11572 - Charaterizing Atmospheric Sodium in the Transiting hot-Jupiter HD189733b

Cycle: 17, Proposal Category: GO

(Availability Mode: AVAILABLE)

INVESTIGATORS

Name	*Institution*	*E-Mail*
Dr. David Kent Sing (PI) (ESA Member)	**CNRS, Institut d'Astrophysique de Paris**	**sing@iap.fr**
Dr. Alfred Vidal-Madjar (CoI) (ESA Member)	CNRS, Institut d'Astrophysique de Paris	vidalmadjar@iap.fr
Dr. Alain Lecavelier des Etangs (CoI) (ESA Member)	CNRS, Institut d'Astrophysique de Paris	lecaveli@iap.fr
Mr. Jean-Michel Desert (CoI) (ESA Member)	CNRS, Institut d'Astrophysique de Paris	desert@iap.fr
Dr. Gilda E. Ballester (CoI) (AdminUSPI)	University of Arizona	gilda@vega.lpl.arizona.edu

VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) HD-189733	STIS/CCD	4	25-Oct-2010 21:01:49.0	yes
51	(1) HD-189733	STIS/CCD	4	25-Oct-2010 21:02:48.0	yes
53	(1) HD-189733	STIS/CCD	4	25-Oct-2010 21:03:41.0	yes
54	(1) HD-189733	STIS/CCD	4	25-Oct-2010 21:04:32.0	yes
02	(1) HD-189733	STIS/CCD	4	25-Oct-2010 21:05:27.0	yes
52	(1) HD-189733	STIS/CCD	4	25-Oct-2010 21:06:17.0	yes
55	(1) HD-189733	STIS/CCD	4	25-Oct-2010 21:07:07.0	yes
03	(1) HD-189733	STIS/CCD	4	25-Oct-2010 21:07:56.0	yes

32 Total Orbits Used

ABSTRACT

We propose STIS transit observations of the exoplanet HD189733b with the goal of measuring atmospheric atomic sodium. Our strategy is to repeat the observing meathods used for HD209458b, which resulted in a successful exoplanetary atmospheric sodium detection. Initial ground-based measurements suggest that the sodium signature on HD189733 could be up to three times larger than HD209458b, making a robust 8 detection possible within a 12 orbit program observing three transits. Transit transmission spectra resulting from space-based measurements have the advantage of retaining absolute transit depths when features are measured, which will make it possible to provide an observational link between sodium and atmospheric haze detected with ACS. Such a link can break modeling degeneracies and providing stringent constraints on the overall atmospheric properties, making such atmospheric information as abundances and the temperature-pressure-altitude relation known. A successful measurement will also allow for comparative atmospheric exoplanetology, as an atmospheric feature will be measured with the same instrument in two separate planets.

OBSERVING DESCRIPTION

We propose observe HD189733 with the STIS G750M during three transits each visit consisting of four consecutive orbits (12 total). The spirit of transit observations is to attempt to gather as many spectra as possible before, during, and after a transit event with each image as identical as possible. As a transit observation consists of measuring a drop in stellar flux during the event, identical exposures are resistant to uncertainties in flat-fielding and very high precisions are possible. Our strategy is to replicate the observing strategy used by T. Brown during HST cycle 8 (program ID 8789, Brown et al. 2001) when observing HD209458b with the G750M grating. As HD189733 and HD209458b have nearly identical V magnitudes (7.65 vs 7.67 respectively), the observed G750M flux will be nearly equal in our wavelength range and even identical exposure times to PID8789 can be used. Thus we will have 60 second exposure times with the G750M grating at the 6094 ? secondary tilt, covering a wavelength range of 5808 – 6380 ? at a resolution of R=5540, utilizing the 52”x2” slit to minimize slit losses. STIS has a duty cycle of 20 seconds (in sub-array mode) giving a cadence of 1 spectrum every 80 seconds. This set up will result in a total of 143

spectra during a single 4-orbit visit. The first visit is expected to have systematically low flux, as consistently observed in previous STIS programs likely due to telescope thermal relaxation, will likely not be utilized in our study, and is not included in our S/N calculations.

In order to obtain the largest number of spectra, we will use the mode WAVECAL=NO in orbits 2, 3 and 4 of each visit. The wavelength calibration will come from visit 1 but could be obtained from the high S/N of the stellar spectrum itself.

Visit

Proposal 11572, Visit 01, failed Tue Oct 26 01:08:11 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: Period 2.218573 D AND ZERO-PHASE HJD2454037.611956

Diagnostics

(Visit 01) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 01) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 01) Warning (Orbit Planner): VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HD-189733	RA: 20 00 43.7133 (300.1821388d) Dec: +22 42 39.07 (22.71085d) Equinox: J2000	Proper Motion RA: -0.00018s/yr Proper Motion Dec: -0.251"/yr Parallax: 0.052" Epoch of Position: 2000.0	V=7.67	Reference Frame: ICRS

