



## 12511 - Determining the Atmospheric Properties of Directly Imaged Planets

Cycle: 19, Proposal Category: GO

(Availability Mode: SUPPORTED)

### 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	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:23:58.0	yes
0A	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:24:18.0	yes
02	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:24:35.0	yes
0B	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:24:51.0	yes
03	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:25:12.0	yes
0C	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:25:28.0	yes
11	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:25:44.0	yes
1A	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:26:00.0	yes
12	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:26:15.0	yes

Proposal 12511 (STScI Edit Number: 14, Created: Tuesday, October 9, 2012 8:31:55 PM EST) - Overview

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
1B	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:26:31.0	yes
13	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:26:46.0	yes
1C	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:27:04.0	yes
21	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:27:21.0	yes
2A	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:27:36.0	yes
22	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:27:51.0	yes
2B	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:28:06.0	yes
23	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:28:23.0	yes
2C	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:28:38.0	yes
31	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:28:53.0	yes
3A	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:29:08.0	yes
32	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:29:23.0	yes
3B	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:29:38.0	yes
33	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:29:57.0	yes
3C	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:30:12.0	yes
41	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:30:27.0	yes
4A	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:30:42.0	yes
42	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:30:57.0	yes
4B	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:31:13.0	yes
43	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:31:30.0	yes
4C	(1) V-V342-PEG	WFC3/IR	1	09-Oct-2012 21:31:45.0	yes

30 Total Orbits Used

**ABSTRACT**

For the first time, a multi-planet system has been directly imaged. The young star HR 8799 is home to four massive planets (5 to 10 Jupiter-masses) that have all been imaged from the ground, confirmed as proper motion companions, and orbital motion is clearly detected. This system offers a

unique opportunity to study planetary atmospheres in detail for a coeval set of objects that also likely have very similar abundances. Despite ground based detections at J, H, K, L, and M-band, there remain significant degeneracies when fitting synthetic spectra to this limited data set. We, therefore, are requesting WFC3 medium band photometric observations from 0.8 to 1.6 microns to better characterize these planets. These proposed data will allow us to distinguish between various atmospheric cloud models and allow robust effective temperature and surface gravity determinations to be made.

### **OBSERVING DESCRIPTION**

We will observe the HR 8799 quadruple planetary system with three medium filters (F098M, F127M, and F139M) at two roll angles over 15 orbits. Our primary goal is to measure the fluxes from these planets in all three filters. For each image, the "locally optimized combination of images" (LOCI) algorithm will be used to find an optimal linear combination of the other PSFs to minimize final noise residuals (Lafreniere et al. 2007). The algorithm automatically selects the template PSFs for which conditions were most similar, substantially improving sensitivity over classic 2-roll PSF subtraction. Building the template PSFs requires a library of images -- our program is designed to build that library and maximize the final SNR for each planet.

We have split our allocated 15 orbits into 5 groups of 3 orbits each, these groups are separated from each other by a 15 deg roll angle to ensure unique orientations for each orbit. The groups are all identical in observing specifications. Each orbit within the 3 orbit grouping has a specified roll angle separation of 5 - 15 deg.

Each orbit is split in two visits (2 half-orbits) each oriented from the other with 5 - 15 deg roll angles. The visits consist of 9 small sub-pixel dithers per filter. Each exposure will be a 256K RAPID (NSAMP=8), with an exposure time of 2.2 sec. With this plan we will obtain a total of 270 reference PSFs, per filter.

### **ADDITIONAL COMMENTS**

For the success of our proposal we require the inner 0".5 - 0".6 of the PSF saturate and have designed our exposures to ensure this. However given the poor quality of TINTYTIM PSFs we are uncertain about how precise our observations might be, and we would like to request an orbit to test the exposure time calculations.

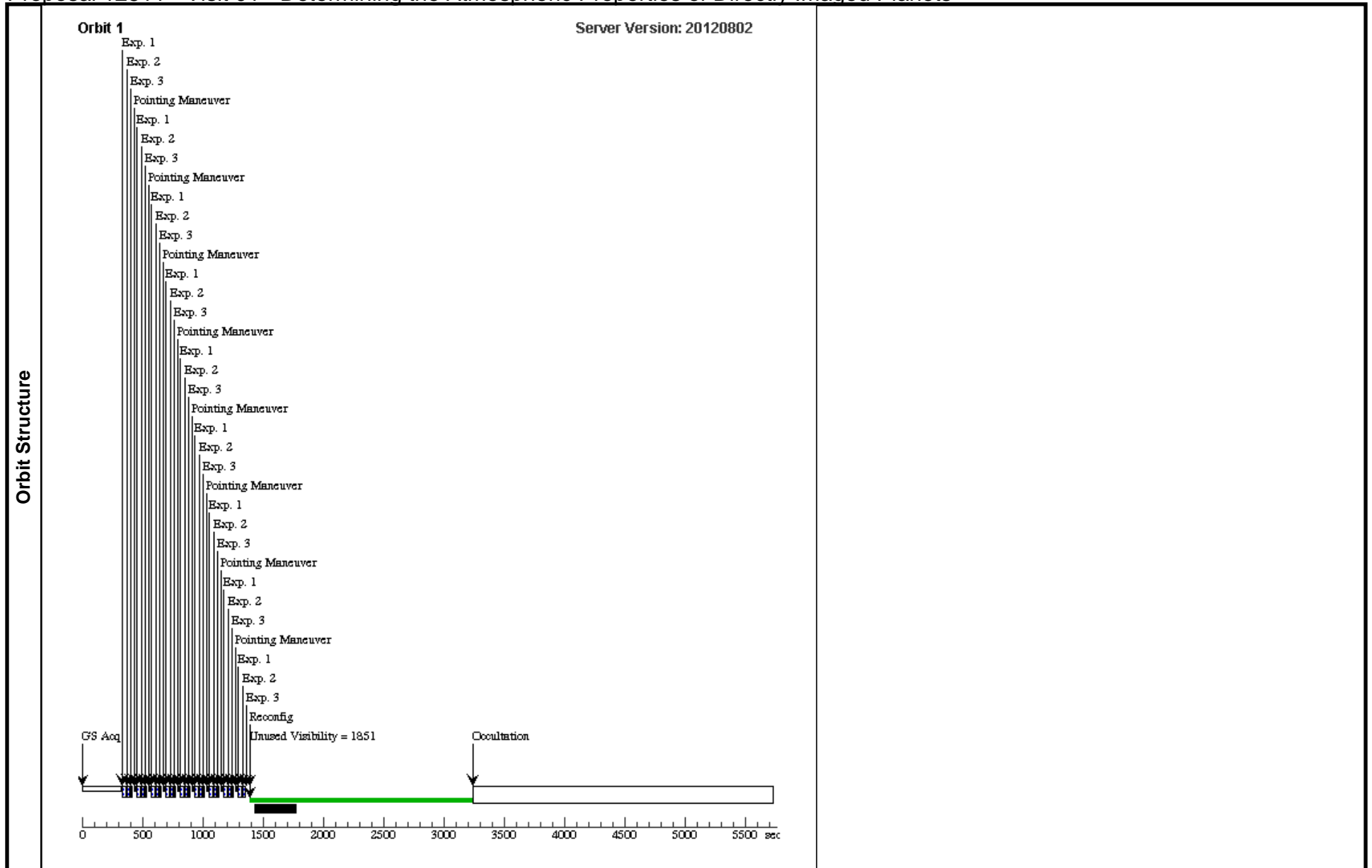
Proposal 12511 - Visit 01 - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:31:56 GMT 2012

<b>Visit</b>	<b>Proposal 12511, Visit 01, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 243.0D TO 243.0 D; GROUP 01,02,03,0A,0B,0C WITHIN 3 Orbits <i>Comments: First half of orbit</i>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 01 - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 01 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 01 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 01 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



Proposal 12511 - Visit 0A - Determining the Atmospheric Properties of Directly Imaged Planets

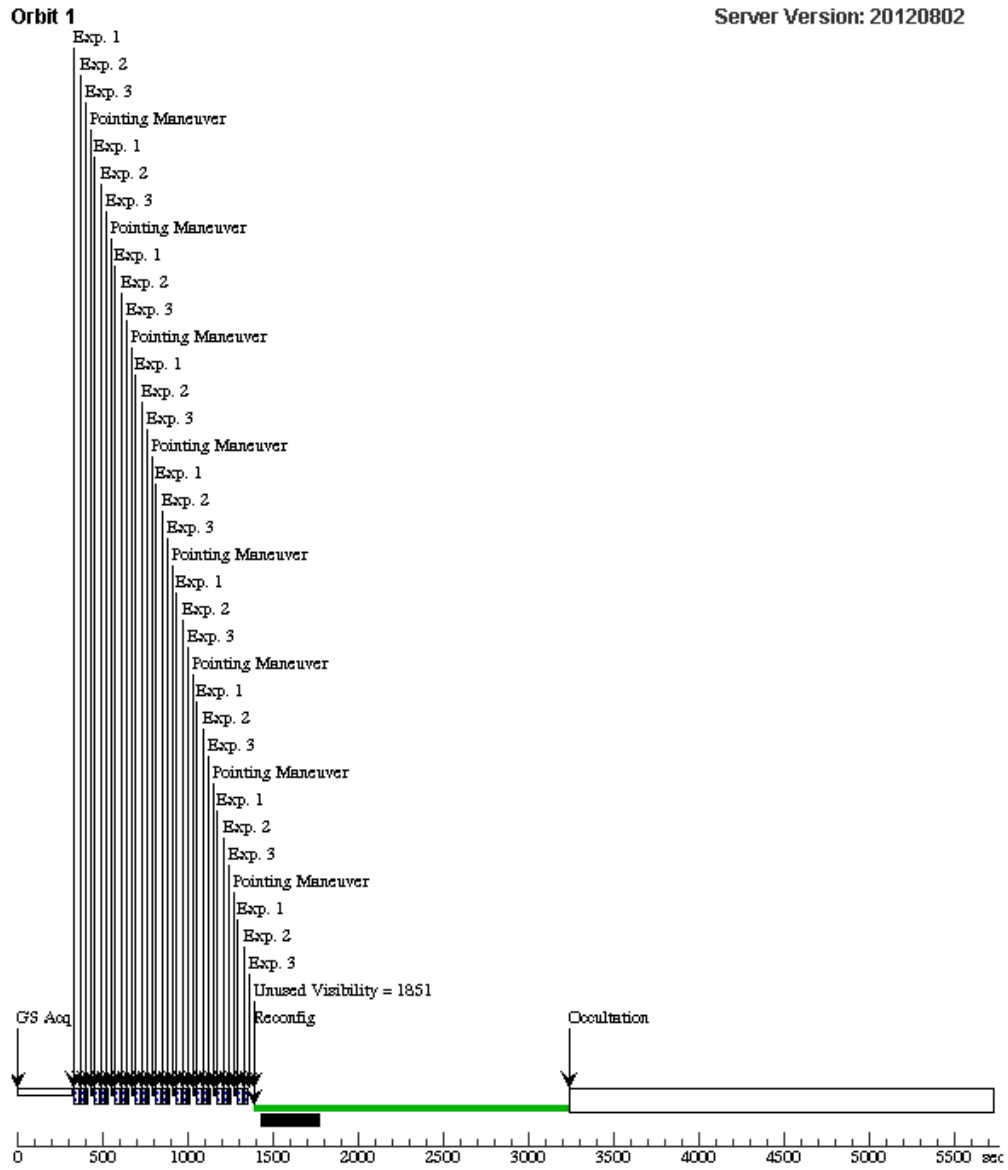
Wed Oct 10 01:31:58 GMT 2012

<b>Visit</b>	<b>Proposal 12511, Visit 0A, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 252.9D TO 252.9 D <i>Comments: Second half of orbit</i>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 0A - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 0A (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 0A (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 0A (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]

Orbit Structure



Proposal 12511 - Visit 02 - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:00 GMT 2012

<b>Visit</b>	<p><b>Proposal 12511, Visit 02, completed</b></p> <p><b>Diagnostic Status: No Diagnostics</b></p> <p>Scientific Instruments: WFC3/IR</p> <p>Special Requirements: ORIENT 257.9D TO 257.9 D; ON HOLD</p> <p><i>Comments: First half of orbit</i></p> <p><i>On Hold Comments: We wish to confirm that our observations match expectations and would like to set Visit 01 as an optimization orbit.</i></p>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
(3)		Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 02 - Determining the Atmospheric Properties of Directly Imaged Planets

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
Exposures	1	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 02 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]	
	2	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 02 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]		[1]
	3	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 02 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]		



