



15118 - TESTING THE RELEVANCE OF MERGERS AND ENVIRONMENT FOR THE FASTEST GROWING BLACK HOLES IN THE MOST INTENSELY STAR FORMING GALAXIES

Cycle: 25, 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) VV2006-J033119.7-074142	WFC3/IR	1	17-Jul-2017 18:01:46.0	yes
07	(1) VV2006-J033119.7-074142	WFC3/IR	1	17-Jul-2017 18:01:48.0	yes
02	(2) SDSS-J134134.19+014157.7	WFC3/IR	1	17-Jul-2017 18:01:50.0	yes
08	(2) SDSS-J134134.19+014157.7	WFC3/IR	1	17-Jul-2017 18:01:51.0	yes
03	(3) VV2006-J151155.9+040802	WFC3/IR	1	17-Jul-2017 18:01:52.0	yes
09	(3) VV2006-J151155.9+040802	WFC3/IR	1	17-Jul-2017 18:01:53.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
04	(4) VV2006-J092303.5+024739	WFC3/IR	1	17-Jul-2017 18:01:54.0	yes
10	(4) VV2006-J092303.5+024739	WFC3/IR	1	17-Jul-2017 18:01:55.0	yes
05	(5) SDSS-J132853.65-022441.6	WFC3/IR	1	17-Jul-2017 18:01:56.0	yes
11	(5) SDSS-J132853.65-022441.6	WFC3/IR	1	17-Jul-2017 18:01:57.0	yes
06	(6) VV2006-J093508.5+080114	WFC3/IR	1	17-Jul-2017 18:01:58.0	yes
12	(6) VV2006-J093508.5+080114	WFC3/IR	1	17-Jul-2017 18:01:59.0	yes

12 Total Orbits Used

ABSTRACT

We propose a pilot study to explore the role of major galaxy mergers in shaping the early history of the largest super-massive black holes (SMBHs). We will use HST's high sensitivity and resolution to map the stellar content of the host galaxies and close environments of six very luminous QSOs at $z \sim 4.8$, for which we have obtained a rich collection of ground- and space-based data, including new ALMA data that probe the hosts' gas. Our previous analysis of these systems clearly shows fast SMBH and host galaxy growth, with some systems exhibiting extremely high star formation rates, $SFR > 2000 M_{\text{sol}}/\text{yr}$, suggestive of merger-driven activity. Our new ALMA data show evidence for mergers among some of the lower-SFR objects, while presenting no clear evidence for mergers among some of the extreme SFR sources. The deep HST/WFC3-IR imaging data will allow us to look for two types of merger indicators: (1) disturbed star-forming sub-structures within the host galaxies of the QSOs, and (2) close, possibly interacting companions. Thus, the proposed HST observations will provide the only missing ingredient in our long-term effort to identify the dominant mechanism driving the early epoch of SMBH-host (co-)evolution. If successful, the combined HST and ALMA effort will be extended to a larger sample, based on our on-going ALMA cycle-4 observations of 12 additional systems.

OBSERVING DESCRIPTION

We will observe six quasars at $z \sim 4.8$ using WFC3/IR, with the goal of detecting the host galaxies of the quasars, as well as companion (interacting) galaxies across the WFC3/IR FoV. In particular, we are interested in several companion galaxies detected in our ALMA data (in three of the targets). We stress that the bright quasar targets themselves are not the primary science drivers, and so some (mild) saturation in the peak pixels would not jeopardize our science.

Proposal 15118 (STScI Edit Number: 0, Created: Monday, July 17, 2017 5:02:00 PM EST) - Overview

Each target will be observed for 2 orbits, using a single filter (F140W).

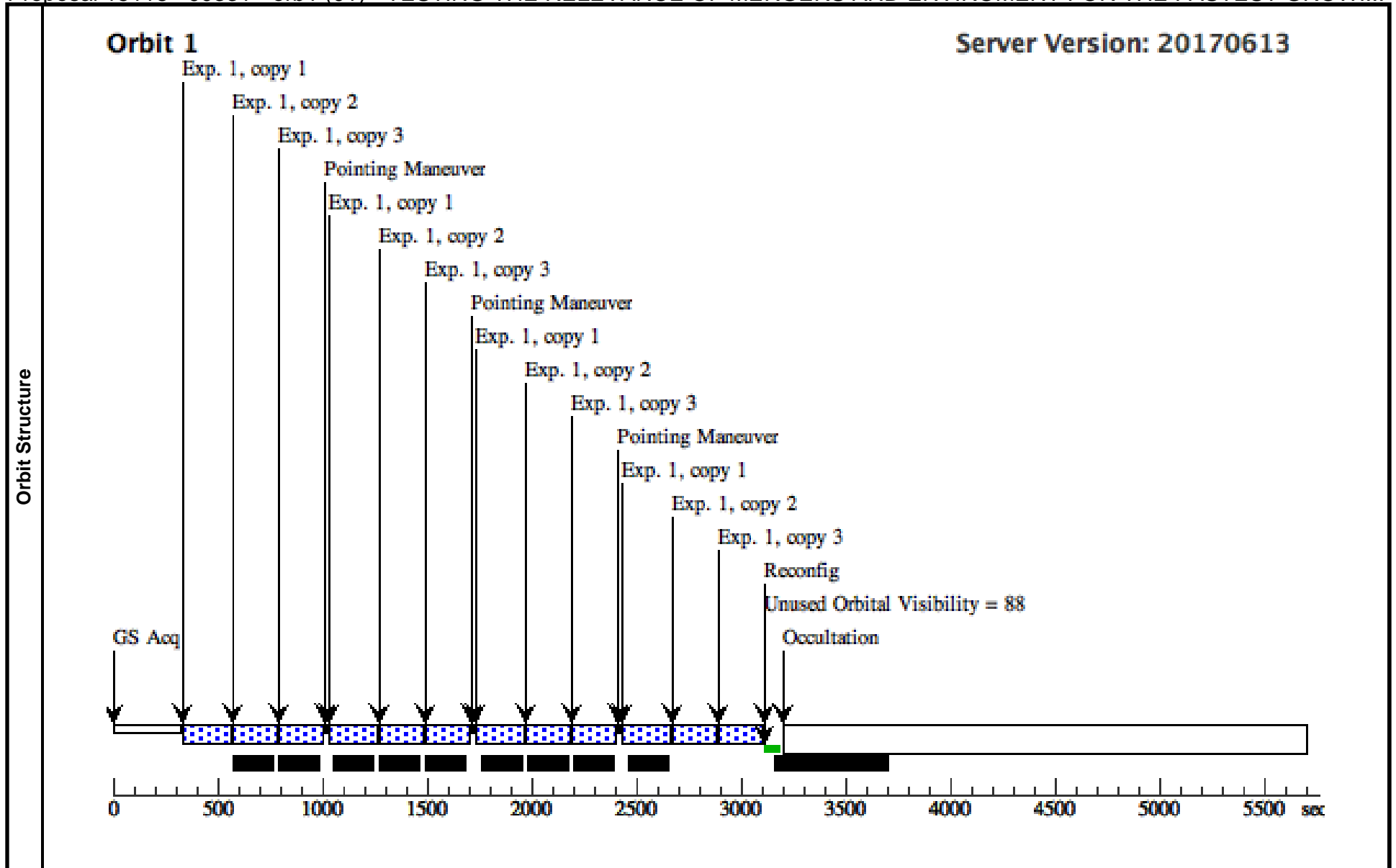
We will use a 4-position "box" dithering pattern in order to be able to fully sample the PSF, and to use MultiDrizzle/DrizzlePac to improve the resolution of the final imaging data products.

