12230 - The effect of radiation forcing on an exoplanet atmosphere

Cycle: 18, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

Name	*Institution*	*E-Mail*
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VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) WASP-12 (2) HD-258439	WFC3/IR	7	10-Jul-2010 01:13:07.0	yes
02	(1) WASP-12 (2) HD-258439	WFC3/IR	7	10-Jul-2010 01:28:12.0	yes
03	(1) WASP-12 (2) HD-258439	WFC3/IR	4	10-Jul-2010 01:37:55.0	yes

18 Total Orbits Used

ABSTRACT

We propose to determine the effects of radiation forcing by the stellar primary on the atmosphere of the hot-Jupiter exoplanet WASP-12b using WFC3 near-IR spectroscopy. We will accomplish this by obtaining a completely unique data set consisting of the emission spectra sequence from the dayside, terminator, and nightside regions of the exoplanet's atmosphere. In addition we will obtain the terminator region transmission spectrum; the combination of emission and transmission spectra will be used to help resolve the temperature/composition ambiguity present in interpreting

emission spectra. The wavelength range we have selected, 1.1 to 1.7 microns, includes features from H2O, CH4, and CO2 – all of which have been detected in this wavelength range in the hot-Jupiter XO-1b with Hubble. The molecules H2O, CH4, and CO2 have been detected in three hot-Jupiter exoplanets to date; we expect to use these molecules as probes of the temperature and composition of the atmosphere of WASP-12b in the dayside, terminator, and nightside regions and thus determine the role of powerful radiation forcing on this exoplanet.

OBSERVING DESCRIPTION

Visits = 3

The visits have an individual science objective and a combined one.

(1) For the combined science objective, we include the observation of a calibrator source (HD 258439) at the end of each exoplanet host system observation (WASP-12). The science and calibrator observations should be executed as a continuous series of either 7 or 4 orbits in total. The objective is to obtain the best possible spectro-photometric calibration of the exoplanet host system in respect to the calibrator source which will enable a completely unique "following around the orbit" of an exoplanet and thus deriving the longitudinal spectroscopic changes of the atmosphere.

(2) for the individual science case, the exoplanet host system is followed constinuously over 5 or 2 orbits at different orbital phases in three visits. The visits are scheduled such that the third orbit is covering the secondary or primary eclipse event for the visits consisting in total of 7 orbits (5 on the exoplanet system). The visit covering 4 orbits is sceduled such that the 2 exoplanet orbits cover the epoch in between transit and secondary eclipse.

The observations always start with the exoplanet orbits and in the first orbit, a direct image is taken to establish wavelength calibration for the later G141 GRISM observations with WFC3. All remaining time on the exoplanet host system is filled with 7.6 s exposures using the G141 grism on NICMOS (SPARS10 sequence; NSAMPLE = 2). The immediately following orbits on the calibrator start also with a direct image followed by the same fast sequence of spectra taking (over two orbits) with G141.

To optimize the ability to decorrelate the observed flux for instrument changes, all observations need to be conducted at the same role angle. Additionally, there should be no role angle moves during a visit (also not in the repointing to the calibrator source).Visits = 3

The visits have an individual science objective and a combined one.

(1) For the combined science objective, we include the observation of a calibrator source (HD 258439) at the end of each exoplanet host system observation (WASP-12). The science and calibrator observations should be executed as a continuous series of either 7 or 4 orbits in total. The objective is to obtain the best possible spectro-photometric calibration of the exoplanet host system in respect to the calibrator source which will

enable the extraction of the nightside and terminator region exoplanet emission spectrum.
(2) for the individual science case, the exoplanet host system is followed continuously over 5 or 2 orbits at different orbital phases in three visits. The visits are scheduled such that the third orbit is covering the secondary or primary eclipse event for the visits consisting in total of 7 orbits (5 on the exoplanet system). The visit covering 4 orbits is sceduled such that the 2 exoplanet orbits cover the 90/270 degree orbital phase angle position (epoch in between transit and secondary eclipse).

The observations always start with the exoplanet orbits and in the first orbit, a direct image is taken to establish wavelength calibration for the later G141 GRISM observations with WFC3. All remaining time on the exoplanet host system is filled with 7.6 s exposures using the G141 grism on NICMOS (SPARS10 sequence; NSAMPLE = 2). The immediately following orbits on the calibrator start also with a direct image followed by the 8 RAPID G141 exposures.

We request no role angle moves during a visit (also not in the repointing to the calibrator source), to optimize the stability.

Visit

Proposal 12230, Visit 01 Sat Jul 10 05:38:21 GMT 2010

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: Period 1.0914240 D AND ZERO-PHASE HJD2454508.97608; GROUP 01,02,03 WITHIN 5D

Comments: Primary Eclipse sequence for WASP-12 (5 orbits), which will be immediately followed by the calibrator source HD 258439 (2 orbits; no interupt - 7 orbits in total).

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	WASP-12	RA: 06 30 32.7940 (97.6366417d) Dec: +29 40 20.29 (29.67230d) Equinox: J2000	Proper Motion RA: -5.370955053604048E-5s/yr Proper Motion Dec: -0.0078"/yr Epoch of Position: 2000	V=11.567+/-0.01 H = 10.227; J = 10.477; K = 10.188	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.					
(2)	HD-258439	RA: 06 30 53.8035 (97.7241812d) Dec: +29 25 23.61 (29.42323d) Equinox: J2000	Proper Motion RA: 9.184689463082216E-5s/yr Proper Motion Dec: -0.0044"/yr Epoch of Position: 2000	V=9.43 H = 9.114; J = 9.114; K = 9.104	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.					

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	WAVE_CAL_WASP-12	(1) WASP-12	WFC3/IR, MULTIACCUM, IRSUB256	F132N	NSAMP=10; SAMP-SEQ=RAPID	POS TARG -15.172, +1.158; PHASE 0.815 TO 0.85		*[==>]*	***[1]***
2	WAVE_CAL_WASP-12	(1) WASP-12	WFC3/IR, MULTIACCUM, IRSUB256	F132N	NSAMP=10; SAMP-SEQ=RAPID	POS TARG -15.172, +1.158		*[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***

3	GRISM_WASP-12	(1) WASP-12	WFC3/IR, MULTIACCUM, IRSUB256	G141	NSAMP=2; SAMP-SEQ=SPARS10	POS TARG -15.172, +1.158			

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	4	GRISM_WASP-12	(1) WASP-12	WFC3/IR, MULTIACCUM, IRSUB256	G141	NSAMP=2; SAMP-SEQ=SPARS10	POS TARG -15.172, +1.158; NEW OBSET		

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5	WAVE_CAL_HD258439	(2) HD-258439	WFC3/IR, MULTIACCUM, IRSUB256	F132N	SAMP-SEQ=RAPID; NSAMP=3	POS TARG -15.172, +1.158	*[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]*	***[6]***

	6	GRISM_HD 258439	(2) HD-258439	WFC3/IR, MULTIACCUM, IRSUB256	G141	NSAMP=8; SAMP-SEQ=RAPID	POS TARG -15.172, +1.158	

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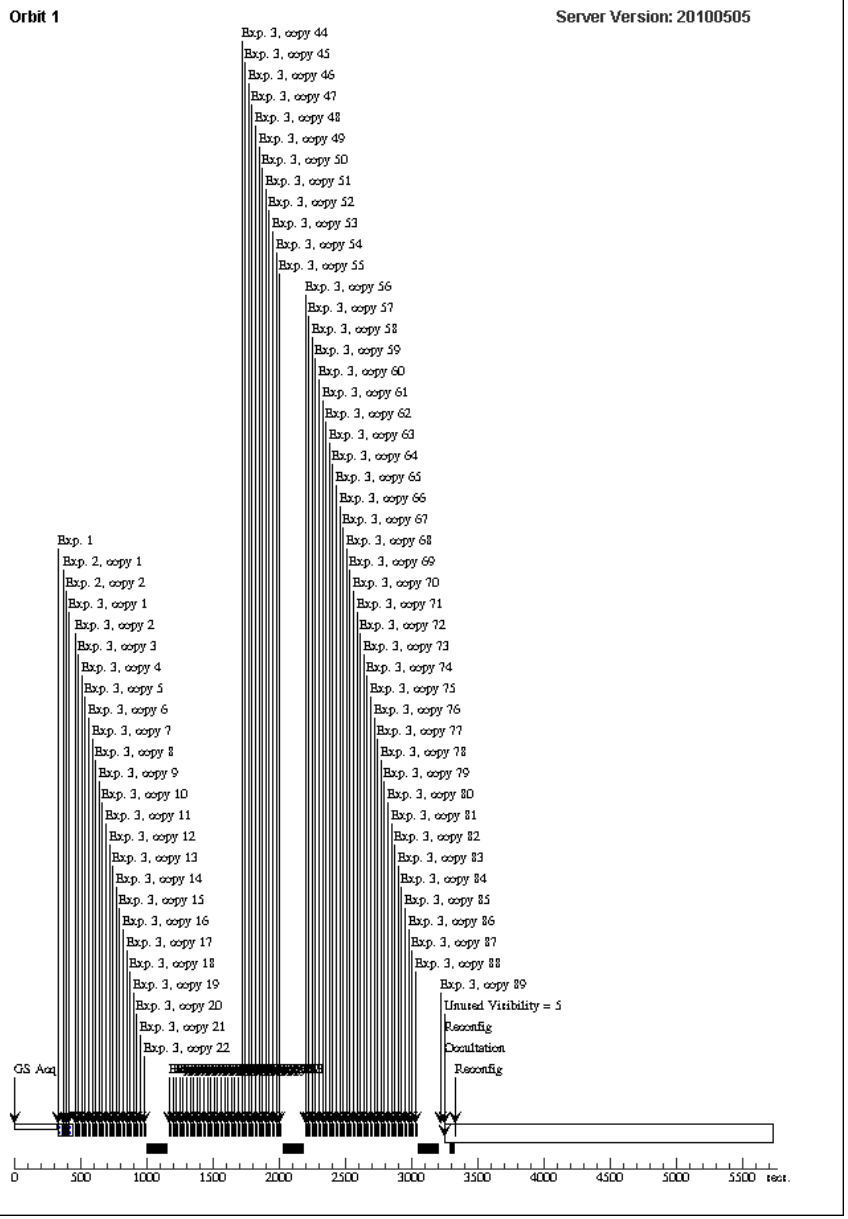
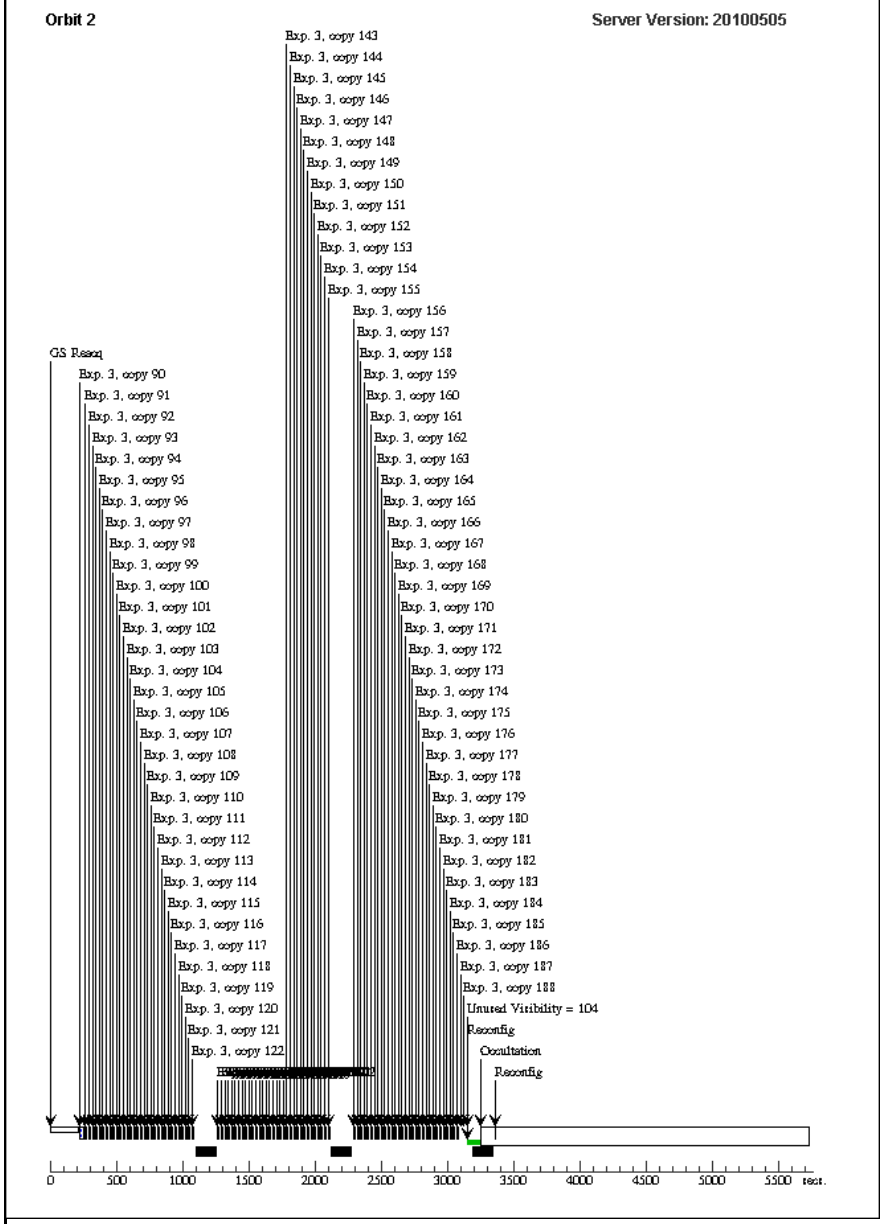
Orbit Structure




