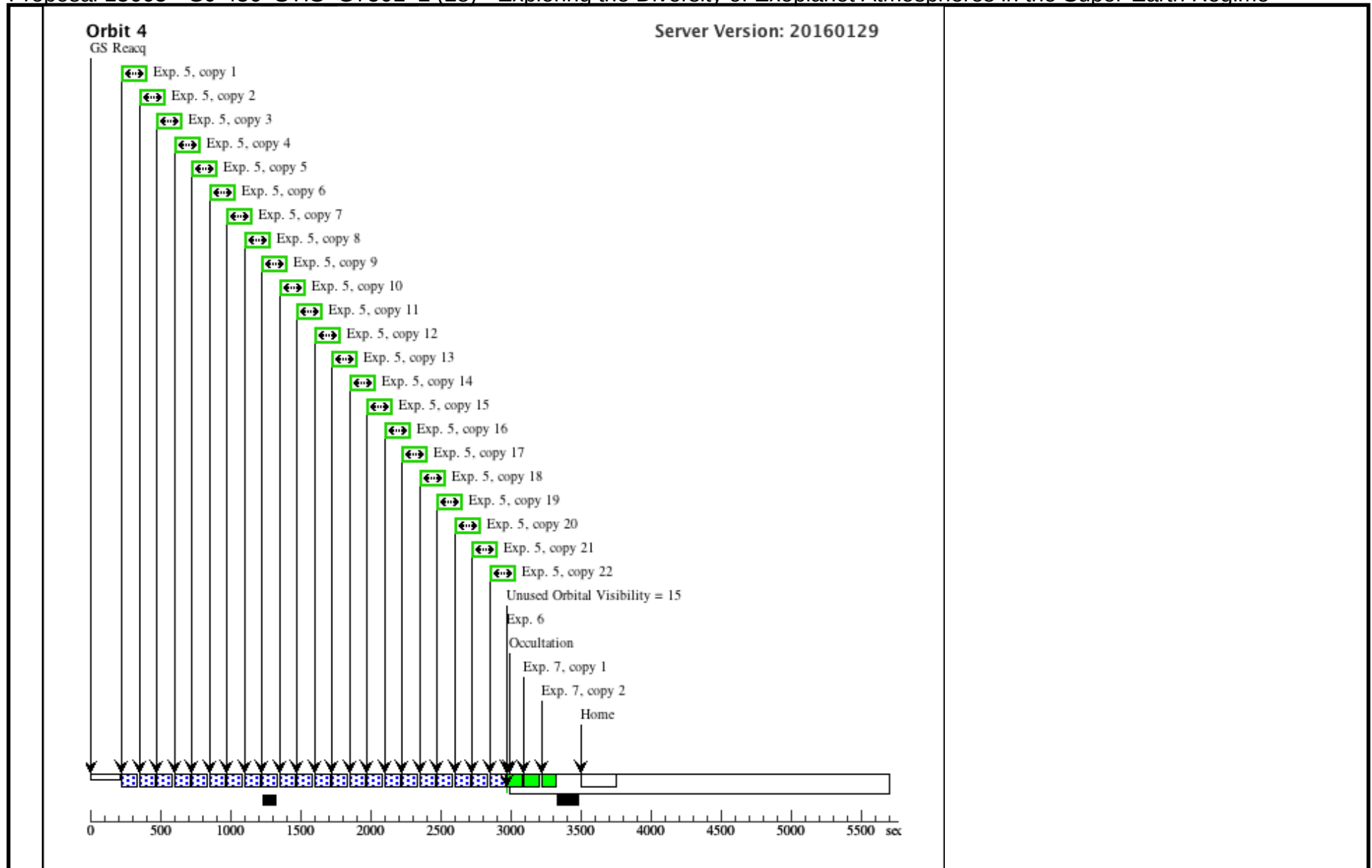


Orbit 3

Server Version: 20160129

GS Reacq





Proposal 13665 - EPIC2019 WFC3 1 (29) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, EPIC2019_WFC3_1 (29), completed Sun Apr 10 01:17:25 GMT 2016				
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; Period 32.939700 D AND ZERO-PHASE HJD2457264.391819 <i>Comments: WFC3/G141 transit visits of EPIC2019 WFC3 1. It is essential for the orbits in each visit to be scheduled in a contiguous block.</i>				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(6)	EPIC201912552	RA: 11 30 14.5090 (172.5604542d) Dec: +07 35 18.21 (7.58839d) Equinox: J2000	Proper Motion RA: -89.8 mas/yr Proper Motion Dec: -136.7 mas/yr Epoch of Position: 2000	V=13.5+/-0.05 J = 9.76; H = 9.13
					Reference Frame: ICRS

Proposal 13665 - EPIC2019 WFC3 1 (29) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ, phase constrained	(6) EPIC201912552	WFC3/IR, MULTIACCUM, IRSUB256	F130N	NSAMP=3; SAMP-SEQ=RAPID	PHASE 0.9936 TO 0.9953; GS ACQ SCENARIO BASE1B3	Sequence 1-2 Non-Int in EPIC2019_WFC3_1 (29)	0.833445 Secs (0.833 Secs) [==>]	[1]
	2	G141 Science Data	(6) EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.14,90.0 Degrees,Round trip	Sequence 1-2 Non-Int in EPIC2019_WFC3_1 (29)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[1]
	3	G141 Science Data	(6) EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.14,90.0 Degrees,Round trip	Sequence 3-4 Non-Int in EPIC2019_WFC3_1 (29)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[2]

Proposal 13665 - EPIC2019 WFC3 1 (29) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

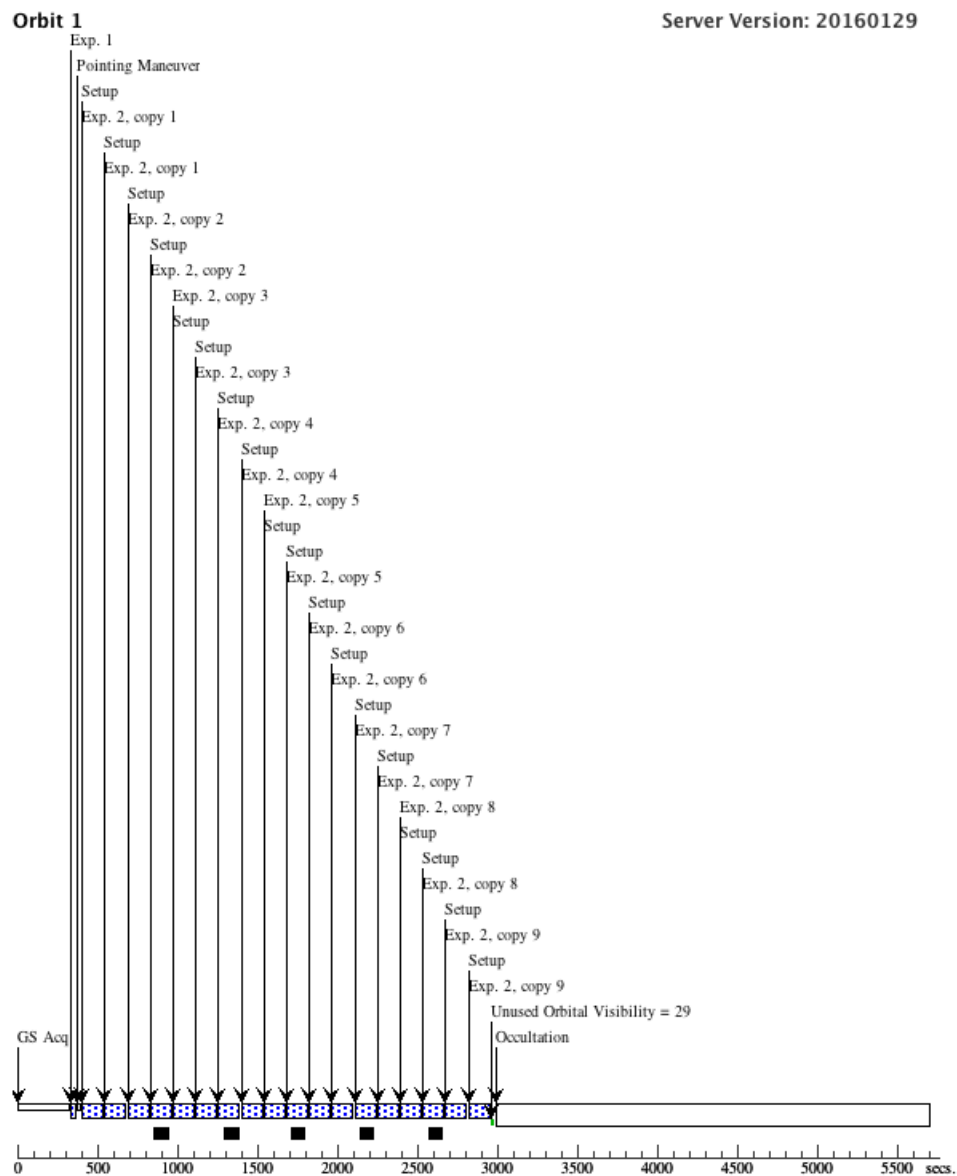
4	G141 Science Data	(6) EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.14,90.0 Degrees,Forward	Sequence 3-4 Non-Int in EPIC2019_WFC3_1 (29)	103.128633 Secs (103.129 Secs) [==>]	[2]
5	G141 Science Data	(6) EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.14,90.0 Degrees,Round trip	Sequence 5-6 Non-Int in EPIC2019_WFC3_1 (29)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[3]
6	G141 Science Data	(6) EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.14,90.0 Degrees,Forward	Sequence 5-6 Non-Int in EPIC2019_WFC3_1 (29)	103.128633 Secs (103.129 Secs) [==>]	[3]

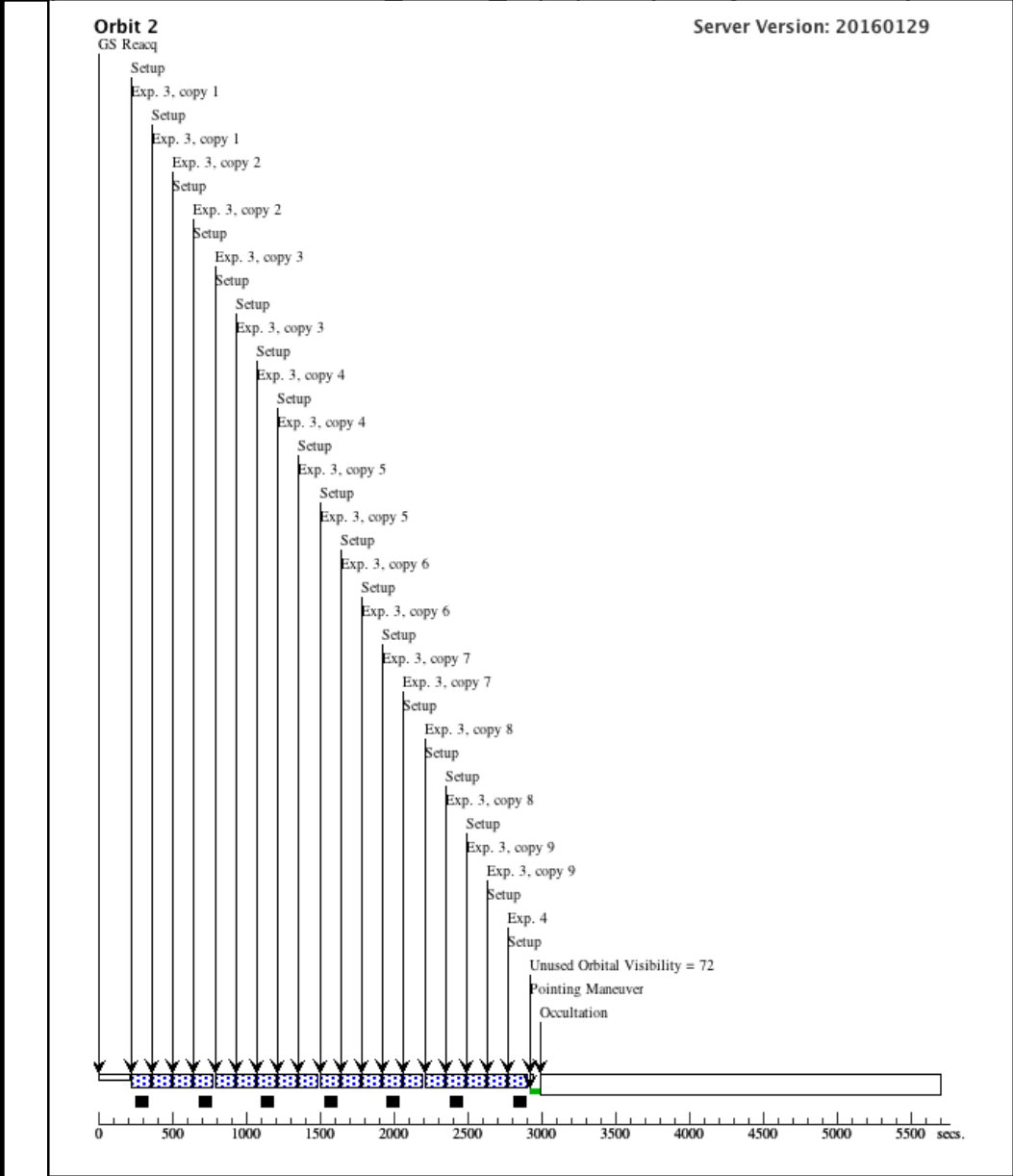
Proposal 13665 - EPIC2019 WFC3 1 (29) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

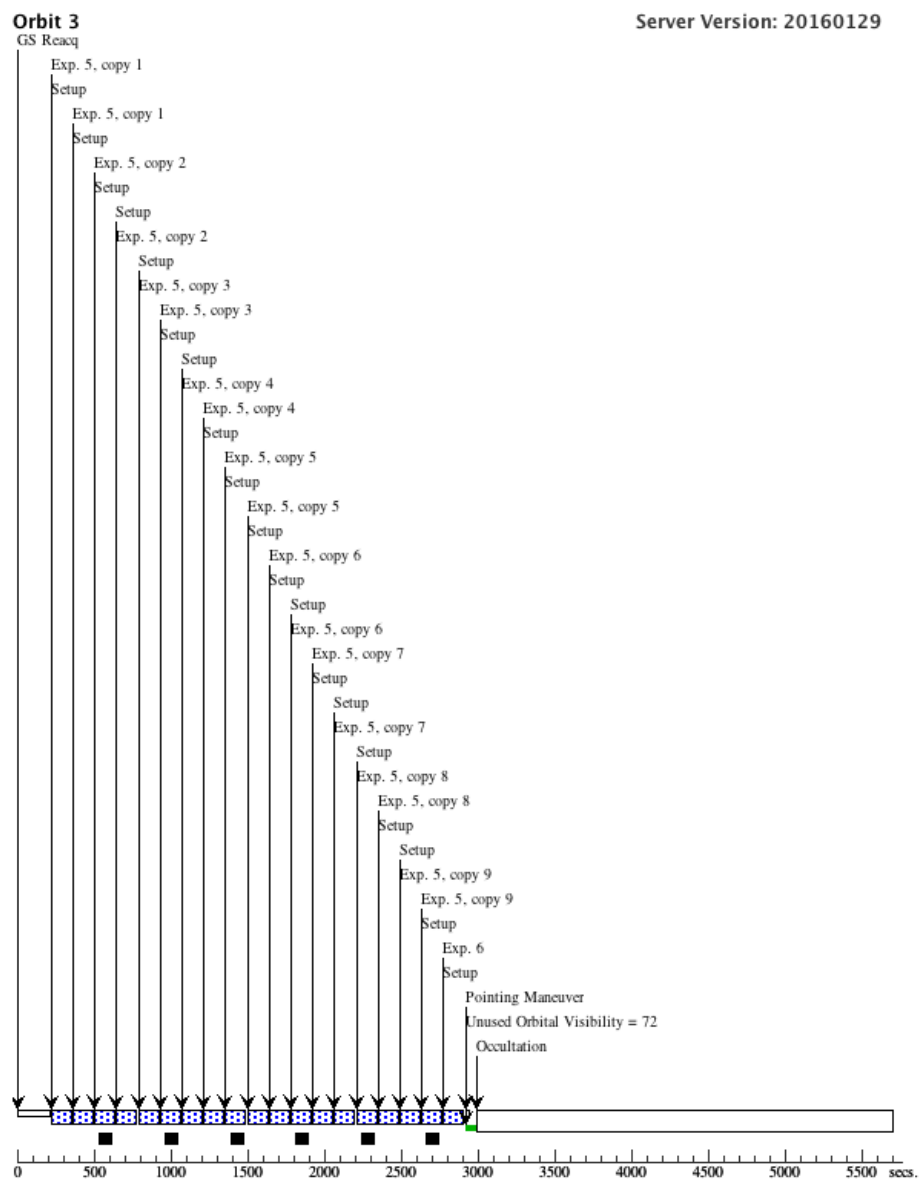
7	G141 Science Data	(6) EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.1 4,90.0 Degrees, Round trip	Sequence 7-8 Non-Int in EPIC2019_WFC3_1 (29)	103.128633 Secs X 9 (1856.315 Secs)	
								[==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[4]
8	G141 Science Data	(6) EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.1 4,90.0 Degrees, Forward	Sequence 7-8 Non-Int in EPIC2019_WFC3_1 (29)	103.128633 Secs (103.129 Secs)	
								[==>]	[4]
9	G141 Science Data	(6) EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.1 4,90.0 Degrees, Round trip	Sequence 9-10 Non-Int in EPIC2019_WFC3_1 (29)	103.128633 Secs X 9 (1856.315 Secs)	
								[==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[5]