We will use the "STEP100" log-linear-readout sequence mode, in each dithered position, to ensure that the PSF is properly sampled (given the brightness of the quasar point-like sources). Each of these sequences will last about 300 sec, except for the two brighter targets, where the sequence will last 200s. With appropriate number of iterations over the dithering patterns, we will have 2400 seconds of exposure time per orbit. Each target will thus be observed for about 4800 seconds over the two orbits (visits) devoted to it.

Proposal 15118 - J0331 - orb1 (01) - TESTING THE RELEVANCE OF MERGERS AND ENVIROMENT FOR THE FASTEST GROWI...

Mon Jul 17 22:02:00 GMT 2017

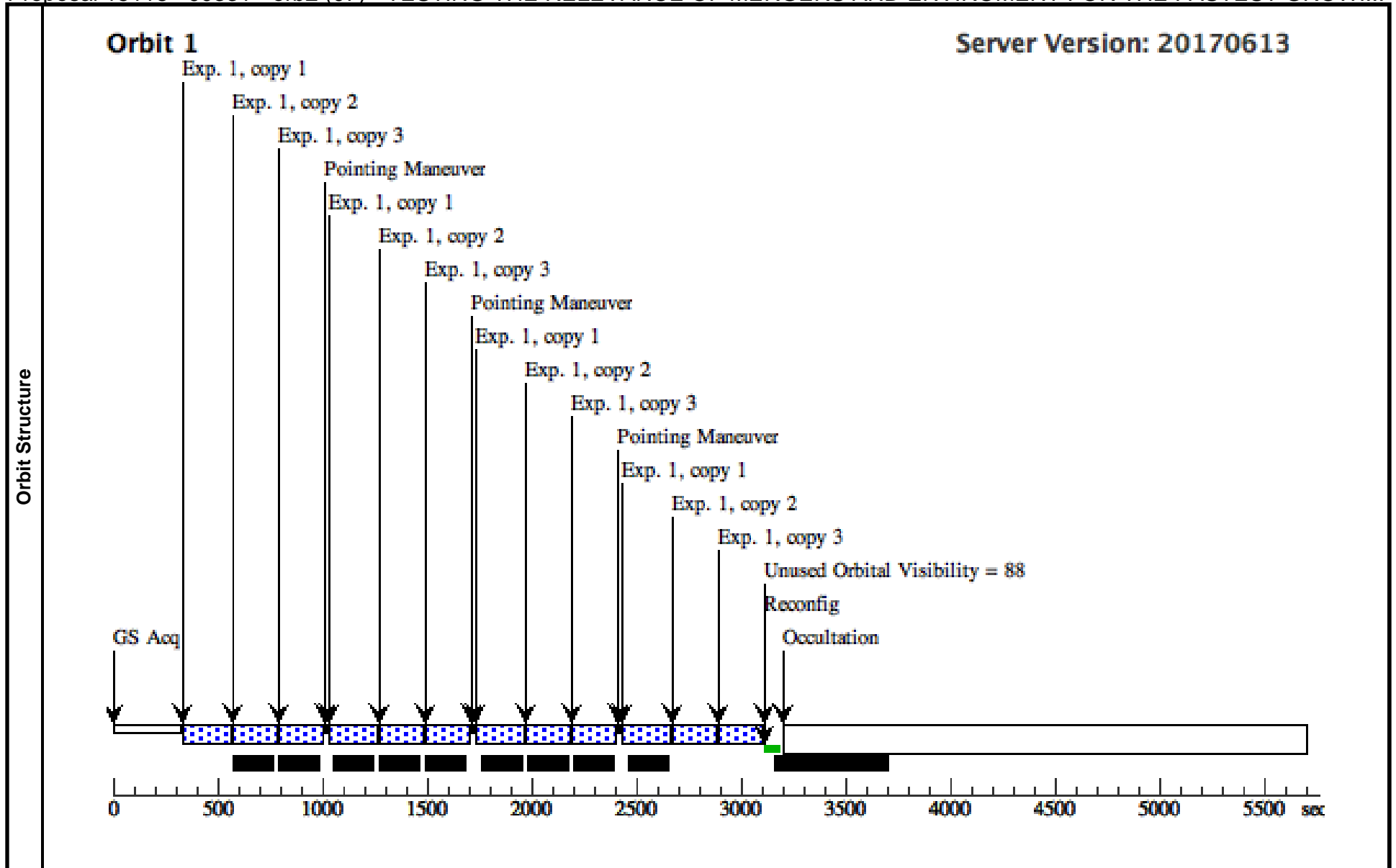
Visit	Proposal 15118, J0331 - orb1 (01), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	VV2006-J033119.7-074142	RA: 03 31 19.6661 (52.8319421d) Dec: -07 41 43.07 (-7.69530d) Equinox: J2000		V=22.92 i=19.12, z=19.084 (AB, SDSS), [Herschel]	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Extended=NO										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J0331 - H	(1) VV2006-J033119.7-074142	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=8; SAMP-SEQ=STEP100	POS TARG null,-5	Pattern 1, Exps 1-1 in J0331 - orb1 (01) (1)	199.231 Secs X 3 (2390.772 Secs)	[1]
									[==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)]	



Proposal 15118 - J0331 - orb2 (07) - TESTING THE RELEVANCE OF MERGERS AND ENVIROMENT FOR THE FASTEST GROWI...