Orbit 2
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Unused Visibility = 104
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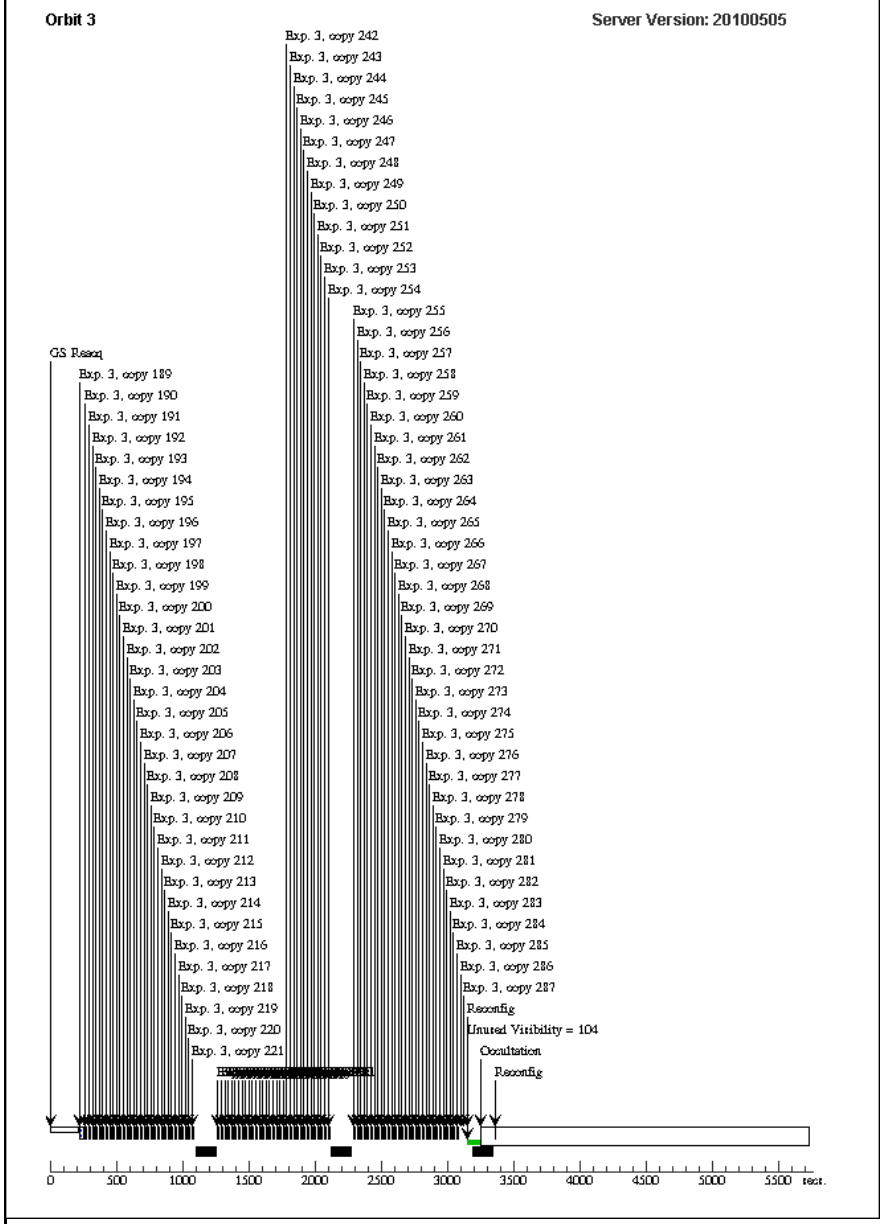
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Exp. 3, copy 287
Reconfig
Unused Visibility = 104
Occultation
Reconfig
GS Reseq
Exp. 3, copy 189
Exp. 3, copy 190
Exp. 3, copy 191
Exp. 3, copy 192
Exp. 3, copy 193
Exp. 3, copy 194
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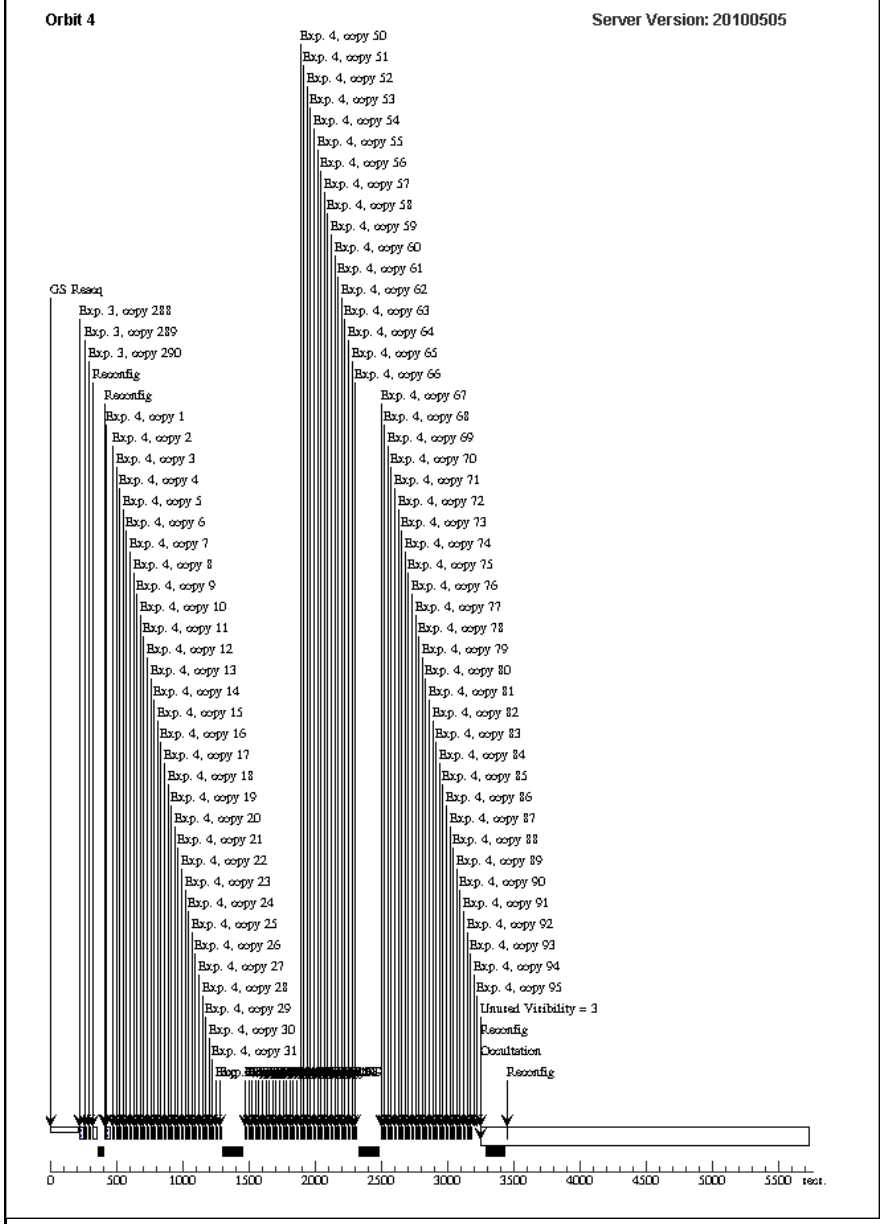
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Unused Visibility = 3
Reconfig
Occultation
Reconfig
GS Reacq
Exp. 3, copy 288
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Reconfig
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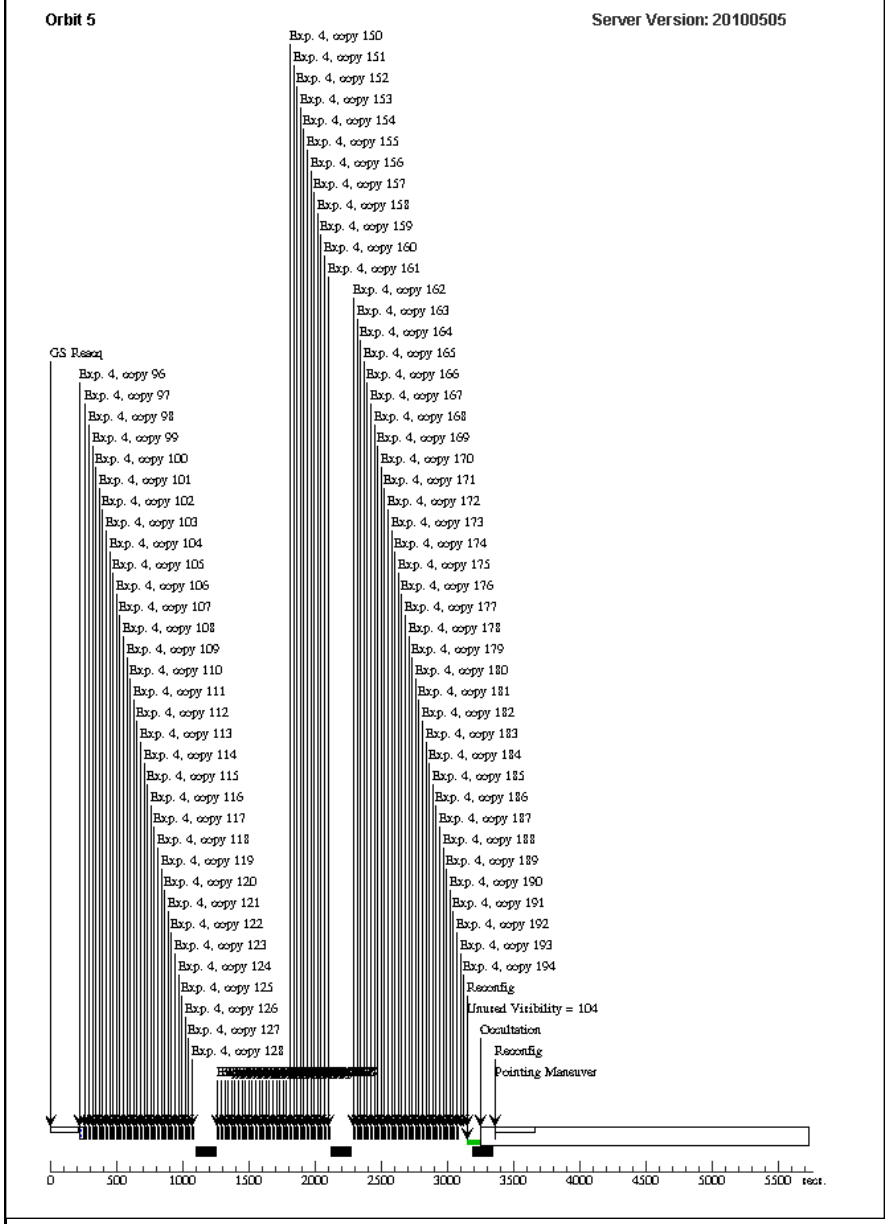
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Exp. 4, copy 194
Reconfig
Unused Visibility = 104
Occultation
Reconfig
Pointing Maneuver
GS Reacq
Exp. 4, copy 96
Exp. 4, copy 97
Exp. 4, copy 98
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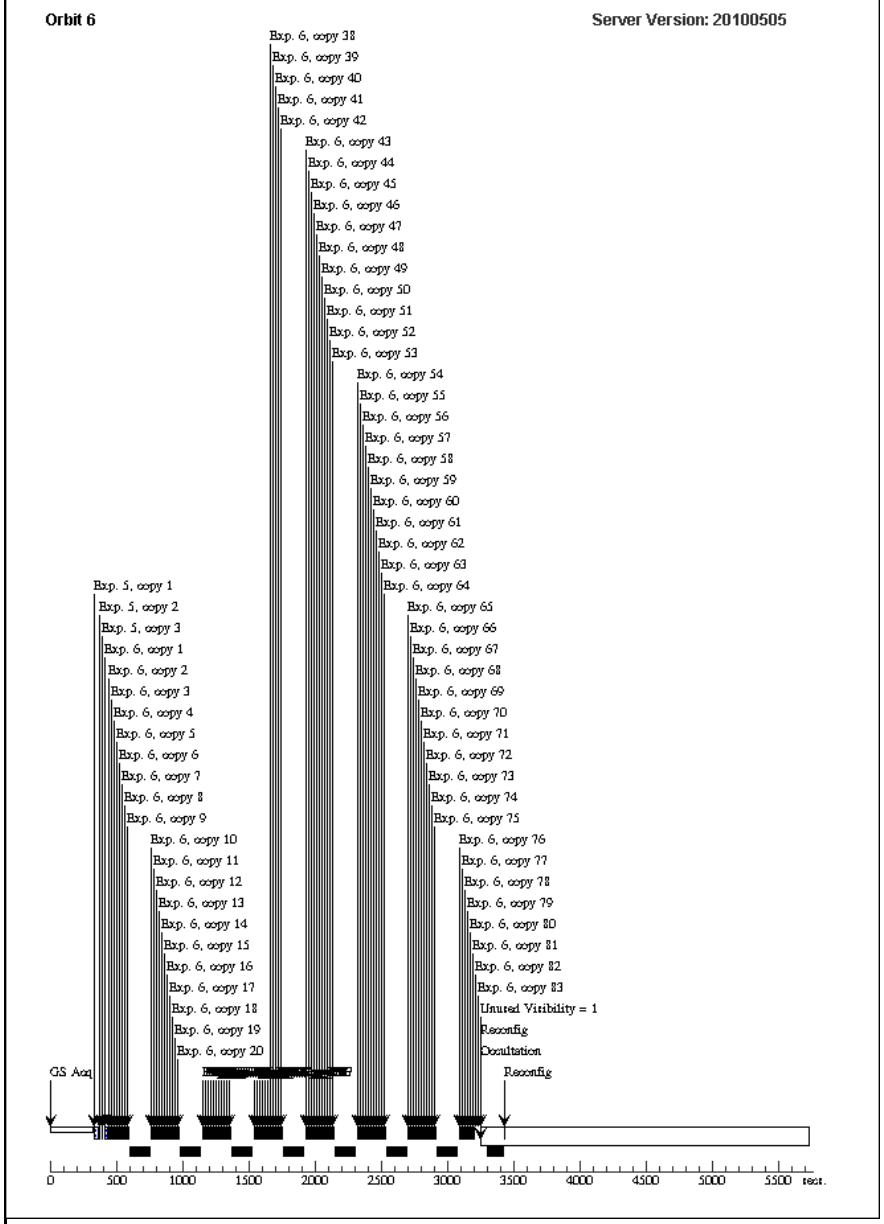
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Exp. 6, copy 83
Unused Visibility = 1
Reconfig
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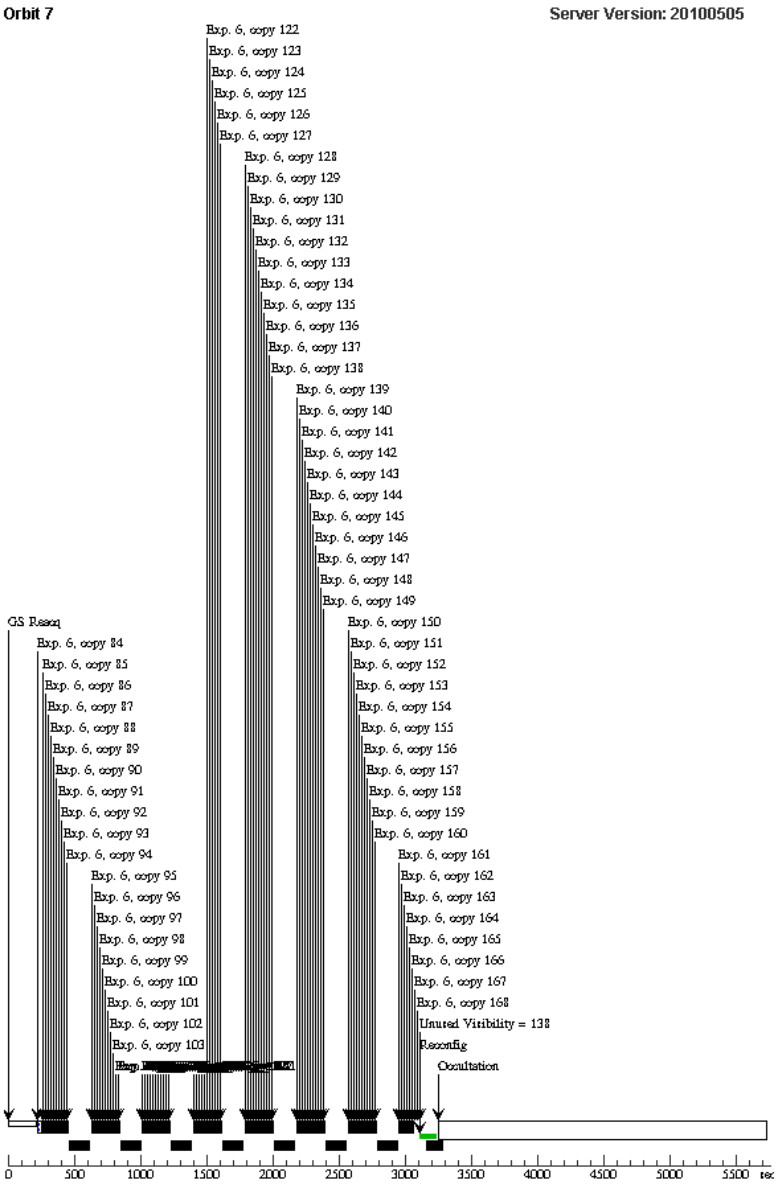
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GS Reacq
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Exp. 6, copy 164
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Exp. 6, copy 166
Exp. 6, copy 167
Exp. 6, copy 168
Unused Viribility = 138
Reconfig
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Visit