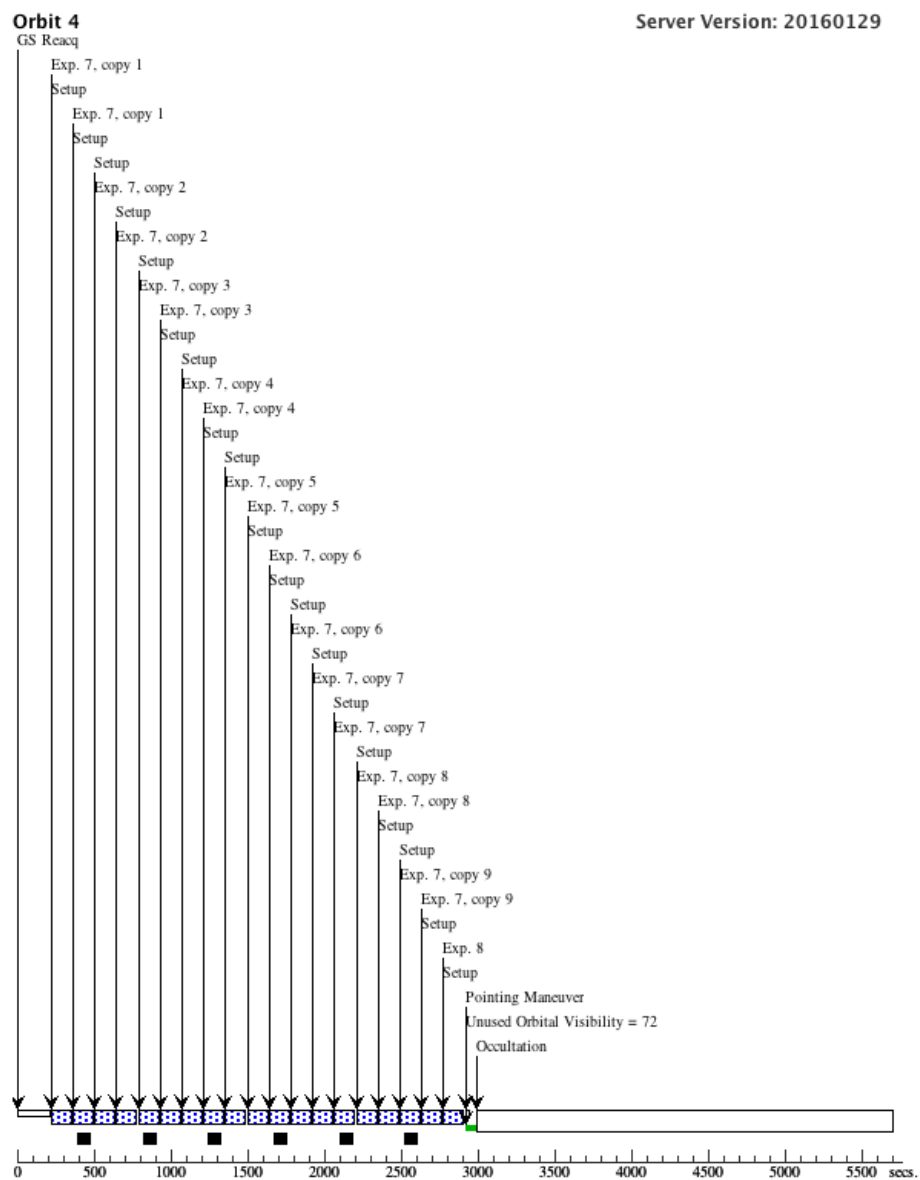
Proposal 13665 - EPIC2019 WFC3 1 (29) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

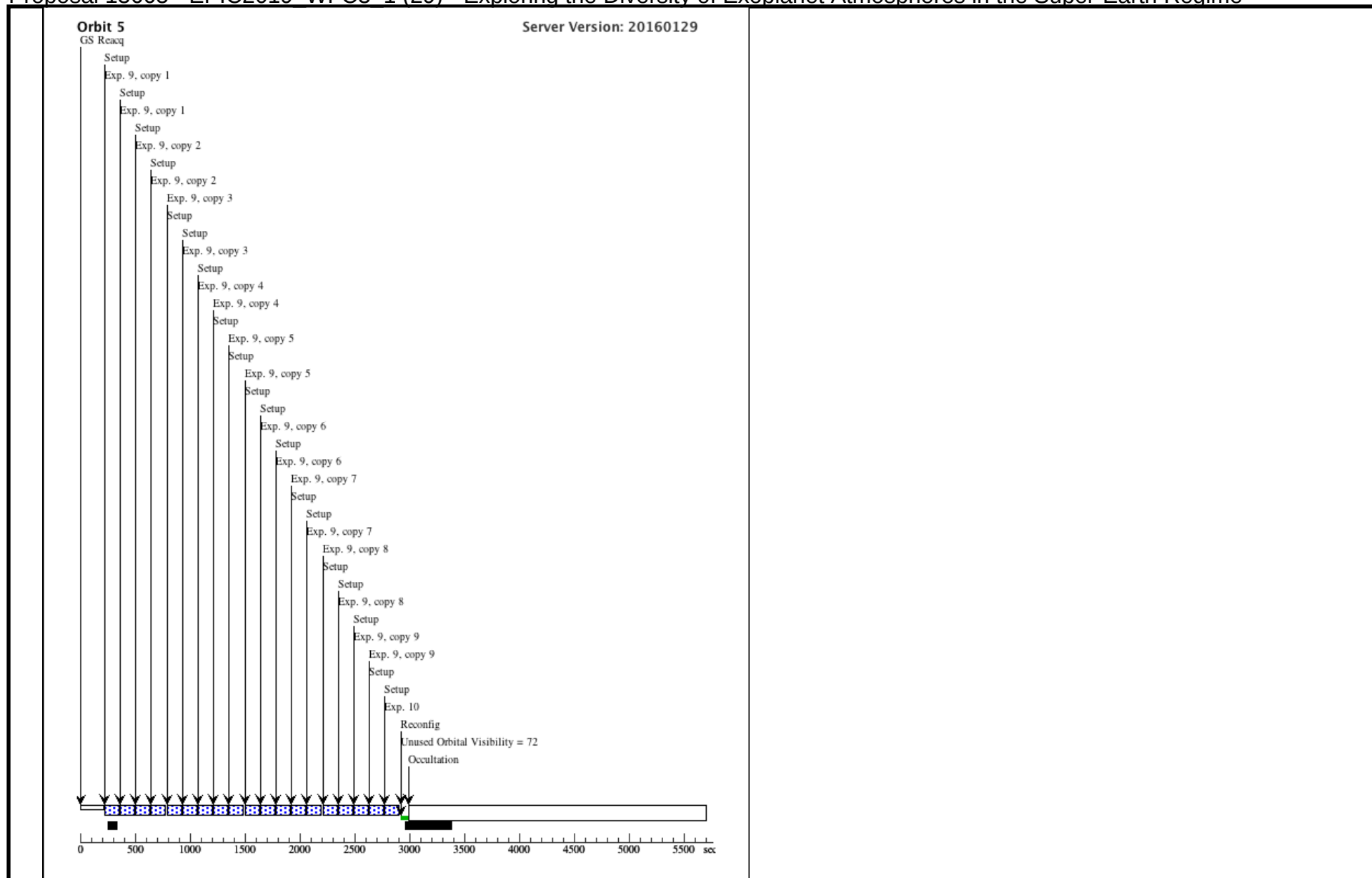
10	G141 Science Data	(6) EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.14,90.0 Degrees,Forward	Sequence 9-10 Non-Int in EPIC2019_WFC3_1 (29)	103.128633 Secs (103.129 Secs) [==>]	[5]
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Proposal 13665 - EPIC2019 WFC3 2 (30) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, EPIC2019_WFC3_2 (30), implementation Sun Apr 10 01:17:25 GMT 2016				
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; Period 32.939700 D AND ZERO-PHASE HJD2457264.391819 <i>Comments: WFC3/G141 transit visits of EPIC2019 WFC3 1. It is essential for the orbits in each visit to be scheduled in a contiguous block.</i>				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(6)	EPIC201912552	RA: 11 30 14.5090 (172.5604542d) Dec: +07 35 18.21 (7.58839d) Equinox: J2000	Proper Motion RA: -89.8 mas/yr Proper Motion Dec: -136.7 mas/yr Epoch of Position: 2000	V=13.5+/-0.05 J = 9.76; H = 9.13
					Miscellaneous Reference Frame: ICRS

Proposal 13665 - EPIC2019 WFC3 2 (30) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ, phase constrained	(6) EPIC201912552	WFC3/IR, MULTIACCUM, IRSUB256	F130N	NSAMP=3; SAMP-SEQ=RAPID	PHASE 0.9936 TO 0.9953; GS ACQ SCENARIO BASE1B3	Sequence 1-2 Non-Int in EPIC2019_WFC3_2 (30)	0.833445 Secs (0.833 Secs) [==>]	[1]
	2	G141 Science Data	(6) EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.14,90.0 Degrees,Round trip	Sequence 1-2 Non-Int in EPIC2019_WFC3_2 (30)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[1]
	3	G141 Science Data	(6) EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.14,90.0 Degrees,Round trip	Sequence 3-4 Non-Int in EPIC2019_WFC3_2 (30)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[2]

Proposal 13665 - EPIC2019 WFC3 2 (30) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

4	G141 Science Data	(6) EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.14,90.0 Degrees,Forward	Sequence 3-4 Non-Int in EPIC2019_WFC3_2 (30)	103.128633 Secs (103.129 Secs) [==>]	[2]
5	G141 Science Data	(6) EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.14,90.0 Degrees,Round trip	Sequence 5-6 Non-Int in EPIC2019_WFC3_2 (30)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[3]
6	G141 Science Data	(6) EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.14,90.0 Degrees,Forward	Sequence 5-6 Non-Int in EPIC2019_WFC3_2 (30)	103.128633 Secs (103.129 Secs) [==>]	[3]

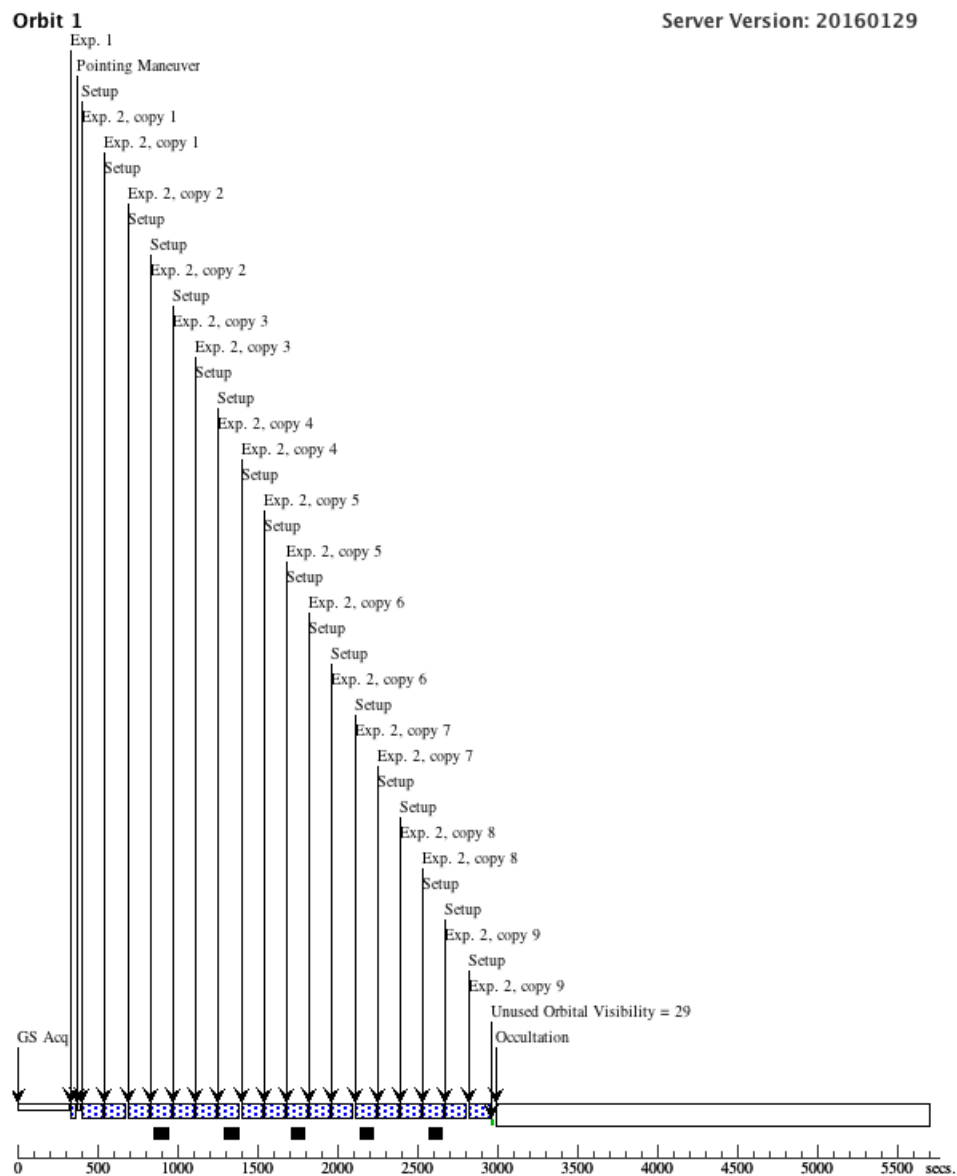
Proposal 13665 - EPIC2019 WFC3 2 (30) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