Mon Jul 17 22:02:00 GMT 2017

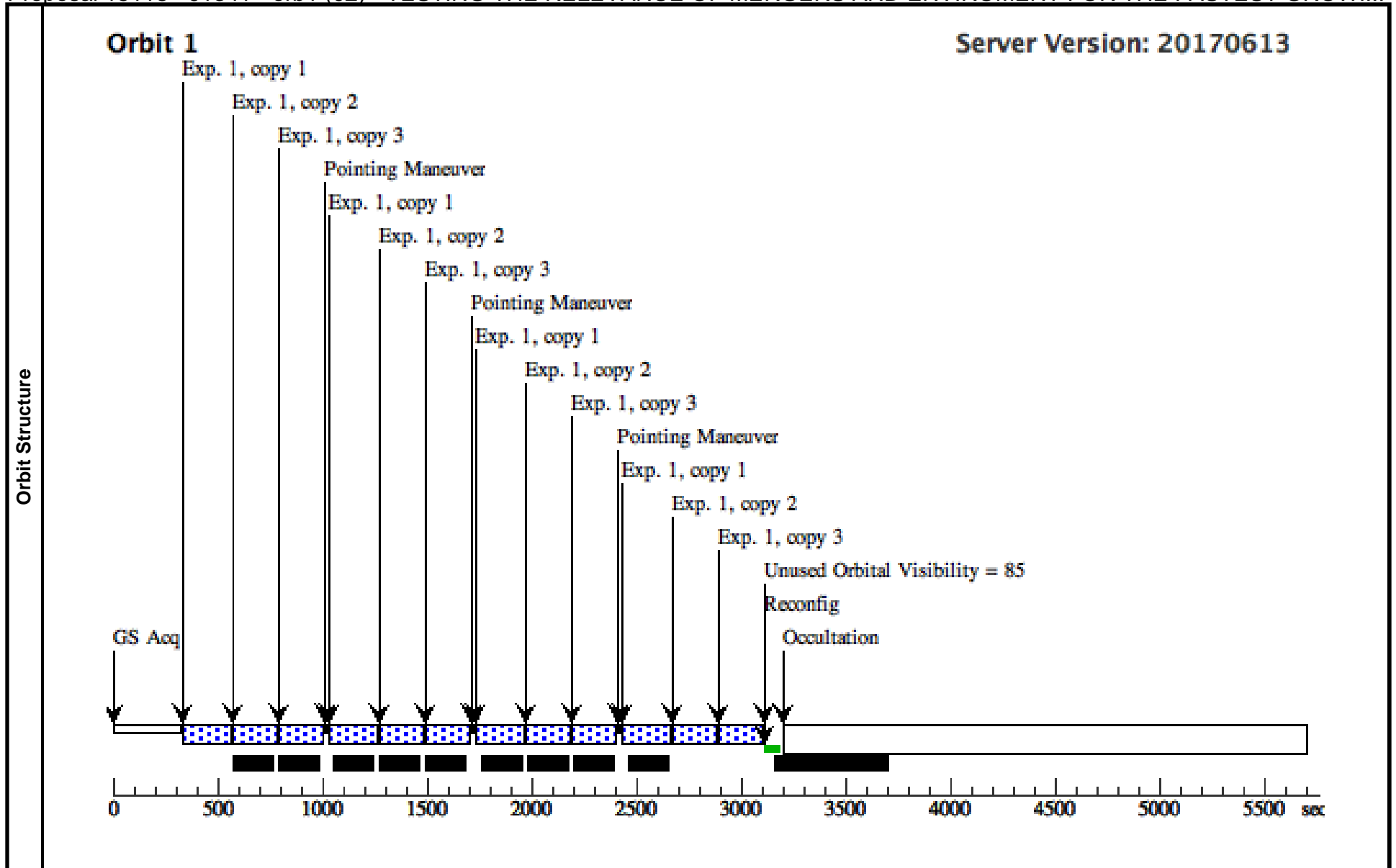
Visit	Proposal 15118, J0331 - orb2 (07), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	VV2006-J033119.7-074142	RA: 03 31 19.6661 (52.8319421d) Dec: -07 41 43.07 (-7.69530d) Equinox: J2000		V=22.92 i=19.12, z=19.084 (AB, SDSS), [Herschel]	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Extended=NO										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J0331 - H	(1) VV2006-J033119.7-074142	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=8; SAMP-SEQ=STEP100	POS TARG null,-5	Pattern 1, Exps 1-1 in J0331 - orb2 (07) (1)	199.231 Secs X 3 (2390.772 Secs)	[1]
									[==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)]	



Proposal 15118 - J1341 - orb1 (02) - TESTING THE RELEVANCE OF MERGERS AND ENVIROMENT FOR THE FASTEST GROWI...

Mon Jul 17 22:02:00 GMT 2017

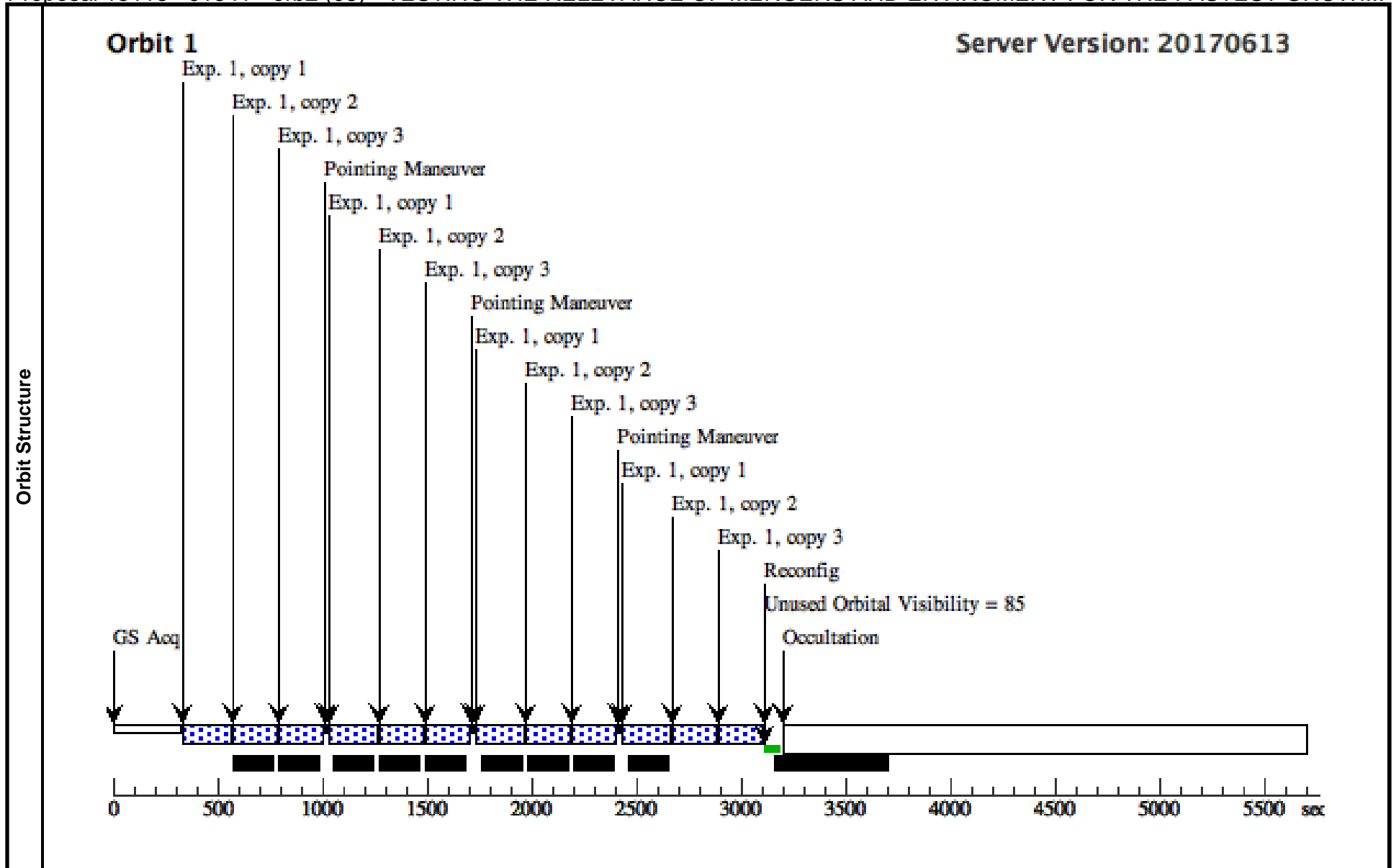
Visit	Proposal 15118, J1341 - orb1 (02), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	SDSS-J134134.19+014157.7	RA: 13 41 34.1966 (205.3924858d) Dec: +01 41 57.68 (1.69936d) Equinox: J2000		V=21.74 i = 18.91, z=18.8 (AB, SDSS), [Herschel]	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> Extended=NO										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J1341 - H	(2) SDSS-J134134.19+014157.7	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=8; SAMP-SEQ=STEP100			Pattern 1, Exps 1-1 in J1341 - orb1 (02) (1)	199.231 Secs X 3 (2390.772 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)]



Proposal 15118 - J1341 - orb2 (08) - TESTING THE RELEVANCE OF MERGERS AND ENVIROMENT FOR THE FASTEST GROWI...