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

Exposures

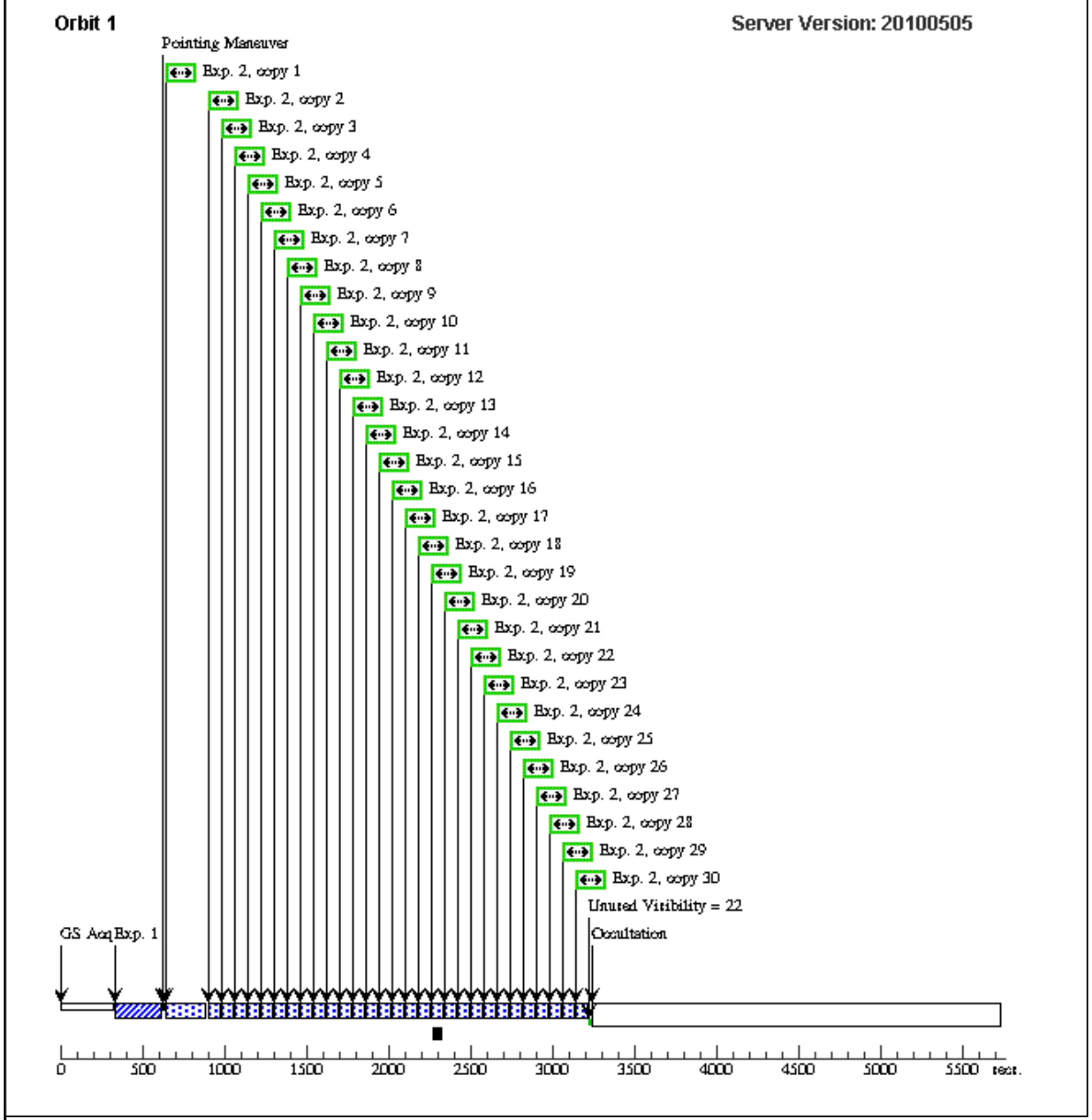
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	ACQ, Orbit 1 Phase Constrained	(1) HD-189733	STIS/CCD, ACQ, F28X50OII	MIRROR		PHASE 0.9263 TO 0.9359		5 Secs *[==>]*	 ***[1]***
2	G750M Orbit 1	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; SIZEAXIS2=64; GAIN=4			60 Secs X 30 *[==>(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)]*	 ***[1]***

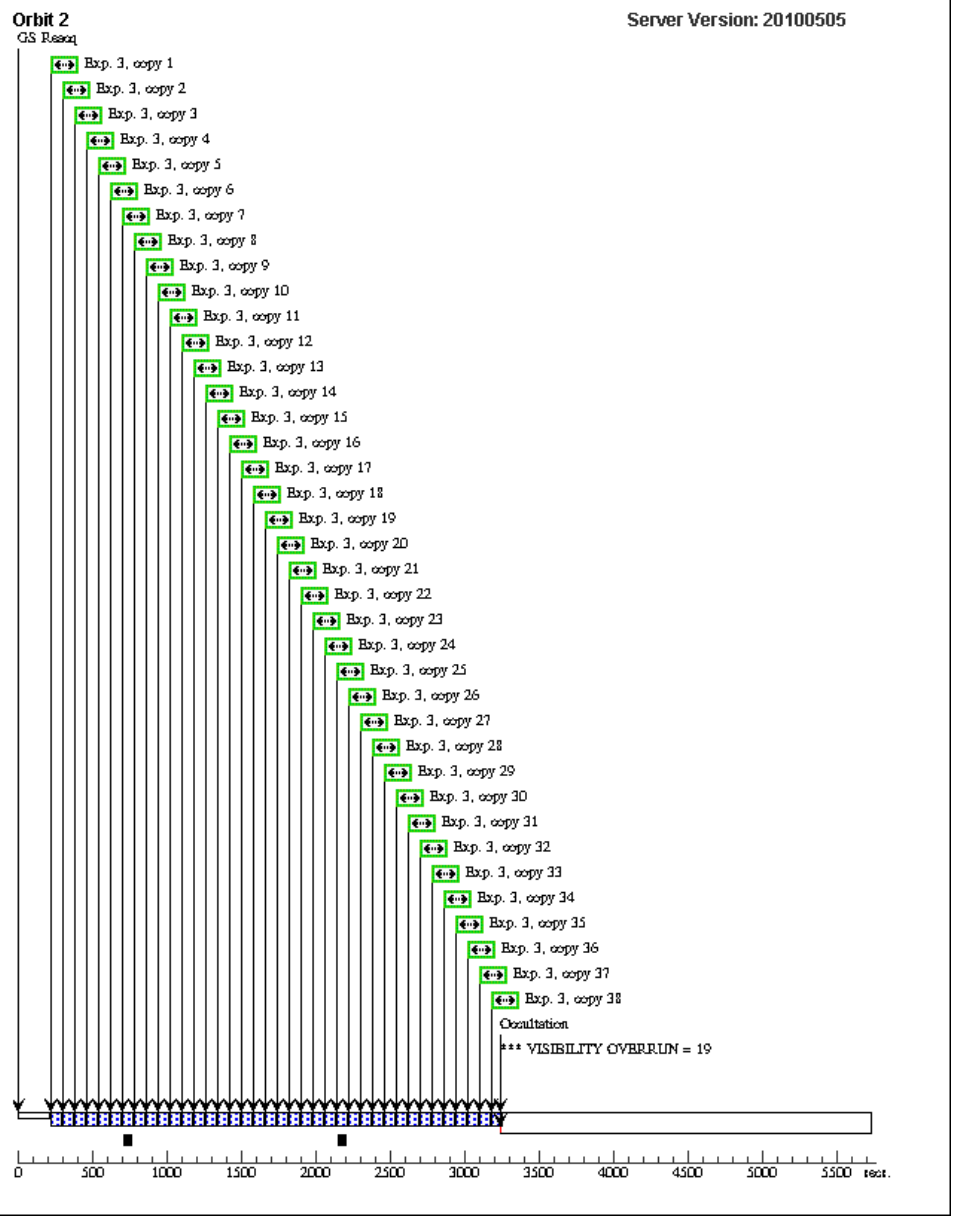
	3	G750M Orbi t 2	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=64; WAVECAL=NO	60 Secs X 38 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(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)]*	***[2]***