Proposal 12230, Visit 02 Sat Jul 10 05:38:43 GMT 2010

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: Period 1.0914240 D AND ZERO-PHASE HJD2454508.9761

Comments: Secondary Eclipse sequence for WASP-12 (5 orbits), which will be immediately followed by the calibrator source HD 258439 (2 orbits; no interupt - 7 orbits in total).

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	WASP-12	RA: 06 30 32.7940 (97.6366417d) Dec: +29 40 20.29 (29.67230d) Equinox: J2000	Proper Motion RA: -5.370955053604048E-5s/yr Proper Motion Dec: -0.0078"/yr Epoch of Position: 2000	V=11.567+/-0.01 H = 10.227; J = 10.477; K = 10.188	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.					
(2)	HD-258439	RA: 06 30 53.8035 (97.7241812d) Dec: +29 25 23.61 (29.42323d) Equinox: J2000	Proper Motion RA: 9.184689463082216E-5s/yr Proper Motion Dec: -0.0044"/yr Epoch of Position: 2000	V=9.43 H = 9.114; J = 9.114; K = 9.104	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.					

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	WAVE_CAL_WASP-12	(1) WASP-12	WFC3/IR, MULTIACCUM, IRSUB256	F132N	NSAMP=10; SAMP-SEQ=RAPID	POS TARG -15.172, +1.158; PHASE 0.315 TO 0.35		*[==>]*	***[1]***
2	WAVE_CAL_WASP-12	(1) WASP-12	WFC3/IR, MULTIACCUM, IRSUB256	F132N	NSAMP=10; SAMP-SEQ=RAPID	POS TARG -15.172, +1.158		*[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***

	3	GRISM_WASP-12	(1) WASP-12	WFC3/IR, MULTIACCUM, IRSUB256	G141	NSAMP=2; SAMP-SEQ=SPARS10	POS TARG -15.172, +1.158		

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		[==>(Copy 90)] *[==>(Copy 91)]* *[==>(Copy 92)]* *[==>(Copy 93)]* *[==>(Copy 94)]* *[==>(Copy 95)]* *[==>(Copy 96)]* *[==>(Copy 97)]* *[==>(Copy 98)]* *[==>(Copy 99)]* *[==>(Copy 100)]* *[==>(Copy 101)]* *[==>(Copy 102)]* *[==>(Copy 103)]* *[==>(Copy 104)]* *[==>(Copy 105)]* *[==>(Copy 106)]* *[==>(Copy 107)]* *[==>(Copy 108)]* *[==>(Copy 109)]* *[==>(Copy 110)]* *[==>(Copy 111)]* *[==>(Copy 112)]* *[==>(Copy 113)]* *[==>(Copy 114)]* *[==>(Copy 115)]* *[==>(Copy 116)]* *[==>(Copy 117)]* *[==>(Copy 118)]* *[==>(Copy 119)]* *[==>(Copy 120)]* *[==>(Copy 121)]* *[==>(Copy 122)]* *[==>(Copy 123)]* *[==>(Copy 124)]* *[==>(Copy 125)]* *[==>(Copy 126)]* *[==>(Copy 127)]* *[==>(Copy 128)]* *[==>(Copy 129)]* *[==>(Copy 130)]* *[==>(Copy 131)]* *[==>(Copy 132)]* *[==>(Copy 133)]* *[==>(Copy 134)]*	***[2]***

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		[==>(Copy 288)] *[==>(Copy 289)]* *[==>(Copy 290)]*	***[4]***

	4	GRISM_WASP-12	(1) WASP-12	WFC3/IR, MULTIACCUM, IRSUB256	G141	NSAMP=2; SAMP-SEQ=SPARS10	POS TARG -15.172, +1.158; NEW OBSET	

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[==>(Copy 141)]
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[==>(Copy 184)]
[==>(Copy 185)]

							[==>(Copy 186)] *[==>(Copy 187)]* *[==>(Copy 188)]* *[==>(Copy 189)]* *[==>(Copy 190)]* *[==>(Copy 191)]* *[==>(Copy 192)]* *[==>(Copy 193)]* *[==>(Copy 194)]*	
5	WAVE_CAL_HD258439	(2) HD-258439	WFC3/IR, MULTIACCUM, IRSUB256	F132N	SAMP-SEQ=RAPID; NSAMP=3	POS TARG -15.172, +1.158	*[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]*	***[6]***

	6	GRISM_HD (2) 258439	HD-258439	WFC3/IR, MULTIACCUM, IRSUB256	G141	NSAMP=8; SAMP-SEQ=RAPID	POS TARG -15.172, +1.158	

		[==>(Copy 1)] *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]* *[==>(Copy 34)]* *[==>(Copy 35)]* *[==>(Copy 36)]* *[==>(Copy 37)]* *[==>(Copy 38)]* *[==>(Copy 39)]* *[==>(Copy 40)]* *[==>(Copy 41)]* *[==>(Copy 42)]* *[==>(Copy 43)]* *[==>(Copy 44)]* *[==>(Copy 45)]*	***[6]***

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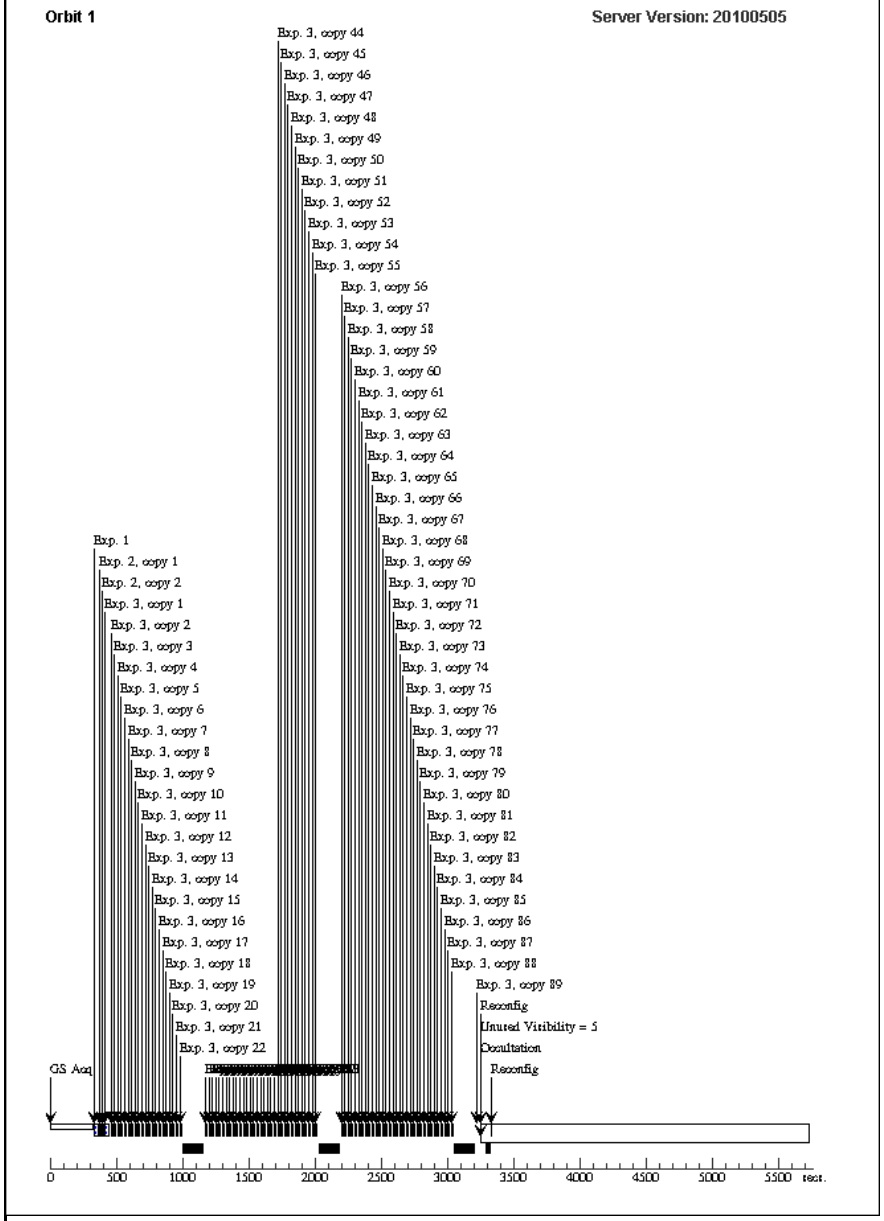
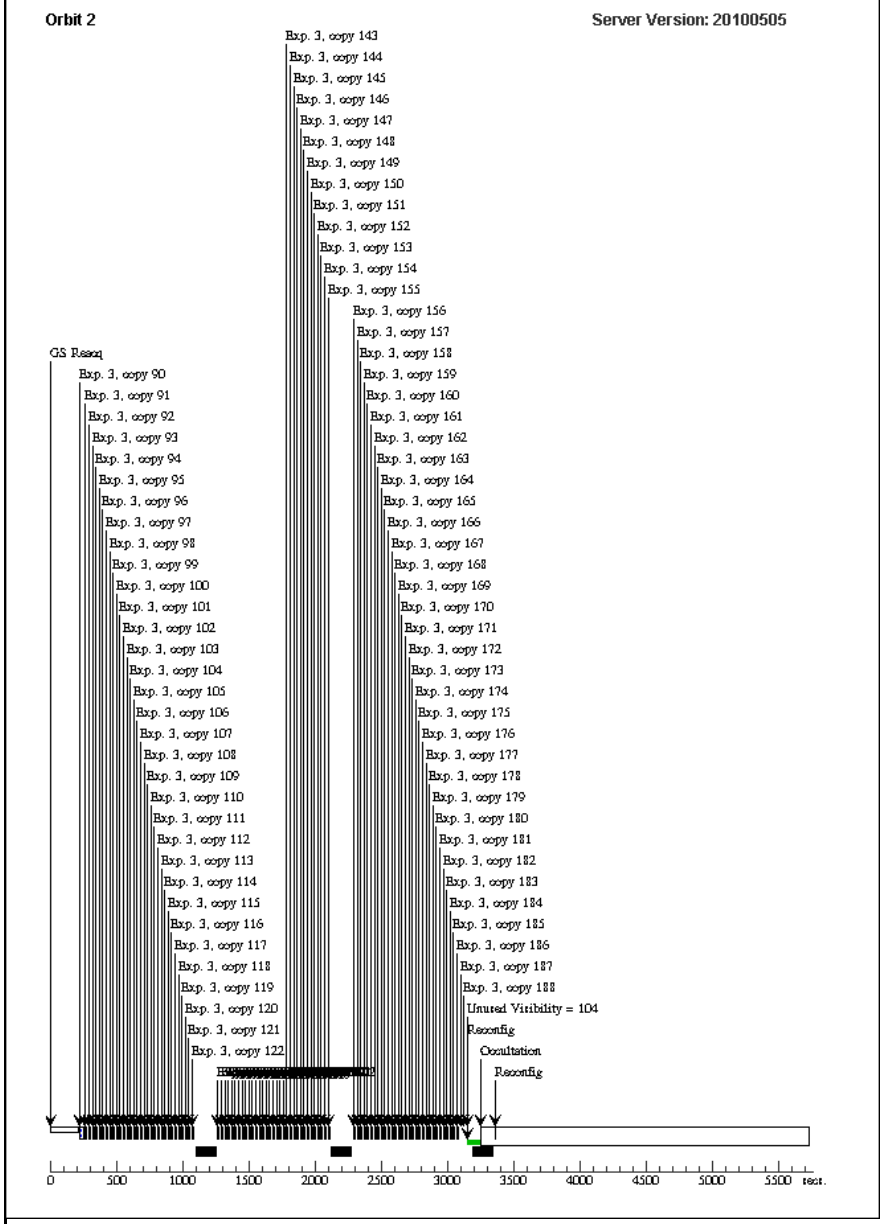
		[==>(Copy 84)] [==>(Copy 85)] [==>(Copy 86)] [==>(Copy 87)] [==>(Copy 88)] [==>(Copy 89)] [==>(Copy 90)] [==>(Copy 91)] [==>(Copy 92)] [==>(Copy 93)] [==>(Copy 94)] [==>(Copy 95)] [==>(Copy 96)] [==>(Copy 97)] [==>(Copy 98)] [==>(Copy 99)] [==>(Copy 100)] [==>(Copy 101)] [==>(Copy 102)] [==>(Copy 103)] [==>(Copy 104)] [==>(Copy 105)] [==>(Copy 106)] [==>(Copy 107)] [==>(Copy 108)] [==>(Copy 109)] [==>(Copy 110)] [==>(Copy 111)] [==>(Copy 112)] [==>(Copy 113)] [==>(Copy 114)] [==>(Copy 115)] [==>(Copy 116)] [==>(Copy 117)] [==>(Copy 118)] [==>(Copy 119)] [==>(Copy 120)] [==>(Copy 121)] [==>(Copy 122)] [==>(Copy 123)] [==>(Copy 124)] [==>(Copy 125)] [==>(Copy 126)] [==>(Copy 127)] [==>(Copy 128)]	[7]