Mon Jul 17 22:02:00 GMT 2017

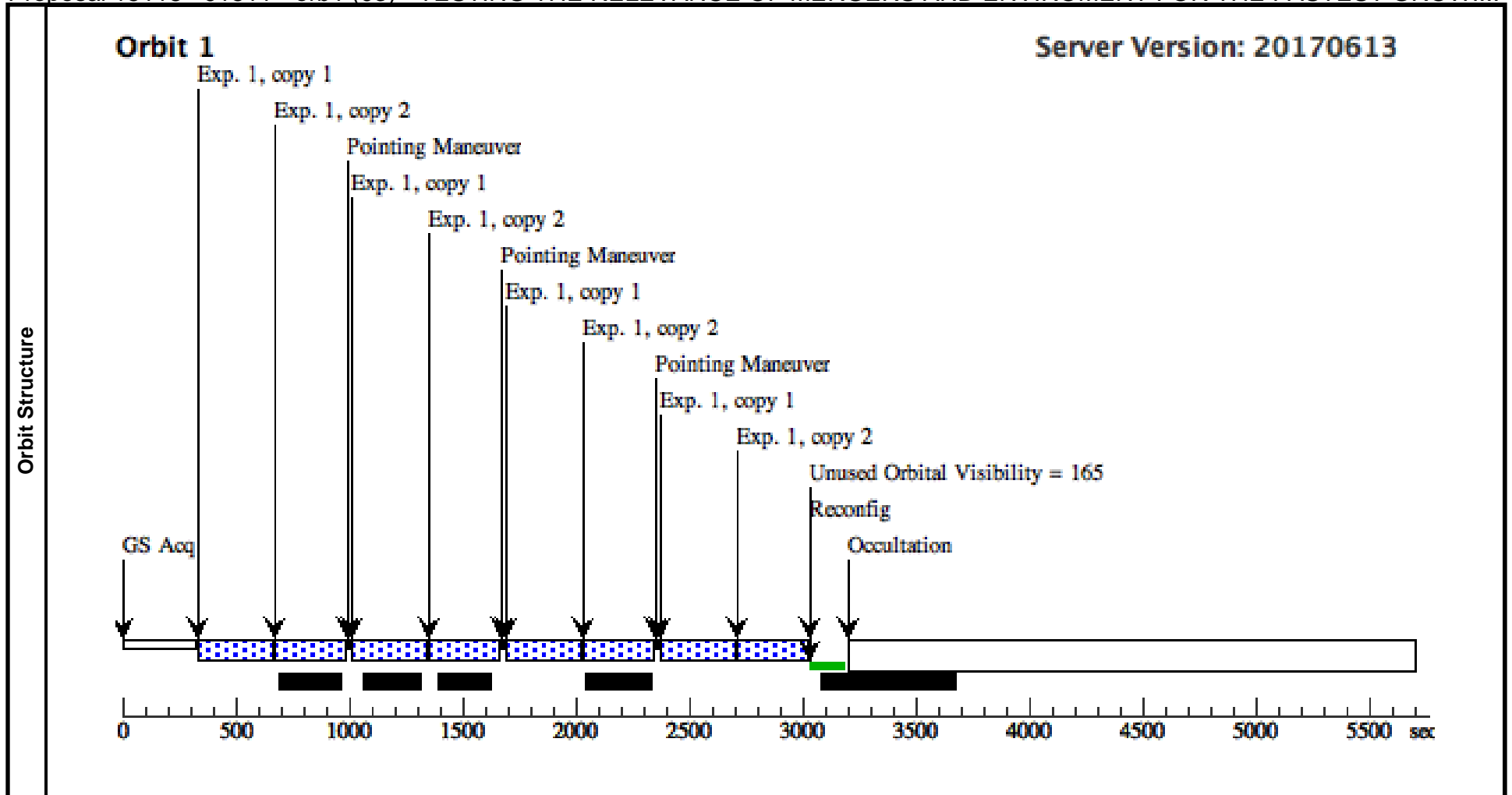
Visit	Proposal 15118, J1341 - orb2 (08), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	SDSS-J134134.19+014157.7	RA: 13 41 34.1966 (205.3924858d) Dec: +01 41 57.68 (1.69936d) Equinox: J2000		V=21.74 i = 18.91, z=18.8 (AB, SDSS), [Herschel]	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> Extended=NO										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J1341 - H	(2) SDSS-J134134.19+014157.7	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=8; SAMP-SEQ=STEP100			Pattern 1, Exps 1-1 in J1341 - orb2 (08) (1)	199.231 Secs X 3 (2390.772 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)]



Proposal 15118 - J1511 - orb1 (03) - TESTING THE RELEVANCE OF MERGERS AND ENVIROMENT FOR THE FASTEST GROWI...