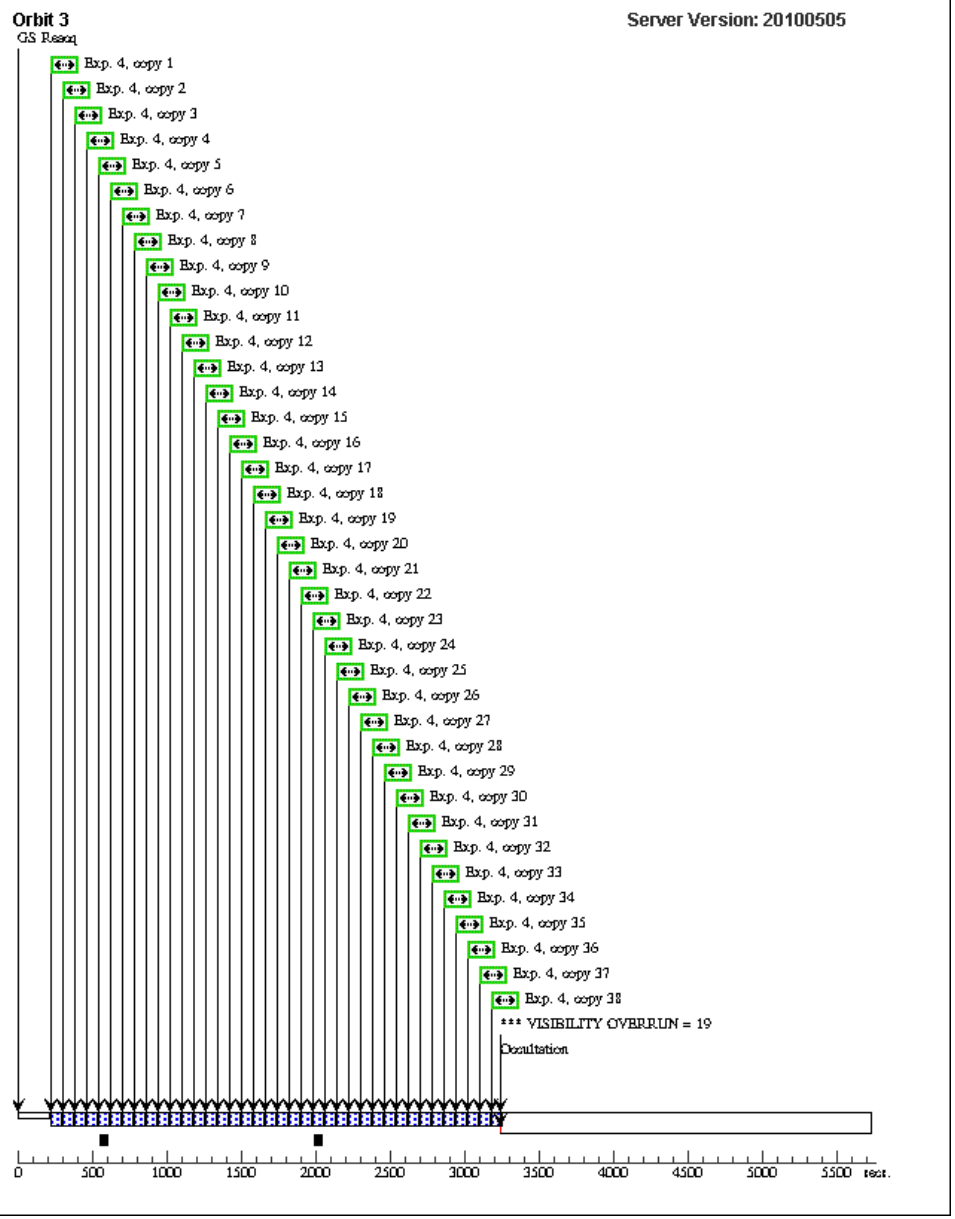
	4	G750M Orbi t 3	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=64; WAVECAL=NO	60 Secs X 38 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(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)]*	***[3]***