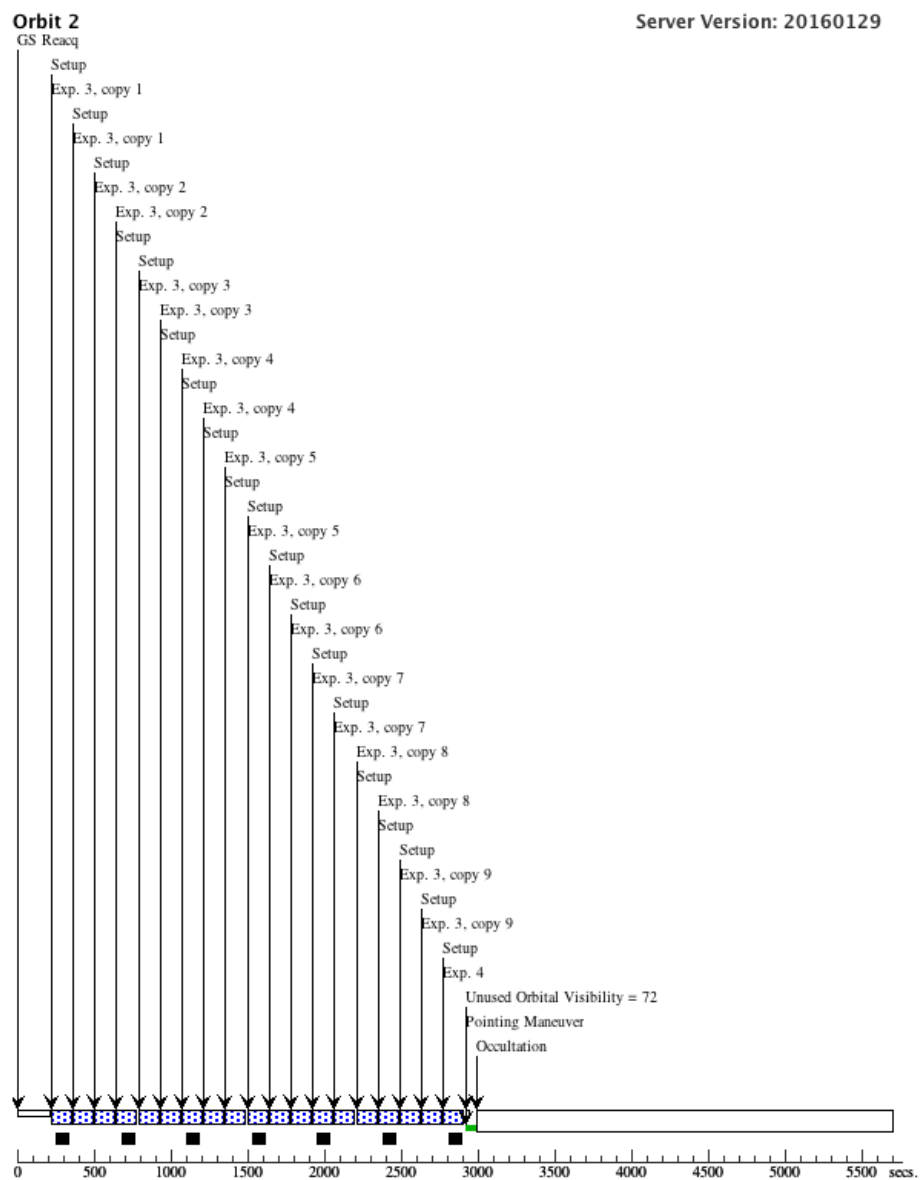
7	G141 Science Data	(6) EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.14,90.0 Degrees, Round trip	Sequence 7-8 Non-Int in EPIC2019_WFC3_2 (30)	103.128633 Secs X 9 (1856.315 Secs)	
								[==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[4]
8	G141 Science Data	(6) EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.14,90.0 Degrees, Forward	Sequence 7-8 Non-Int in EPIC2019_WFC3_2 (30)	103.128633 Secs (103.129 Secs)	
								[==>]	[4]
9	G141 Science Data	(6) EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.14,90.0 Degrees, Round trip	Sequence 9-10 Non-Int in EPIC2019_WFC3_2 (30)	103.128633 Secs X 9 (1856.315 Secs)	
								[==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[5]

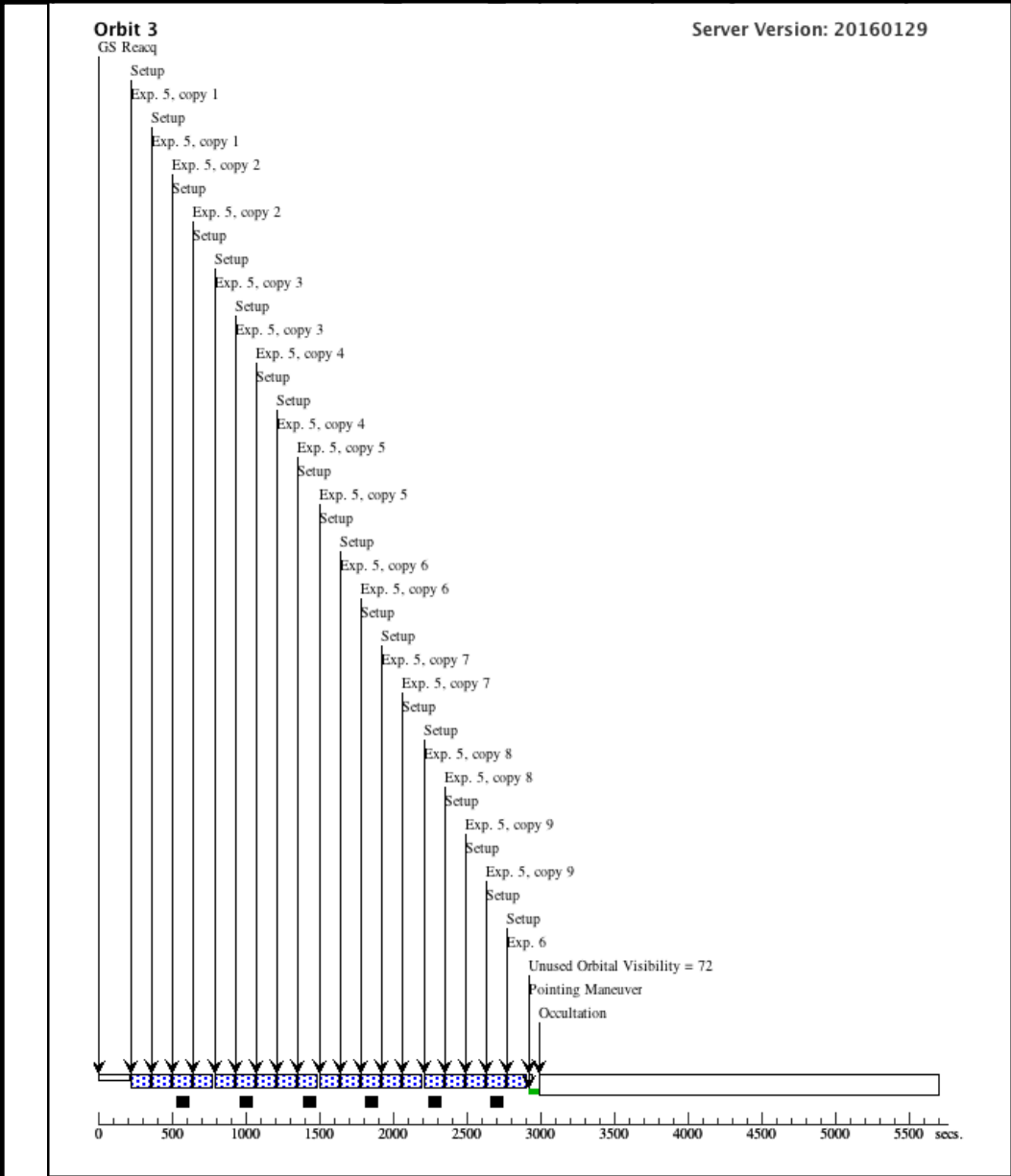
Proposal 13665 - EPIC2019 WFC3 2 (30) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

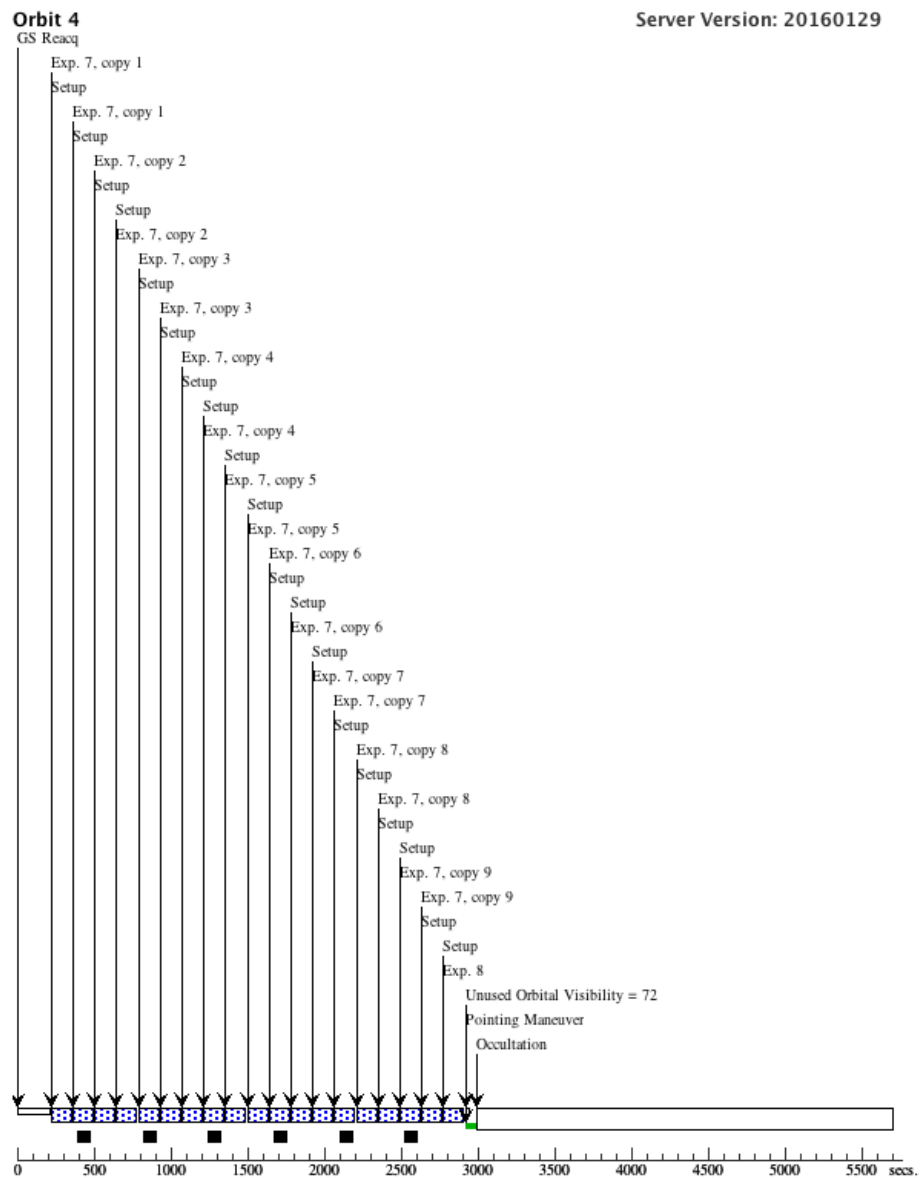
	10	G141 Science Data (6)	EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.14,90.0 Degrees,Forward	Sequence 9-10 Non-Int in EPIC2019_WFC3_2 (30)	103.128633 Secs (103.129 Secs) [==>]	

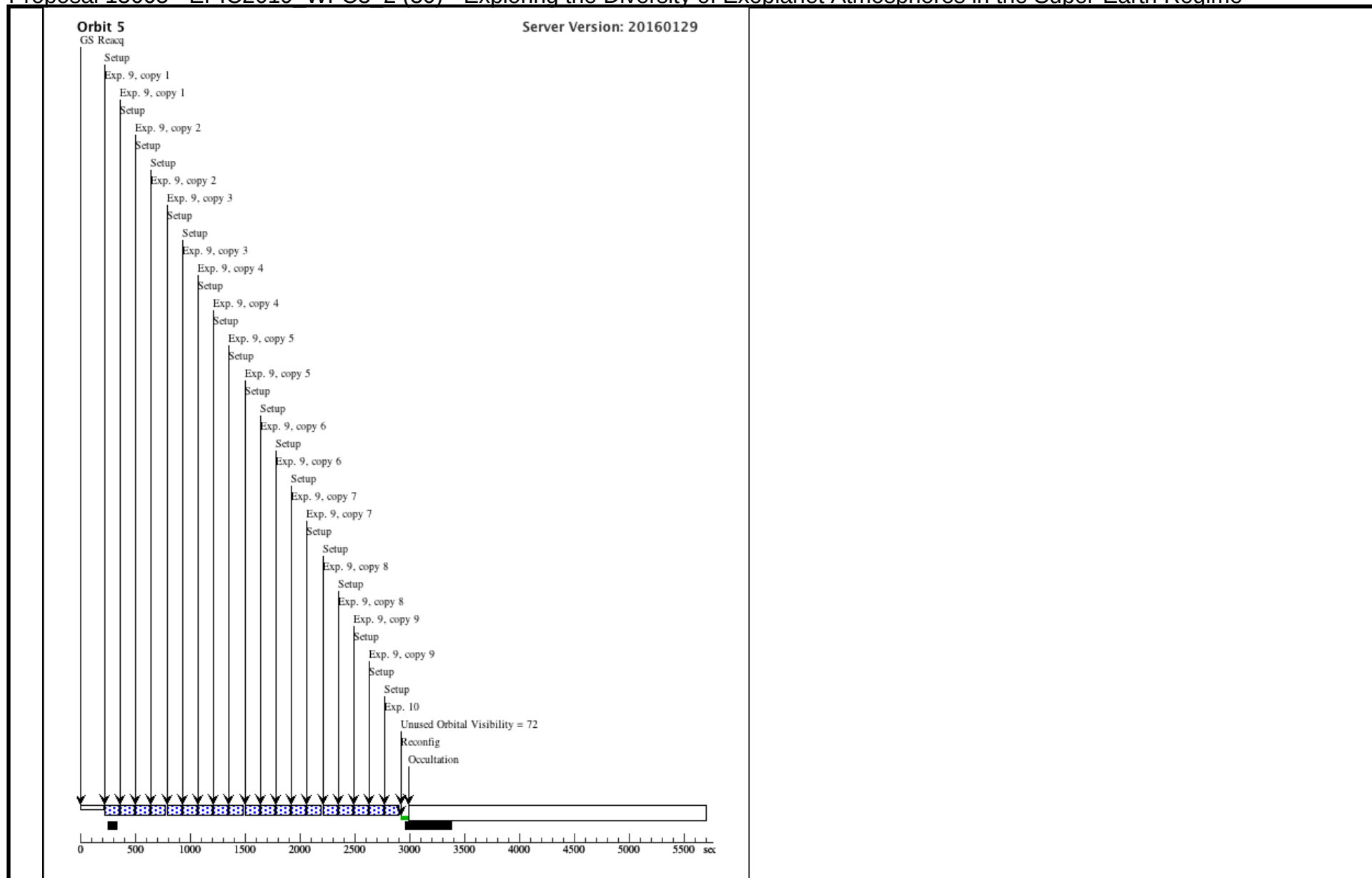
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Proposal 13665 - EPIC2019 WFC3 3 (35) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, EPIC2019_WFC3_3 (35), completed Sun Apr 10 01:17:26 GMT 2016				
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; Period 32.939700 D AND ZERO-PHASE HJD2457264.391819 <i>Comments: WFC3/G141 transit visits of EPIC2019 WFC3 1. It is essential for the orbits in each visit to be scheduled in a contiguous block.</i>				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(6)	EPIC201912552	RA: 11 30 14.5090 (172.5604542d) Dec: +07 35 18.21 (7.58839d) Equinox: J2000	Proper Motion RA: -89.8 mas/yr Proper Motion Dec: -136.7 mas/yr Epoch of Position: 2000	V=13.5+/-0.05 J = 9.76; H = 9.13
					Miscellaneous
					Reference Frame: ICRS