Mon Jul 17 22:02:00 GMT 2017

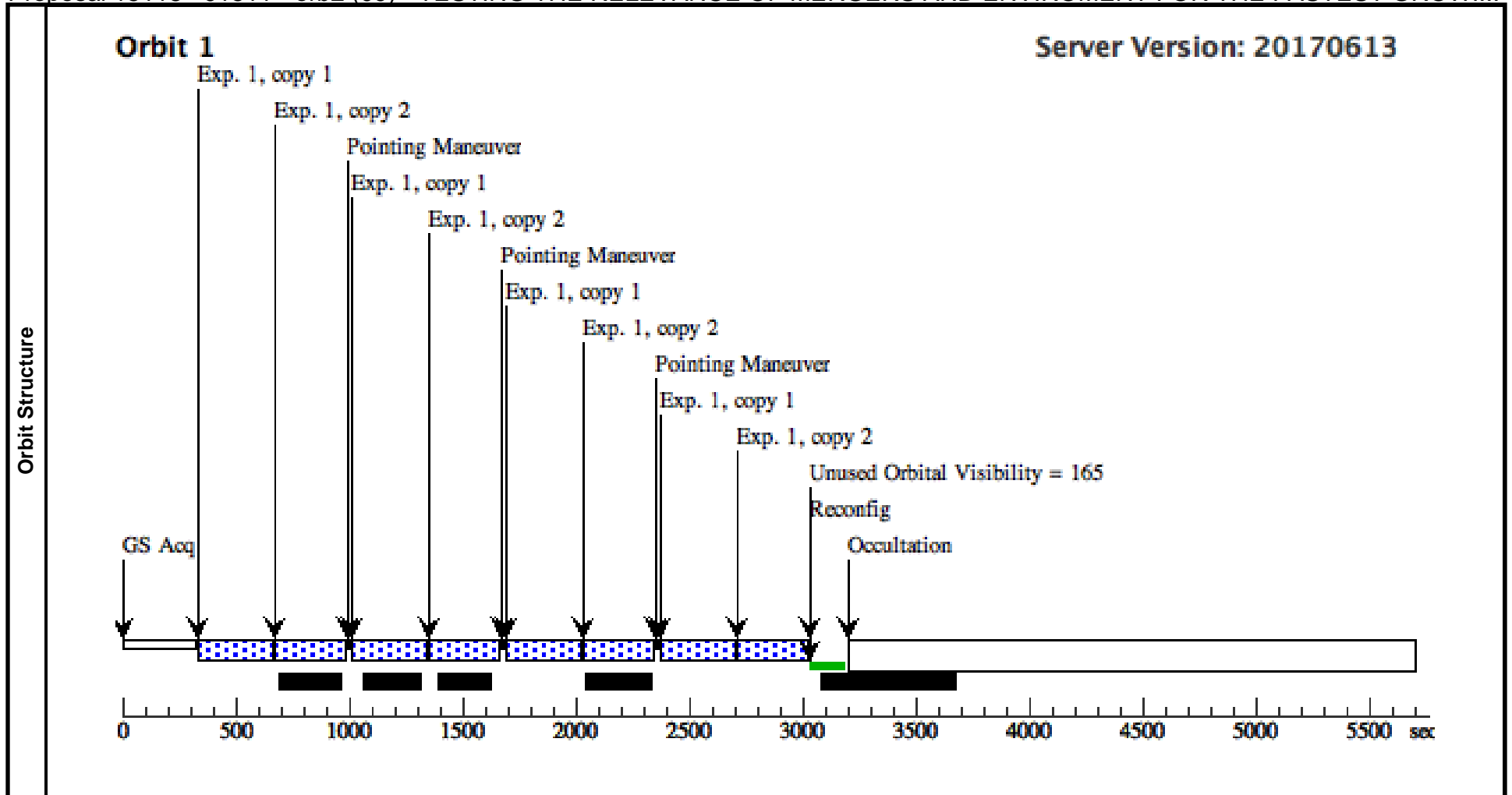
Visit	Proposal 15118, J1511 - orb1 (03), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	VV2006-J151155.9+040802	RA: 15 11 55.9745 (227.9832271d) Dec: +04 08 2.98 (4.13416d) Equinox: J2000		V=22.65 i=19.57, z=19.39 (AB, SDSS), J=18.82 (Vega)	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Extended=NO										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J1511 - H	(3) VV2006-J151155.9+040802	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=9; SAMP-SEQ=STEP100		Pattern 1, Exps 1-1 in J1511 - orb1 (03) (1)	299.231323 Secs X 2 (2393.851 Secs)	[1]
									[==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)]	



Proposal 15118 - J1511 - orb2 (09) - TESTING THE RELEVANCE OF MERGERS AND ENVIROMENT FOR THE FASTEST GROWI...

Mon Jul 17 22:02:00 GMT 2017

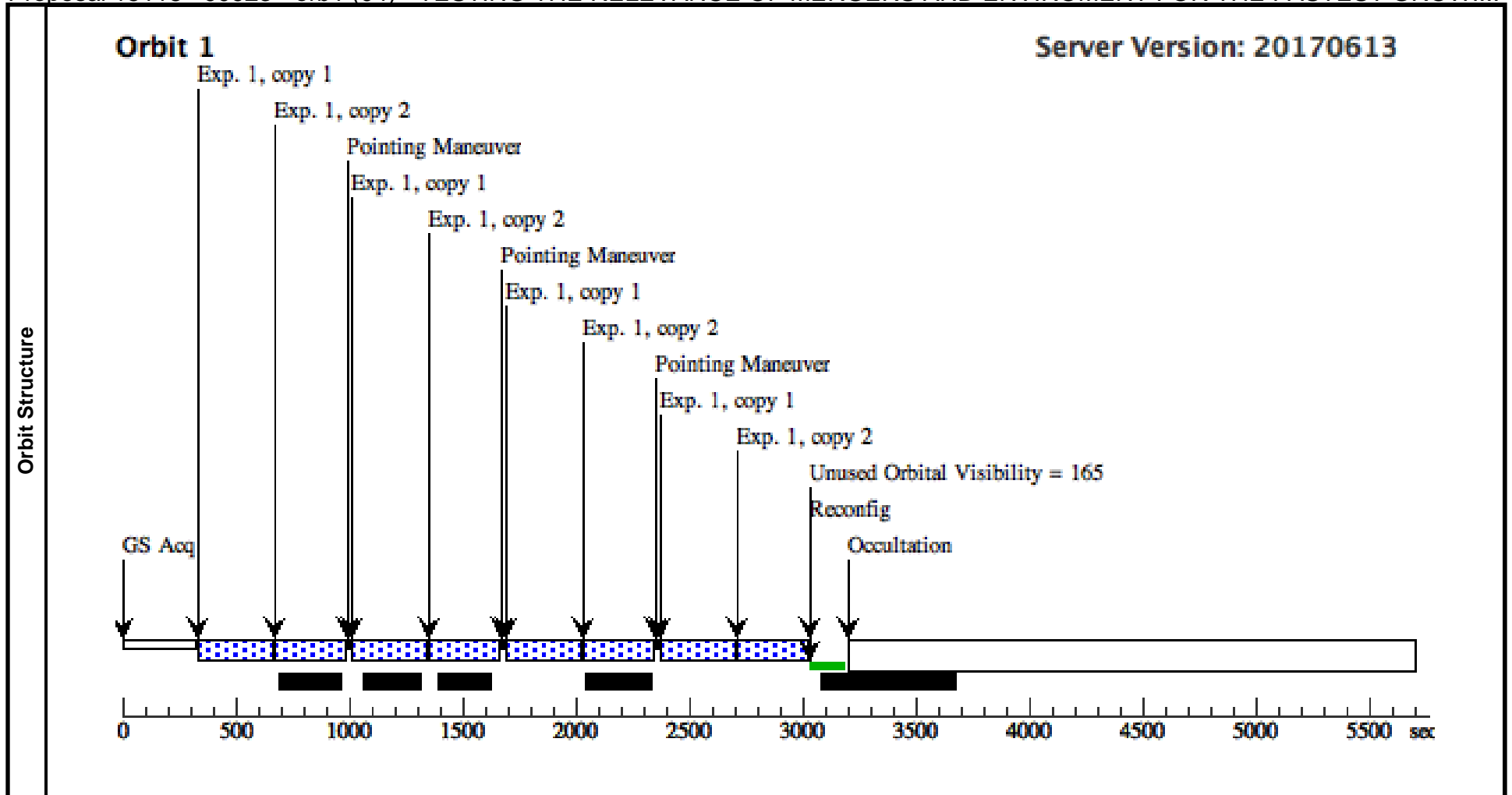
Visit	Proposal 15118, J1511 - orb2 (09), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	VV2006-J151155.9+040802	RA: 15 11 55.9745 (227.9832271d) Dec: +04 08 2.98 (4.13416d) Equinox: J2000		V=22.65 i=19.57, z=19.39 (AB, SDSS), J=18.82 (Vega)	Reference Frame: SIMBAD				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Extended=NO									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J1511 - H	(3) VV2006-J151155.9+040802	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=9; SAMP-SEQ=STEP100		Pattern 1, Exps 1-1 in J1511 - orb2 (09) (1)	299.231323 Secs X 2 (2393.851 Secs)	[1]
									[==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)]	



Proposal 15118 - J0923 - orb1 (04) - TESTING THE RELEVANCE OF MERGERS AND ENVIROMENT FOR THE FASTEST GROWI...