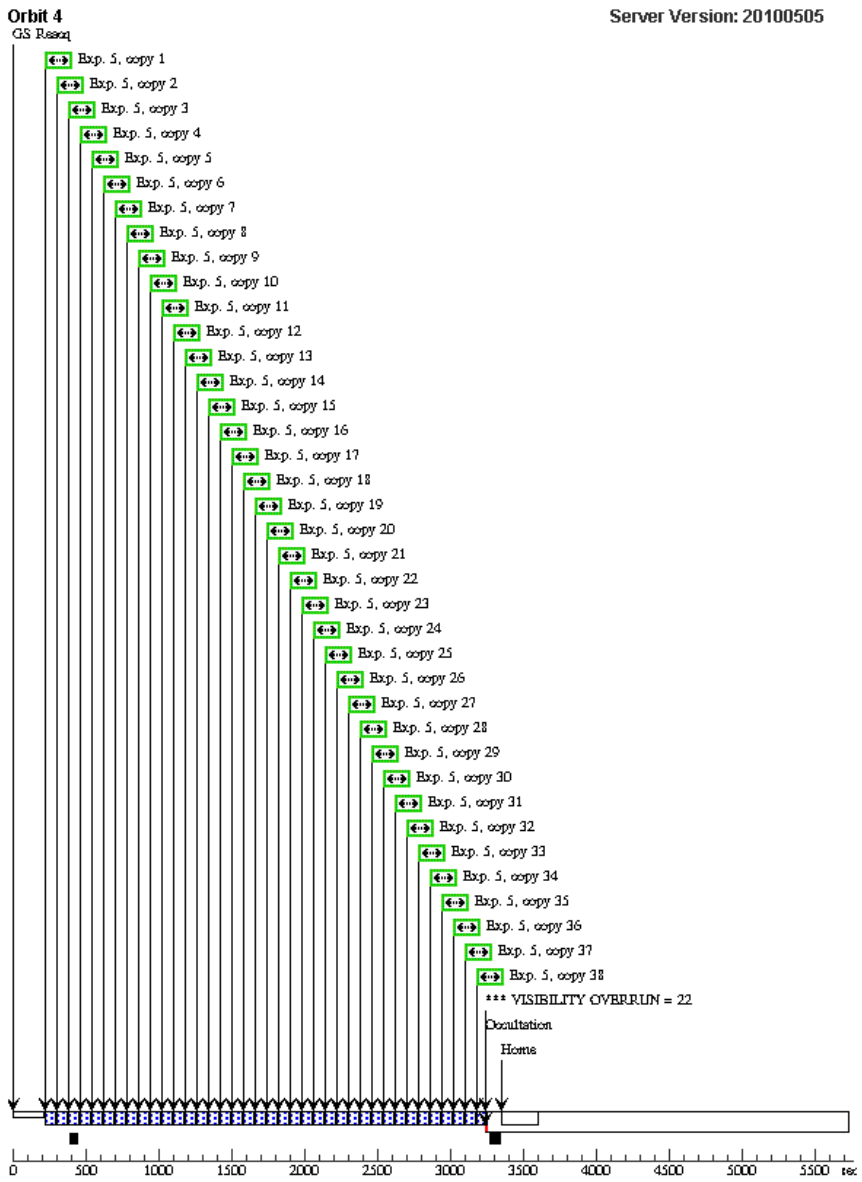
	5	G750M Orbi t 4	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=64; WAVECAL=NO	60 Secs X 38 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(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)]*	***[4]***

Orbit Structure




Orbit 2
Server Version: 20100505
GS Reseq
Exp. 3, copy 1
Exp. 3, copy 2
Exp. 3, copy 3
Exp. 3, copy 4
Exp. 3, copy 5
Exp. 3, copy 6
Exp. 3, copy 7
Exp. 3, copy 8
Exp. 3, copy 9
Exp. 3, copy 10
Exp. 3, copy 11
Exp. 3, copy 12
Exp. 3, copy 13
Exp. 3, copy 14
Exp. 3, copy 15
Exp. 3, copy 16
Exp. 3, copy 17
Exp. 3, copy 18
Exp. 3, copy 19
Exp. 3, copy 20
Exp. 3, copy 21
Exp. 3, copy 22
Exp. 3, copy 23
Exp. 3, copy 24
Exp. 3, copy 25
Exp. 3, copy 26
Exp. 3, copy 27
Exp. 3, copy 28
Exp. 3, copy 29
Exp. 3, copy 30
Exp. 3, copy 31
Exp. 3, copy 32
Exp. 3, copy 33
Exp. 3, copy 34
Exp. 3, copy 35
Exp. 3, copy 36
Exp. 3, copy 37
Exp. 3, copy 38
Occultation
*** VISIBILITY OVERRUN = 19
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 3
Server Version: 20100505
GS Reacq
Exp. 4, copy 1
Exp. 4, copy 2
Exp. 4, copy 3
Exp. 4, copy 4
Exp. 4, copy 5
Exp. 4, copy 6
Exp. 4, copy 7
Exp. 4, copy 8
Exp. 4, copy 9
Exp. 4, copy 10
Exp. 4, copy 11
Exp. 4, copy 12
Exp. 4, copy 13
Exp. 4, copy 14
Exp. 4, copy 15
Exp. 4, copy 16
Exp. 4, copy 17
Exp. 4, copy 18
Exp. 4, copy 19
Exp. 4, copy 20
Exp. 4, copy 21
Exp. 4, copy 22
Exp. 4, copy 23
Exp. 4, copy 24
Exp. 4, copy 25
Exp. 4, copy 26
Exp. 4, copy 27
Exp. 4, copy 28
Exp. 4, copy 29
Exp. 4, copy 30
Exp. 4, copy 31
Exp. 4, copy 32
Exp. 4, copy 33
Exp. 4, copy 34
Exp. 4, copy 35
Exp. 4, copy 36
Exp. 4, copy 37
Exp. 4, copy 38
*** VISIBILITY OVERRUN = 19
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 4
Server Version: 20100505
GS Reacq
Exp. 5, copy 1
Exp. 5, copy 2
Exp. 5, copy 3
Exp. 5, copy 4
Exp. 5, copy 5
Exp. 5, copy 6
Exp. 5, copy 7
Exp. 5, copy 8
Exp. 5, copy 9
Exp. 5, copy 10
Exp. 5, copy 11
Exp. 5, copy 12
Exp. 5, copy 13
Exp. 5, copy 14
Exp. 5, copy 15
Exp. 5, copy 16
Exp. 5, copy 17
Exp. 5, copy 18
Exp. 5, copy 19
Exp. 5, copy 20
Exp. 5, copy 21
Exp. 5, copy 22
Exp. 5, copy 23
Exp. 5, copy 24
Exp. 5, copy 25
Exp. 5, copy 26
Exp. 5, copy 27
Exp. 5, copy 28
Exp. 5, copy 29
Exp. 5, copy 30
Exp. 5, copy 31
Exp. 5, copy 32
Exp. 5, copy 33
Exp. 5, copy 34
Exp. 5, copy 35
Exp. 5, copy 36
Exp. 5, copy 37
Exp. 5, copy 38
*** VISIBILITY OVERRUN = 22
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11572, Visit 51, failed Tue Oct 26 01:08:15 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: Period 2.218573 D AND ZERO-PHASE HJD2454037.611956