Proposal 13665 - EPIC2019 WFC3 3 (35) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ, phase constrained	(6) EPIC201912552	WFC3/IR, MULTIACCUM, IRSUB256	F130N	NSAMP=3; SAMP-SEQ=RAPID	PHASE 0.9936 TO 0.9953; GS ACQ SCENARIO BASE1B3	Sequence 1-2 Non-Int in EPIC2019_WFC3_3 (35)	0.833445 Secs (0.833 Secs) [==>]	[1]
	2	G141 Science Data	(6) EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.14,90.0 Degrees,Round trip	Sequence 1-2 Non-Int in EPIC2019_WFC3_3 (35)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[1]
	3	G141 Science Data	(6) EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.14,90.0 Degrees,Round trip	Sequence 3-4 Non-Int in EPIC2019_WFC3_3 (35)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[2]

Proposal 13665 - EPIC2019 WFC3 3 (35) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

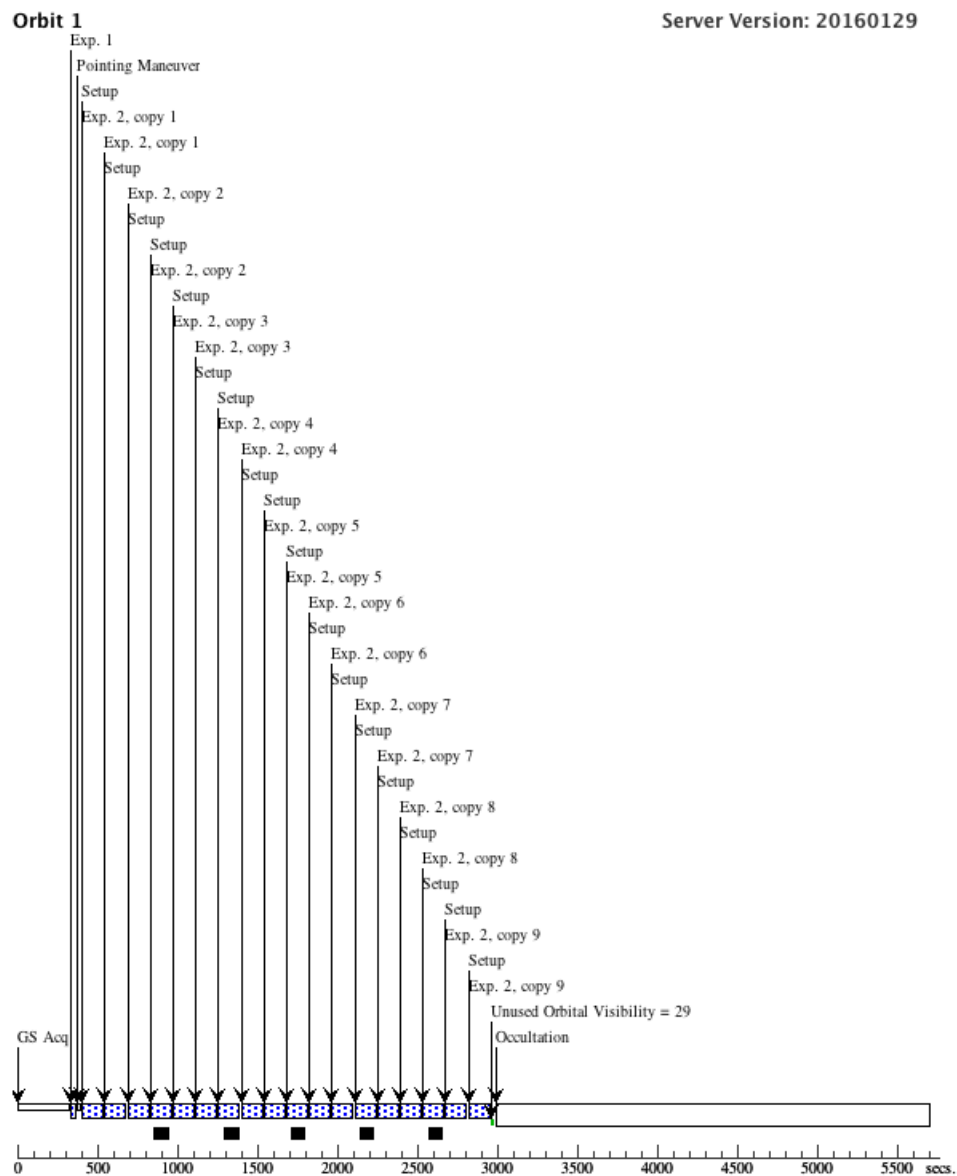
4	G141 Science Data	(6) EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.14,90.0 Degrees,Forward	Sequence 3-4 Non-Int in EPIC2019_WFC3_3 (35)	103.128633 Secs (103.129 Secs) [==>]	[2]
5	G141 Science Data	(6) EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.14,90.0 Degrees,Round trip	Sequence 5-6 Non-Int in EPIC2019_WFC3_3 (35)	103.128633 Secs X 9 (1856.315 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[3]
6	G141 Science Data	(6) EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.14,90.0 Degrees,Forward	Sequence 5-6 Non-Int in EPIC2019_WFC3_3 (35)	103.128633 Secs (103.129 Secs) [==>]	[3]

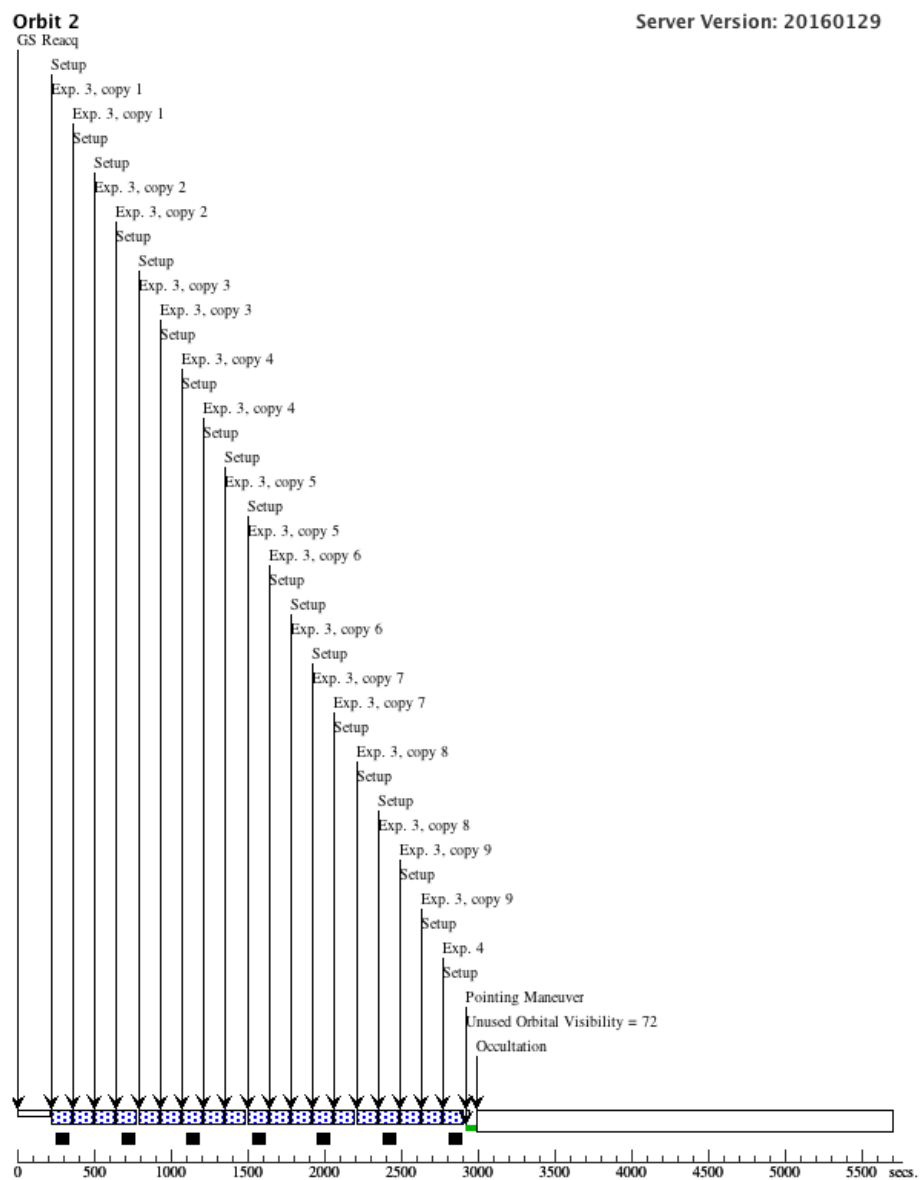
Proposal 13665 - EPIC2019 WFC3 3 (35) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

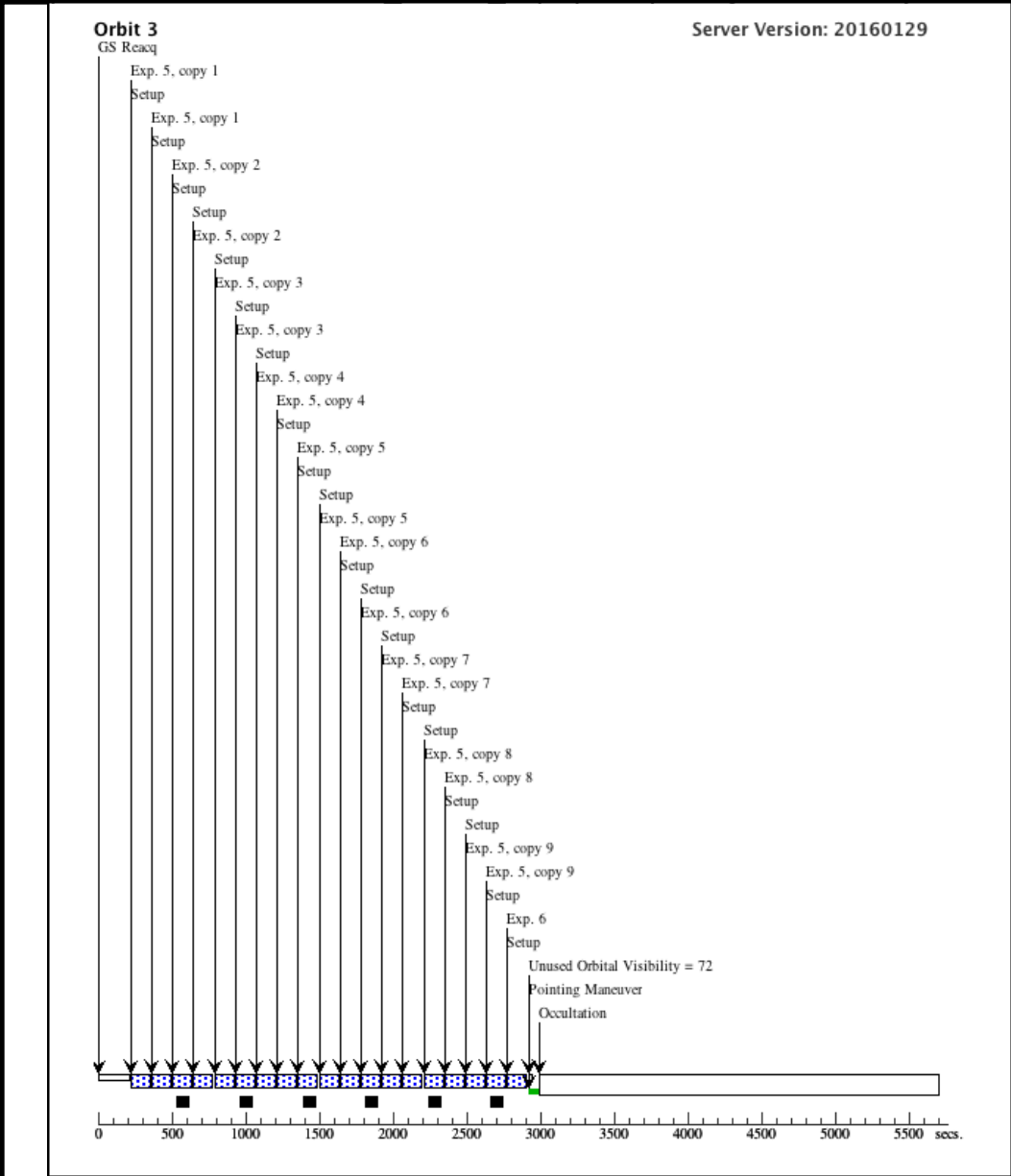
7	G141 Science Data	(6) EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.14,90.0 Degrees, Round trip	Sequence 7-8 Non-Int in EPIC2019_WFC3_3 (35)	103.128633 Secs X 9 (1856.315 Secs)	
								[==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[4]
8	G141 Science Data	(6) EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.14,90.0 Degrees, Forward	Sequence 7-8 Non-Int in EPIC2019_WFC3_3 (35)	103.128633 Secs (103.129 Secs)	
								[==>]	[4]
9	G141 Science Data	(6) EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.14,90.0 Degrees, Round trip	Sequence 9-10 Non-Int in EPIC2019_WFC3_3 (35)	103.128633 Secs X 9 (1856.315 Secs)	
								[==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)]	[5]