Mon Jul 17 22:02:00 GMT 2017

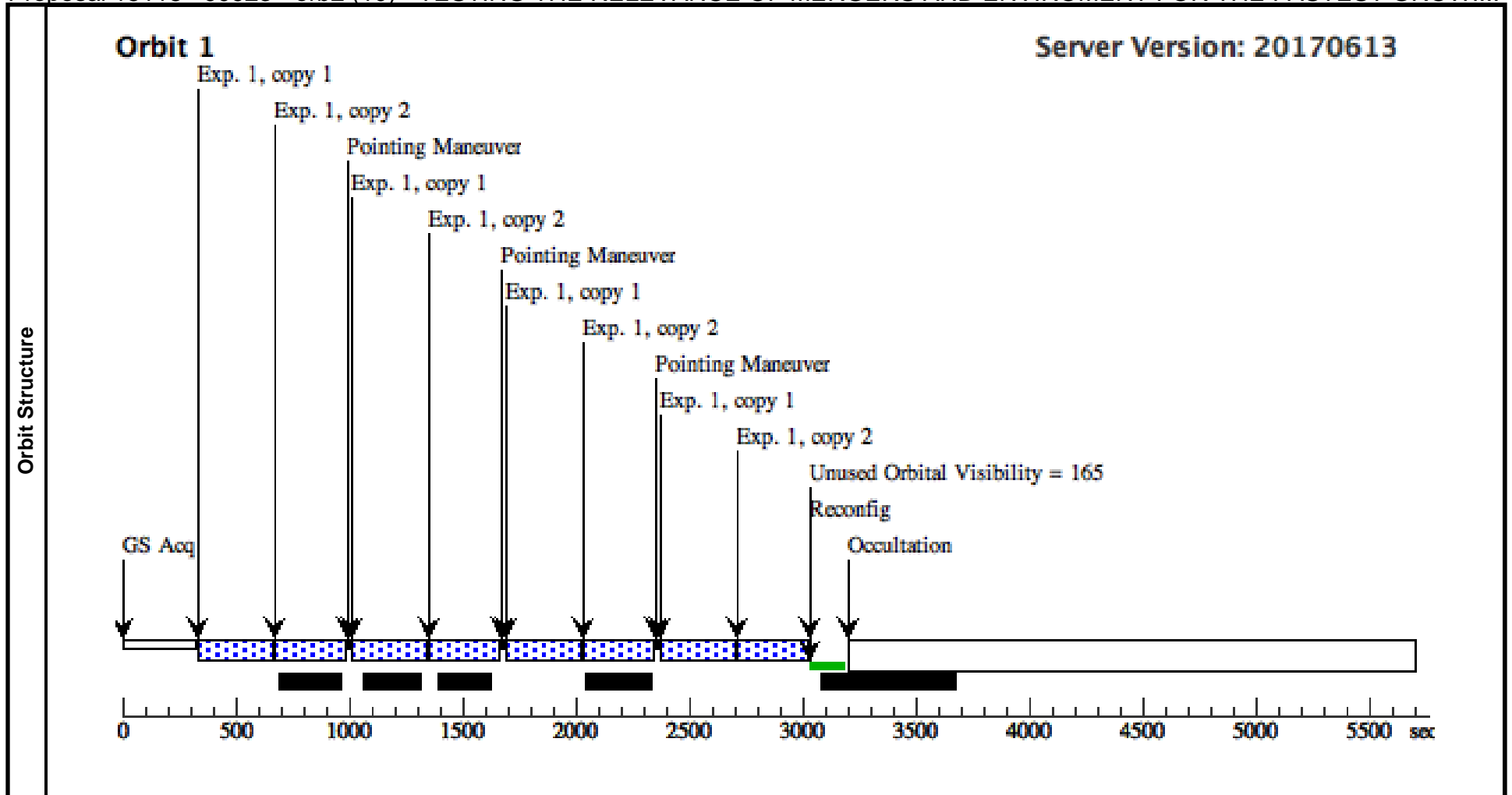
Visit	Proposal 15118, J0923 - orb1 (04), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	VV2006-J092303.5+024739	RA: 09 23 3.5369 (140.7647371d) Dec: +02 47 39.49 (2.79430d) Equinox: J2000		V=22.82 i=20.18, z=19.83 (AB, SDSS), J=19.897 (AB)	Reference Frame: SIMBAD				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Extended=NO									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J0923 - H	(4) VV2006-J092303.5+024739	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=9; SAMP-SEQ=STEP100		Pattern 1, Exps 1-1 in J0923 - orb1 (04) (1)	299.231323 Secs X 2 (2393.851 Secs)	[1]
									[==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)]	



Proposal 15118 - J0923 - orb2 (10) - TESTING THE RELEVANCE OF MERGERS AND ENVIROMENT FOR THE FASTEST GROWI...