		[==>(Copy 129)] *[==>(Copy 130)]* *[==>(Copy 131)]* *[==>(Copy 132)]* *[==>(Copy 133)]* *[==>(Copy 134)]* *[==>(Copy 135)]* *[==>(Copy 136)]* *[==>(Copy 137)]* *[==>(Copy 138)]* *[==>(Copy 139)]* *[==>(Copy 140)]* *[==>(Copy 141)]* *[==>(Copy 142)]* *[==>(Copy 143)]* *[==>(Copy 144)]* *[==>(Copy 145)]* *[==>(Copy 146)]* *[==>(Copy 147)]* *[==>(Copy 148)]* *[==>(Copy 149)]* *[==>(Copy 150)]* *[==>(Copy 151)]* *[==>(Copy 152)]* *[==>(Copy 153)]* *[==>(Copy 154)]* *[==>(Copy 155)]* *[==>(Copy 156)]* *[==>(Copy 157)]* *[==>(Copy 158)]* *[==>(Copy 159)]* *[==>(Copy 160)]* *[==>(Copy 161)]* *[==>(Copy 162)]* *[==>(Copy 163)]* *[==>(Copy 164)]* *[==>(Copy 165)]* *[==>(Copy 166)]* *[==>(Copy 167)]* *[==>(Copy 168)]*	