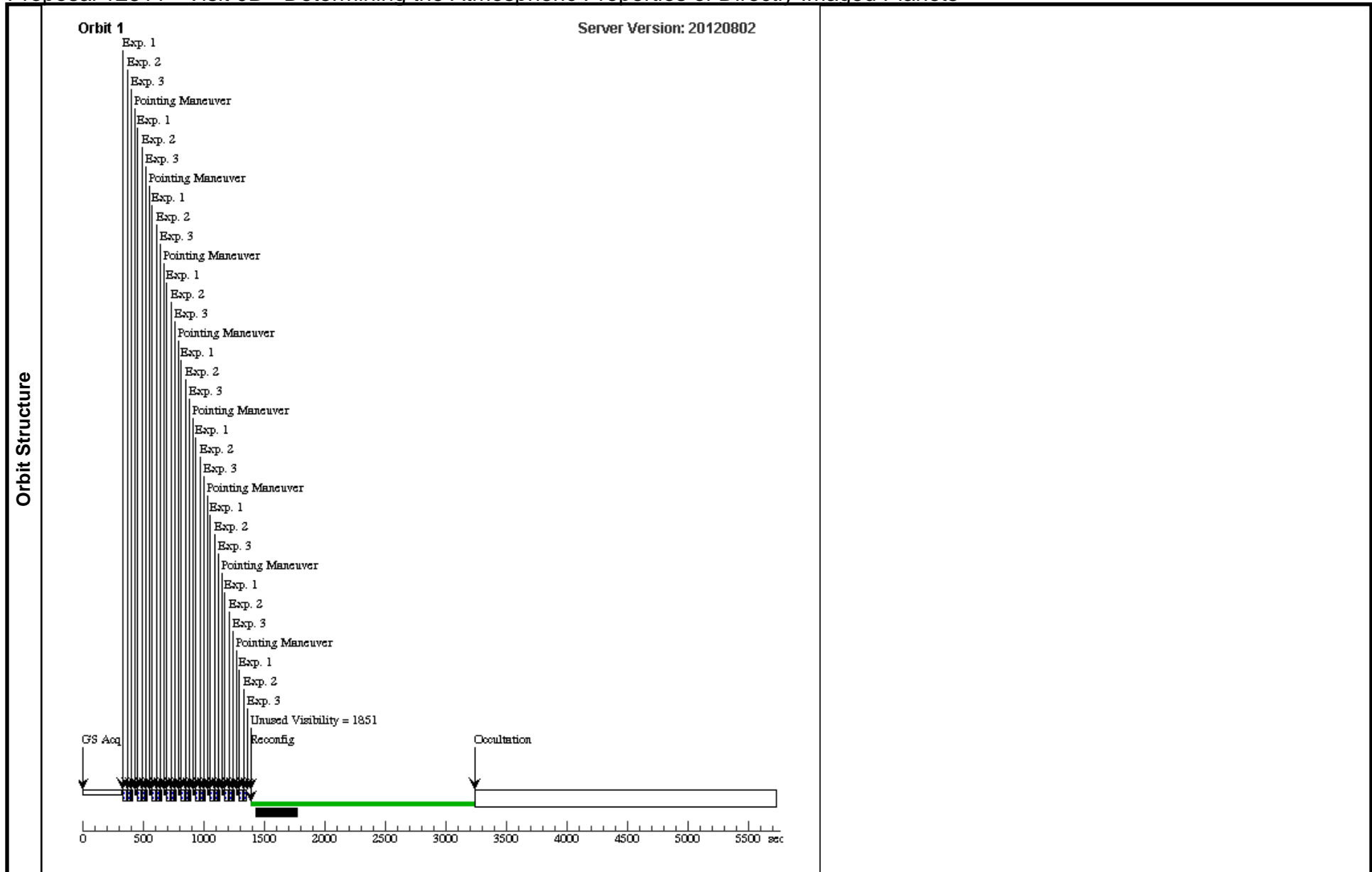
Proposal 12511 - Visit 0B - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:01 GMT 2012

<b>Visit</b>	<b>Proposal 12511, Visit 0B, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 248D TO 248 D Comments: <i>Second half of orbit</i>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	Comments: <i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 0B - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 0B (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 0B (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 0B (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



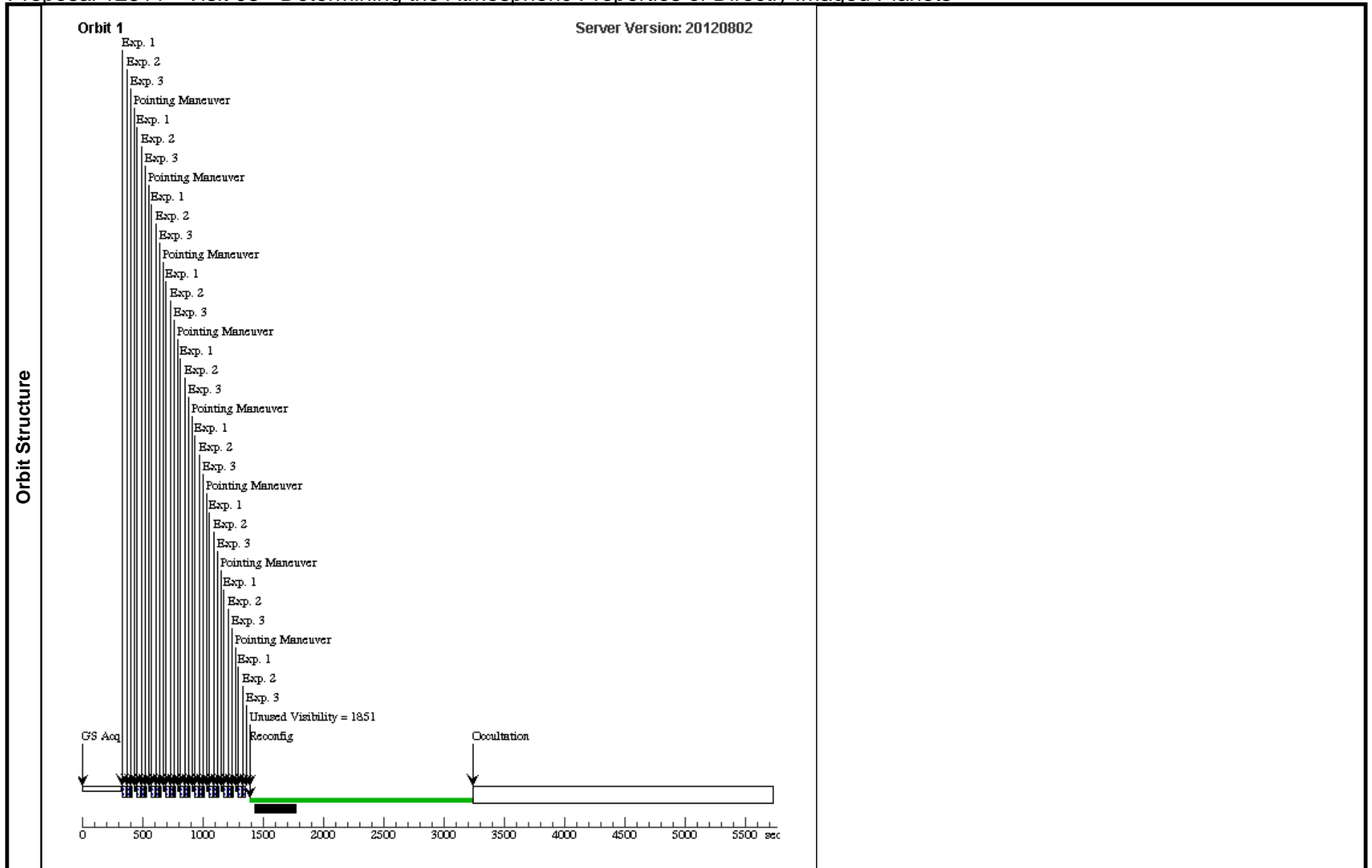
Proposal 12511 - Visit 03 - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:03 GMT 2012

<b>Visit</b>	<b>Proposal 12511, Visit 03, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 238.1D TO 238.1 D; ON HOLD Comments: First half of orbit On Hold Comments: We wish to confirm that our observations match expectations and would like to set Visit 01 as an optimization orbit.					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.					

Proposal 12511 - Visit 03 - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 03 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 03 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 03 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



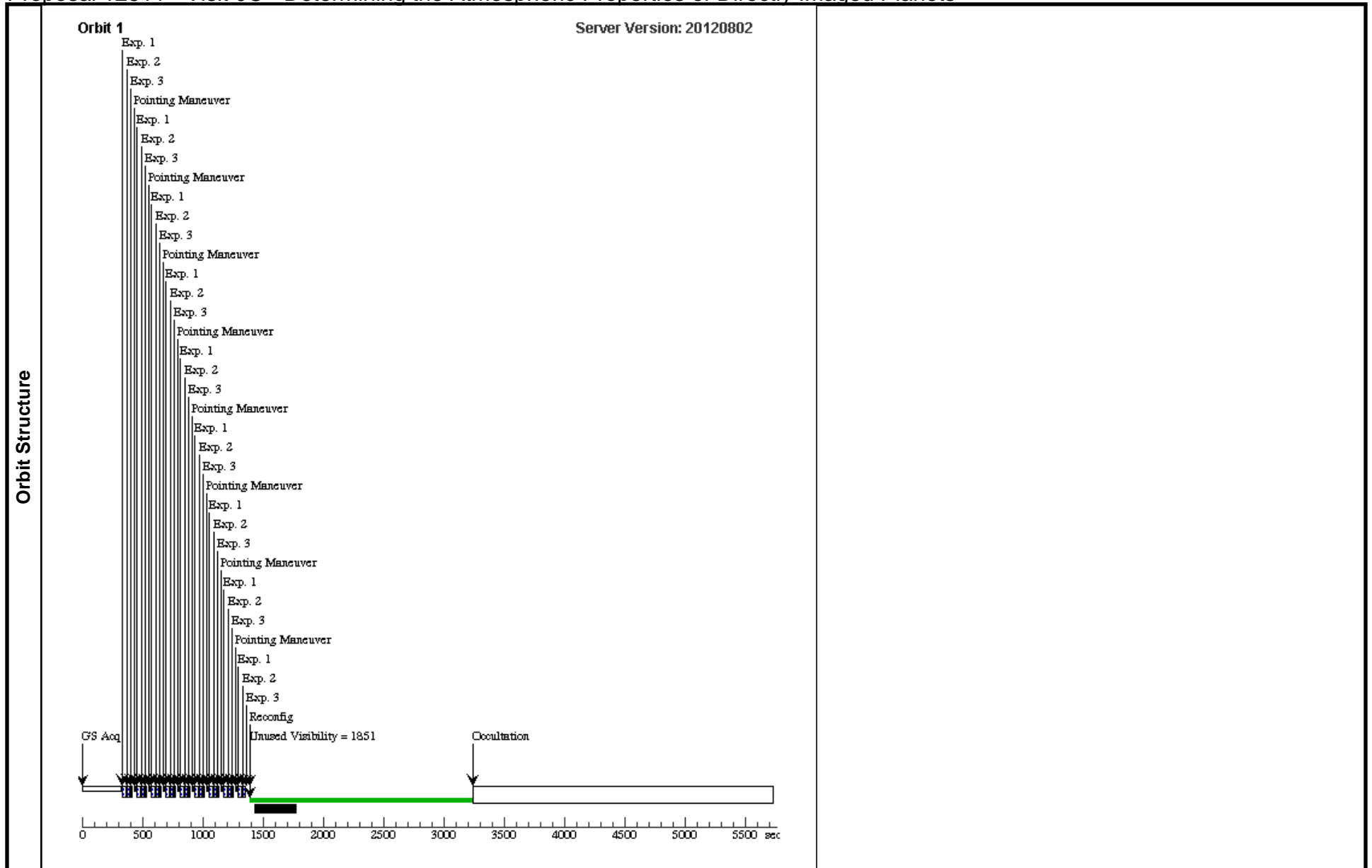
Proposal 12511 - Visit 0C - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:04 GMT 2012

<b>Visit</b>	<b>Proposal 12511, Visit 0C, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 233.1D TO 233.1 D Comments: <i>Second half of orbit</i>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	Comments: <i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 0C - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 0C (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 0C (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 0C (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



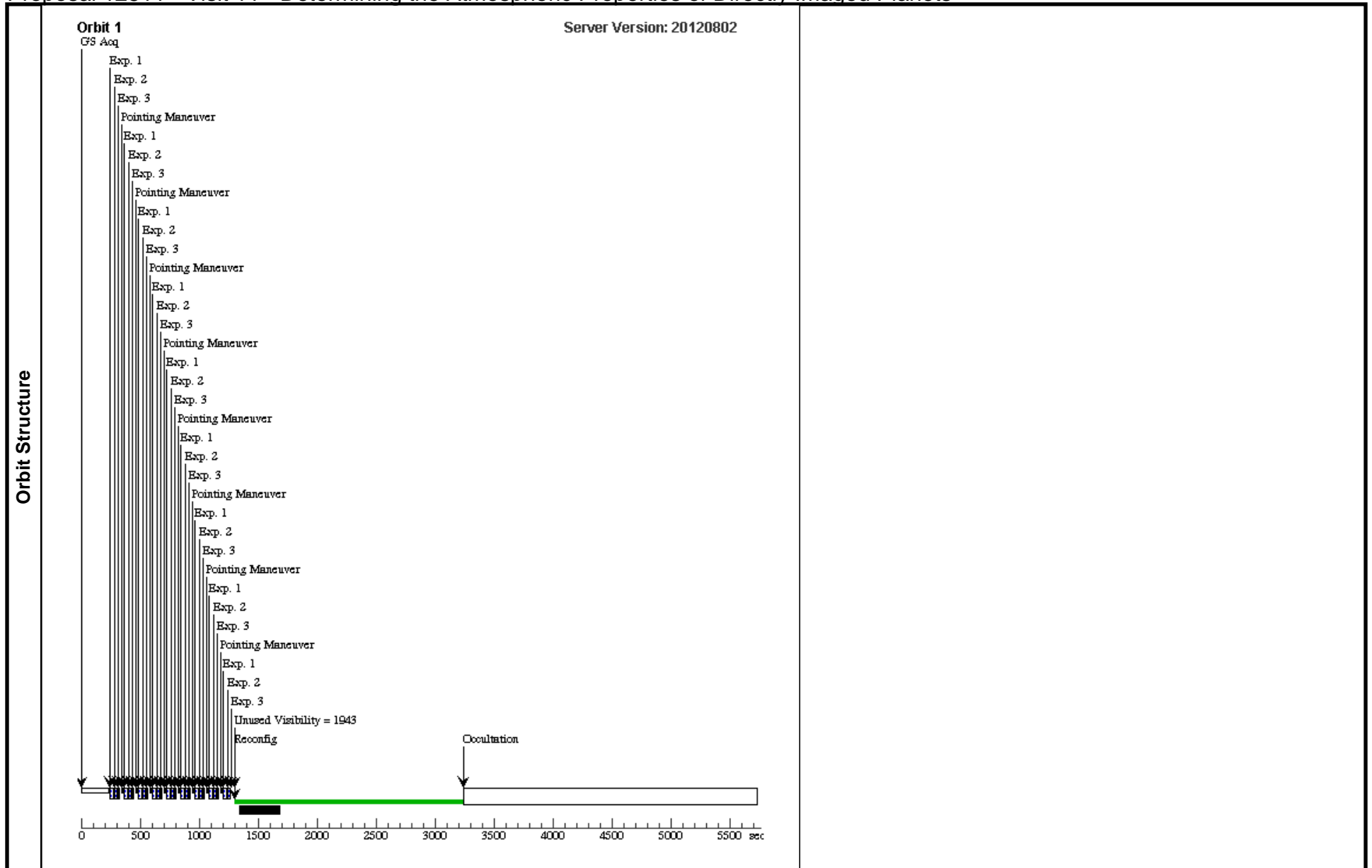
# Proposal 12511 - Visit 11 - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:05 GMT 2012