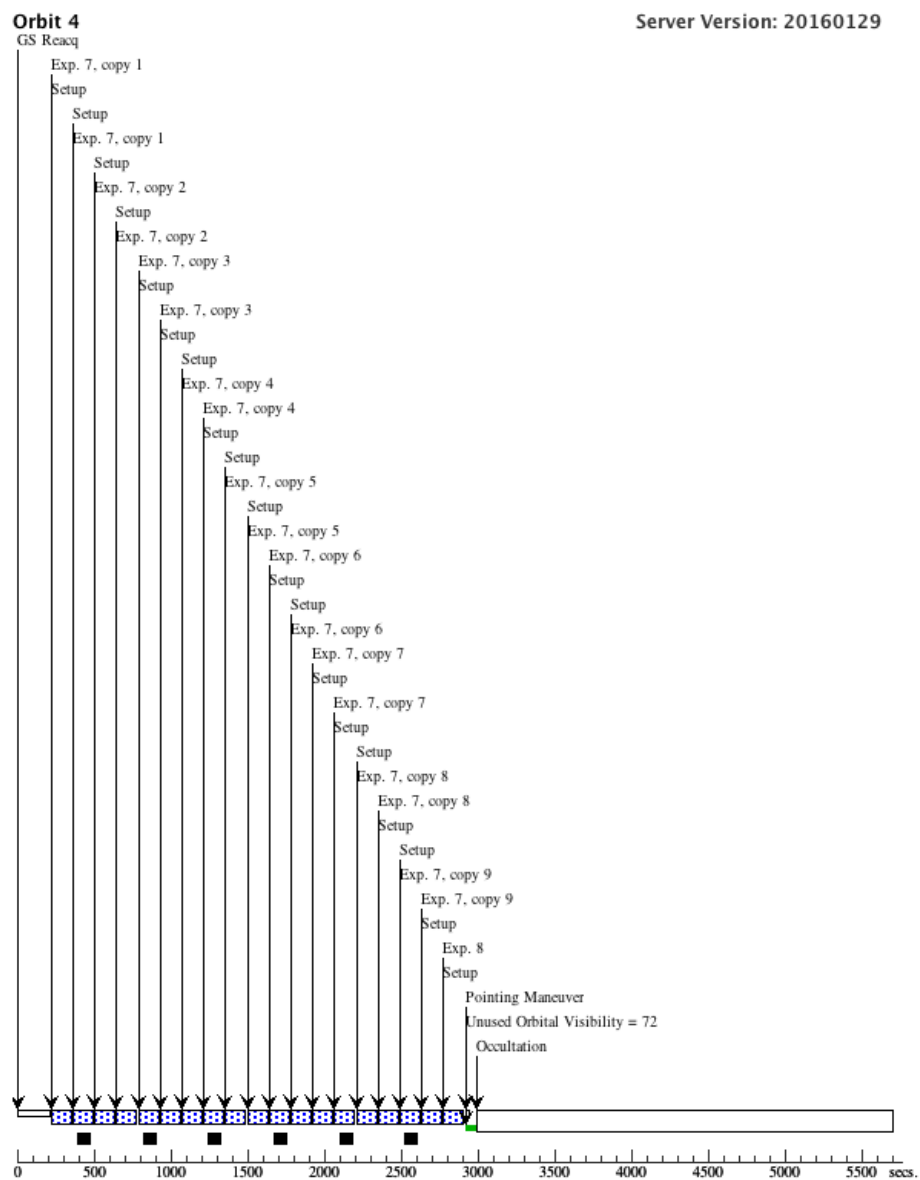
Proposal 13665 - EPIC2019 WFC3 3 (35) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

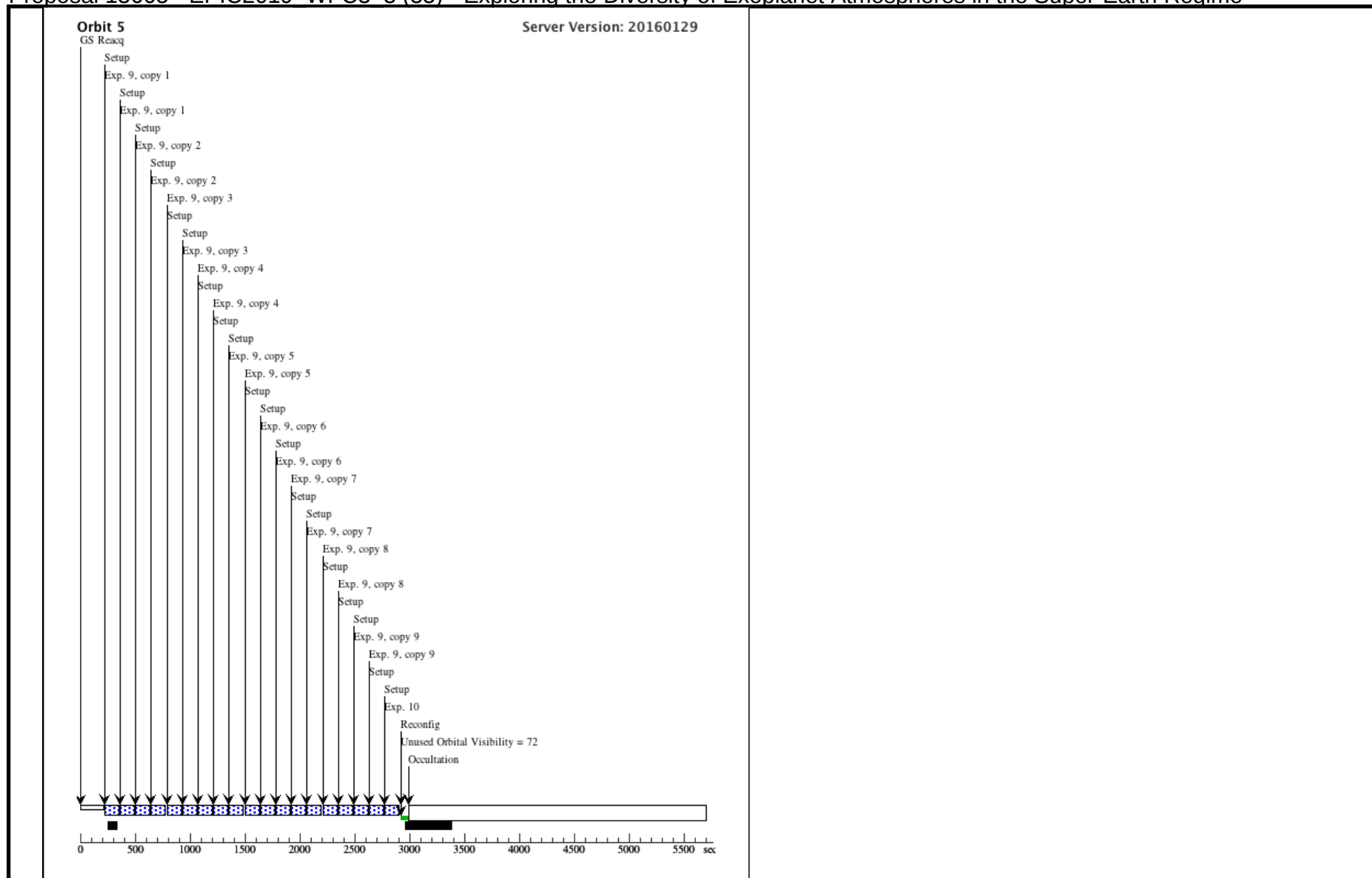
10	G141 Science Data (6)	EPIC201912552	WFC3/IR, MULTIACCUM, GRISM256	G141	SAMP-SEQ=SPARS 10; NSAMP=15	POS TARG 0,-8; SPATIAL SCAN 0.14,90.0 Degrees,Forward	Sequence 9-10 Non-Int in EPIC2019_WFC3_3 (35)	103.128633 Secs (103.129 Secs) [==>]	[5]
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Proposal 13665 - HD219134 STIS G750M 1 (34) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, HD219134_STIS_G750M_1 (34), completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; Period 3.0937 D AND ZERO-PHASE HJD2457126.7001 <i>Comments: It is essential for the four orbits in each visit to be scheduled in a contiguous block.</i> <i>We disable auto-wavecal, which improves our observing efficiency and repeatability. We opt for only a single GO-wavecal (at the end of each visit) because the GO-wavecal requires a different aperture (52x0.2 instead of the 52x2 used for science observations). To minimize disruption to the observatory, we therefore defer the GO wavecal until the end of each visit. This strategy has been successfully employed in past programs, e.g. 12473 (PI Sing).</i>					Sun Apr 10 01:17:26 GMT 2016
	# Name Target Coordinates Targ. Coord. Corrections Fluxes Miscellaneous (8) HD-219134 RA: 23 13 16.9763 (348.3207346d) Proper Motion RA: 2075.07 mas/yr V=5.57 Reference Frame: ICRS Dec: +57 10 6.08 (57.16836d) Proper Motion Dec: 295.45 mas/yr U=7.46, Equinox: J2000 Epoch of Position: 2000 B=6.56, R=4.76, J=3.86, H=3.40, K=3.25 <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Refined by Benneke.</i>					

Proposal 13665 - HD219134 STIS G750M 1 (34) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ, Phase Constrained (748585)	(8) HD-219134	STIS/CCD, ACQ, F28X50OII	MIRROR		PHASE 0.9489 TO 0.9537; GS ACQ SCENARI O BASE1B3	Sequence 1-2 Non-Int in HD219134_STIS_G750M_1 (34)	0.5 Secs (0.5 Secs) [==>]	[1]
	2	Science	(8) HD-219134	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=320; WAVECAL=NO		Sequence 1-2 Non-Int in HD219134_STIS_G750M_1 (34)	60 Secs X 25 (1500 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)]	[1]

Proposal 13665 - HD219134 STIS G750M 1 (34) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

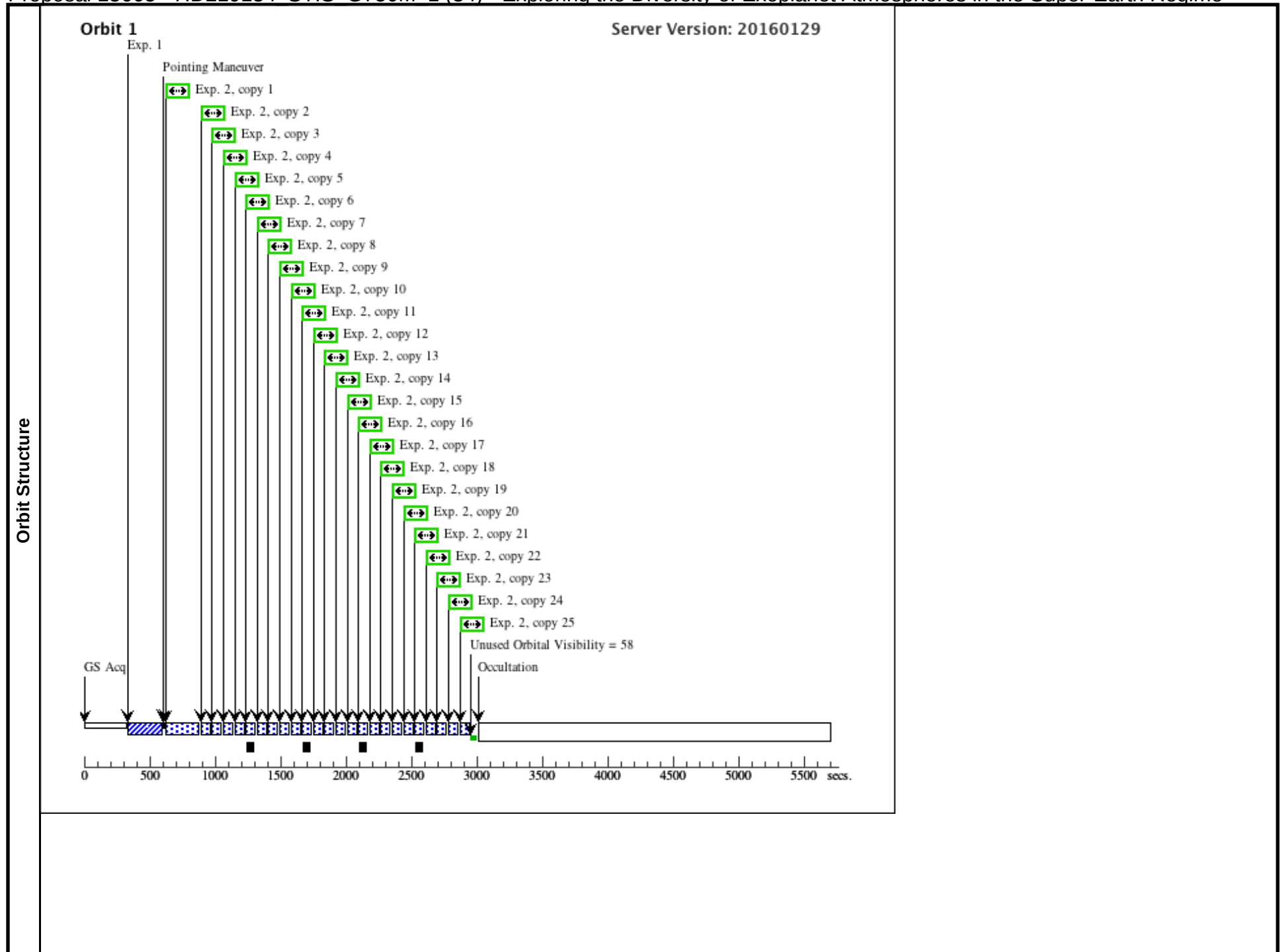
3	Science	(8) HD-219134	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=320; WAVECAL=NO	Sequence 3-3 Non-Int in HD219134_STIS _G750M_1 (34)	60 Secs X 32 (1920 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)]	[2]

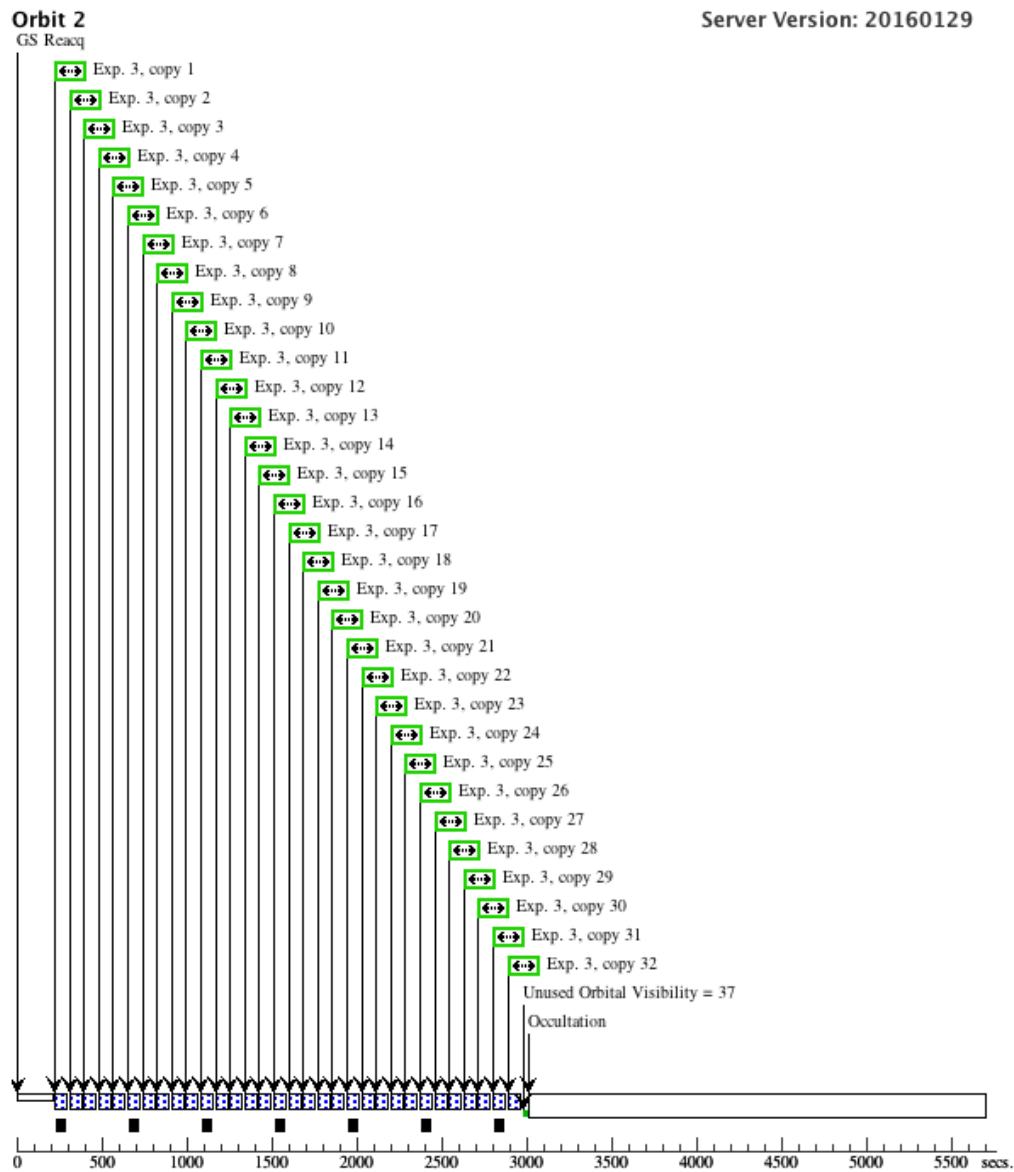
Proposal 13665 - HD219134 STIS G750M 1 (34) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