Mon Jul 17 22:02:01 GMT 2017

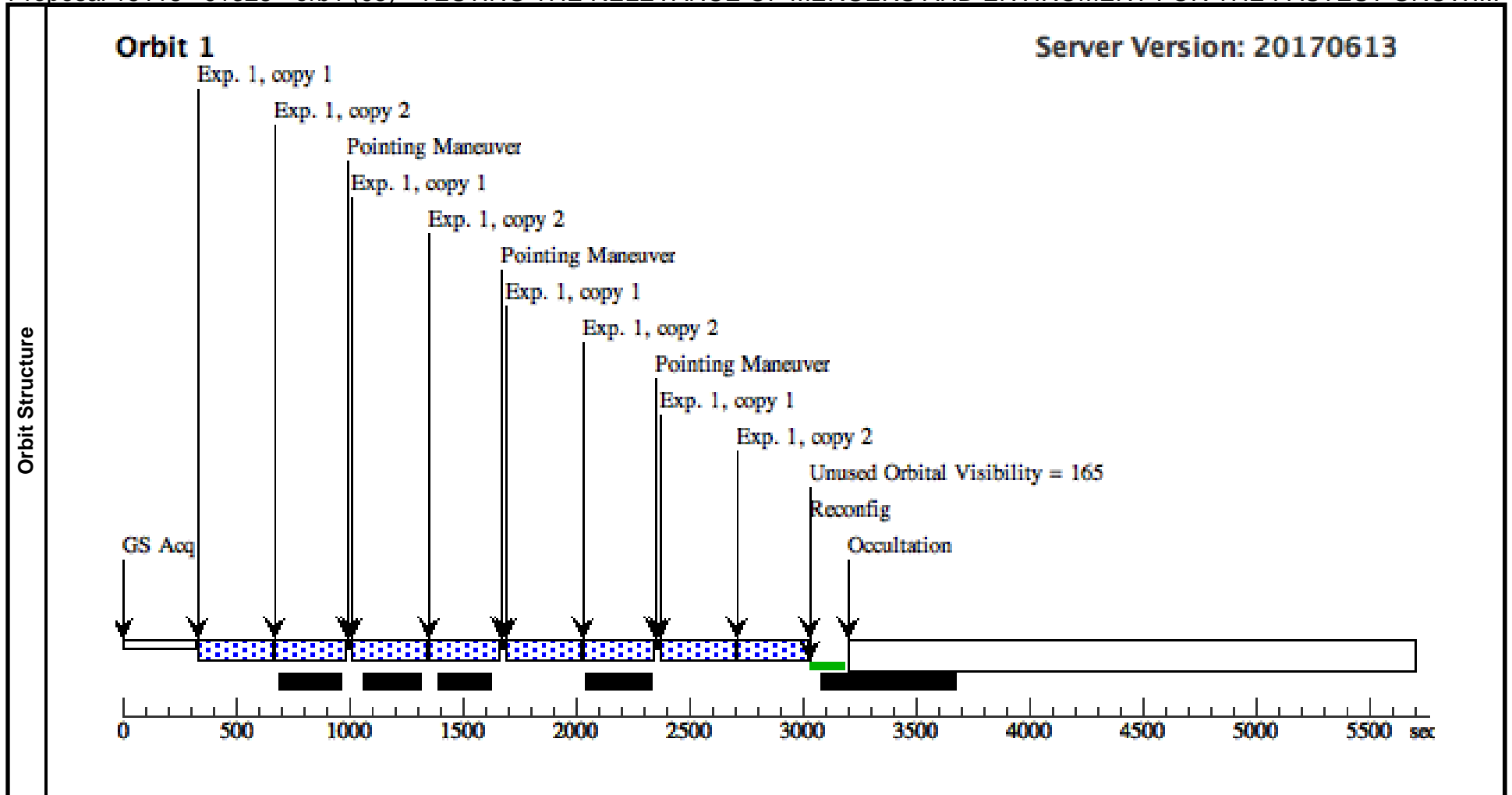
Visit	Proposal 15118, J0923 - orb2 (10), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	VV2006-J092303.5+024739	RA: 09 23 3.5369 (140.7647371d) Dec: +02 47 39.49 (2.79430d) Equinox: J2000		V=22.82 i=20.18, z=19.83 (AB, SDSS), J=19.897 (AB)	Reference Frame: SIMBAD				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Extended=NO									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J0923 - H	(4) VV2006-J092303.5+024739	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=9; SAMP-SEQ=STEP100			Pattern 1, Exps 1-1 in J0923 - orb2 (10) (1)	299.231323 Secs X 2 (2393.851 Secs)
									[==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)]	



Proposal 15118 - J1328 - orb1 (05) - TESTING THE RELEVANCE OF MERGERS AND ENVIROMENT FOR THE FASTEST GROWI...

Mon Jul 17 22:02:01 GMT 2017

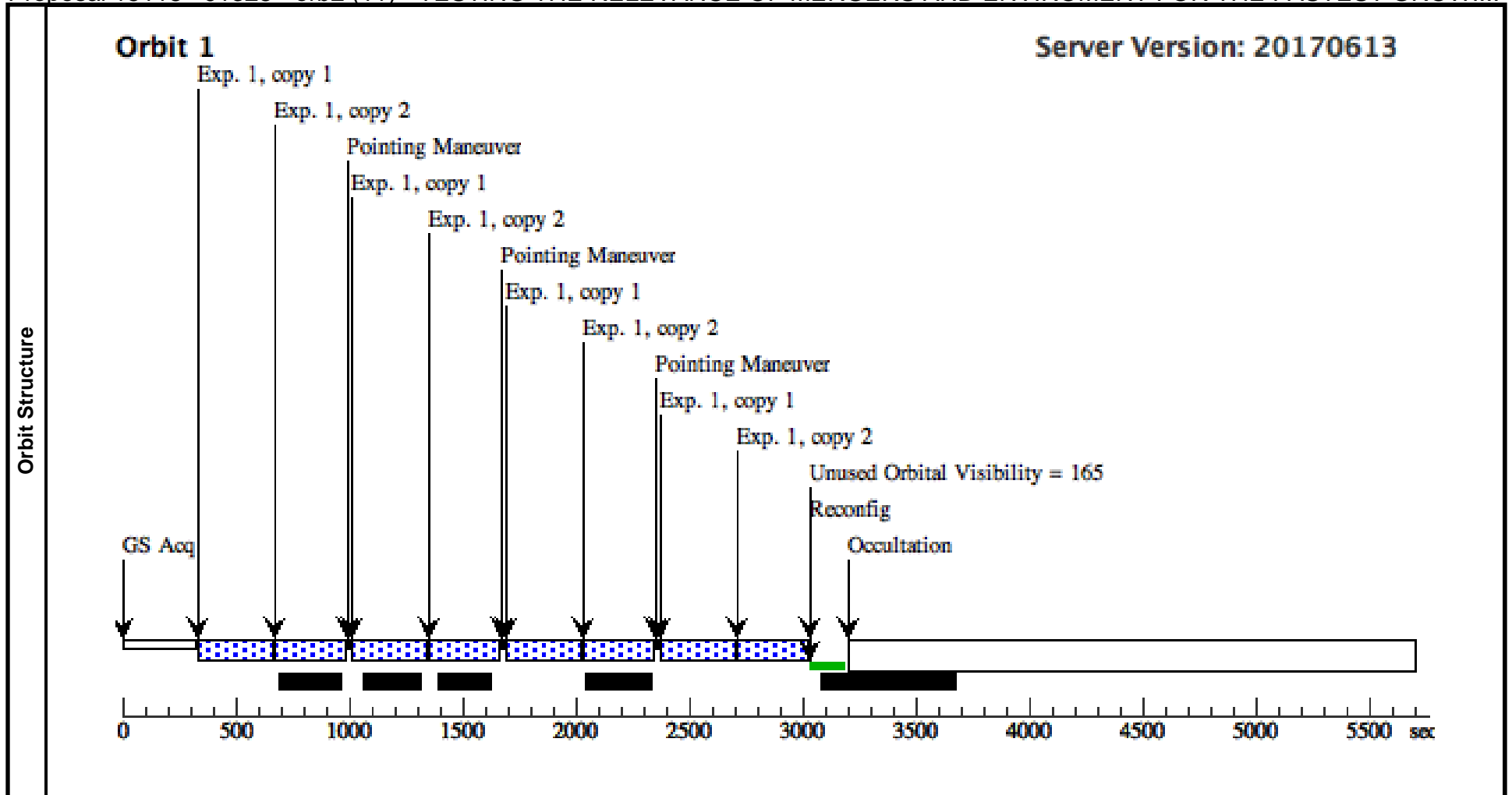
Visit	Proposal 15118, J1328 - orb1 (05), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	SDSS-J132853.65-022441.6	RA: 13 28 53.6640 (202.2236000d) Dec: -02 24 41.69 (-2.41158d) Equinox: J2000		V=22.67 i=19.797, z=19.59 (AB, SDSS)	Reference Frame: NED				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> Extended=NO									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J1328 - H	(5) SDSS-J132853.65-022441.6	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=9; SAMP-SEQ=STEP100		Pattern 1, Exps 1-1 in J1328 - orb1 (05) (1)	299.231323 Secs X 2 (2393.851 Secs)	[==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)]



Proposal 15118 - J1328 - orb2 (11) - TESTING THE RELEVANCE OF MERGERS AND ENVIROMENT FOR THE FASTEST GROWI...