<b>Visit</b>	<p><b>Proposal 12511, Visit 11, completed</b></p> <p><b>Diagnostic Status: No Diagnostics</b></p> <p>Scientific Instruments: WFC3/IR</p> <p>Special Requirements: ORIENT 213.0D TO 213.0 D; GROUP 11,12,13,1A,1B,1C WITHIN 3.1 Orbits</p> <p><i>Comments: First half of orbit</i></p> <p><i>For the success of our proposal we require the inner 0".5 - 0".6 of the PSF saturate and have designed our exposures to ensure this. However given the poor quality of TINTYTIM PSFs we are uncertain about how precise our observations might be, and we are making use of this orbit to test the exposure time calculations.</i></p>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
(3)		Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p>						

Proposal 12511 - Visit 11 - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9; GS ACQ SCENARIO SINGLE	Pattern 3, Exps 1-3 in Visit 11 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 11 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 11 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



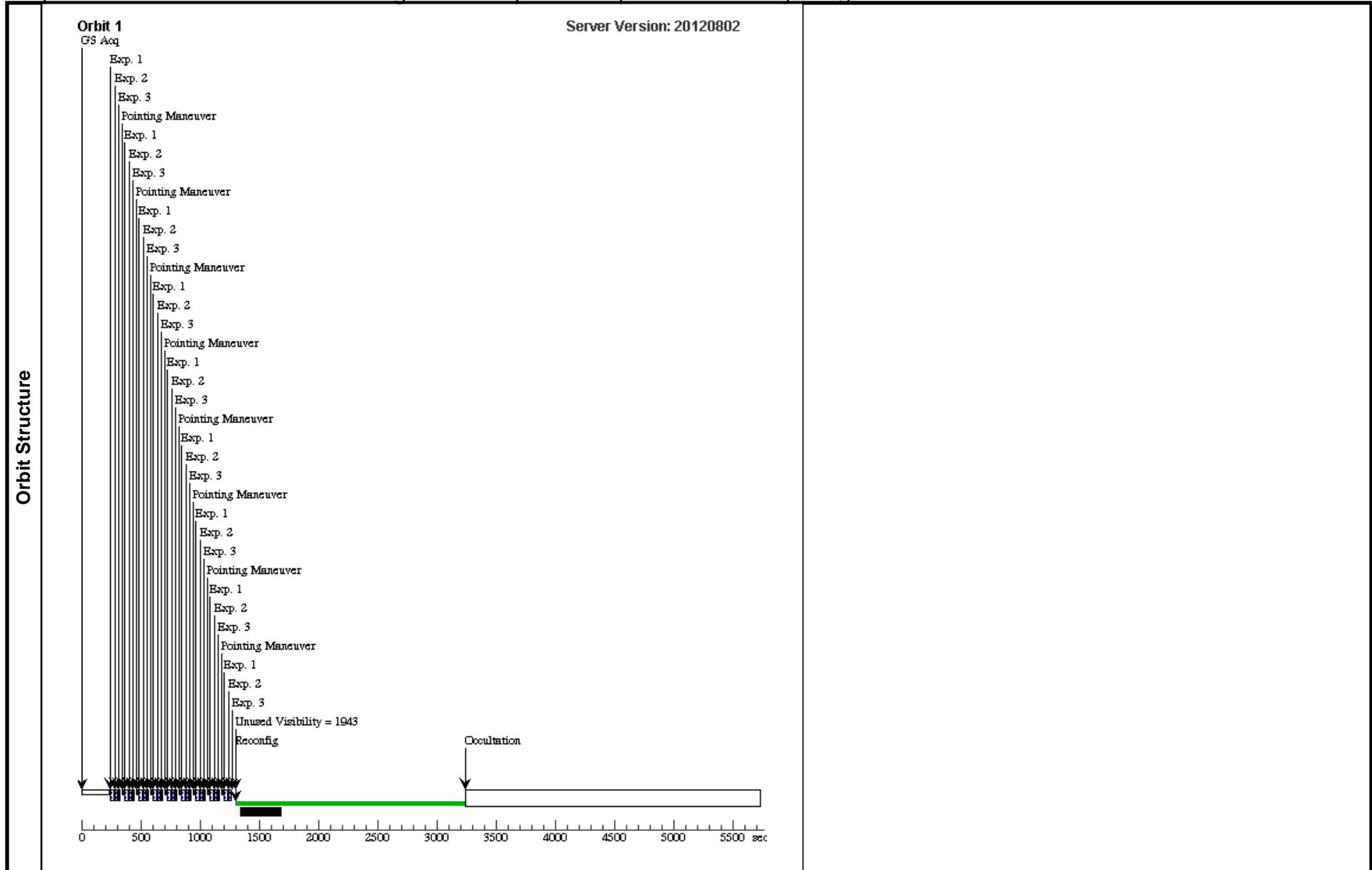
Proposal 12511 - Visit 1A - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:07 GMT 2012

<b>Visit</b>	<b>Proposal 12511, Visit 1A, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 222.9D TO 222.9 D Comments: <i>Second half of orbit</i>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	Comments: <i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 1A - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9; GS ACQ SCENARIO SINGLE	Pattern 3, Exps 1-3 in Visit 1A (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 1A (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 1A (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



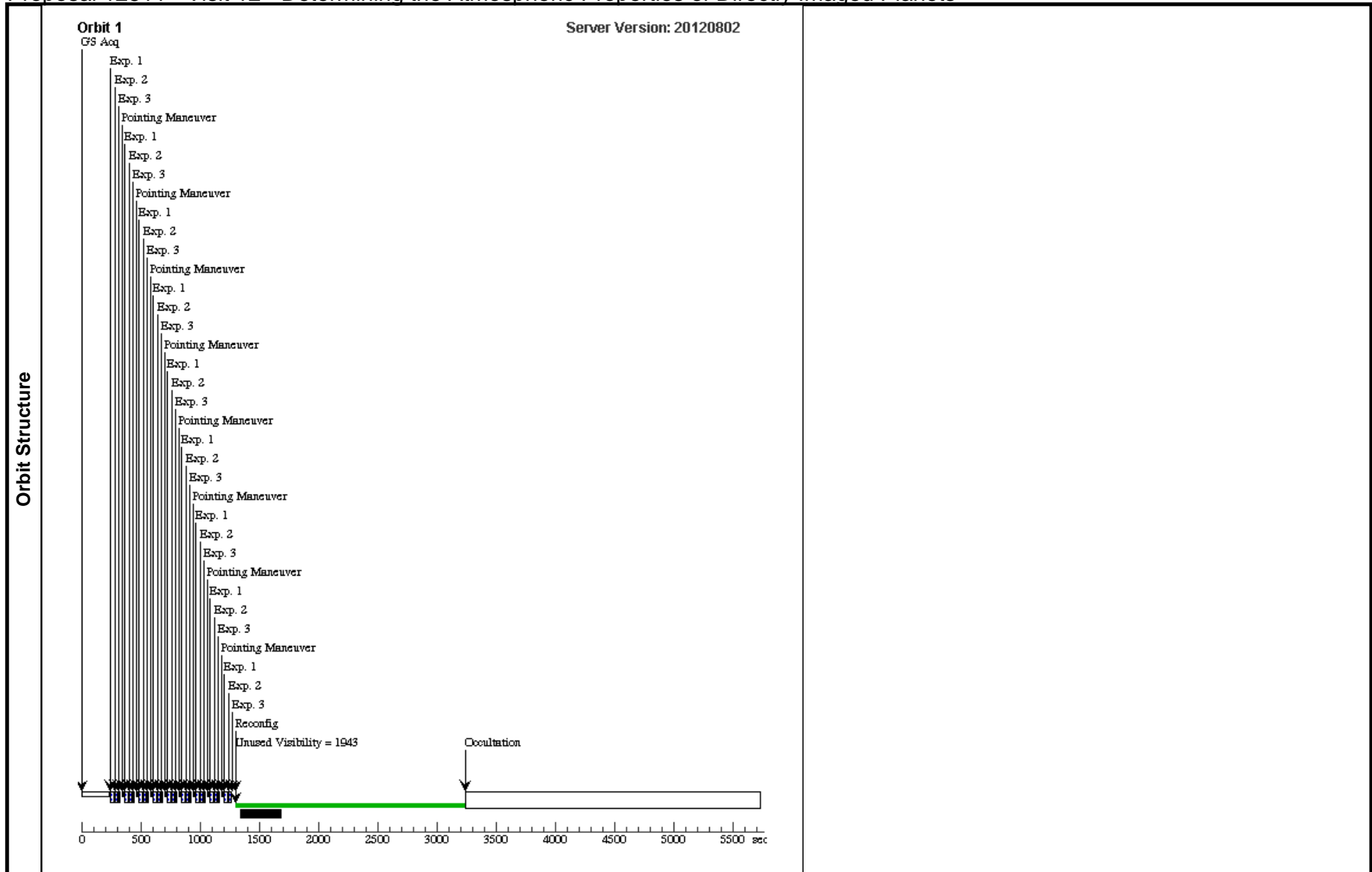
Proposal 12511 - Visit 12 - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:08 GMT 2012

<b>Visit</b>	<p><b>Proposal 12511, Visit 12, completed</b></p> <p><b>Diagnostic Status: No Diagnostics</b></p> <p>Scientific Instruments: WFC3/IR</p> <p>Special Requirements: ORIENT 227.9D TO 227.9 D; ON HOLD</p> <p><i>Comments: First half of orbit</i></p> <p><i>On Hold Comments: We wish to confirm that our observations match expectations and would like to set Visit 01 as an optimization orbit.</i></p>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 12 - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9; GS ACQ SCENARIO SINGLE	Pattern 3, Exps 1-3 in Visit 12 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 12 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 12 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



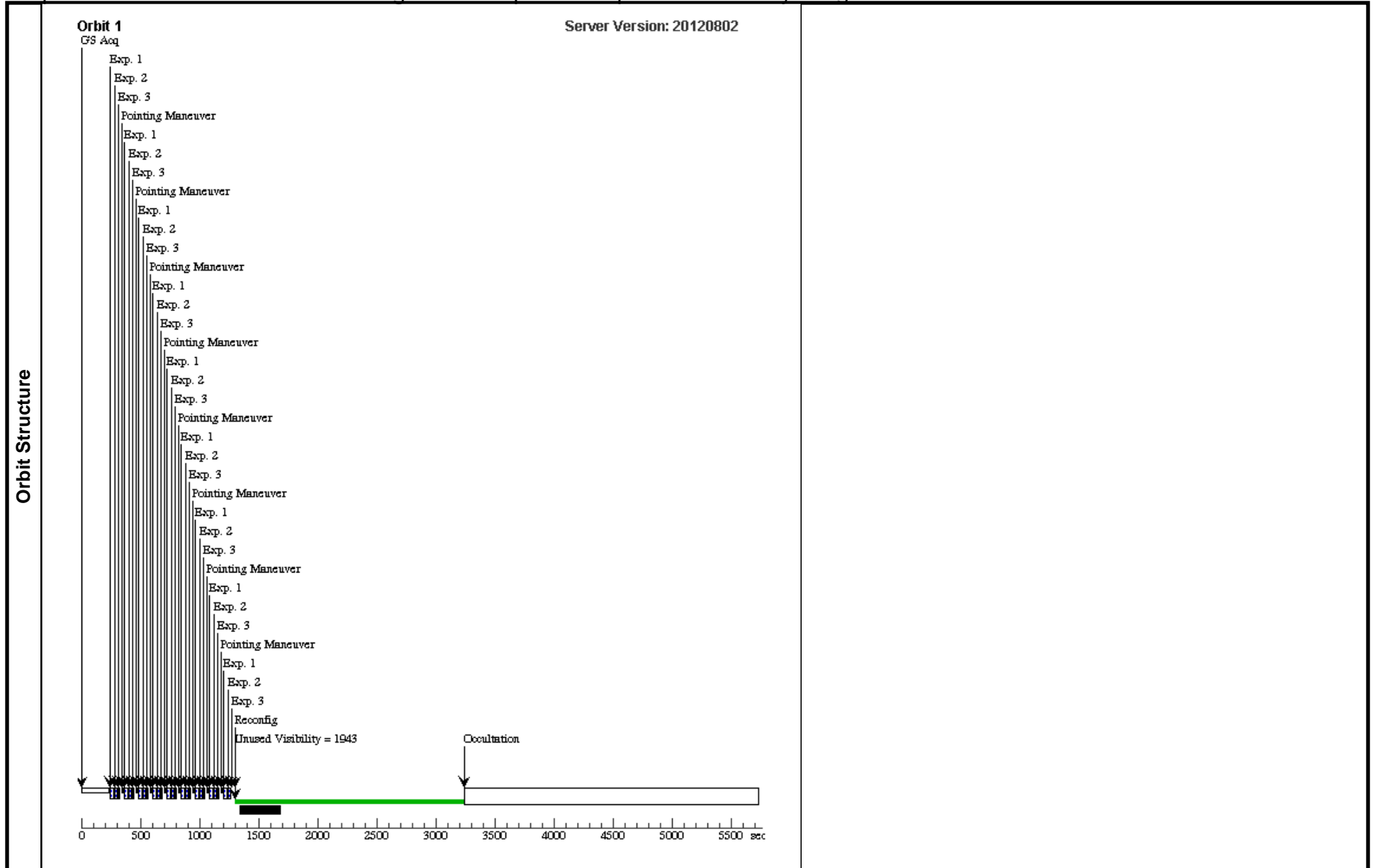
Proposal 12511 - Visit 1B - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:09 GMT 2012