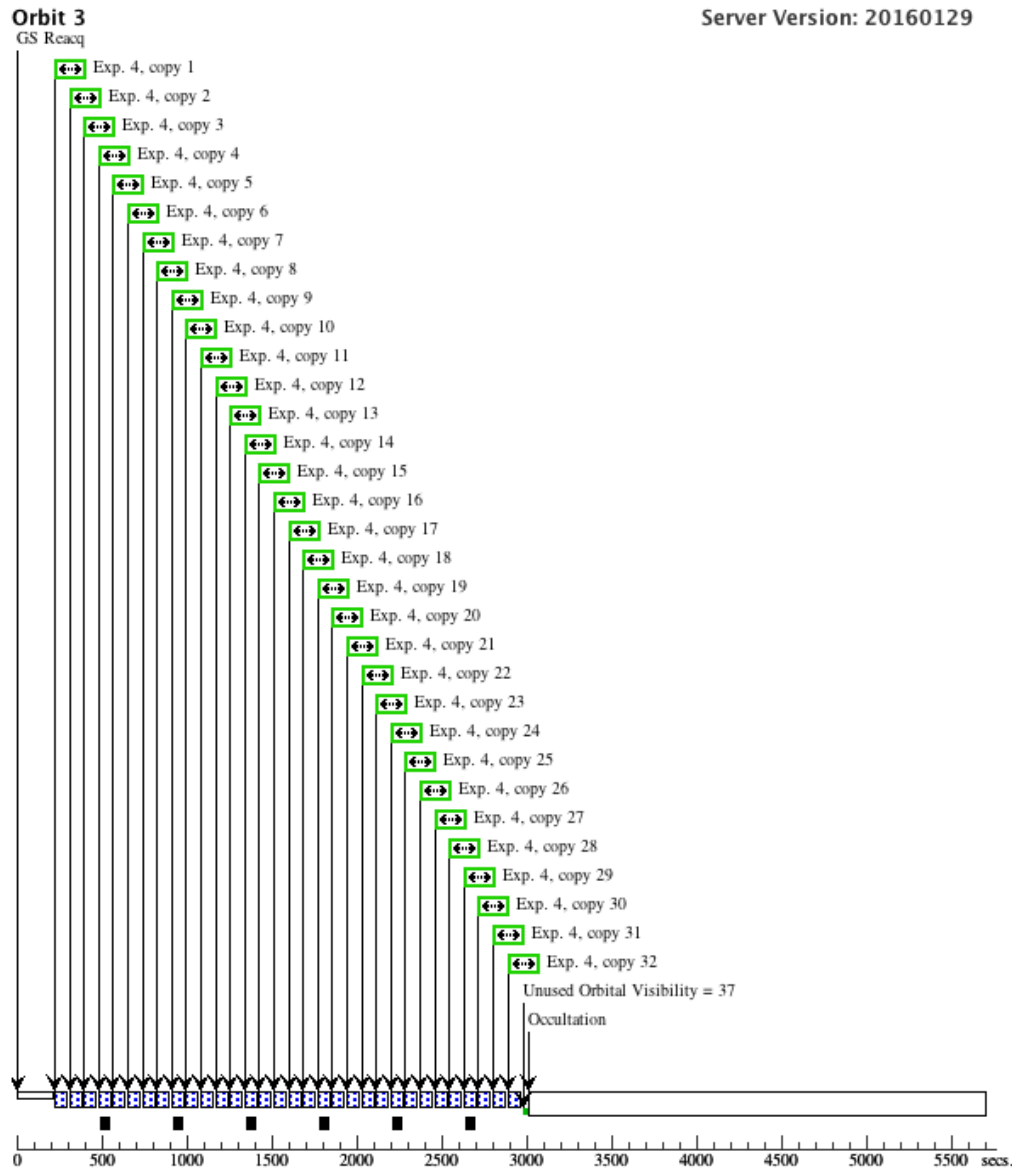
4	Science	(8) HD-219134	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=320; WAVECAL=NO	Sequence 4-4 Non-Int in HD219134_STIS _G750M_1 (34)	60 Secs X 32 (1920 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)]	[3]

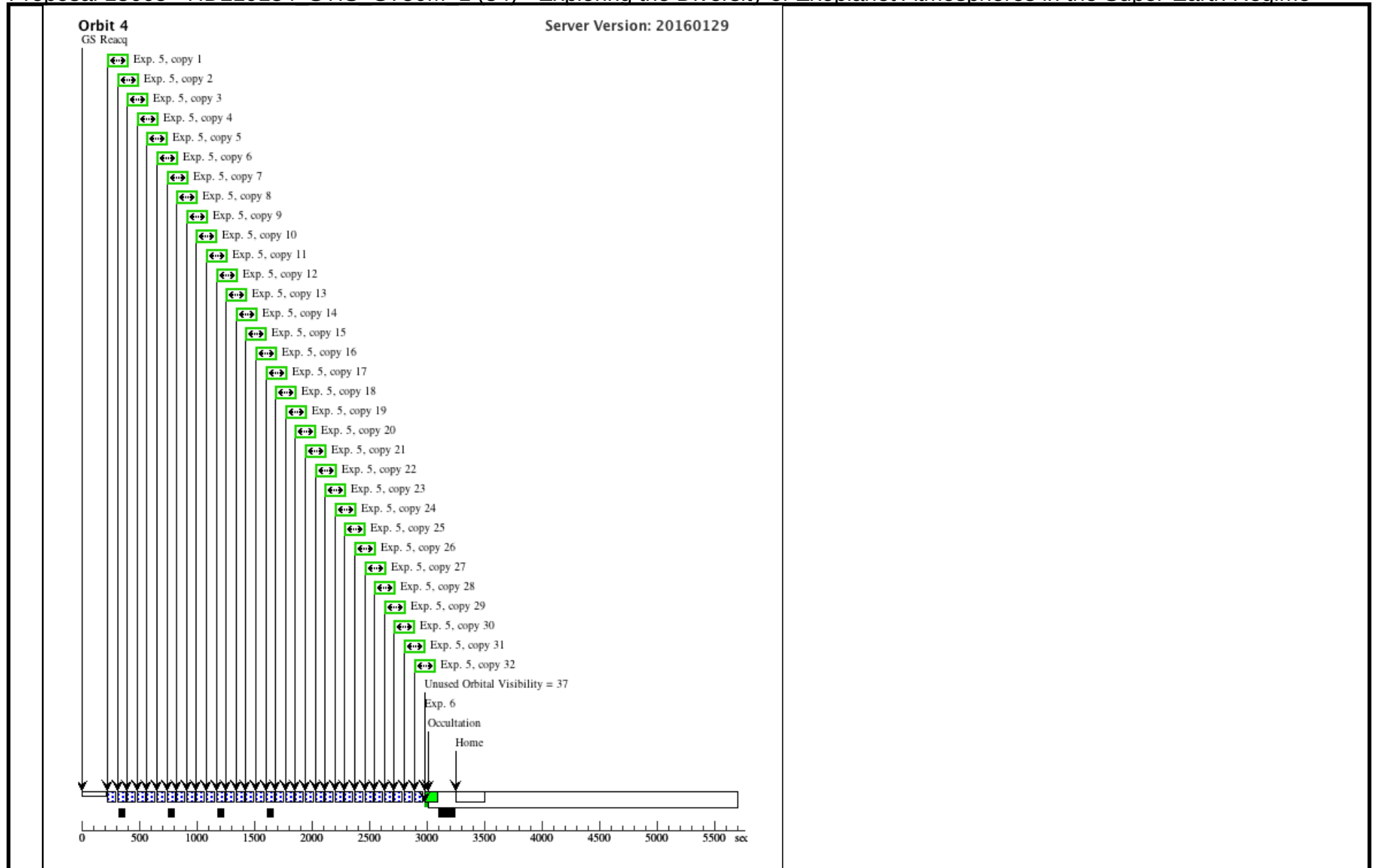
Proposal 13665 - HD219134 STIS G750M 1 (34) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

5	Science	(8) HD-219134	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=320; WAVECAL=NO	Sequence 5-6 Non-Int in HD219134_STIS_G750M_1 (34)	60 Secs X 32 (1920 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)]	[4]
6	GO-WAVE WAVE CAL		STIS/CCD, ACCUM, 52X0.2	G750M 6094 A		Sequence 5-6 Non-Int in HD219134_STIS_G750M_1 (34)	[==>]	[4]
Comments: Explicit WAVECAL, auto-waves disabled								









Proposal 13665 - HD219134 STIS G750M 2 (36) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, HD219134_STIS_G750M_2 (36), completed Sun Apr 10 01:17:26 GMT 2016				
	Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; Period 3.0946113 D AND ZERO-PHASE HJD2457126.7001000 <i>Comments: It is essential for the four orbits in each visit to be scheduled in a contiguous block.</i>				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(8)	HD-219134	RA: 23 13 16.9763 (348.3207346d) Dec: +57 10 6.08 (57.16836d) Equinox: J2000	Proper Motion RA: 2075.07 mas/yr Proper Motion Dec: 295.45 mas/yr Epoch of Position: 2000	V=5.57 U=7.46, B=6.56, R=4.76, J=3.86, H=3.40, K=3.25
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Refined by Benneke.</i>					

Proposal 13665 - HD219134 STIS G750M 2 (36) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	ACQ, Phase Constrained (748585)	(8) HD-219134	STIS/CCD, ACQ, F28X50OII	MIRROR		PHASE 0.9489 TO 0.9537; GS ACQ SCENARI O BASE1B3	Sequence 1-2 Non-Int in HD219134_STIS_G750M_2 (36)	0.5 Secs (0.5 Secs) [==>]	[1]
	2	Science	(8) HD-219134	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=320; WAVECAL=NO		Sequence 1-2 Non-Int in HD219134_STIS_G750M_2 (36)	60 Secs X 25 (1500 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)]	[1]

Proposal 13665 - HD219134 STIS G750M 2 (36) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

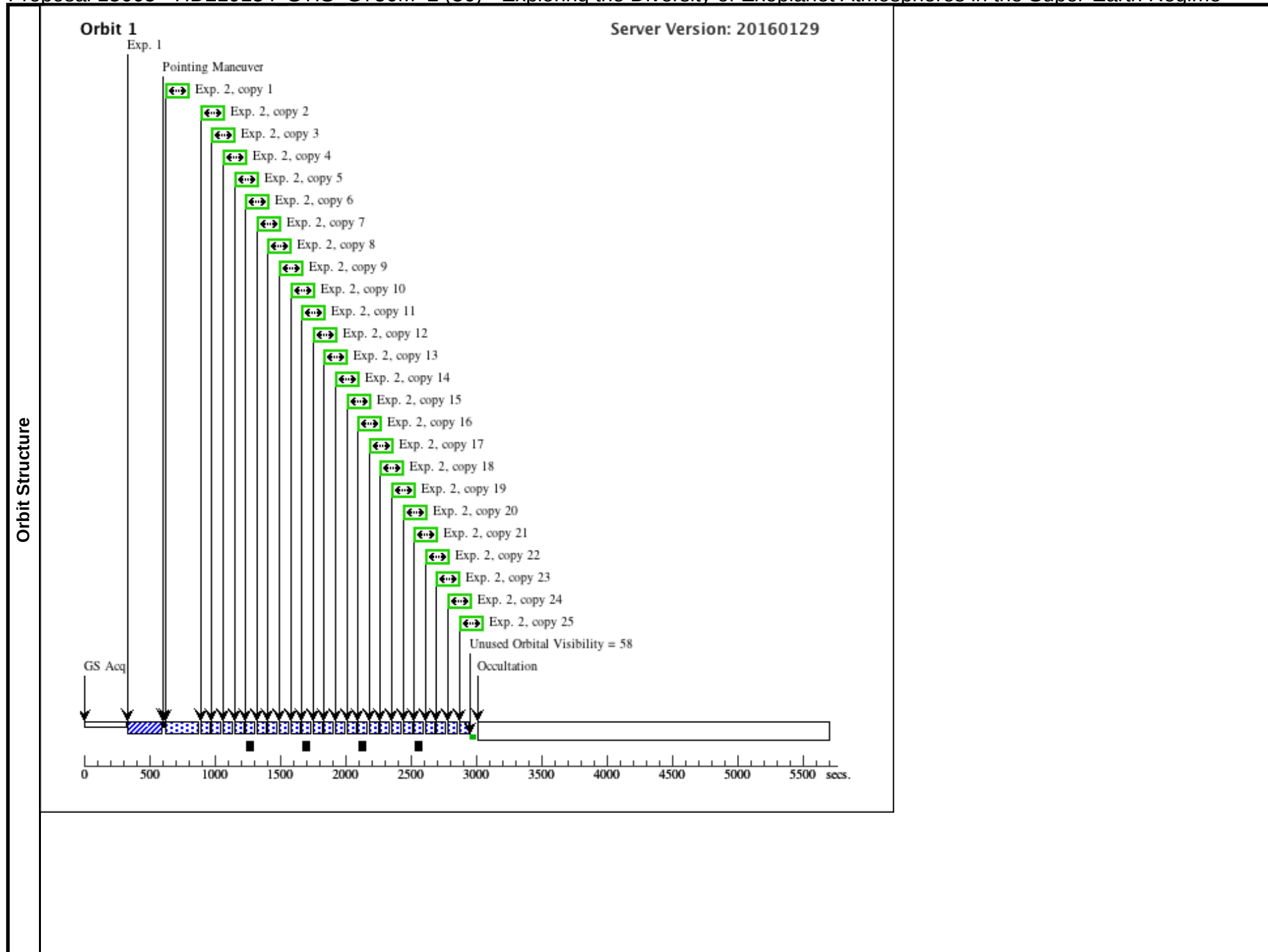
3	Science	(8) HD-219134	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=320; WAVECAL=NO	Sequence 3-3 Non-Int in HD219134_STIS _G750M_2 (36)	60 Secs X 32 (1920 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)]	[2]