Comments: This is a HOPR repeat of visit 01

Diagnostics

(Visit 51) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 51) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 51) Warning (Orbit Planner): VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HD-189733	RA: 20 00 43.7133 (300.1821388d) Dec: +22 42 39.07 (22.71085d) Equinox: J2000	Proper Motion RA: -0.00018s/yr Proper Motion Dec: -0.251"/yr Parallax: 0.052" Epoch of Position: 2000.0	V=7.67	Reference Frame: ICRS

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

Exposures

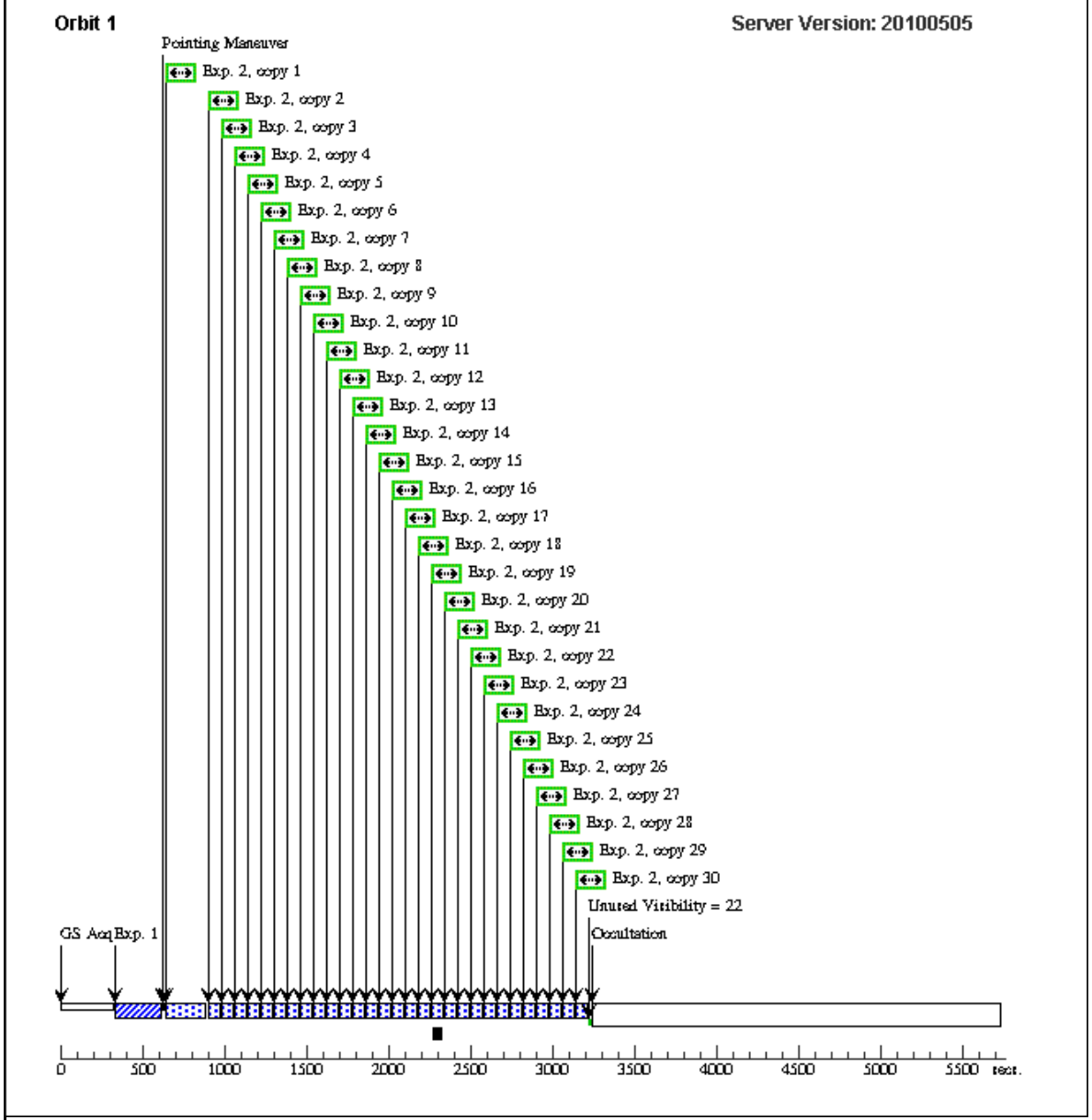
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	ACQ, Orbit 1 Phase Constrained	(1) HD-189733	STIS/CCD, ACQ, F28X50OII	MIRROR		PHASE 0.9263 TO 0.9359		5 Secs *[==>]*	 ***[1]***
2	G750M Orbit 1	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; SIZEAXIS2=64; GAIN=4; CENTERAXIS2=490			60 Secs X 30 *[==>(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)]*	 ***[1]***