Orbit Structure

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GS Reacq
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Exp. 3, copy 93
Exp. 3, copy 94
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Exp. 3, copy 102
Exp. 3, copy 103
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Exp. 3, copy 184
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Exp. 3, copy 186
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Exp. 3, copy 188
Unused Visibility = 104
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Occultation
Reconfig
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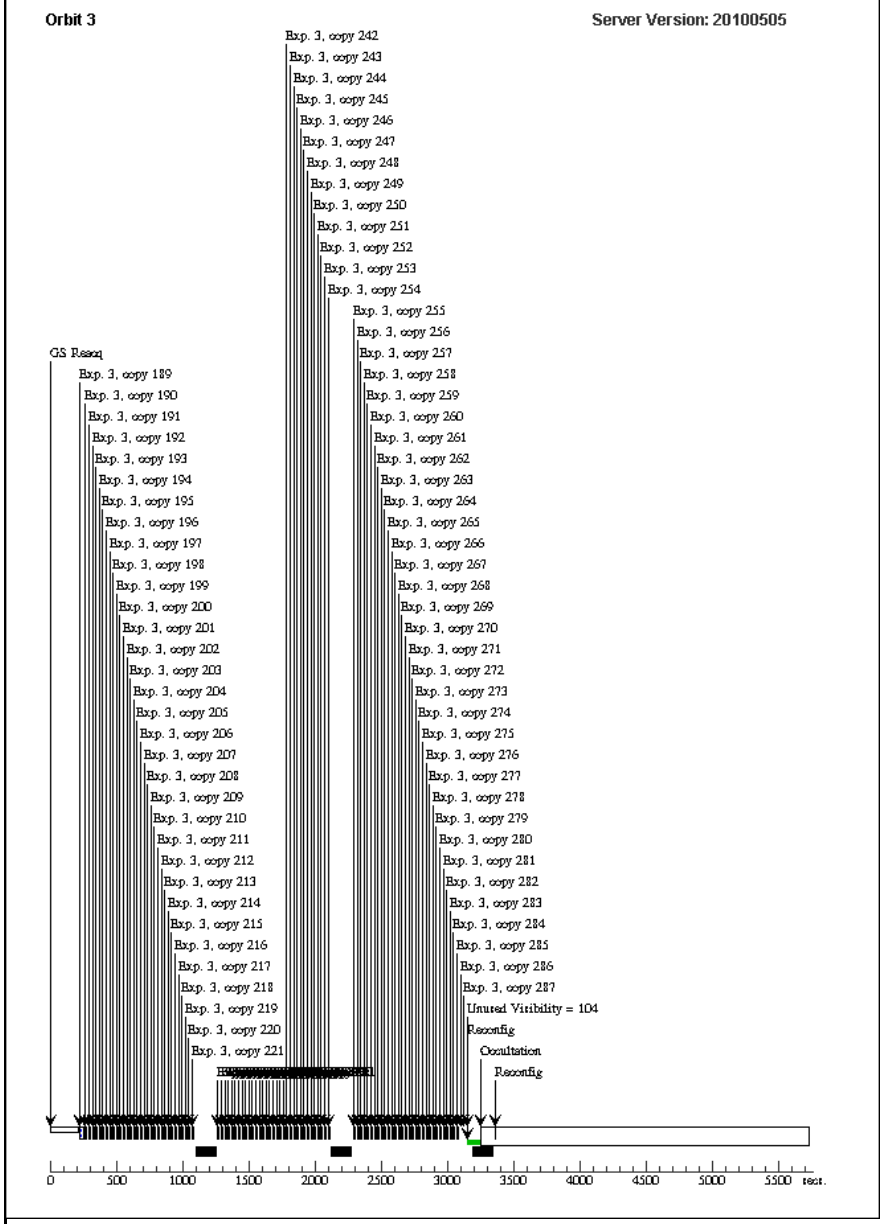
3000
3500
4000
4500
5000
5500
sec.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Server Version: 20100505
GS Reacq
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Exp. 3, copy 286
Exp. 3, copy 287
Unused Visibility = 104
Reconfig
Occultation
Reconfig
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3500
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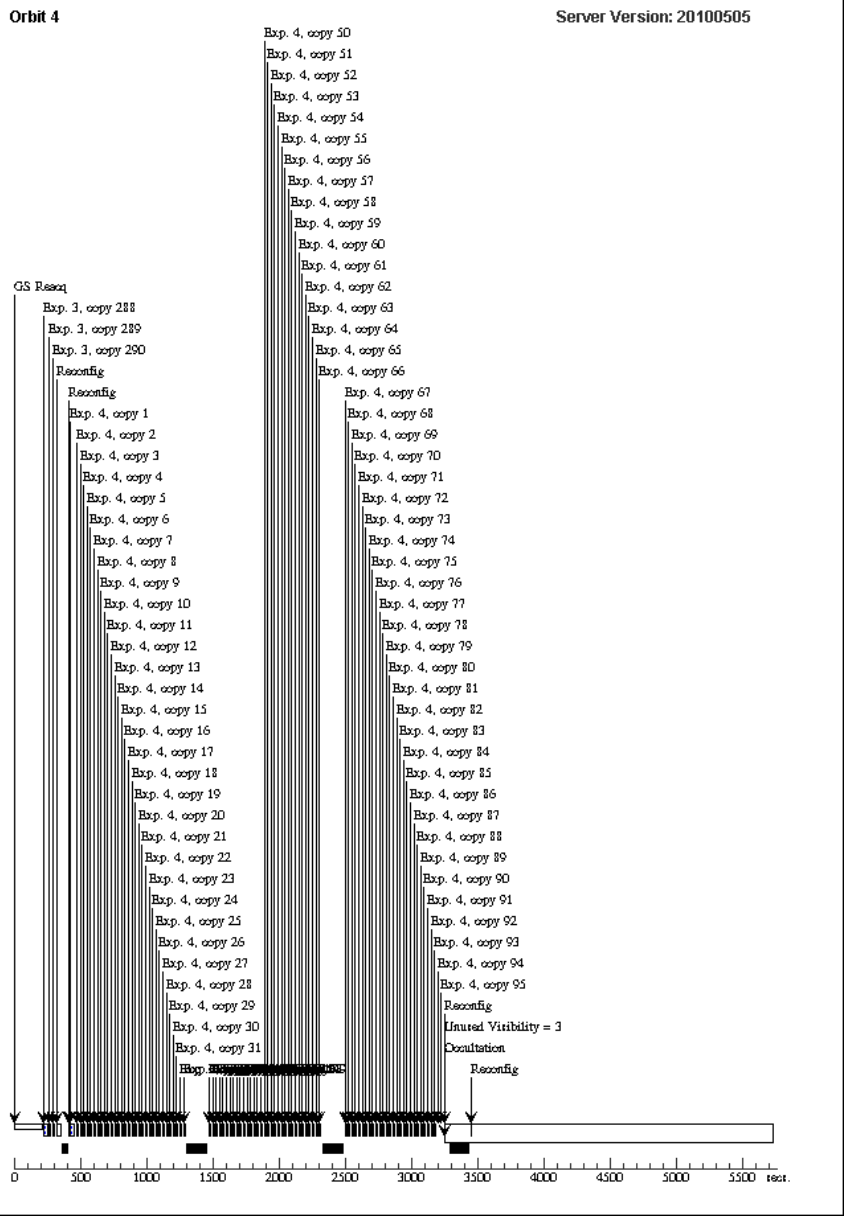
sec.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Exp. 4, copy 89
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Exp. 4, copy 92
Exp. 4, copy 93
Exp. 4, copy 94
Exp. 4, copy 95
Reconfig
Unused Visibility = 3
Occultation
Reconfig
GS Reacq
Exp. 3, copy 288
Exp. 3, copy 289
Exp. 3, copy 290
Reconfig
Reconfig
Exp. 4, copy 1
Exp. 4, copy 2
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5000