<b>Visit</b>	<b>Proposal 12511, Visit 1B, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 218D TO 218 D Comments: <i>Second half of orbit</i>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	Comments: <i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 1B - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9; GS ACQ SCENARIO SINGLE	Pattern 3, Exps 1-3 in Visit 1B (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 1B (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 1B (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



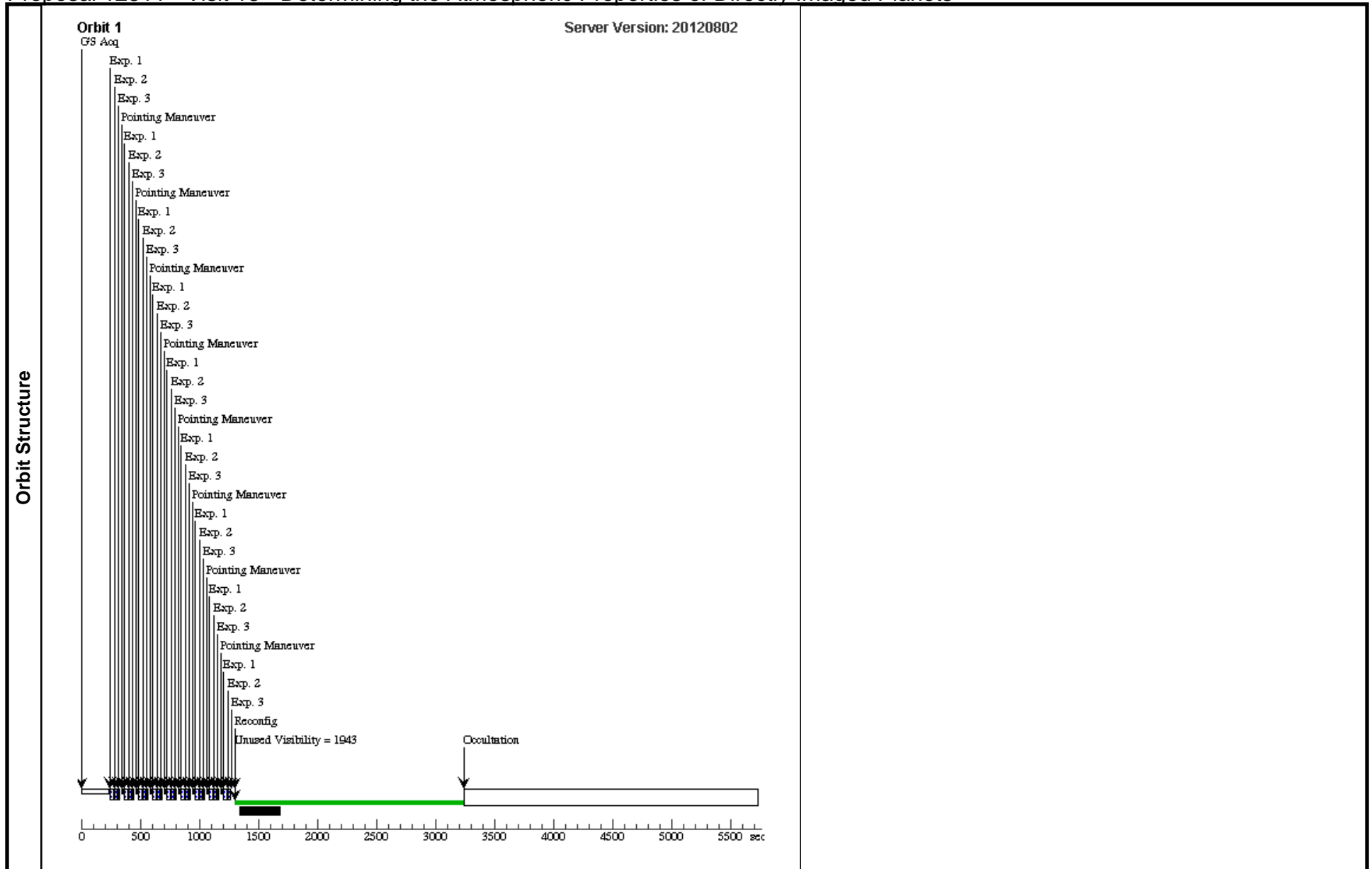
Proposal 12511 - Visit 13 - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:10 GMT 2012

<b>Visit</b>	<b>Proposal 12511, Visit 13, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 208.1D TO 208.1 D Comments: <i>First half of orbit</i>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	Comments: <i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 13 - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9; GS ACQ SCENARIO SINGLE	Pattern 3, Exps 1-3 in Visit 13 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 13 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 13 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



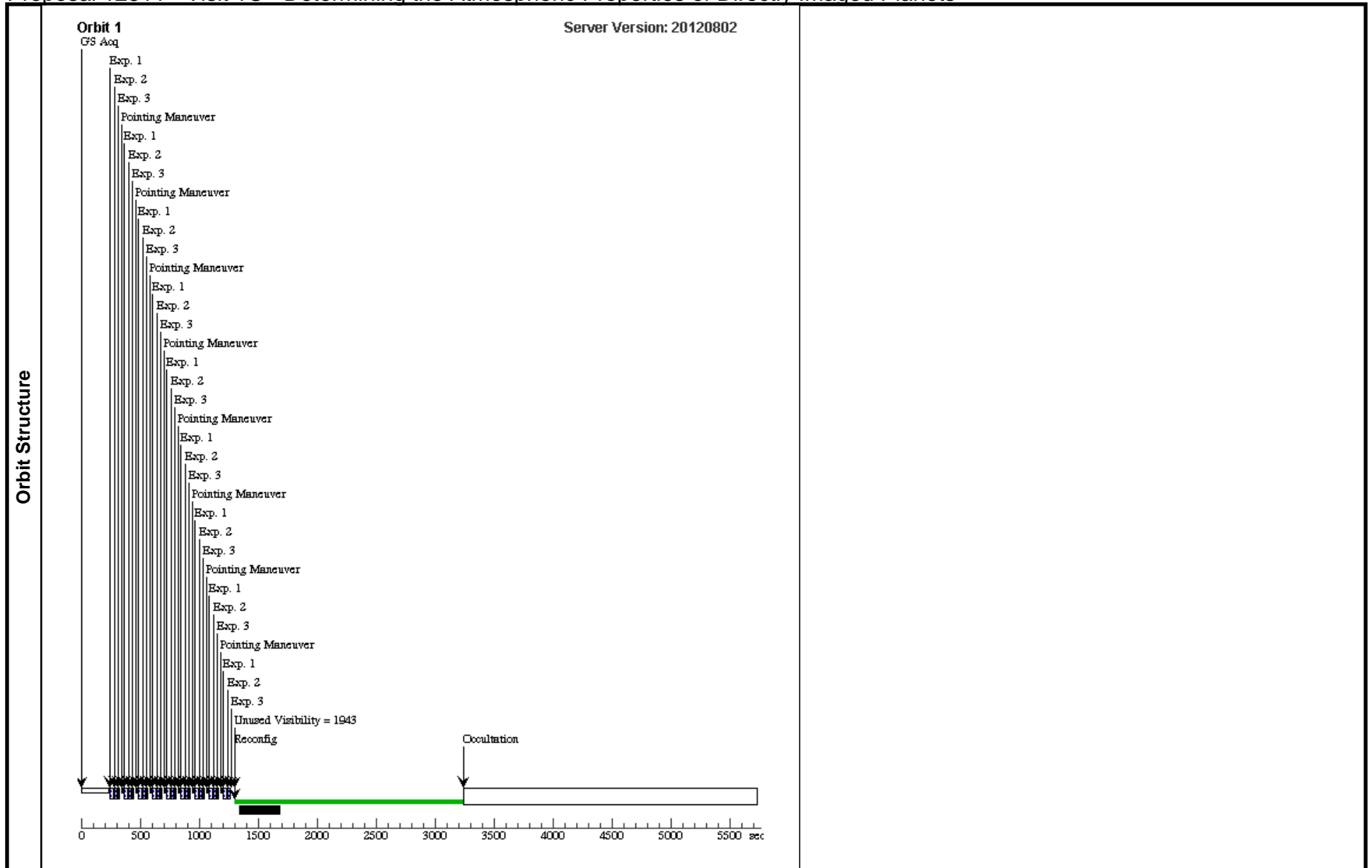
Proposal 12511 - Visit 1C - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:12 GMT 2012

<b>Visit</b>	<b>Proposal 12511, Visit 1C, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 203.1D TO 203.1 D <i>Comments: Second half of orbit</i>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 1C - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9; GS ACQ SCENARIO SINGLE	Pattern 3, Exps 1-3 in Visit 1C (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 1C (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 1C (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



# Proposal 12511 - Visit 21 - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:13 GMT 2012

<b>Visit</b>	<p><b>Proposal 12511, Visit 21, completed</b></p> <p><b>Diagnostic Status: No Diagnostics</b></p> <p>Scientific Instruments: WFC3/IR</p> <p>Special Requirements: ORIENT 151D TO 151 D; GROUP 21,22,23,2A,2B,2C WITHIN 3 Orbits</p> <p>Comments: First half of orbit</p> <p><i>For the success of our proposal we require the inner 0".5 - 0".6 of the PSF saturate and have designed our exposures to ensure this. However given the poor quality of TINTYTIM PSFs we are uncertain about how precise our observations might be, and we are making use of this orbit to test the exposure time calculations.</i></p>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
(3)		Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	<p>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</p>					

Proposal 12511 - Visit 21 - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9; GS ACQ SCENARIO SINGLE	Pattern 3, Exps 1-3 in Visit 21 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 21 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 21 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



Proposal 12511 - Visit 2A - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:14 GMT 2012

<b>Visit</b>	<b>Proposal 12511, Visit 2A, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 161D TO 161 D Comments: <i>Second half of orbit</i>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	Comments: <i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 2A - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9; GS ACQ SCENARIO SINGLE	Pattern 3, Exps 1-3 in Visit 2A (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 2A (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 2A (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



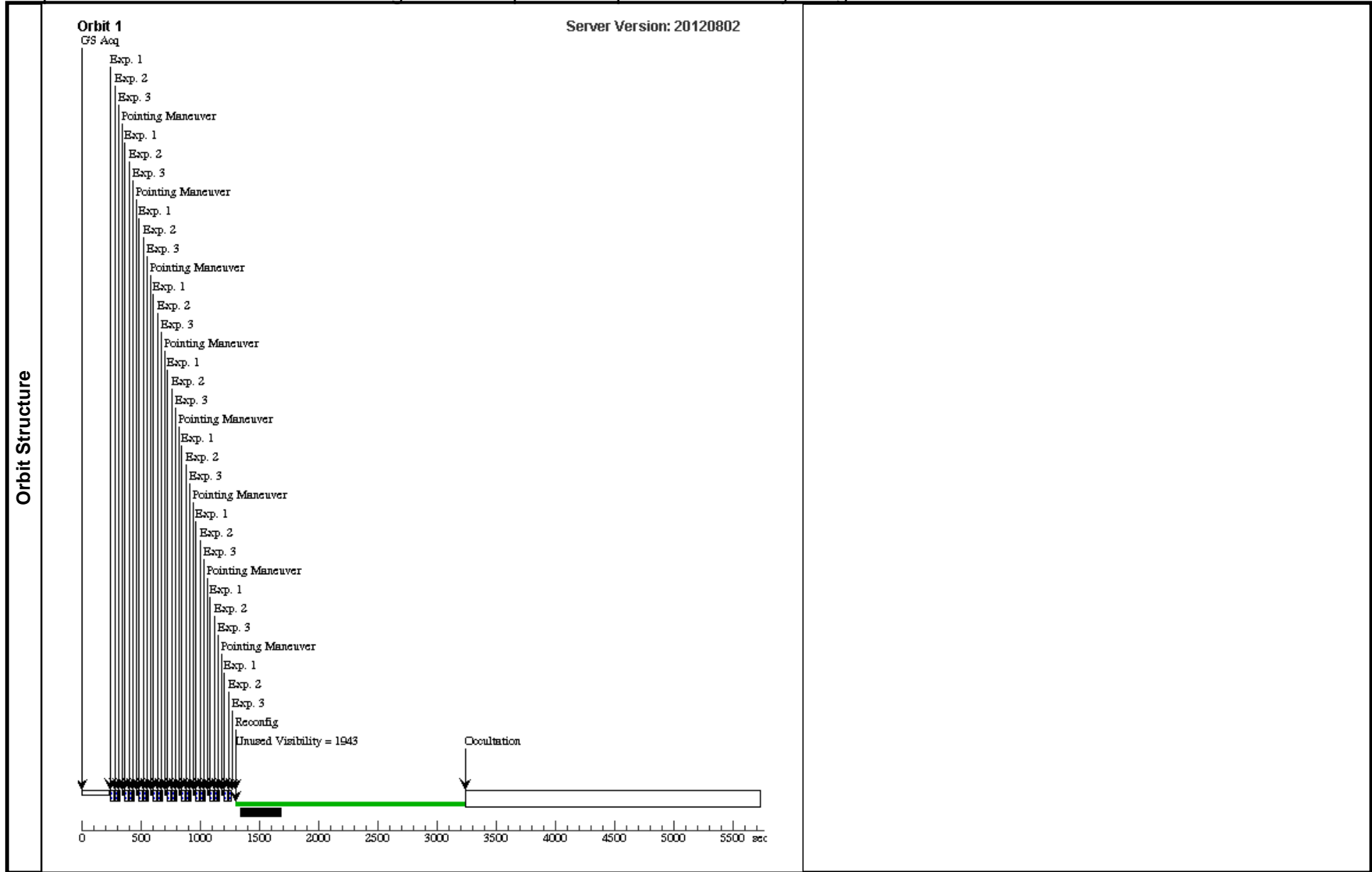
Proposal 12511 - Visit 22 - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:15 GMT 2012