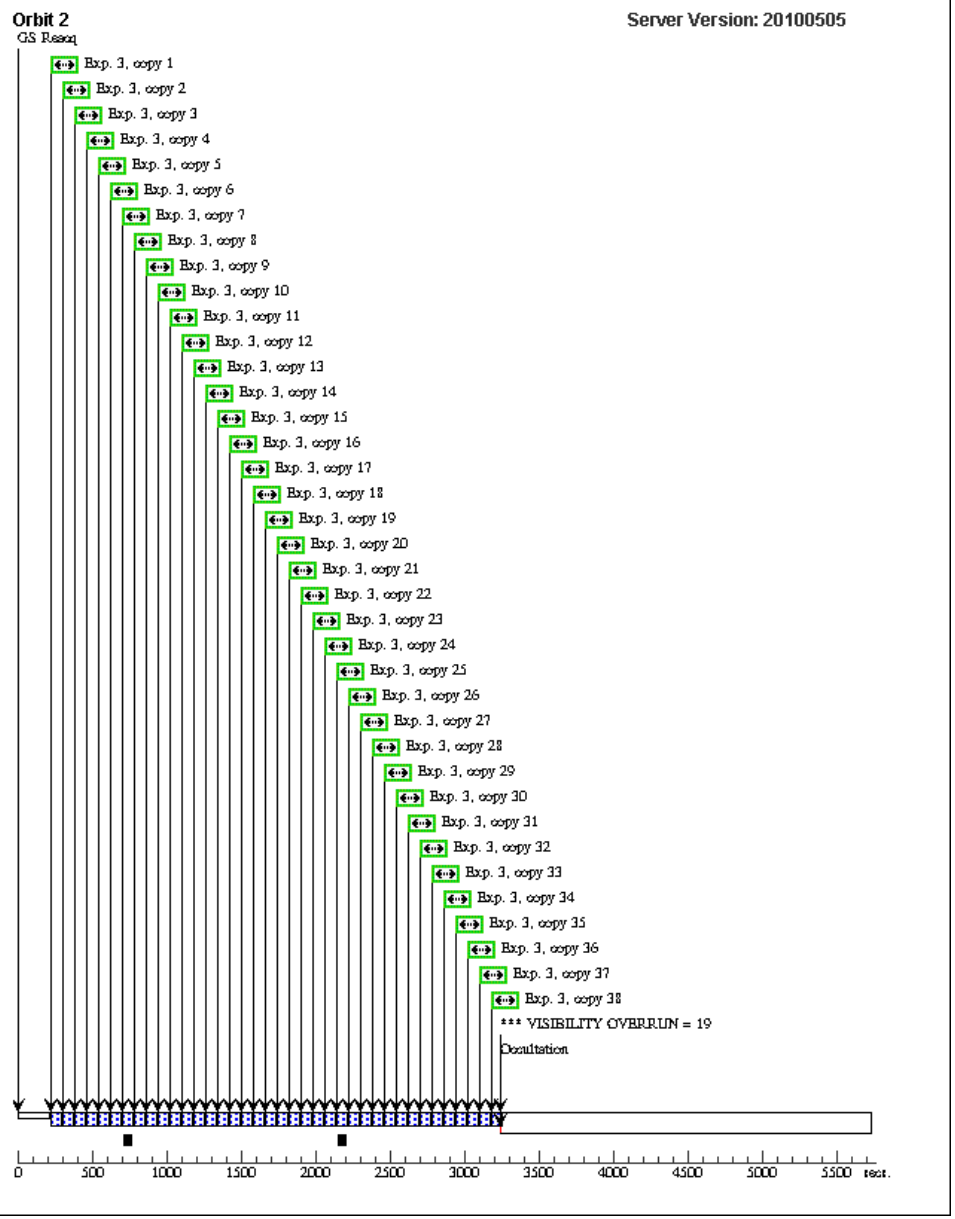
	3	G750M Orbi t 2	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=64; WAVECAL=NO; CENTERAXIS2=490	60 Secs X 38 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(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)]*	***[2]***

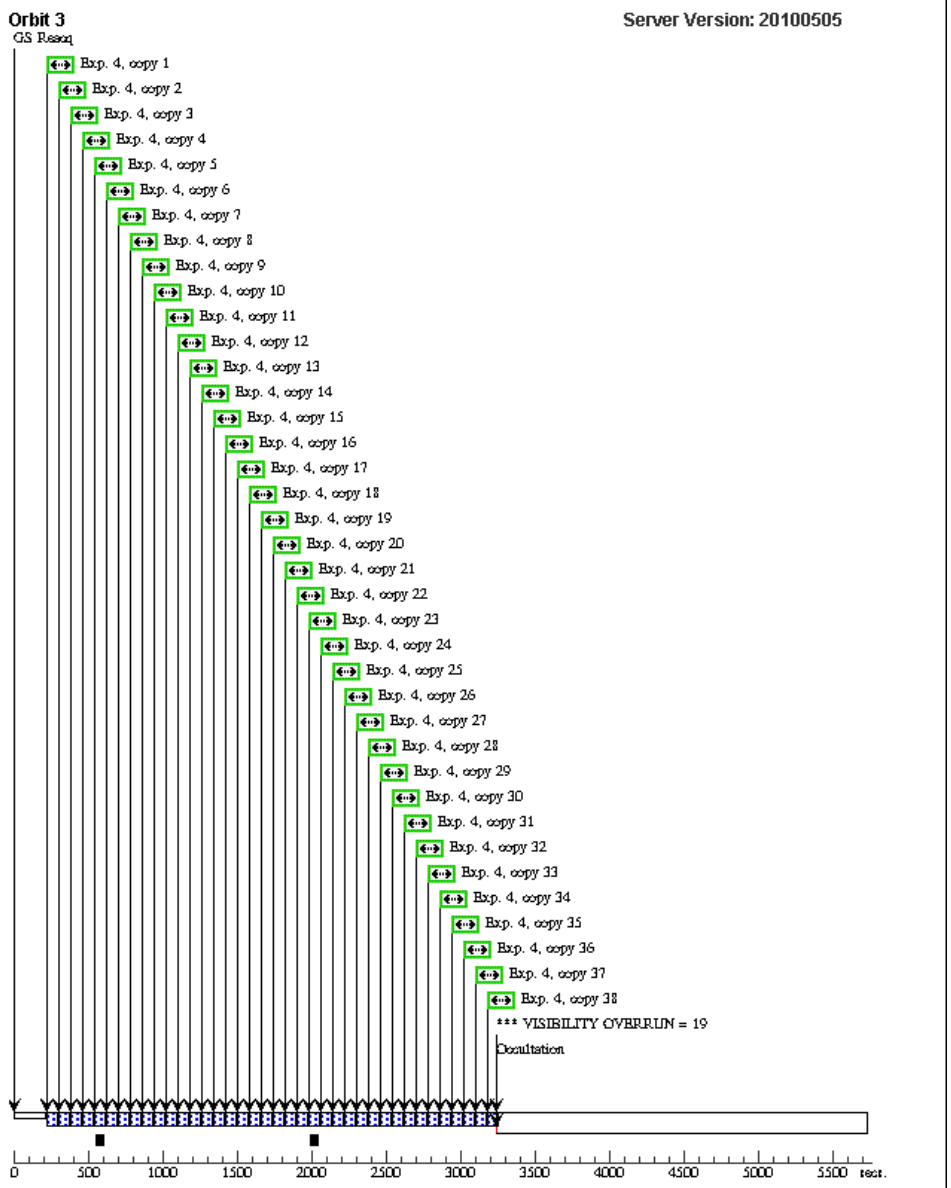
	4	G750M Orbit 3	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=64; WAVECAL=NO; CENTERAXIS2=490	60 Secs X 38 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(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)]*	***[3]***