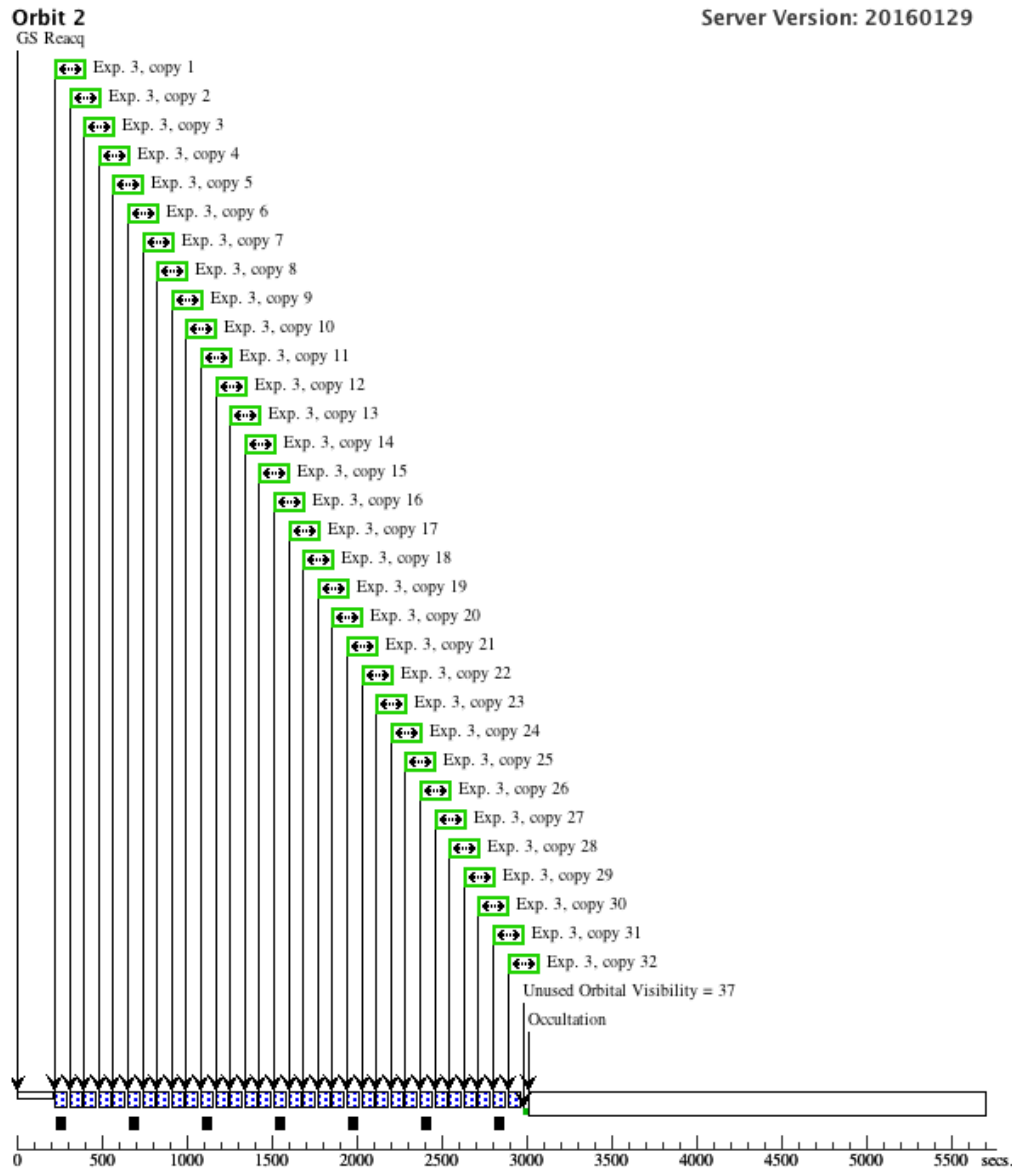
Proposal 13665 - HD219134 STIS G750M 2 (36) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

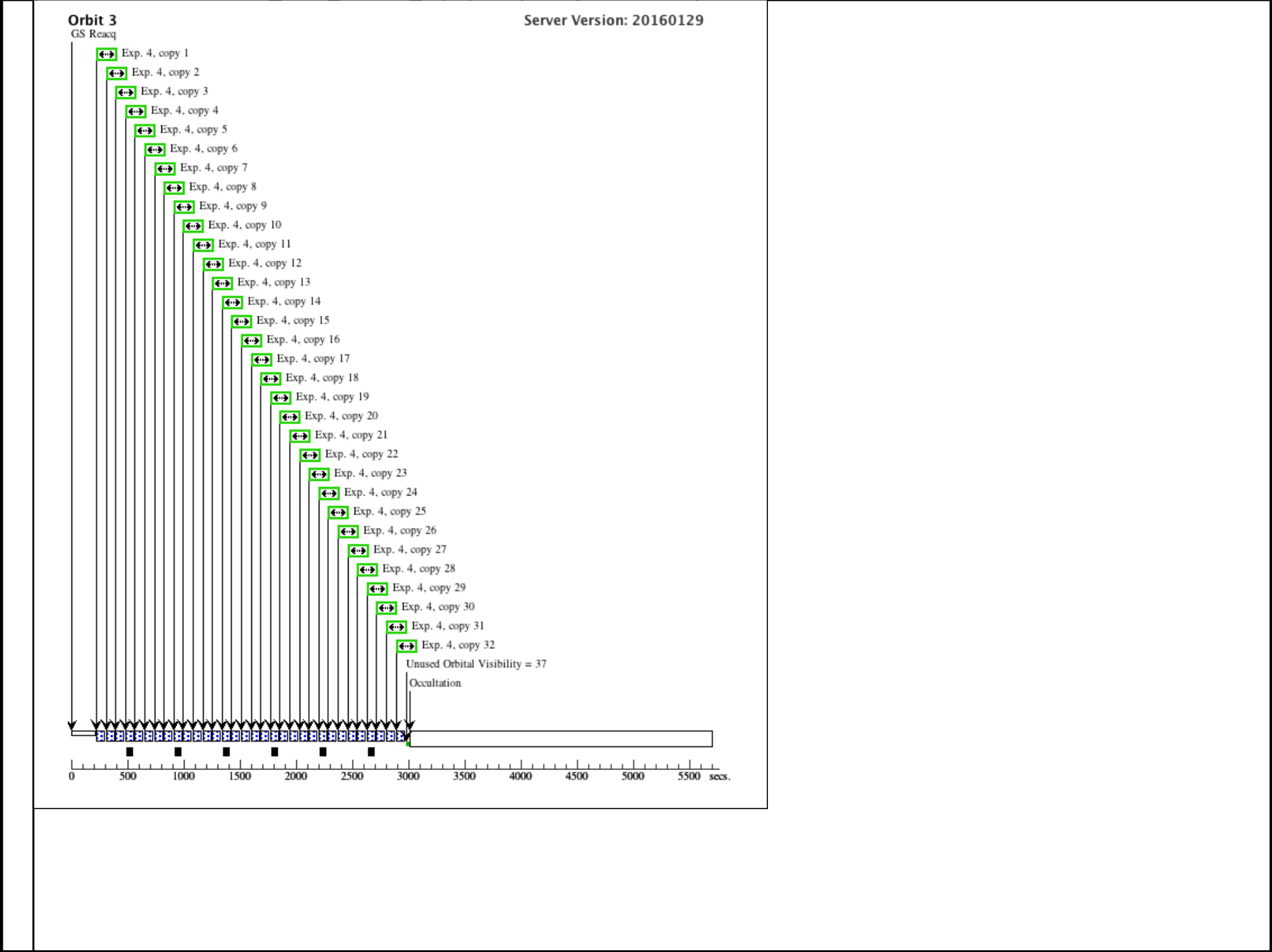
4	Science	(8) HD-219134	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=320; WAVECAL=NO	Sequence 4-4 Non-Int in HD219134_STIS _G750M_2 (36)	60 Secs X 32 (1920 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)]	[3]

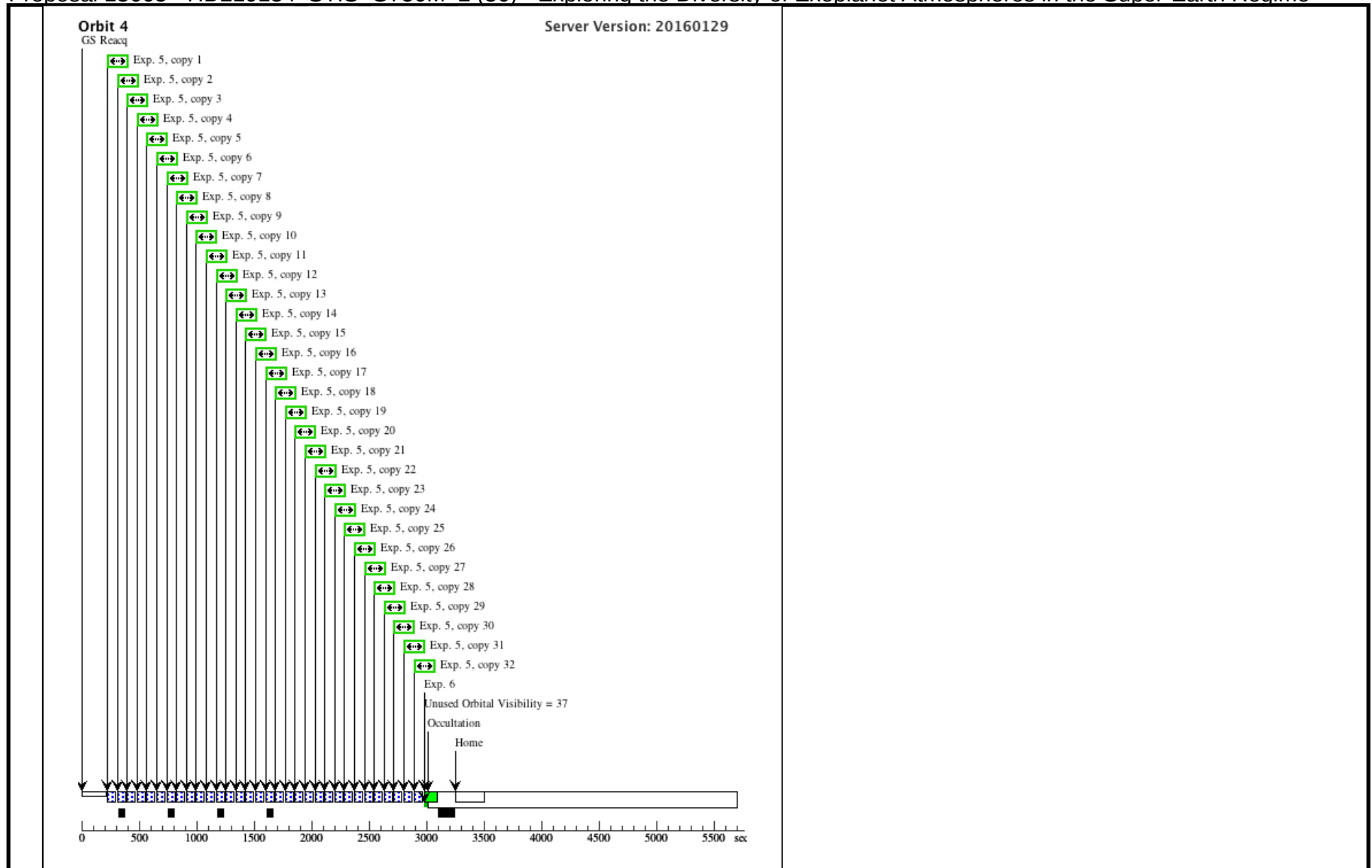
Proposal 13665 - HD219134 STIS G750M 2 (36) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

5	Science	(8) HD-219134	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=320; WAVECAL=NO	Sequence 5-6 Non-Int in HD219134_STIS_G750M_2 (36)	60 Secs X 32 (1920 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)]	[4]
6	GO-WAVE WAVE CAL		STIS/CCD, ACCUM, 52X0.2	G750M 6094 A		Sequence 5-6 Non-Int in HD219134_STIS_G750M_2 (36)	[==>]	[4]
Comments: Explicit WAVECAL, auto-waves disabled								









Proposal 13665 - HD219134 STIS G750M 3a (37) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, HD219134_STIS_G750M_3a (37) Sun Apr 10 01:17:26 GMT 2016				
	Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; Period 3.092926 D AND ZERO-PHASE HJD2457463.82884 <i>Comments: It is essential for the four orbits in each visit to be scheduled in a contiguous block.</i>				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(8)	HD-219134	RA: 23 13 16.9763 (348.3207346d) Dec: +57 10 6.08 (57.16836d) Equinox: J2000	Proper Motion RA: 2075.07 mas/yr Proper Motion Dec: 295.45 mas/yr Epoch of Position: 2000	V=5.57 U=7.46, B=6.56, R=4.76, J=3.86, H=3.40, K=3.25
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Refined by Benneke.</i>					

Proposal 13665 - HD219134 STIS G750M 3a (37) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	ACQ, Phase Constrained (748585)	(8) HD-219134	STIS/CCD, ACQ, F28X50OII	MIRROR		PHASE 0.9489 TO 0.9537; GS ACQ SCENARI O BASE1B3	Sequence 1-2 Non-Int in HD219134_STIS_G750M_3a (37)	0.5 Secs (0.5 Secs) [==>]	[1]
	2	Science	(8) HD-219134	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=320; WAVECAL=NO		Sequence 1-2 Non-Int in HD219134_STIS_G750M_3a (37)	60 Secs X 25 (1500 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)]	[1]

Proposal 13665 - HD219134 STIS G750M 3a (37) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

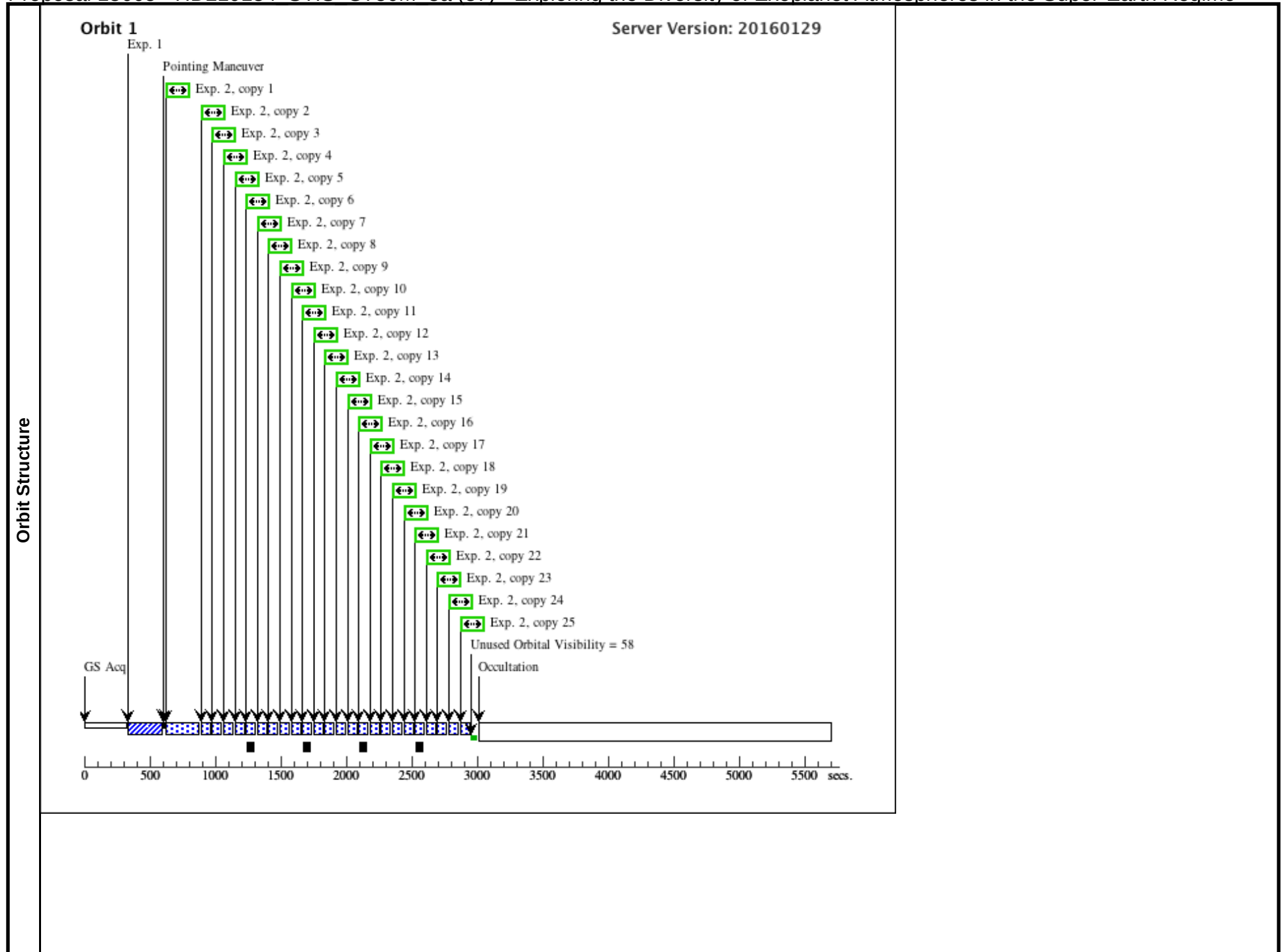
3	Science	(8) HD-219134	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=320; WAVECAL=NO	Sequence 3-3 Non-Int in HD219134_STIS _G750M_3a (37)	60 Secs X 32 (1920 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)]	[2]