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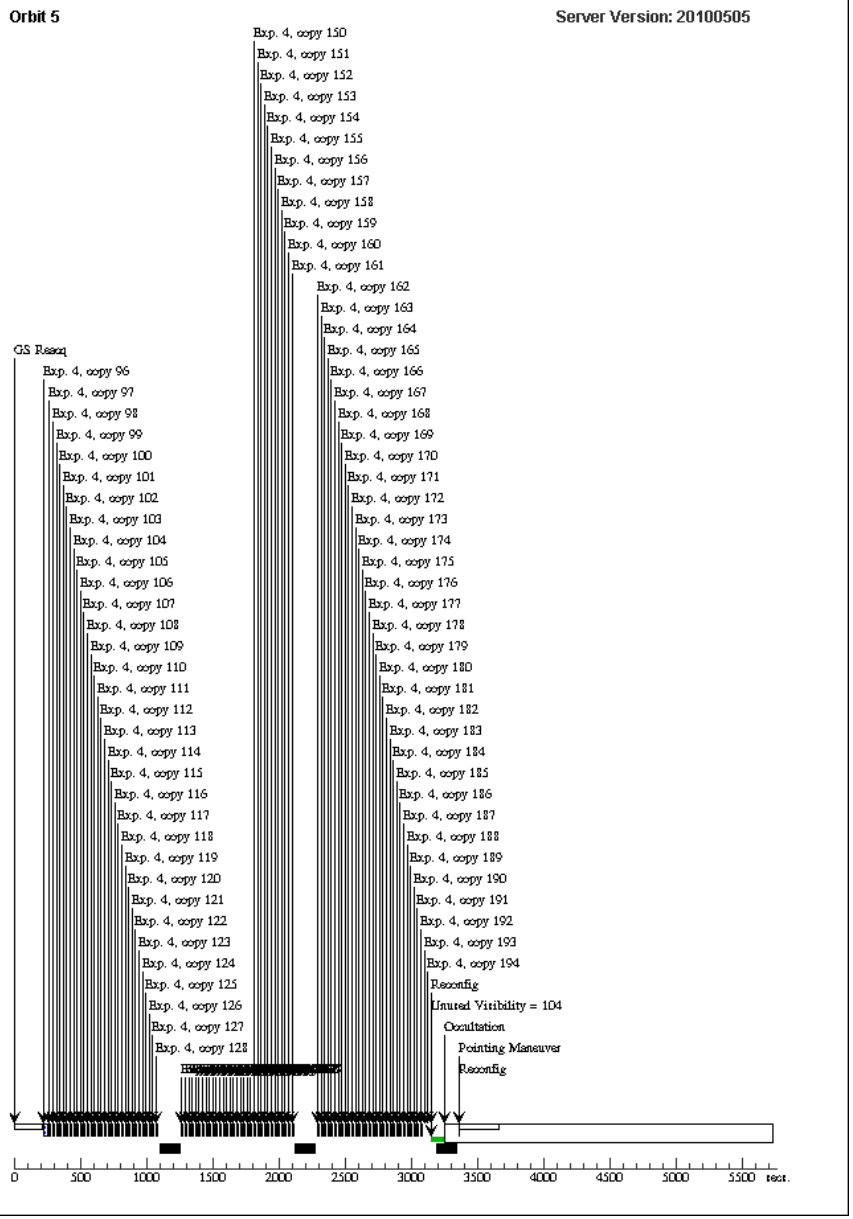
sec.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Exp. 4, copy 188
Exp. 4, copy 189
Exp. 4, copy 190
Exp. 4, copy 191
Exp. 4, copy 192
Exp. 4, copy 193
Exp. 4, copy 194
Reconfig
Unused Viribility = 104
Occultation
Pointing Maneuver
Reconfig
GS Reacq
Exp. 4, copy 96
Exp. 4, copy 97
Exp. 4, copy 98
Exp. 4, copy 99
Exp. 4, copy 100
Exp. 4, copy 101
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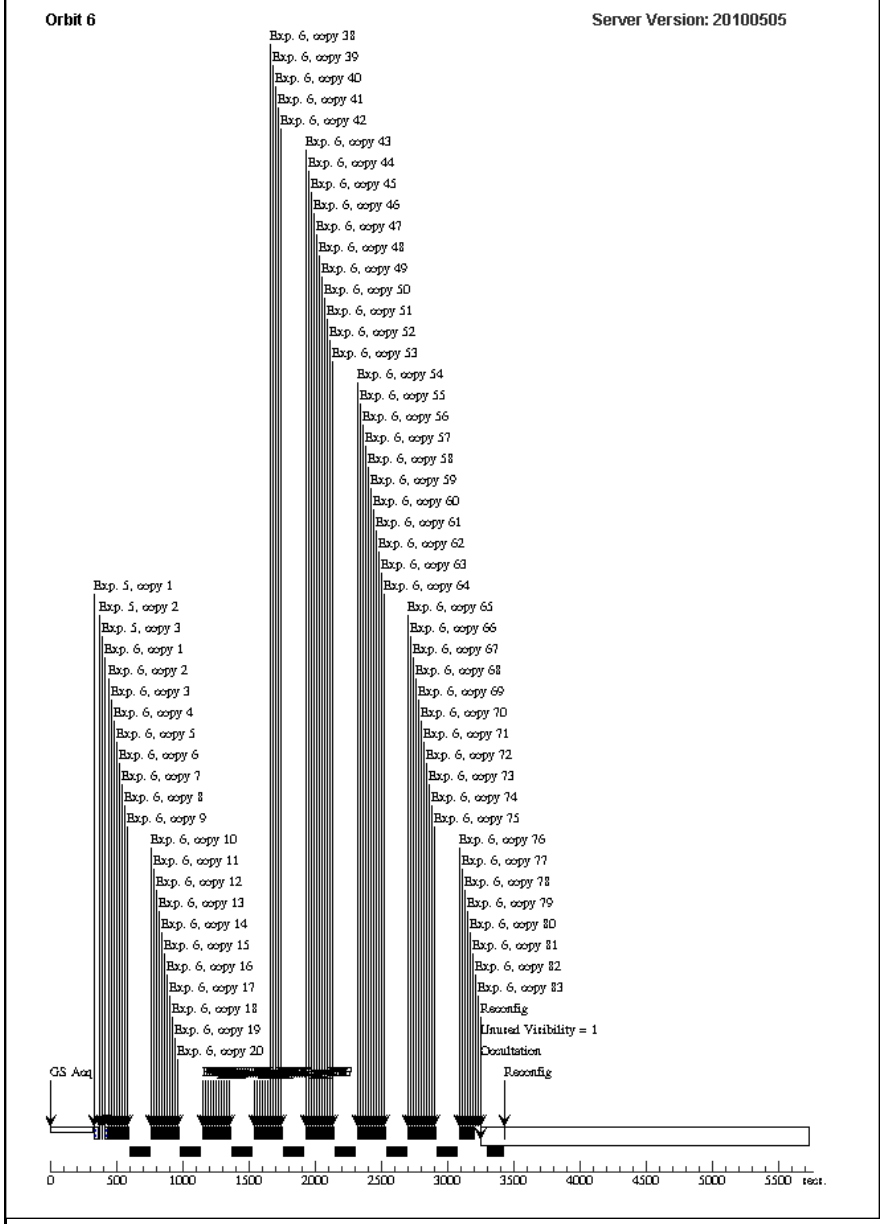
Orbit 6
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Exp. 6, copy 80
Exp. 6, copy 81
Exp. 6, copy 82
Exp. 6, copy 83
Reconfig
Unused Visibility = 1
Occultation
Reconfig
Exp. 5, copy 1
Exp. 5, copy 2
Exp. 5, copy 3
Exp. 6, copy 1
Exp. 6, copy 2
Exp. 6, copy 3
Exp. 6, copy 4
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Exp. 6, copy 19
Exp. 6, copy 20
GS Acq
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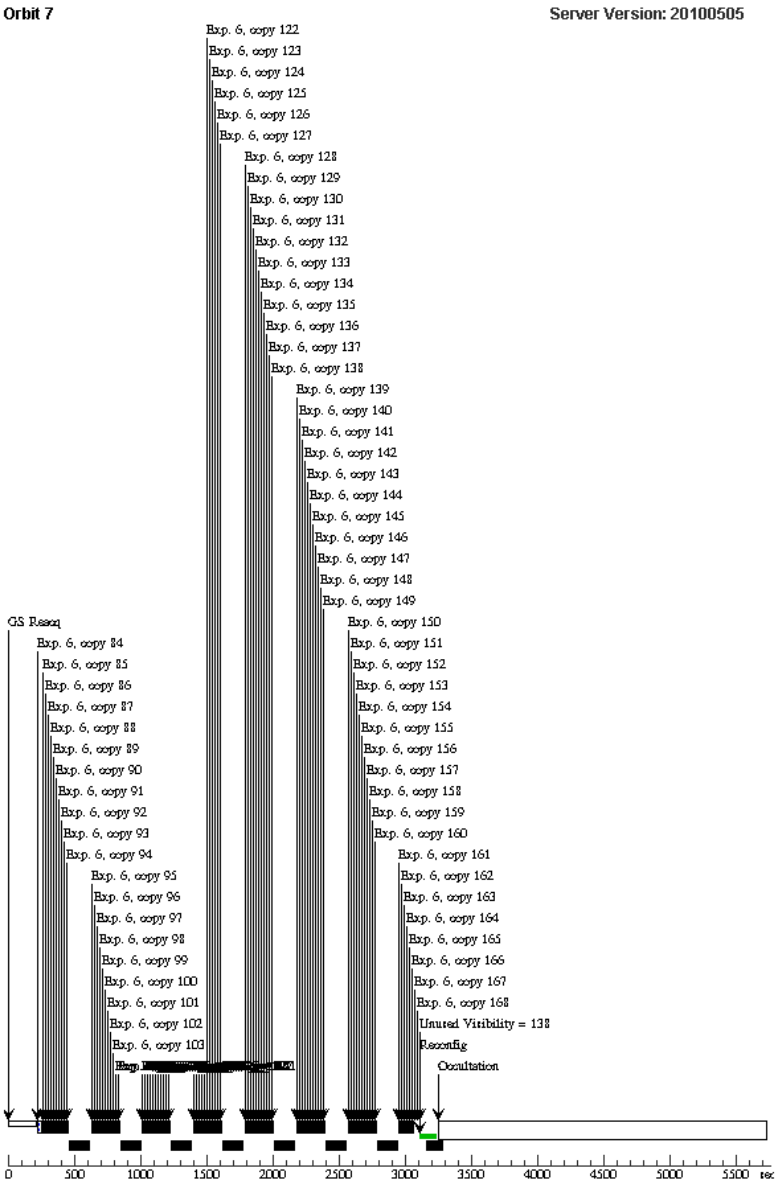
sec.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Exp. 6, copy 149
GS Reacq
Exp. 6, copy 84
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Exp. 6, copy 162
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Exp. 6, copy 164
Exp. 6, copy 165
Exp. 6, copy 166
Exp. 6, copy 167
Exp. 6, copy 168
Unused Viribility = 138
Reconfig
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 12230, Visit 03 Sat Jul 10 05:39:03 GMT 2010