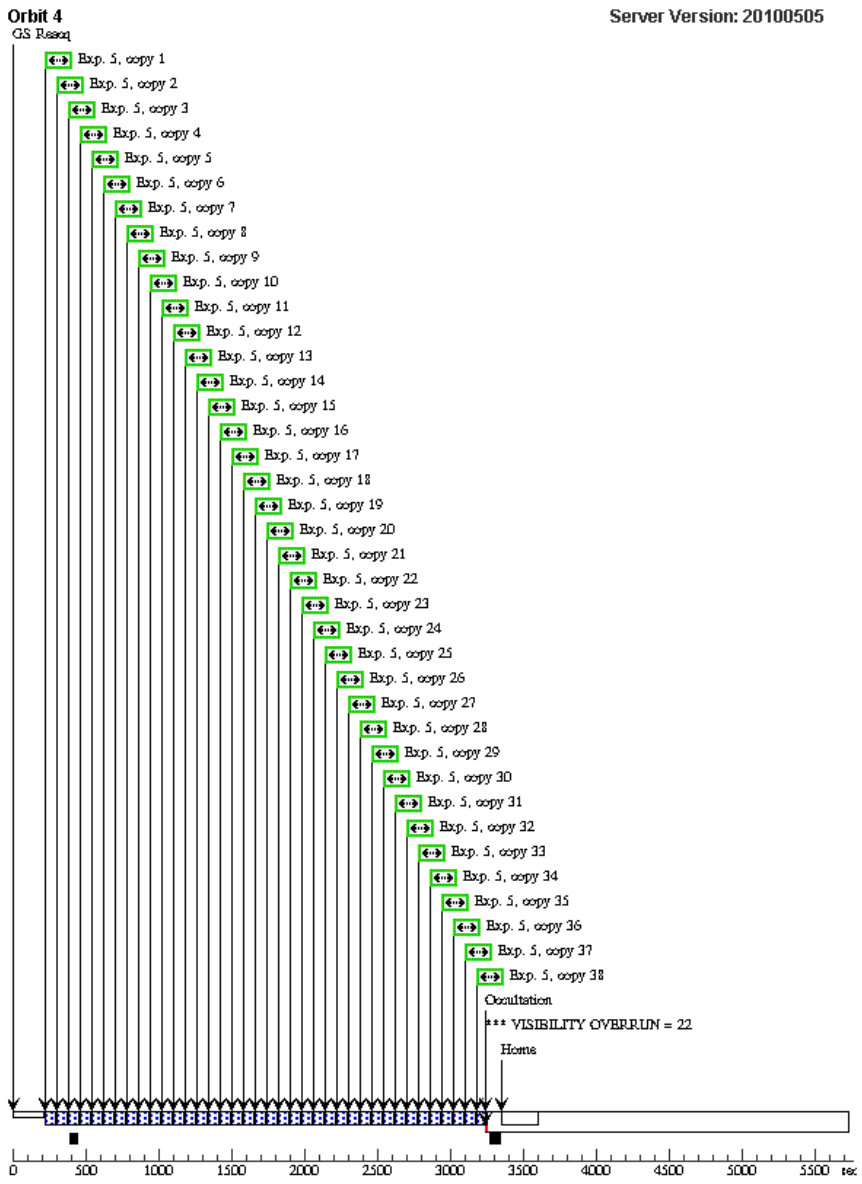
	5	G750M Orbit 4	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=64; WAVECAL=NO; CENTERAXIS2=490	60 Secs X 38 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(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)]*	***[4]***

Orbit Structure




Orbit 2
Server Version: 20100505
GS Reseq
Exp. 3, copy 1
Exp. 3, copy 2
Exp. 3, copy 3
Exp. 3, copy 4
Exp. 3, copy 5
Exp. 3, copy 6
Exp. 3, copy 7
Exp. 3, copy 8
Exp. 3, copy 9
Exp. 3, copy 10
Exp. 3, copy 11
Exp. 3, copy 12
Exp. 3, copy 13
Exp. 3, copy 14
Exp. 3, copy 15
Exp. 3, copy 16
Exp. 3, copy 17
Exp. 3, copy 18
Exp. 3, copy 19
Exp. 3, copy 20
Exp. 3, copy 21
Exp. 3, copy 22
Exp. 3, copy 23
Exp. 3, copy 24
Exp. 3, copy 25
Exp. 3, copy 26
Exp. 3, copy 27
Exp. 3, copy 28
Exp. 3, copy 29
Exp. 3, copy 30
Exp. 3, copy 31
Exp. 3, copy 32
Exp. 3, copy 33
Exp. 3, copy 34
Exp. 3, copy 35
Exp. 3, copy 36
Exp. 3, copy 37
Exp. 3, copy 38
*** VISIBILITY OVERRUN = 19
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 3
Server Version: 20100505
GS Reseq
Exp. 4, copy 1
Exp. 4, copy 2
Exp. 4, copy 3
Exp. 4, copy 4
Exp. 4, copy 5
Exp. 4, copy 6
Exp. 4, copy 7
Exp. 4, copy 8
Exp. 4, copy 9
Exp. 4, copy 10
Exp. 4, copy 11
Exp. 4, copy 12
Exp. 4, copy 13
Exp. 4, copy 14
Exp. 4, copy 15
Exp. 4, copy 16
Exp. 4, copy 17
Exp. 4, copy 18
Exp. 4, copy 19
Exp. 4, copy 20
Exp. 4, copy 21
Exp. 4, copy 22
Exp. 4, copy 23
Exp. 4, copy 24
Exp. 4, copy 25
Exp. 4, copy 26
Exp. 4, copy 27
Exp. 4, copy 28
Exp. 4, copy 29
Exp. 4, copy 30
Exp. 4, copy 31
Exp. 4, copy 32
Exp. 4, copy 33
Exp. 4, copy 34
Exp. 4, copy 35
Exp. 4, copy 36
Exp. 4, copy 37
Exp. 4, copy 38
*** VISIBILITY OVERRUN = 19
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 4
Server Version: 20100505
GS Reacq
Exp. 5, copy 1
Exp. 5, copy 2
Exp. 5, copy 3
Exp. 5, copy 4
Exp. 5, copy 5
Exp. 5, copy 6
Exp. 5, copy 7
Exp. 5, copy 8
Exp. 5, copy 9
Exp. 5, copy 10
Exp. 5, copy 11
Exp. 5, copy 12
Exp. 5, copy 13
Exp. 5, copy 14
Exp. 5, copy 15
Exp. 5, copy 16
Exp. 5, copy 17
Exp. 5, copy 18
Exp. 5, copy 19
Exp. 5, copy 20
Exp. 5, copy 21
Exp. 5, copy 22
Exp. 5, copy 23
Exp. 5, copy 24
Exp. 5, copy 25
Exp. 5, copy 26
Exp. 5, copy 27
Exp. 5, copy 28
Exp. 5, copy 29
Exp. 5, copy 30
Exp. 5, copy 31
Exp. 5, copy 32
Exp. 5, copy 33
Exp. 5, copy 34
Exp. 5, copy 35
Exp. 5, copy 36
Exp. 5, copy 37
Exp. 5, copy 38
Occultation
*** VISIBILITY OVERRUN = 22
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11572, Visit 53, withdrawn Tue Oct 26 01:08:18 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: Period 2.218573 D AND ZERO-PHASE HJD2454037.611956