<b>Visit</b>	<b>Proposal 12511, Visit 22, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 166D TO 166 D Comments: <i>First half of orbit</i>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	Comments: <i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 22 - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9; GS ACQ SCENARIO SINGLE	Pattern 3, Exps 1-3 in Visit 22 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 22 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 22 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



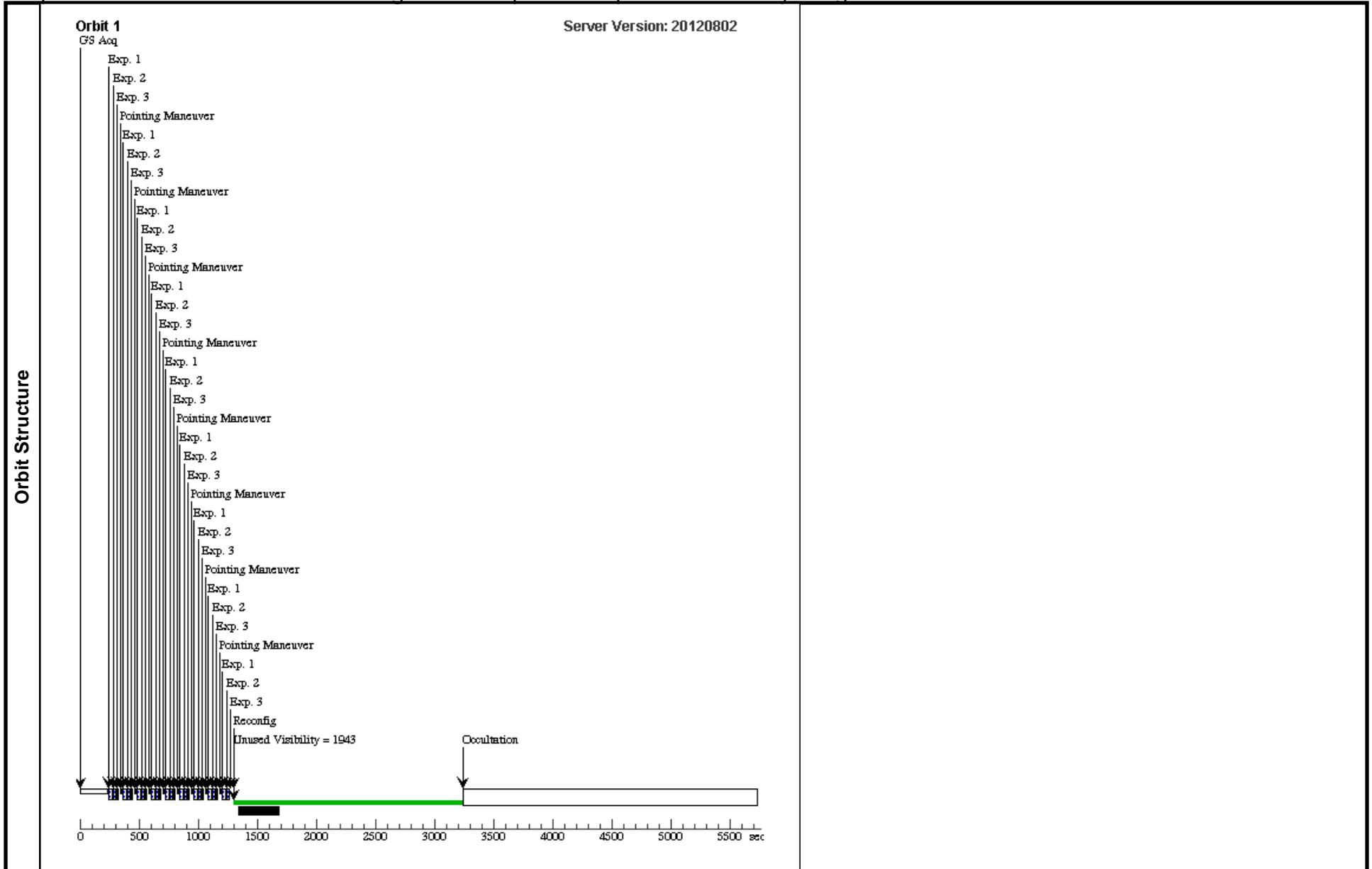
Proposal 12511 - Visit 2B - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:17 GMT 2012

<b>Visit</b>	<b>Proposal 12511, Visit 2B, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 156D TO 156 D <i>Comments: Second half of orbit</i>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 2B - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9; GS ACQ SCENARIO SINGLE	Pattern 3, Exps 1-3 in Visit 2B (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 2B (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 2B (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



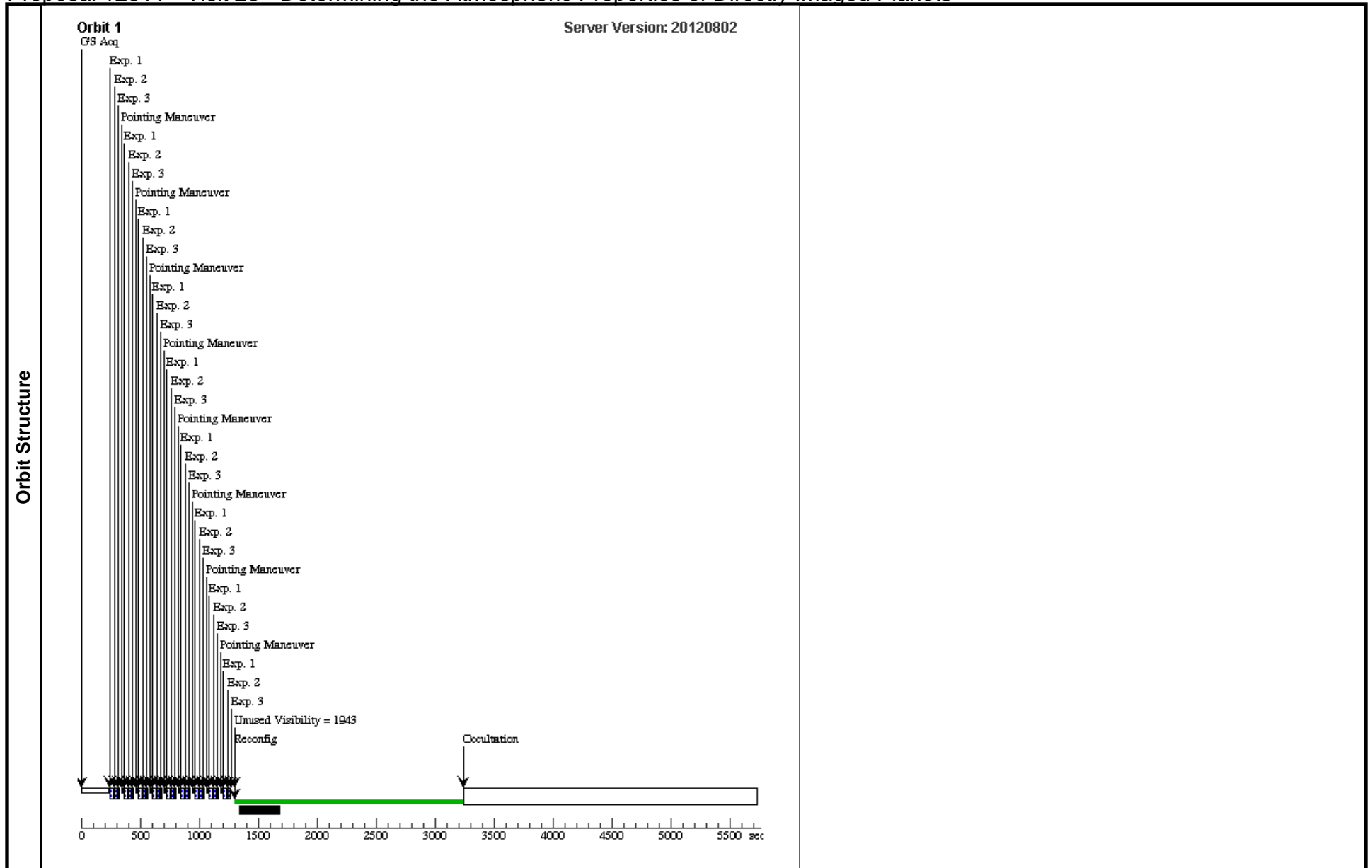
Proposal 12511 - Visit 23 - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:18 GMT 2012

<b>Visit</b>	<b>Proposal 12511, Visit 23, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 146D TO 146 D Comments: <i>First half of orbit</i>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	Comments: <i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 23 - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9; GS ACQ SCENARIO SINGLE	Pattern 3, Exps 1-3 in Visit 23 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 23 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 23 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



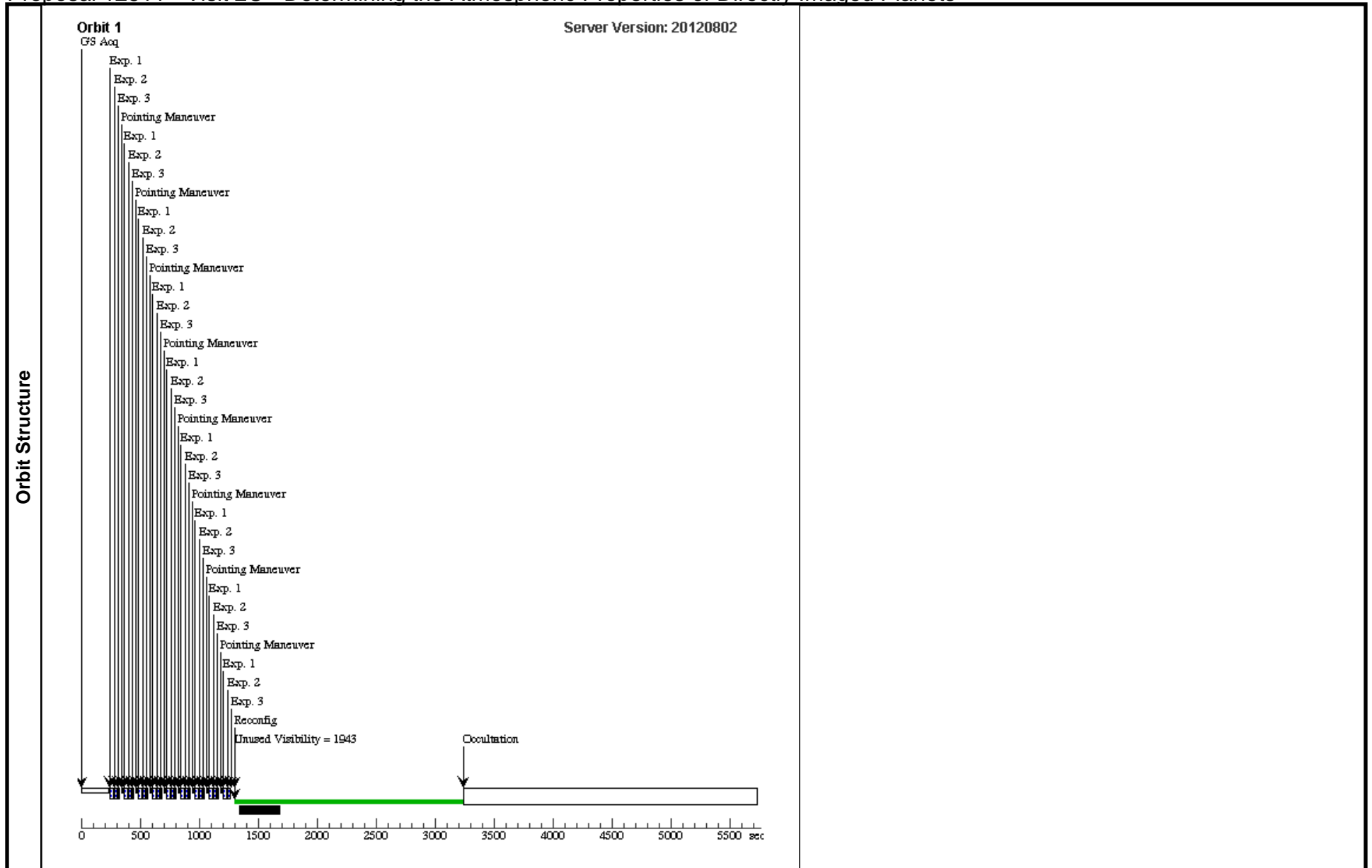
Proposal 12511 - Visit 2C - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:19 GMT 2012

<b>Visit</b>	<b>Proposal 12511, Visit 2C, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 141D TO 141 D Comments: <i>Second half of orbit</i>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	Comments: <i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 2C - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9; GS ACQ SCENARIO SINGLE	Pattern 3, Exps 1-3 in Visit 2C (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 2C (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 2C (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