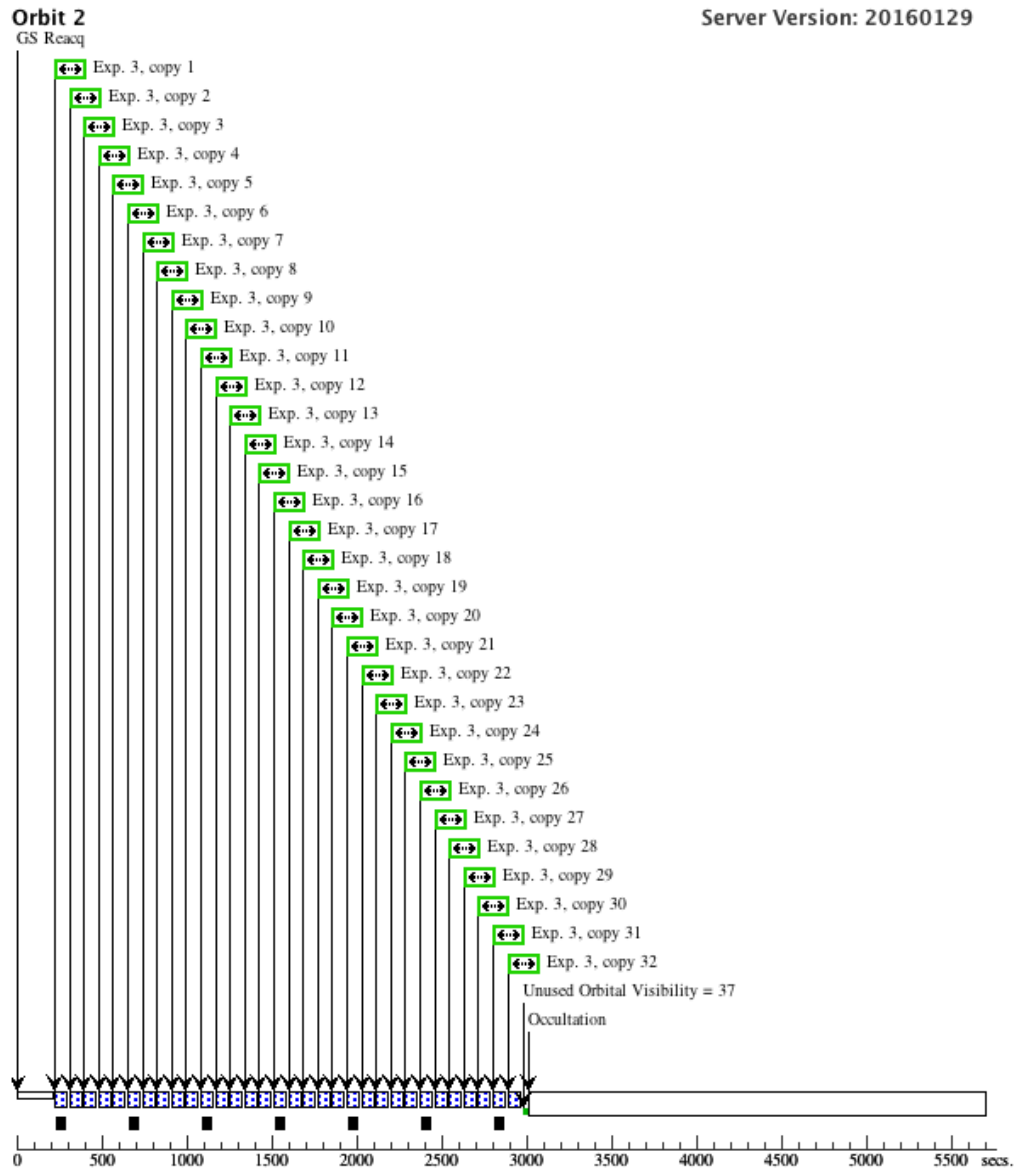
Proposal 13665 - HD219134 STIS G750M 3a (37) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

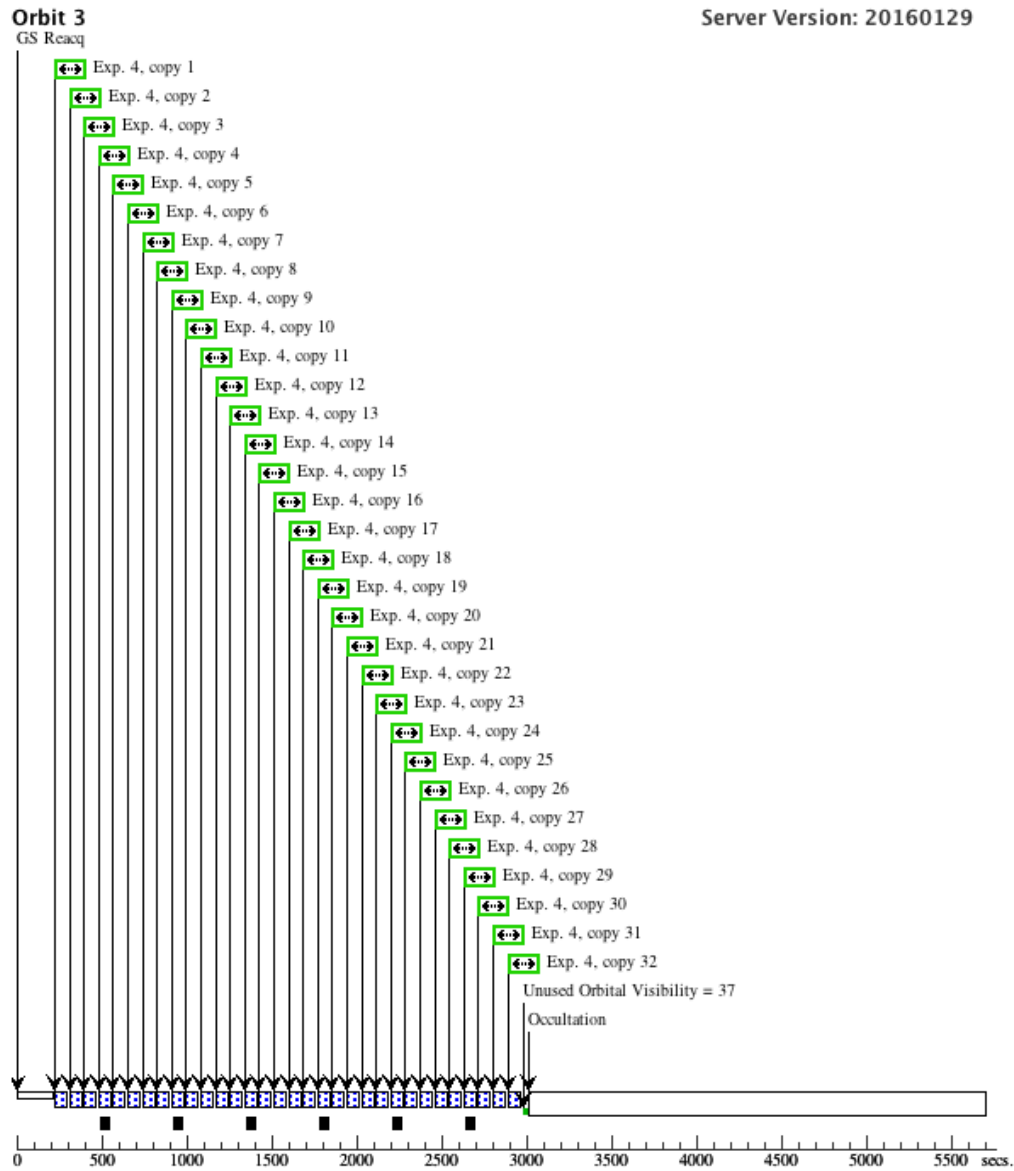
4	Science	(8) HD-219134	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=320; WAVECAL=NO	Sequence 4-4 Non-Int in HD219134_STIS _G750M_3a (37)	60 Secs X 32 (1920 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)]	[3]

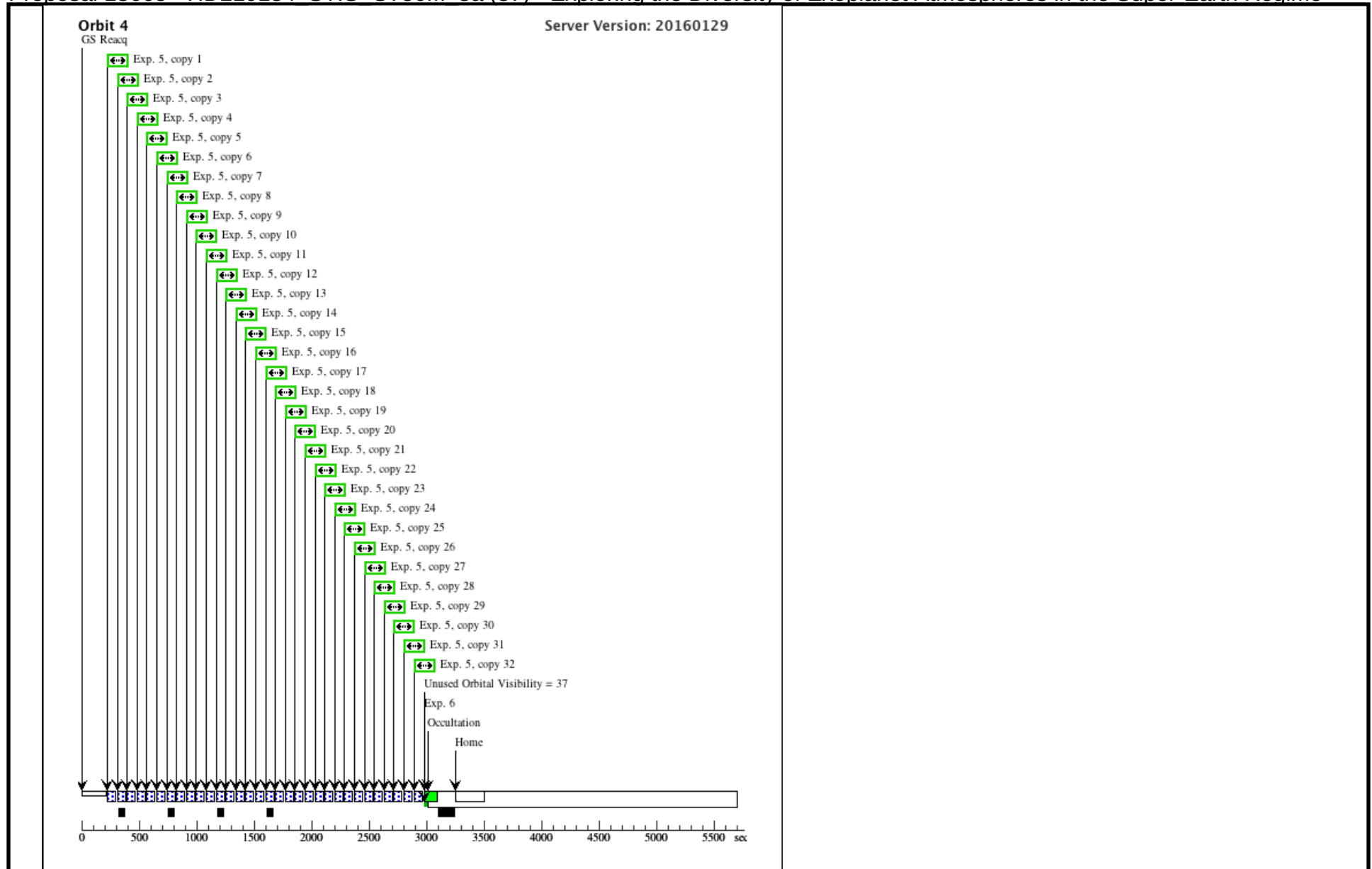
Proposal 13665 - HD219134 STIS G750M 3a (37) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

5	Science	(8) HD-219134	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=320; WAVECAL=NO	Sequence 5-6 Non-Int in HD219134_STIS_G750M_3a (37)	60 Secs X 32 (1920 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)]	[4]
6	GO-WAVE WAVE CAL		STIS/CCD, ACCUM, 52X0.2	G750M 6094 A		Sequence 5-6 Non-Int in HD219134_STIS_G750M_3a (37)	[==>]	[4]
Comments: Explicit WAVECAL, auto-waves disabled								









Proposal 13665 - HD219134 STIS G750M 3b (38) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

Visit	Proposal 13665, HD219134_STIS_G750M_3b (38) Sun Apr 10 01:17:26 GMT 2016				
	Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; Period 3.092926 D AND ZERO-PHASE HJD2457463.82884 <i>Comments: It is essential for the four orbits in each visit to be scheduled in a contiguous block.</i>				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(8)	HD-219134	RA: 23 13 16.9763 (348.3207346d) Dec: +57 10 6.08 (57.16836d) Equinox: J2000	Proper Motion RA: 2075.07 mas/yr Proper Motion Dec: 295.45 mas/yr Epoch of Position: 2000	V=5.57 U=7.46, B=6.56, R=4.76, J=3.86, H=3.40, K=3.25
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Refined by Benneke.</i>					

Proposal 13665 - HD219134 STIS G750M 3b (38) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	ACQ, Phase Constrained (748585)	(8) HD-219134	STIS/CCD, ACQ, F28X50OII	MIRROR		PHASE 0.92703 TO 0.93242; GS ACQ SCENARI O BASE1B3	Sequence 1-2 Non-In t in HD219134_STIS _G750M_3b (38)	0.5 Secs (0.5 Secs) [==>]	[1]
	2	Science	(8) HD-219134	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=320; WAVECAL=NO		Sequence 1-2 Non-In t in HD219134_STIS _G750M_3b (38)	60 Secs X 25 (1500 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)]	[1]

Proposal 13665 - HD219134 STIS G750M 3b (38) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

3	Science	(8) HD-219134	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=320; WAVECAL=NO	Sequence 3-3 Non-Int in HD219134_STIS _G750M_3b (38)	60 Secs X 32 (1920 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)]	[2]

Proposal 13665 - HD219134 STIS G750M 3b (38) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

4	Science	(8) HD-219134	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=320; WAVECAL=NO	Sequence 4-4 Non-Int in HD219134_STIS _G750M_3b (38)	60 Secs X 32 (1920 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)]	[3]

Proposal 13665 - HD219134 STIS G750M 3b (38) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

5	Science	(8) HD-219134	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=320; WAVECAL=NO	Sequence 5-5 Non-Int in HD219134_STIS _G750M_3b (38)	60 Secs X 32 (1920 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)]	[4]

Proposal 13665 - HD219134 STIS G750M 3b (38) - Exploring the Diversity of Exoplanet Atmospheres in the Super-Earth Regime

6	Science	(8) HD-219134	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=320; WAVECAL=NO	Sequence 6-7 Non-Int in HD219134_STIS_G750M_3b (38)	60 Secs X 32 (1920 Secs)	
							[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)]	[5]
7	GO-WAVE WAVE CAL		STIS/CCD, ACCUM, 52X0.2	G750M 6094 A		Sequence 6-7 Non-Int in HD219134_STIS_G750M_3b (38)	[==>]	[5]
Comments: Explicit WAVECAL, auto-waves disabled								