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: Period 1.0914240 D AND ZERO-PHASE HJD2454508.9761

Comments: Phase Curve sequence for WASP-12 (2 orbits), which will be immediately followed by the calibrator source HD 258439 (2 orbits; no interupt - 4 orbits in total).

NOTE: This visit is scheduled to be observed around phase 0.25. An equivalent observation is to observe around 0.75! We could however not give multiple options in the phasing requirements. If necessary, the phasing can be adjusted to be between 0.66 and 0.72 (see first image in WAVE_CAL_WASP-12).

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	WASP-12	RA: 06 30 32.7940 (97.6366417d) Dec: +29 40 20.29 (29.67230d) Equinox: J2000	Proper Motion RA: -5.370955053604048E-5s/yr Proper Motion Dec: -0.0078"/yr Epoch of Position: 2000	V=11.567+/-0.01 H = 10.227; J = 10.477; K = 10.188	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.					
(2)	HD-258439	RA: 06 30 53.8035 (97.7241812d) Dec: +29 25 23.61 (29.42323d) Equinox: J2000	Proper Motion RA: 9.184689463082216E-5s/yr Proper Motion Dec: -0.0044"/yr Epoch of Position: 2000	V=9.43 H = 9.114; J = 9.114; K = 9.104	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.					

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	WAVE_CAL_WASP-12	(1) WASP-12	WFC3/IR, MULTIACCUM, IRSUB256	F132N	NSAMP=10; SAMP-SEQ=RAPID	POS TARG -15.172, 1.158; PHASE 0.16 TO 0.22		*[==>]*	***[1]***
2	WAVE_CAL_WASP-12	(1) WASP-12	WFC3/IR, MULTIACCUM, IRSUB256	F132N	NSAMP=10; SAMP-SEQ=RAPID	POS TARG -15.172, +1.158		*[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***

	3	GRISM_WASP-12	(1) WASP-12	WFC3/IR, MULTIACCUM, IRSUB256	G141	NSAMP=2; SAMP-SEQ=SPARS10	POS TARG -15.172, +1.158		

		[==>(Copy 1)] *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]* *[==>(Copy 34)]* *[==>(Copy 35)]* *[==>(Copy 36)]* *[==>(Copy 37)]* *[==>(Copy 38)]* *[==>(Copy 39)]* *[==>(Copy 40)]* *[==>(Copy 41)]* *[==>(Copy 42)]* *[==>(Copy 43)]* *[==>(Copy 44)]* *[==>(Copy 45)]*	***[1]***

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							[==>(Copy 180)] *[==>(Copy 181)]* *[==>(Copy 182)]* *[==>(Copy 183)]* *[==>(Copy 184)]* *[==>(Copy 185)]* *[==>(Copy 186)]* *[==>(Copy 187)]* *[==>(Copy 188)]*	
4	WAVE_CAL_HD258439	(2) HD-258439	WFC3/IR, MULTIACCUM, IRSUB256	F132N	SAMP-SEQ=RAPID; NSAMP=3	POS TARG -15.172, +1.158	*[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]*	***[3]***

	5	GRISM_HD 258439	(2) HD-258439	WFC3/IR, MULTIACCUM, IRSUB256	G141	NSAMP=8; SAMP-SEQ=RAPID	POS TARG -15.172, +1.158		

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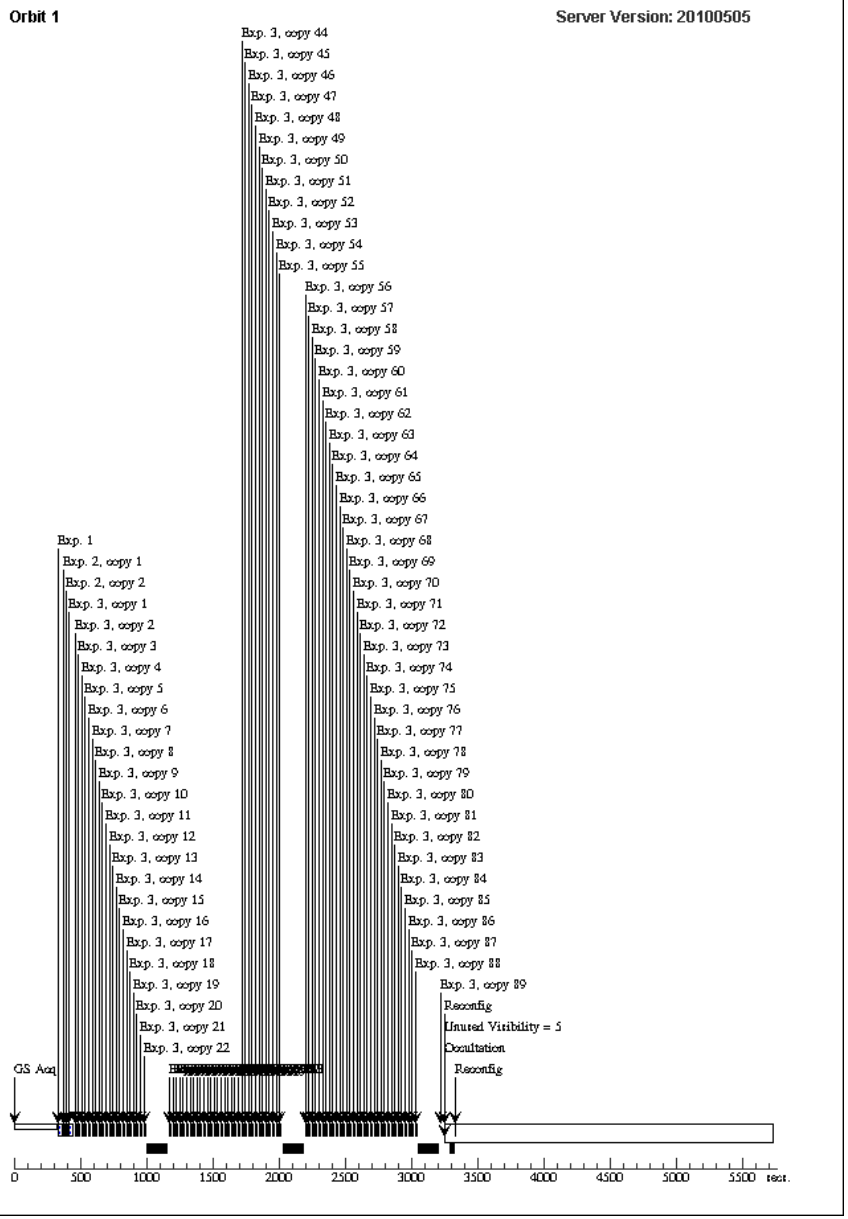
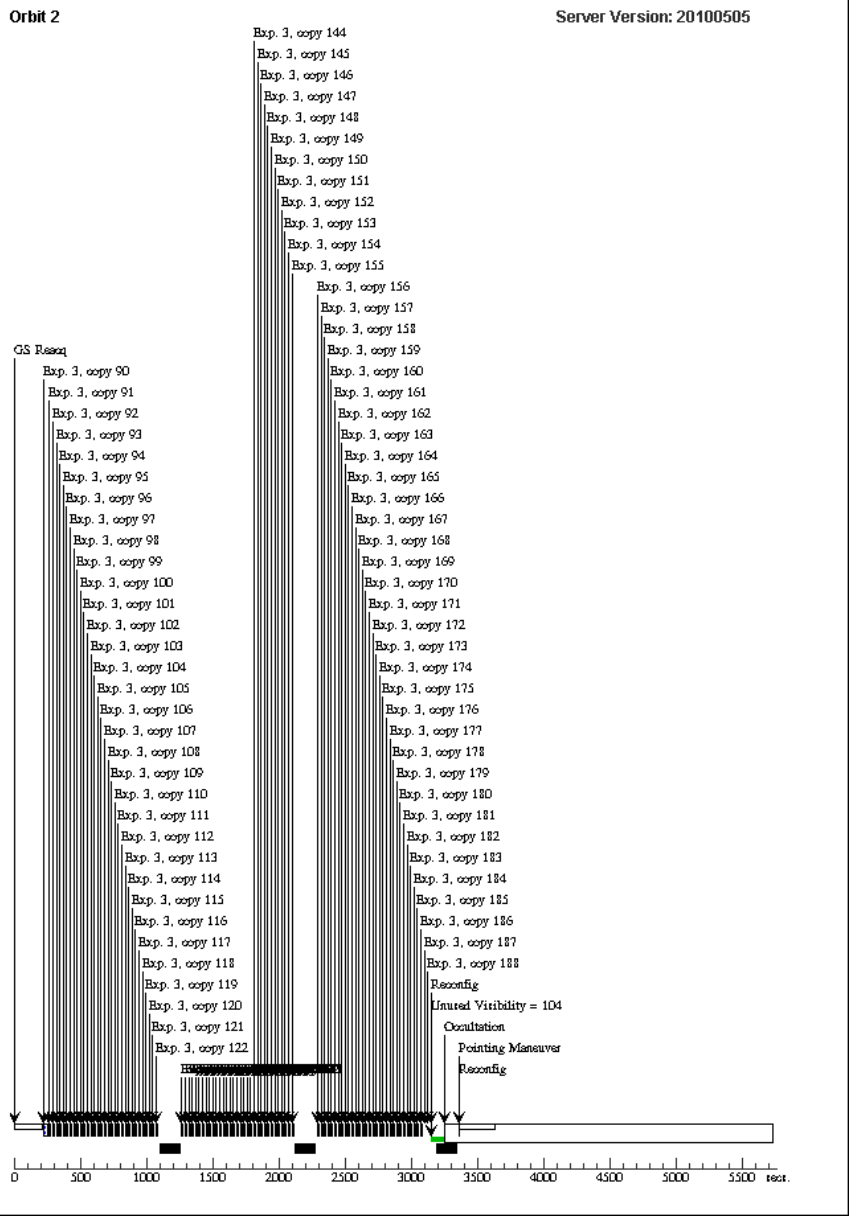
		[==>(Copy 84)] *[==>(Copy 85)]* *[==>(Copy 86)]* *[==>(Copy 87)]* *[==>(Copy 88)]* *[==>(Copy 89)]* *[==>(Copy 90)]* *[==>(Copy 91)]* *[==>(Copy 92)]* *[==>(Copy 93)]* *[==>(Copy 94)]* *[==>(Copy 95)]* *[==>(Copy 96)]* *[==>(Copy 97)]* *[==>(Copy 98)]* *[==>(Copy 99)]* *[==>(Copy 100)]* *[==>(Copy 101)]* *[==>(Copy 102)]* *[==>(Copy 103)]* *[==>(Copy 104)]* *[==>(Copy 105)]* *[==>(Copy 106)]* *[==>(Copy 107)]* *[==>(Copy 108)]* *[==>(Copy 109)]* *[==>(Copy 110)]* *[==>(Copy 111)]* *[==>(Copy 112)]* *[==>(Copy 113)]* *[==>(Copy 114)]* *[==>(Copy 115)]* *[==>(Copy 116)]* *[==>(Copy 117)]* *[==>(Copy 118)]* *[==>(Copy 119)]* *[==>(Copy 120)]* *[==>(Copy 121)]* *[==>(Copy 122)]* *[==>(Copy 123)]* *[==>(Copy 124)]* *[==>(Copy 125)]* *[==>(Copy 126)]* *[==>(Copy 127)]* *[==>(Copy 128)]*	***[4]***