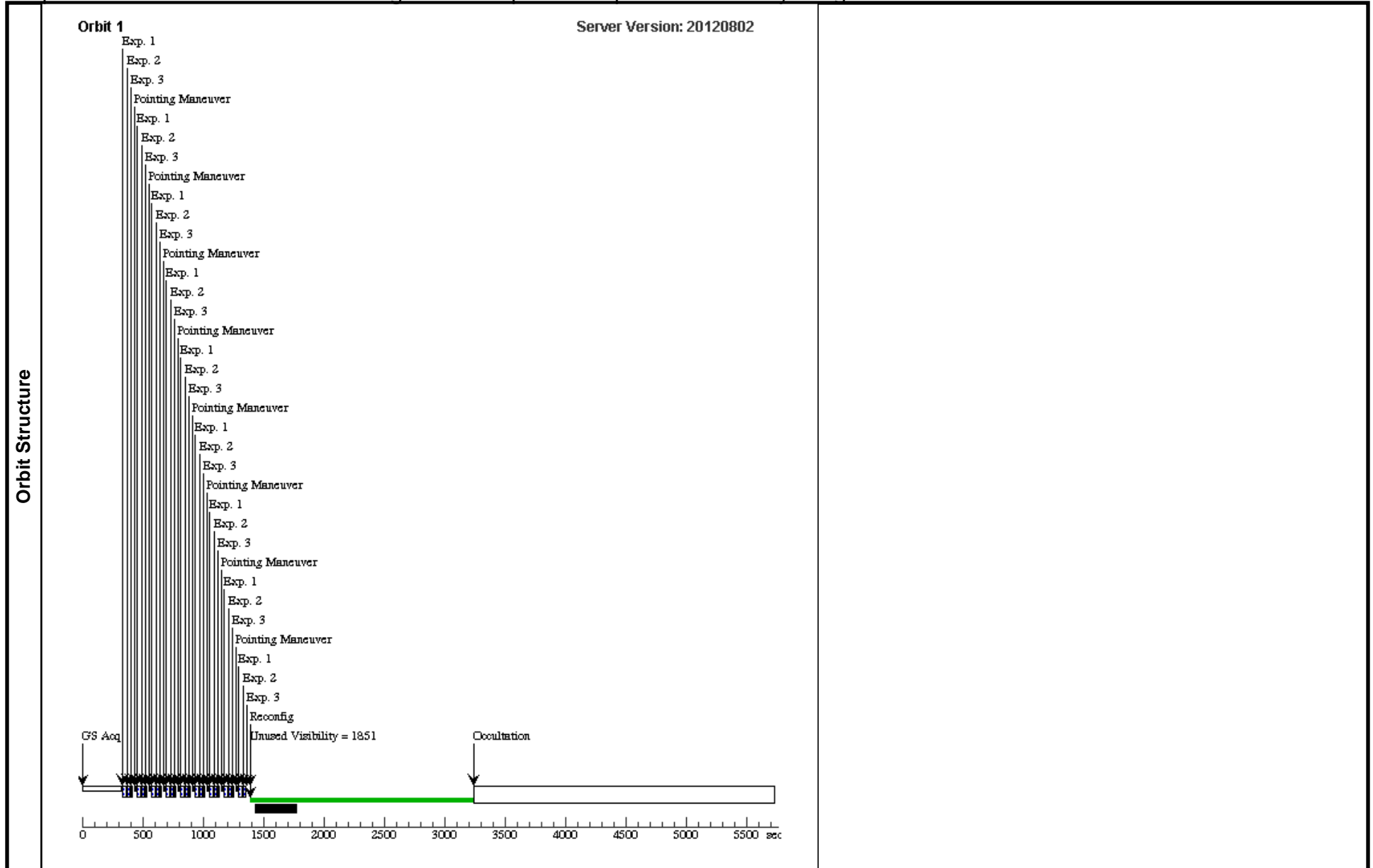
# Proposal 12511 - Visit 31 - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:20 GMT 2012

<b>Visit</b>	<p><b>Proposal 12511, Visit 31, completed</b></p> <p><b>Diagnostic Status: No Diagnostics</b></p> <p>Scientific Instruments: WFC3/IR</p> <p>Special Requirements: ORIENT 116D TO 116 D; GROUP 31,32,33,3A,3B,3C WITHIN 3 Orbits</p> <p><i>Comments: First half of orbit</i></p> <p><i>For the success of our proposal we require the inner 0".5 - 0".6 of the PSF saturate and have designed our exposures to ensure this. However given the poor quality of TINTYTIM PSFs we are uncertain about how precise our observations might be, and we are making use of this orbit to test the exposure time calculations.</i></p>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false	(1-3)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 31 - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 31 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 31 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 31 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



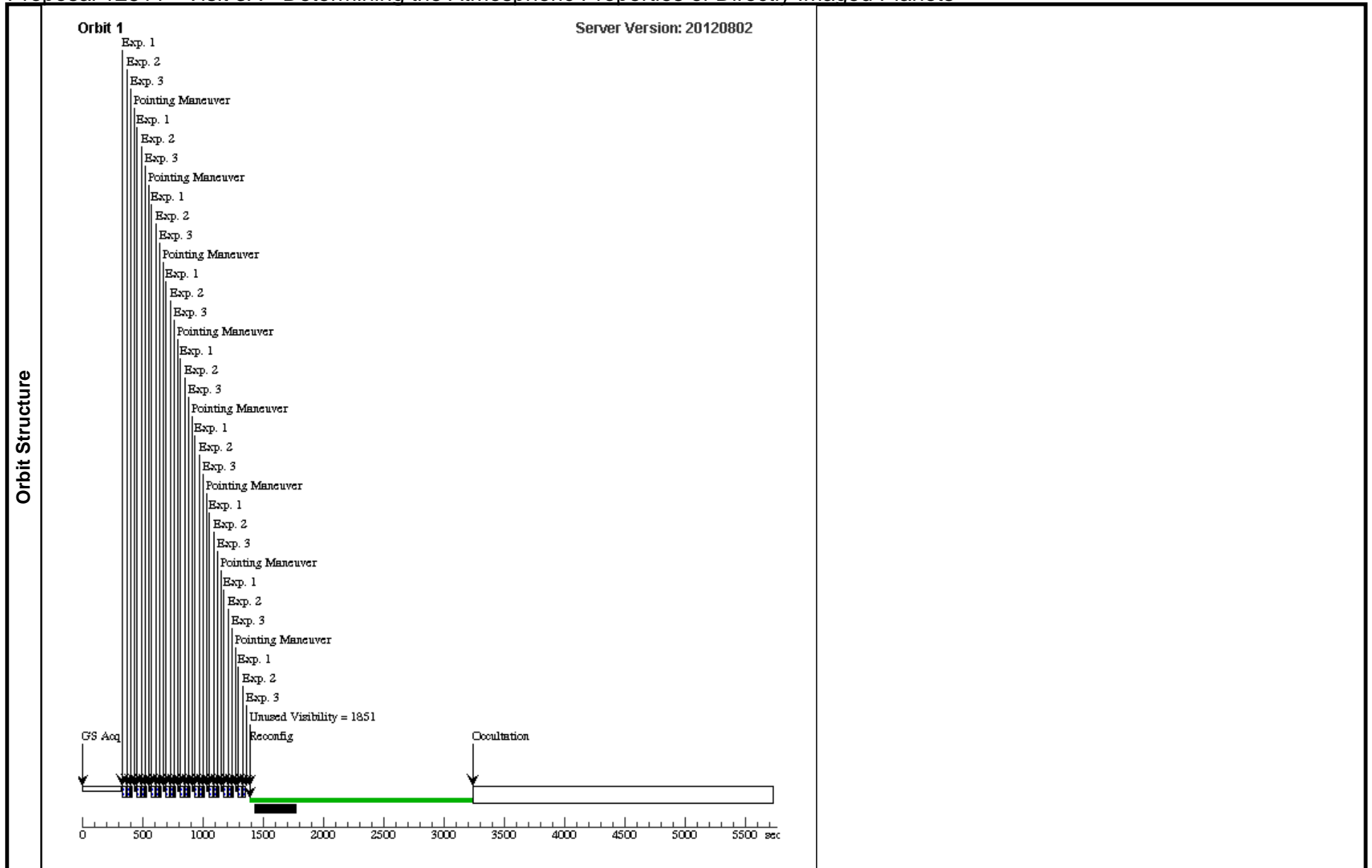
Proposal 12511 - Visit 3A - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:22 GMT 2012

<b>Visit</b>	<b>Proposal 12511, Visit 3A, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 126D TO 126 D Comments: <i>Second half of orbit</i>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	Comments: <i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 3A - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 3A (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 3A (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 3A (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



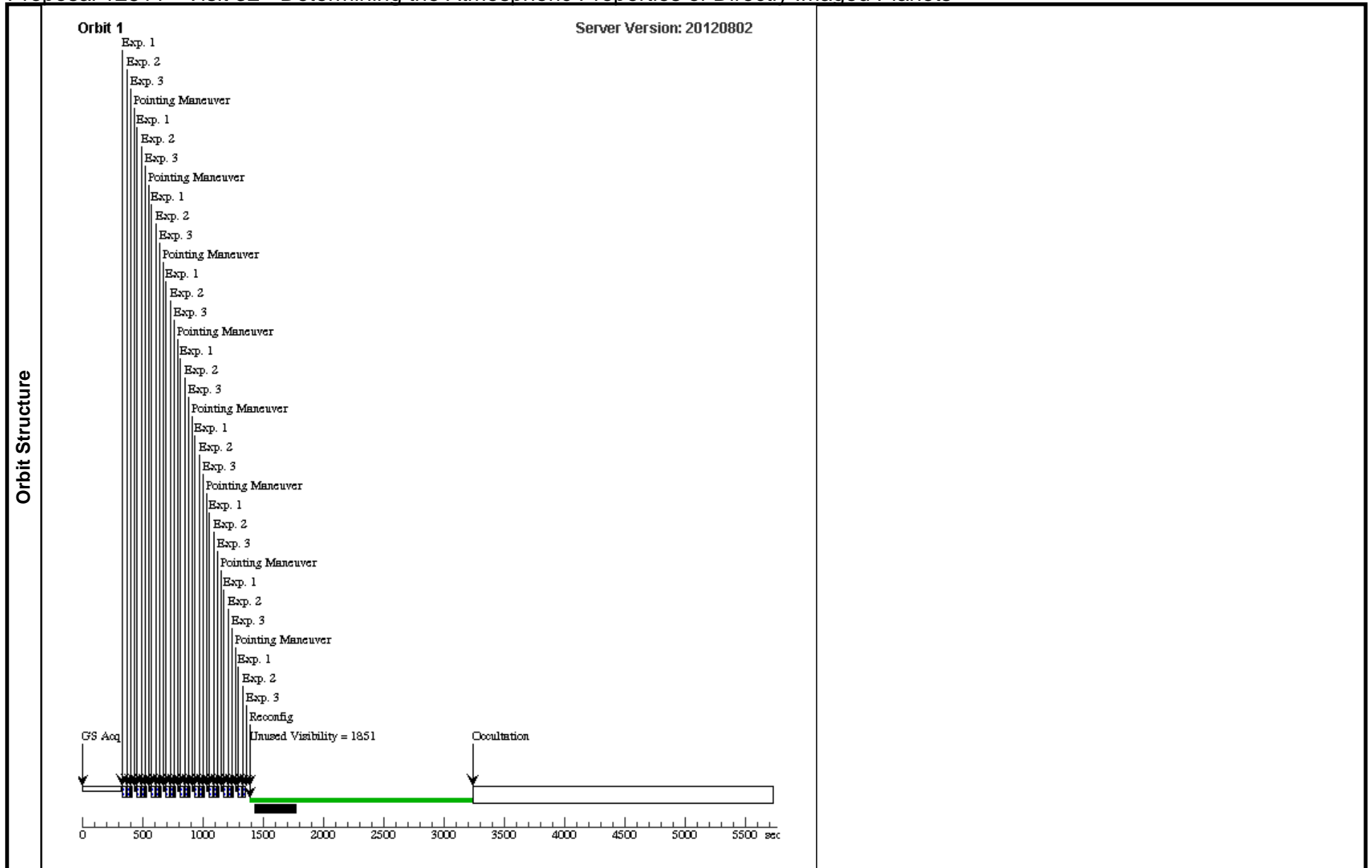
Proposal 12511 - Visit 32 - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:23 GMT 2012

<b>Visit</b>	<b>Proposal 12511, Visit 32, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 131D TO 131 D Comments: <i>First half of orbit</i>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	Comments: <i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 32 - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 32 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 32 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 32 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



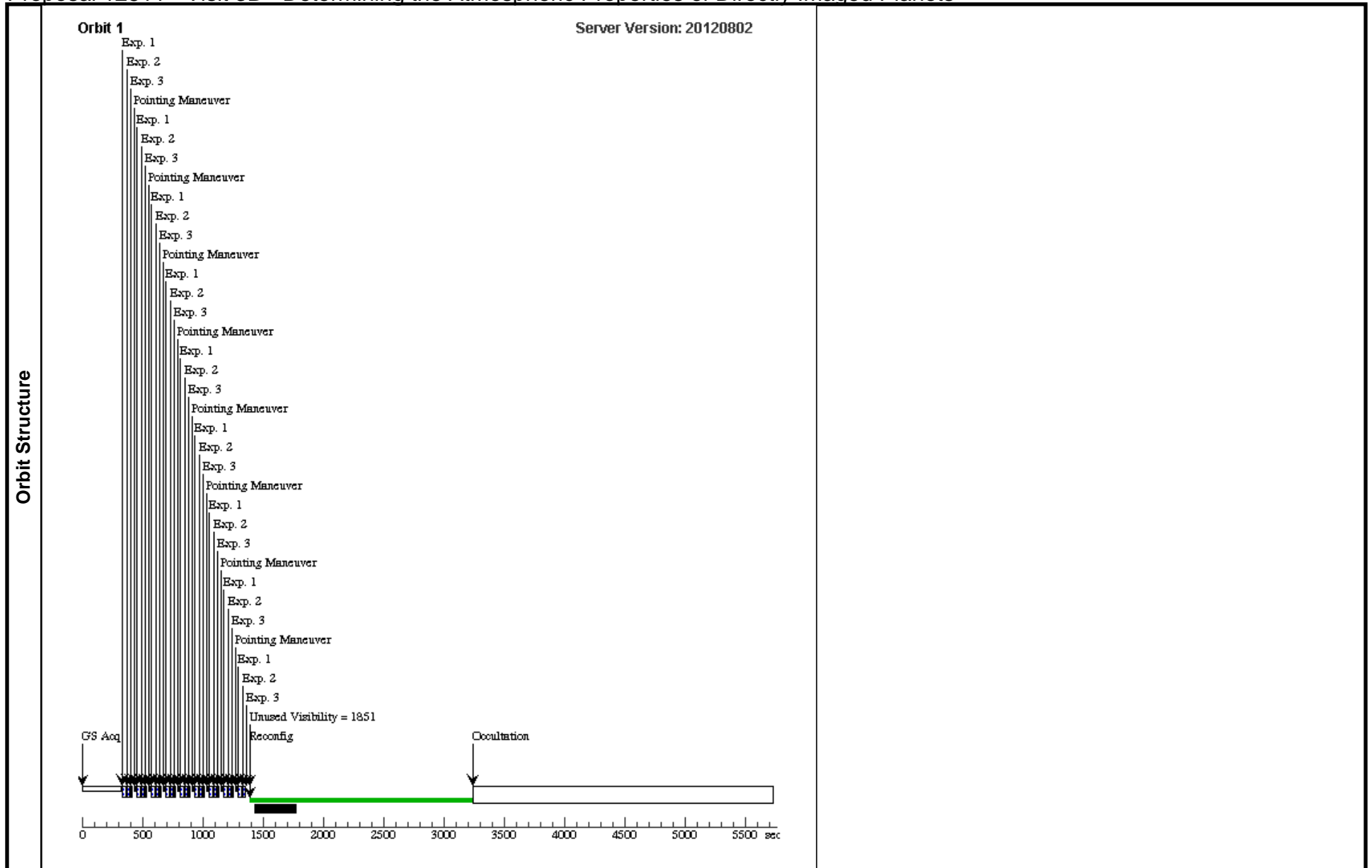
Proposal 12511 - Visit 3B - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:24 GMT 2012