Mon Jul 17 22:02:01 GMT 2017

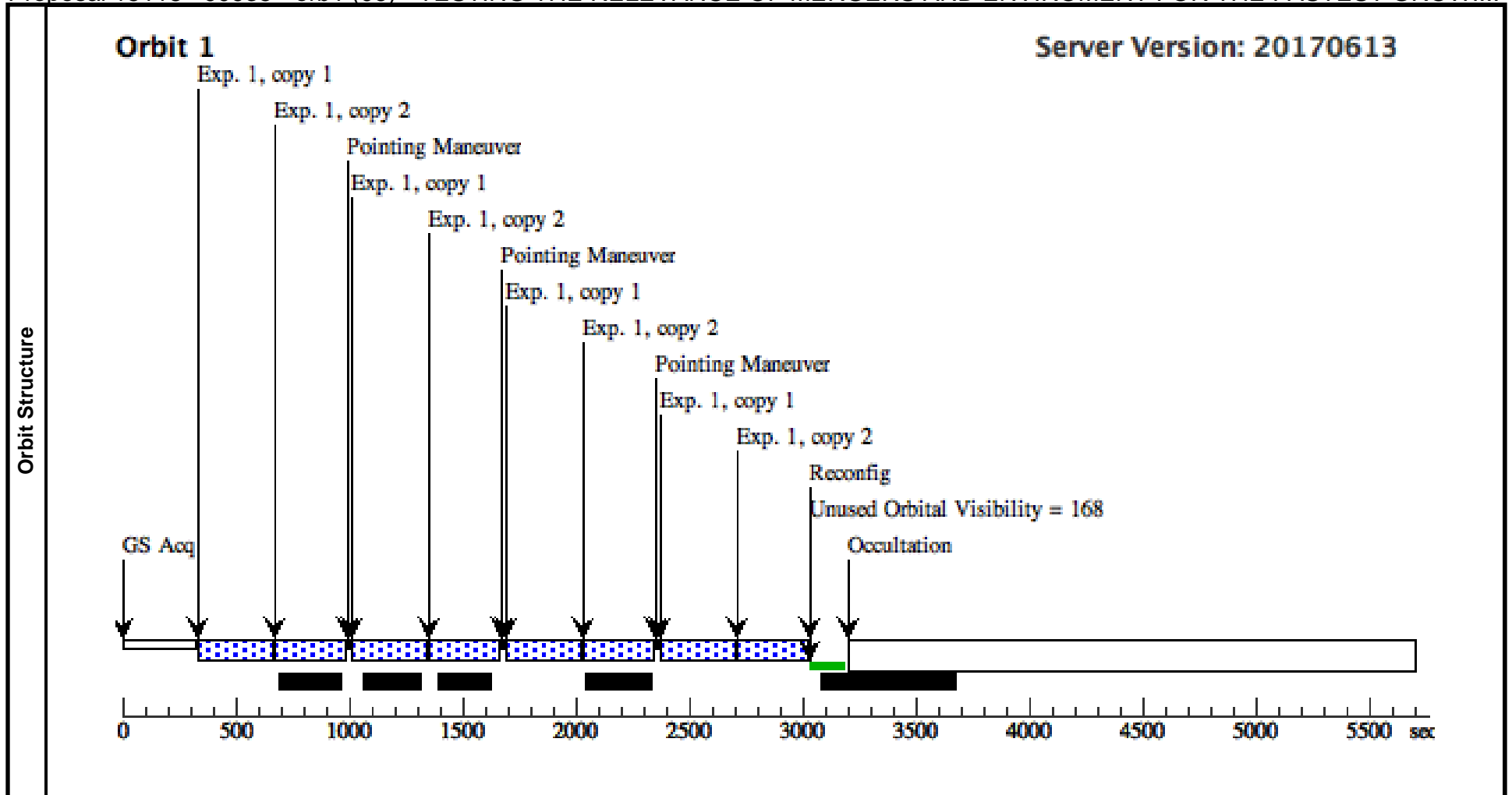
Visit	Proposal 15118, J1328 - orb2 (11), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	SDSS-J132853.65-022441.6	RA: 13 28 53.6640 (202.2236000d) Dec: -02 24 41.69 (-2.41158d) Equinox: J2000		V=22.67 i=19.797, z=19.59 (AB, SDSS)	Reference Frame: NED				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> Extended=NO									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J1328 - H	(5) SDSS-J132853.65-022441.6	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=9; SAMP-SEQ=STEP100		Pattern 1, Exps 1-1 in J1328 - orb2 (11) (1)	299.231323 Secs X 2 (2393.851 Secs)	[1]
								[==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)]		



Proposal 15118 - J0935 - orb1 (06) - TESTING THE RELEVANCE OF MERGERS AND ENVIROMENT FOR THE FASTEST GROWI...

Mon Jul 17 22:02:01 GMT 2017

Visit	Proposal 15118, J0935 - orb1 (06), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	VV2006-J093508.5+080114	RA: 09 35 8.5007 (143.7854196d) Dec: +08 01 14.39 (8.02066d) Equinox: J2000		V=22.37 i=19.72, z=19.48 (AB, SDSS), J=19.374 (AB)	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Extended=NO</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J0935 - H	(6) VV2006-J093508.5+080114	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=9; SAMP-SEQ=STEP100			Pattern 1, Exps 1-1 in J0935 - orb1 (06) (1)	299.231323 Secs X 2 (2393.851 Secs)
									[==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)]	



Proposal 15118 - J0935 - orb2 (12) - TESTING THE RELEVANCE OF MERGERS AND ENVIROMENT FOR THE FASTEST GROWI...

Mon Jul 17 22:02:01 GMT 2017

Visit	Proposal 15118, J0935 - orb2 (12), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	VV2006-J093508.5+080114	RA: 09 35 8.5007 (143.7854196d) Dec: +08 01 14.39 (8.02066d) Equinox: J2000		V=22.37 i=19.72, z=19.48 (AB, SDSS), J=19.374 (AB)	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Extended=NO										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J0935 - H	(6) VV2006-J093508.5+080114	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=9; SAMP-SEQ=STEP100			Pattern 1, Exps 1-1 in J0935 - orb2 (12) (1)	299.231323 Secs X 2 (2393.851 Secs)
									[==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)]	