		[==>(Copy 129)] *[==>(Copy 130)]* *[==>(Copy 131)]* *[==>(Copy 132)]* *[==>(Copy 133)]* *[==>(Copy 134)]* *[==>(Copy 135)]* *[==>(Copy 136)]* *[==>(Copy 137)]* *[==>(Copy 138)]* *[==>(Copy 139)]* *[==>(Copy 140)]* *[==>(Copy 141)]* *[==>(Copy 142)]* *[==>(Copy 143)]* *[==>(Copy 144)]* *[==>(Copy 145)]* *[==>(Copy 146)]* *[==>(Copy 147)]* *[==>(Copy 148)]* *[==>(Copy 149)]* *[==>(Copy 150)]* *[==>(Copy 151)]* *[==>(Copy 152)]* *[==>(Copy 153)]* *[==>(Copy 154)]* *[==>(Copy 155)]* *[==>(Copy 156)]* *[==>(Copy 157)]* *[==>(Copy 158)]* *[==>(Copy 159)]* *[==>(Copy 160)]* *[==>(Copy 161)]* *[==>(Copy 162)]* *[==>(Copy 163)]* *[==>(Copy 164)]* *[==>(Copy 165)]* *[==>(Copy 166)]* *[==>(Copy 167)]* *[==>(Copy 168)]*	

Orbit Structure

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Reconfig
Unused Visibility = 104
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Exp. 3, copy 90
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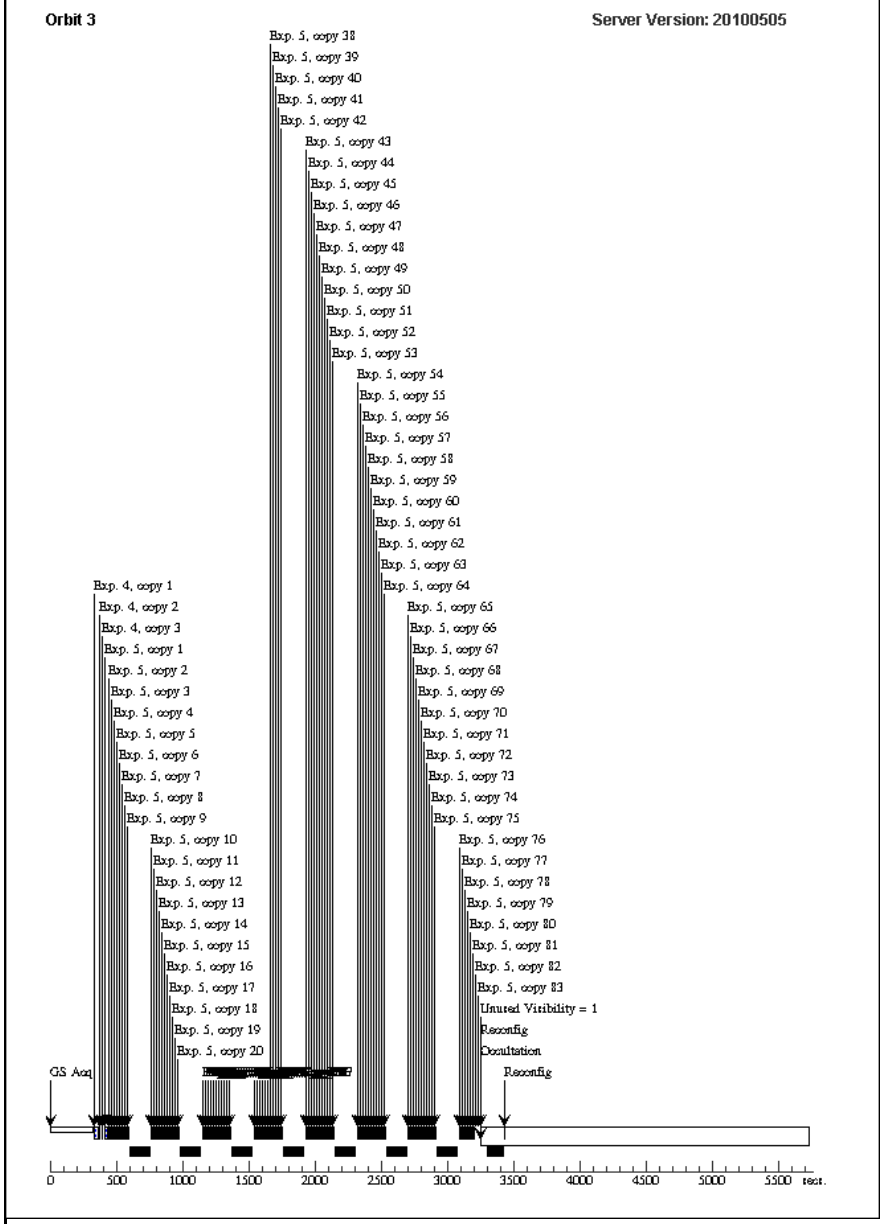
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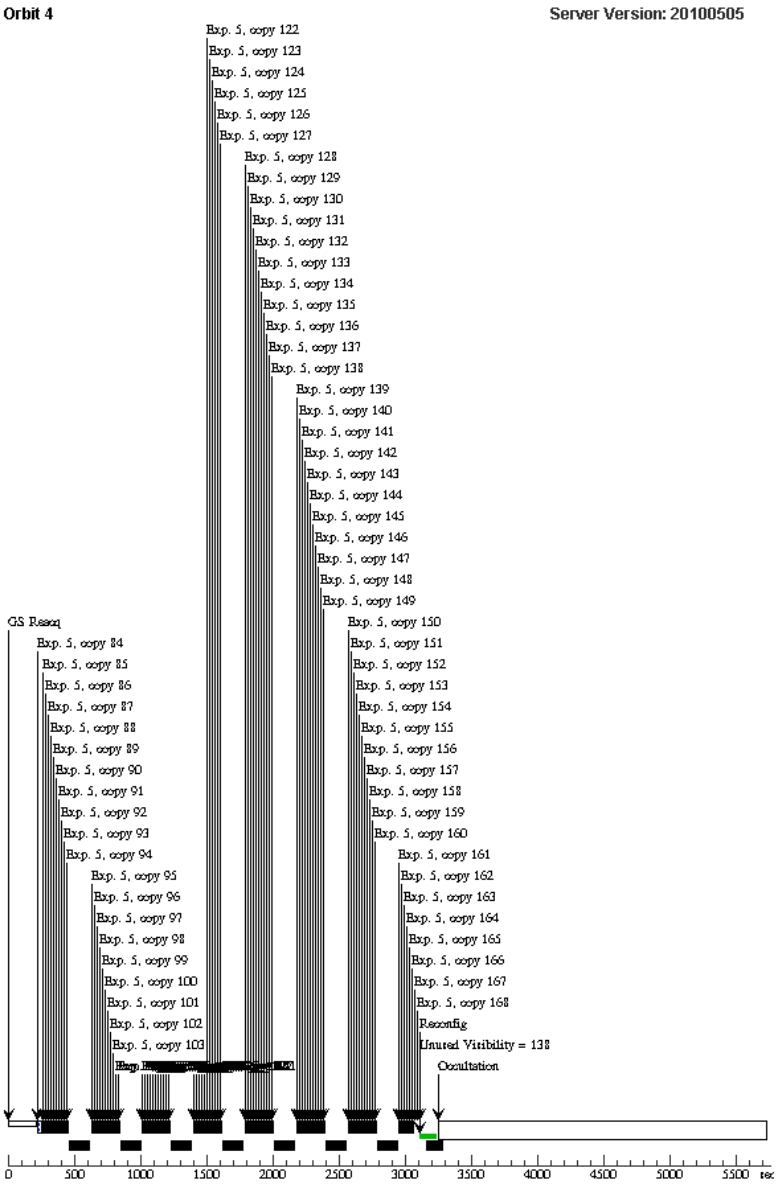
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Reconfig
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Occultation
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