<b>Visit</b>	<b>Proposal 12511, Visit 3B, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 121D TO 121 D Comments: <i>Second half of orbit</i>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	Comments: <i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 3B - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 3B (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 3B (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 3B (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



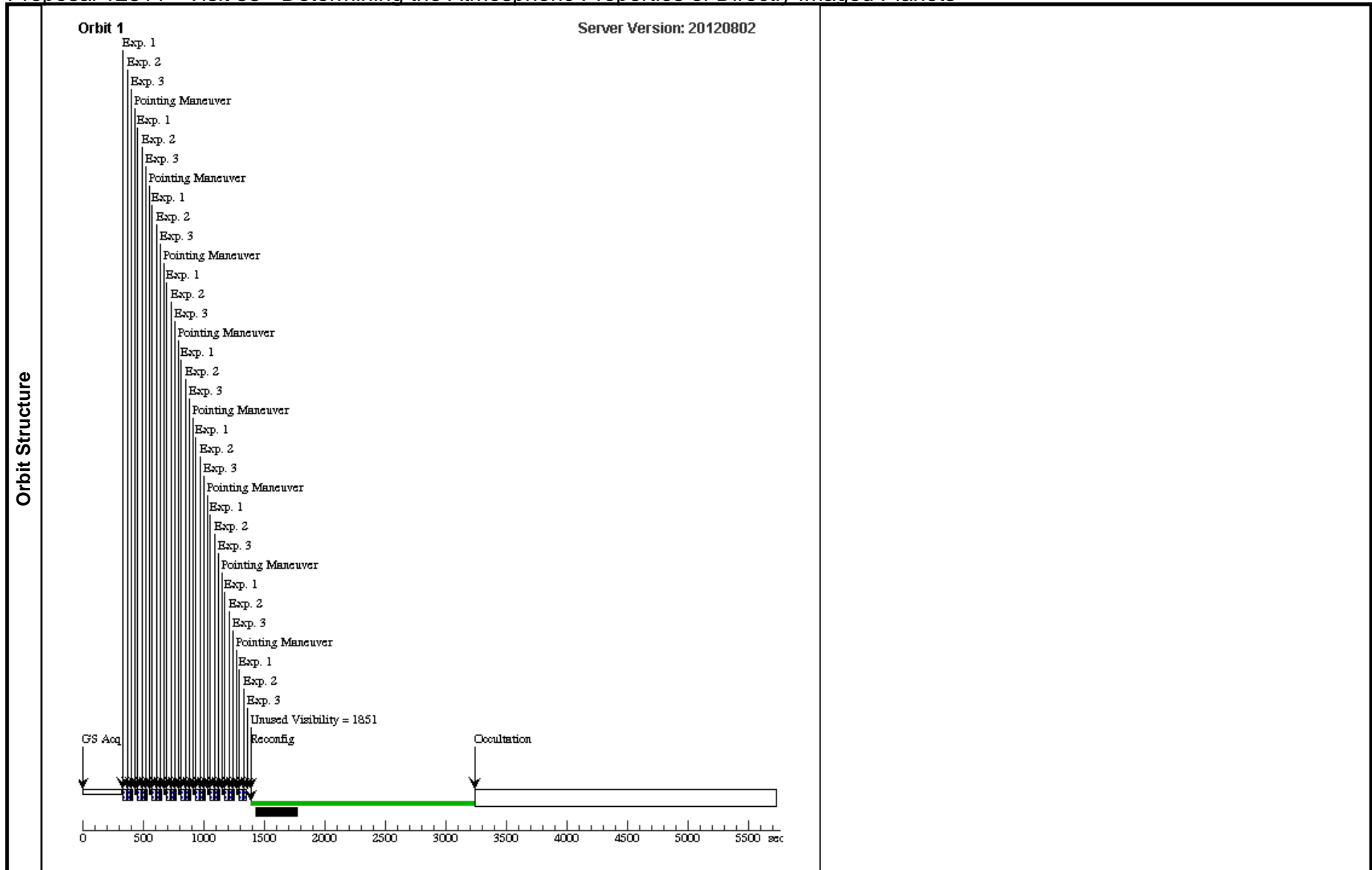
Proposal 12511 - Visit 33 - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:25 GMT 2012

<b>Visit</b>	<b>Proposal 12511, Visit 33, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 111D TO 111 D Comments: <i>First half of orbit</i>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	Comments: <i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 33 - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 33 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 33 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 33 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



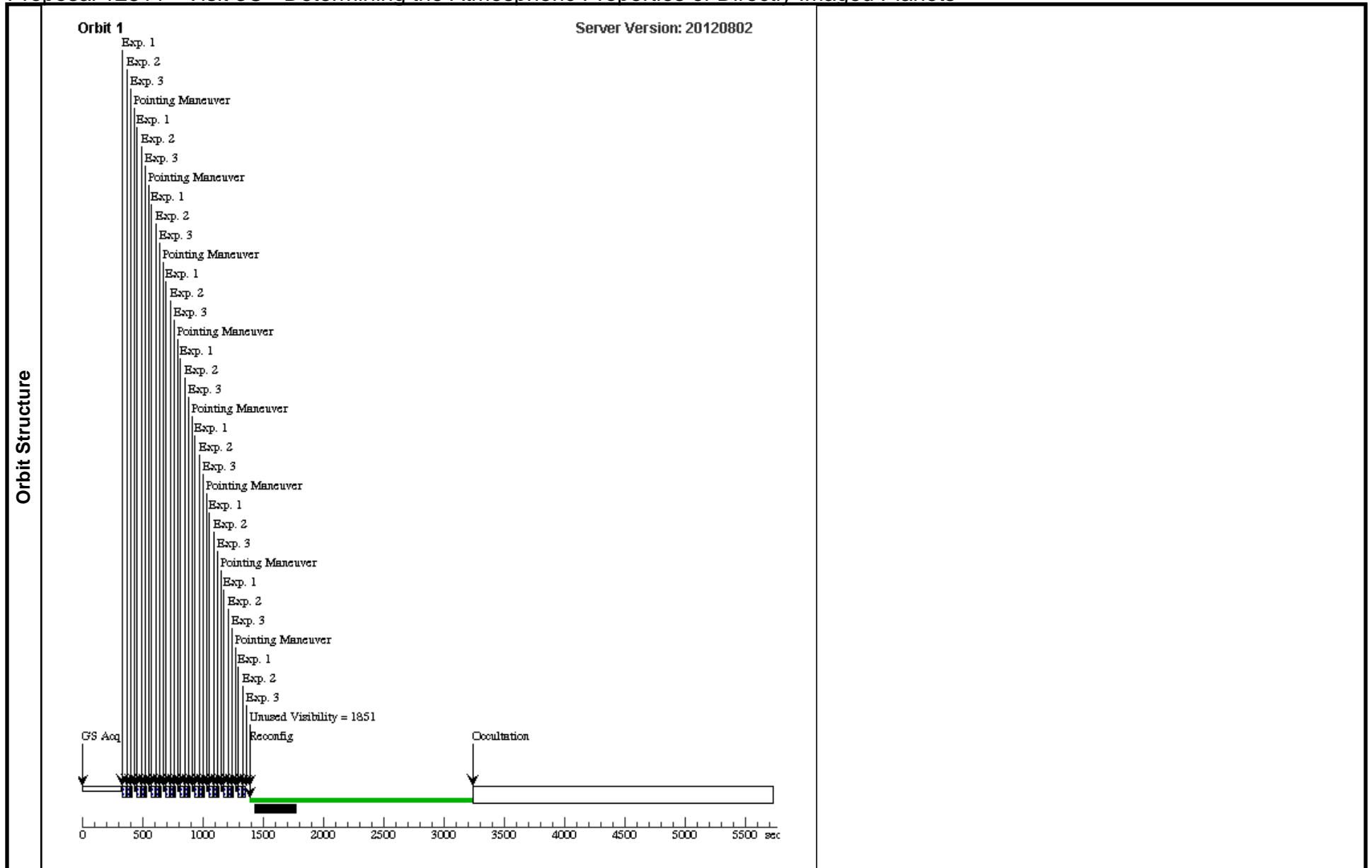
Proposal 12511 - Visit 3C - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:26 GMT 2012

<b>Visit</b>	<b>Proposal 12511, Visit 3C, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 106D TO 106 D Comments: <i>Second half of orbit</i>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	Comments: <i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 3C - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 3C (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 3C (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 3C (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



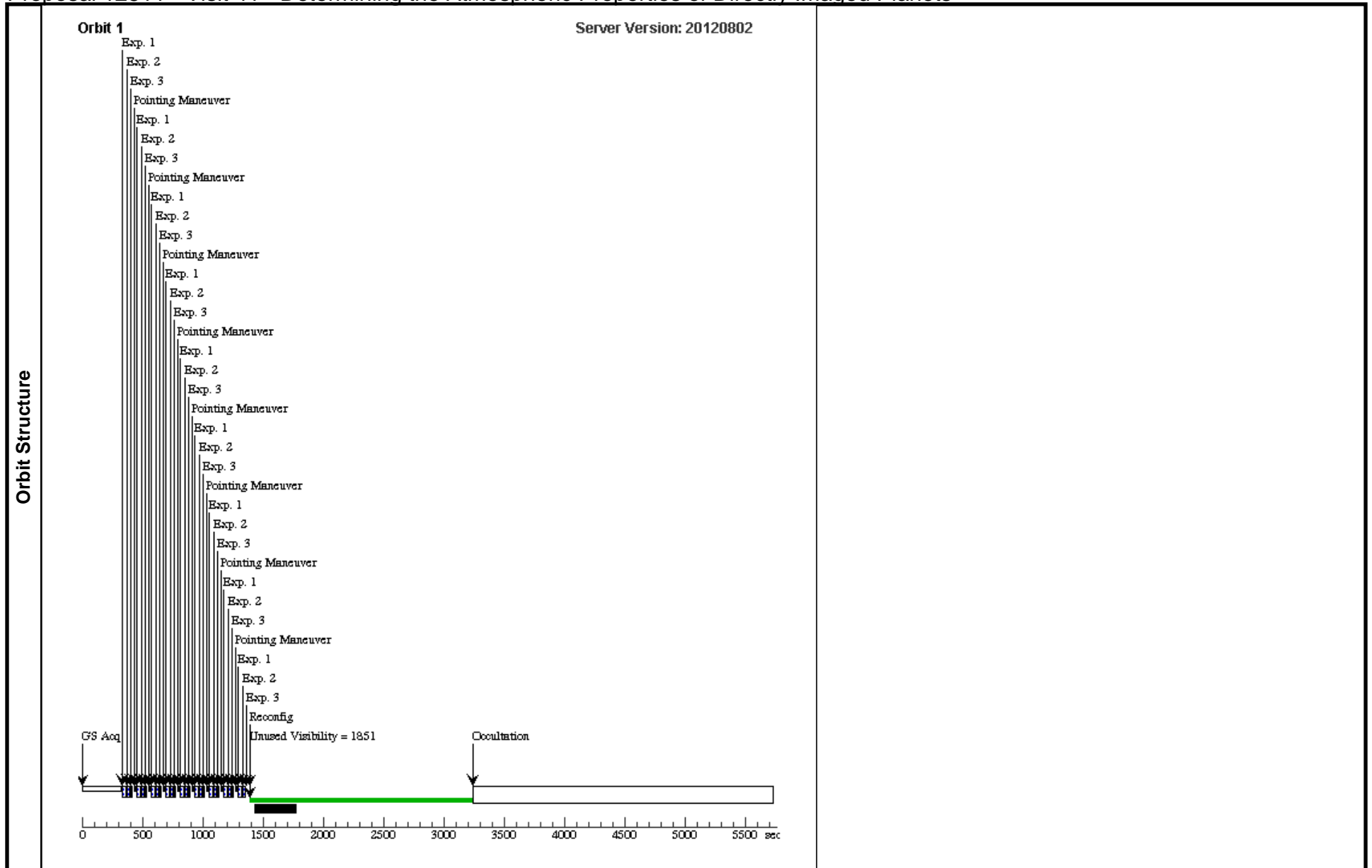
# Proposal 12511 - Visit 41 - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:27 GMT 2012

<b>Visit</b>	<p><b>Proposal 12511, Visit 41, completed</b></p> <p><b>Diagnostic Status: No Diagnostics</b></p> <p>Scientific Instruments: WFC3/IR</p> <p>Special Requirements: ORIENT 80.0D TO 80.0 D; GROUP 41,4A WITHIN 1 Orbits</p> <p>Comments: First half of orbit</p> <p><i>For the success of our proposal we require the inner 0".5 - 0".6 of the PSF saturate and have designed our exposures to ensure this. However given the poor quality of TINTYTIM PSFs we are uncertain about how precise our observations might be, and we are making use of this orbit to test the exposure time calculations.</i></p>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
(3)		Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
<p>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</p>						

Proposal 12511 - Visit 41 - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 41 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 41 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 41 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



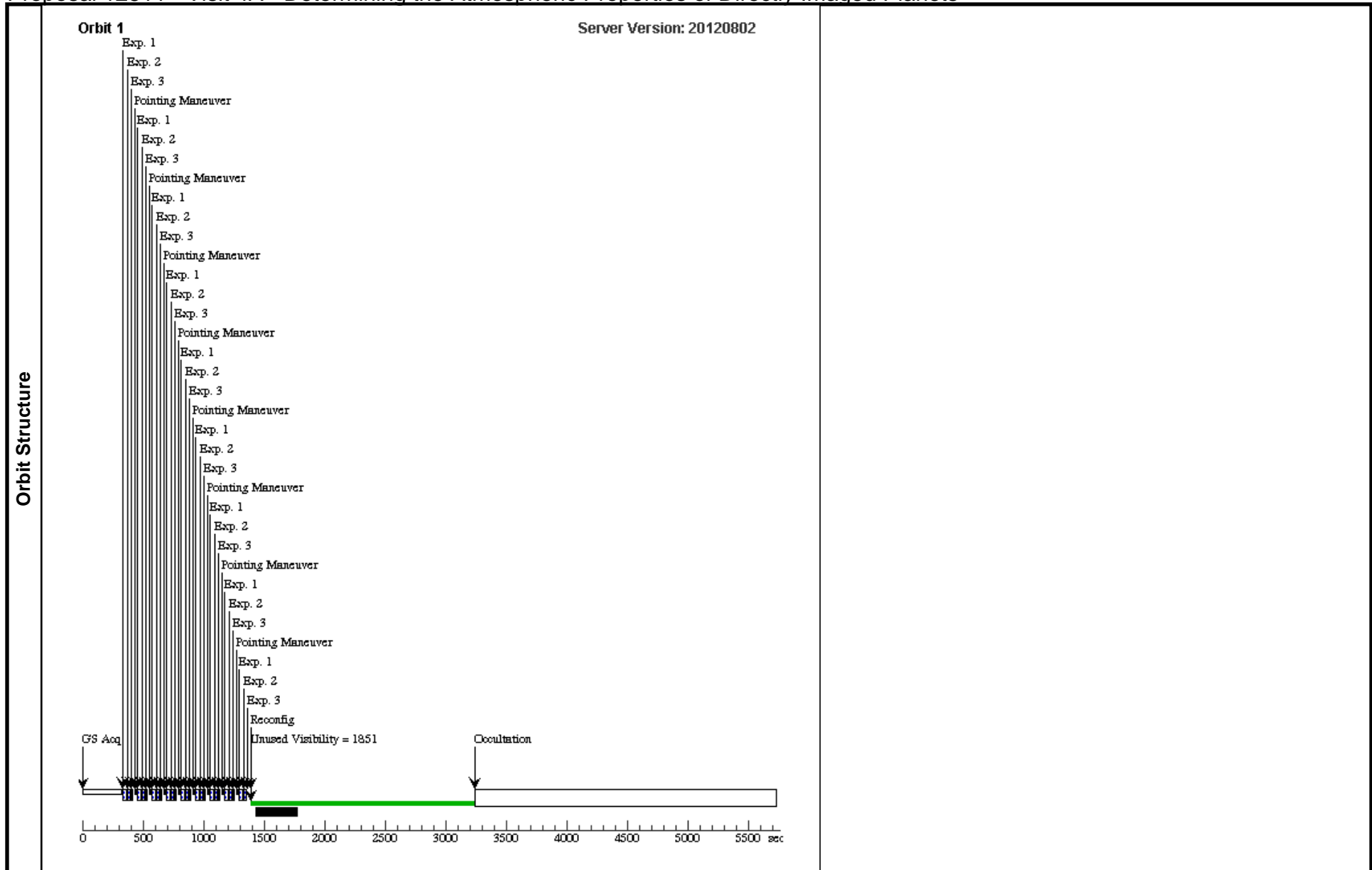
Proposal 12511 - Visit 4A - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:29 GMT 2012

<b>Visit</b>	<b>Proposal 12511, Visit 4A, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 89.99D TO 89.99 D Comments: <i>Second half of orbit</i>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	Comments: <i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 4A - Determining the Atmospheric Properties of Directly Imaged Planets

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
<b>Exposures</b>	1	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 4A (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]	
	2	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 4A (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]		[1]
	3	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 4A (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]		



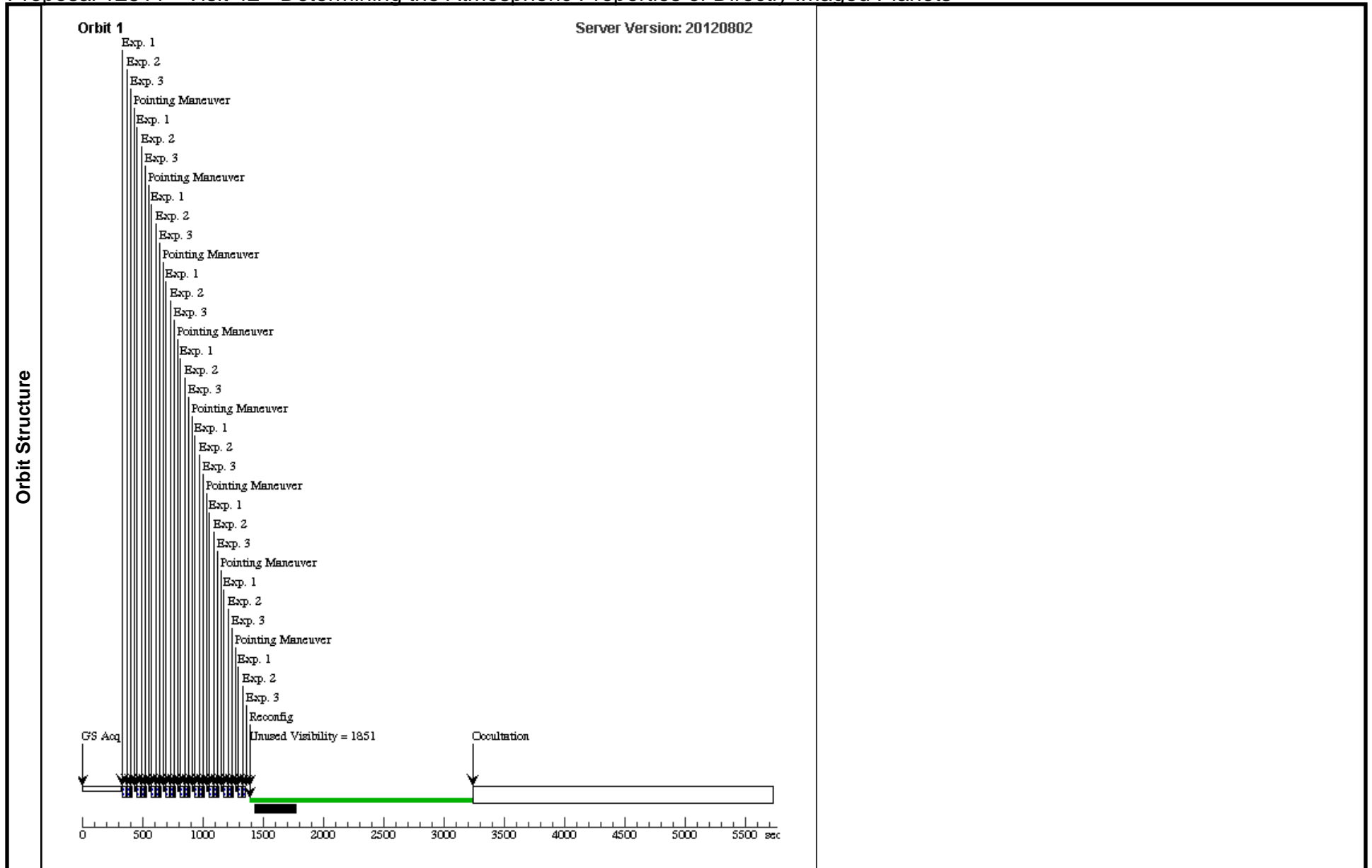
Proposal 12511 - Visit 42 - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:30 GMT 2012

<b>Visit</b>	<b>Proposal 12511, Visit 42, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 75D TO 75 D; GROUP 42,4B WITHIN 1 Orbits; GROUP 42,43,4B,4C WITHIN 2.1 Orbits <i>Comments: First half of orbit</i>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 42 - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9; GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-3 in Visit 42 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 42 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 42 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



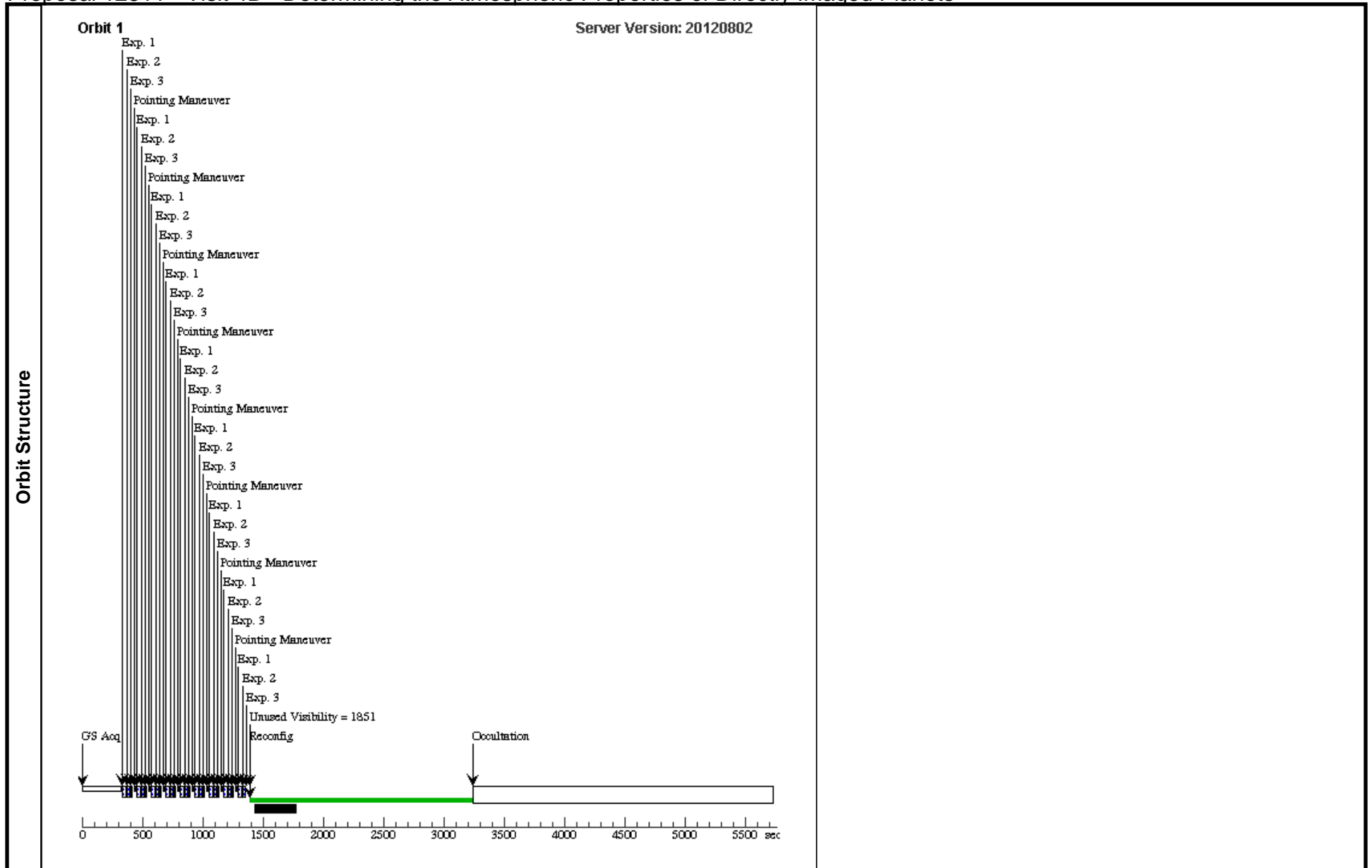
Proposal 12511 - Visit 4B - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:31 GMT 2012

<b>Visit</b>	<b>Proposal 12511, Visit 4B, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 65.1D TO 65.1 D <i>Comments: Second half of orbit</i>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 4B - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9; GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-3 in Visit 4B (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 4B (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 4B (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



Proposal 12511 - Visit 43 - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:32 GMT 2012

<b>Visit</b>	<b>Proposal 12511, Visit 43, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 55D TO 55 D; GROUP 43,4C WITHIN 1 Orbits <i>Comments: First half of orbit</i>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 43 - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9; GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-3 in Visit 43 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 43 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 43 (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]



Proposal 12511 - Visit 4C - Determining the Atmospheric Properties of Directly Imaged Planets

Wed Oct 10 01:32:33 GMT 2012

<b>Visit</b>	<b>Proposal 12511, Visit 4C, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 50D TO 50 D Comments: <i>Second half of orbit</i>					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(3)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=9 Point Spacing=0.0605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1-3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-V342-PEG	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000	Proper Motion RA: 107.93 mas/yr Proper Motion Dec: -49.63 mas/yr Epoch of Position: 2000.0	V=5.953+/-0.010	Reference Frame: ICRS
	Comments: <i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12511 - Visit 4C - Determining the Atmospheric Properties of Directly Imaged Planets

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
<b>Exposures</b>	1	F098M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F098M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9; GS ACQ SCENARIO BASE1B3	Pattern 3, Exps 1-3 in Visit 4C (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	2	F127M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F127M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 4C (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]
	3	F139M	(1) V-V342-PEG	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F139M	NSAMP=8; SAMP-SEQ=RAPID	POS TARG 3.9,3.9	Pattern 3, Exps 1-3 in Visit 4C (3)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)] [==>(Pattern 8)] [==>(Pattern 9)]	[1]

Orbit Structure