Comments: This is a HOPR repeat of visit 51.

Diagnostics

(Visit 53) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 53) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 53) Warning (Orbit Planner): VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HD-189733	RA: 20 00 43.7133 (300.1821388d) Dec: +22 42 39.07 (22.71085d) Equinox: J2000	Proper Motion RA: -0.00018s/yr Proper Motion Dec: -0.251"/yr Parallax: 0.052" Epoch of Position: 2000.0	V=7.67	Reference Frame: ICRS

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

Exposures

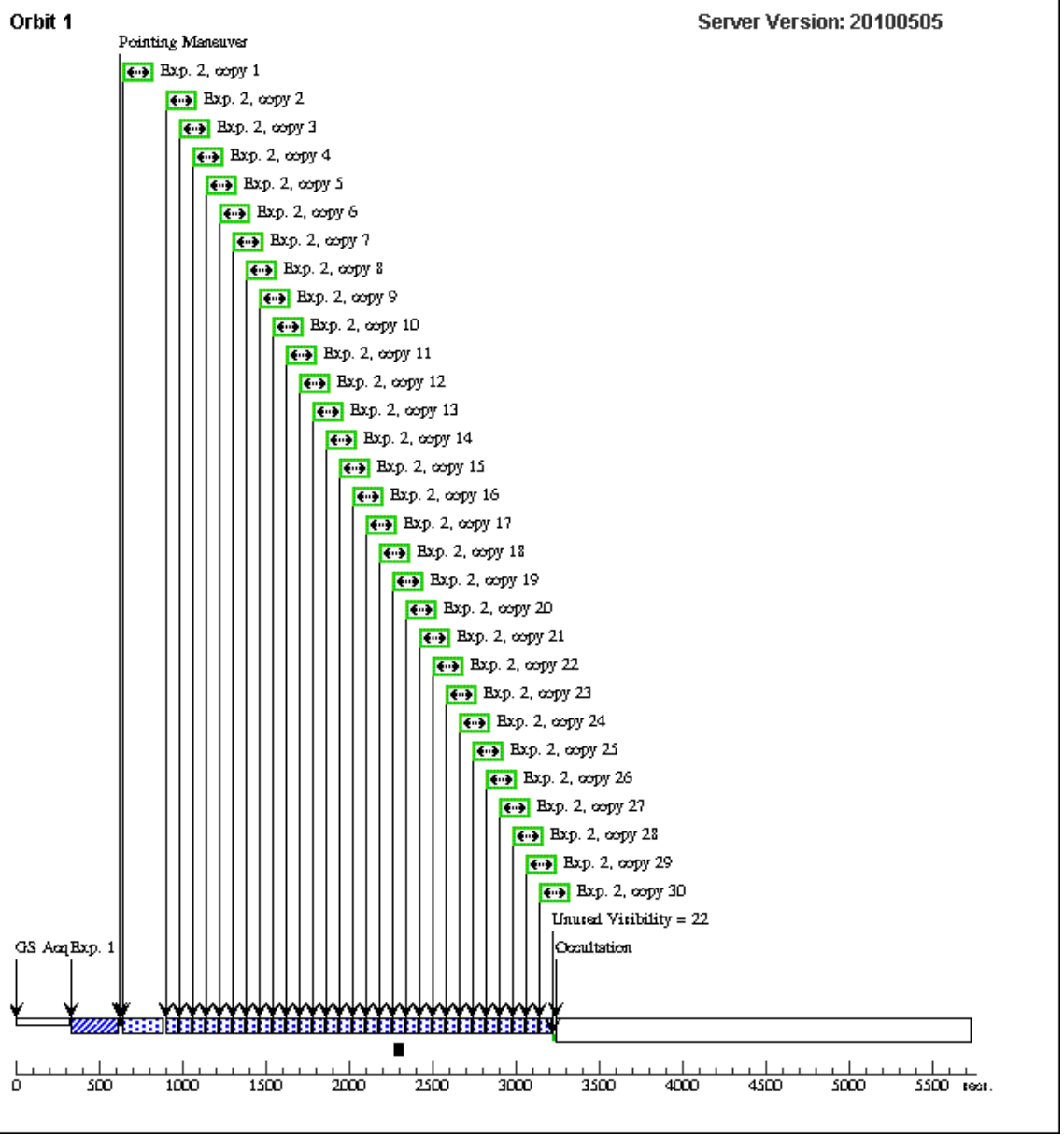
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	ACQ, Orbit 1 Phase Constrained	(1) HD-189733	STIS/CCD, ACQ, F28X50OII	MIRROR		PHASE 0.9263 TO 0.9359		5 Secs *[==>]*	 ***[1]***
2	G750M Orbit 1	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; SIZEAXIS2=64; GAIN=4; CENTERAXIS2=490			60 Secs X 30 *[==>(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)]*	 ***[1]***

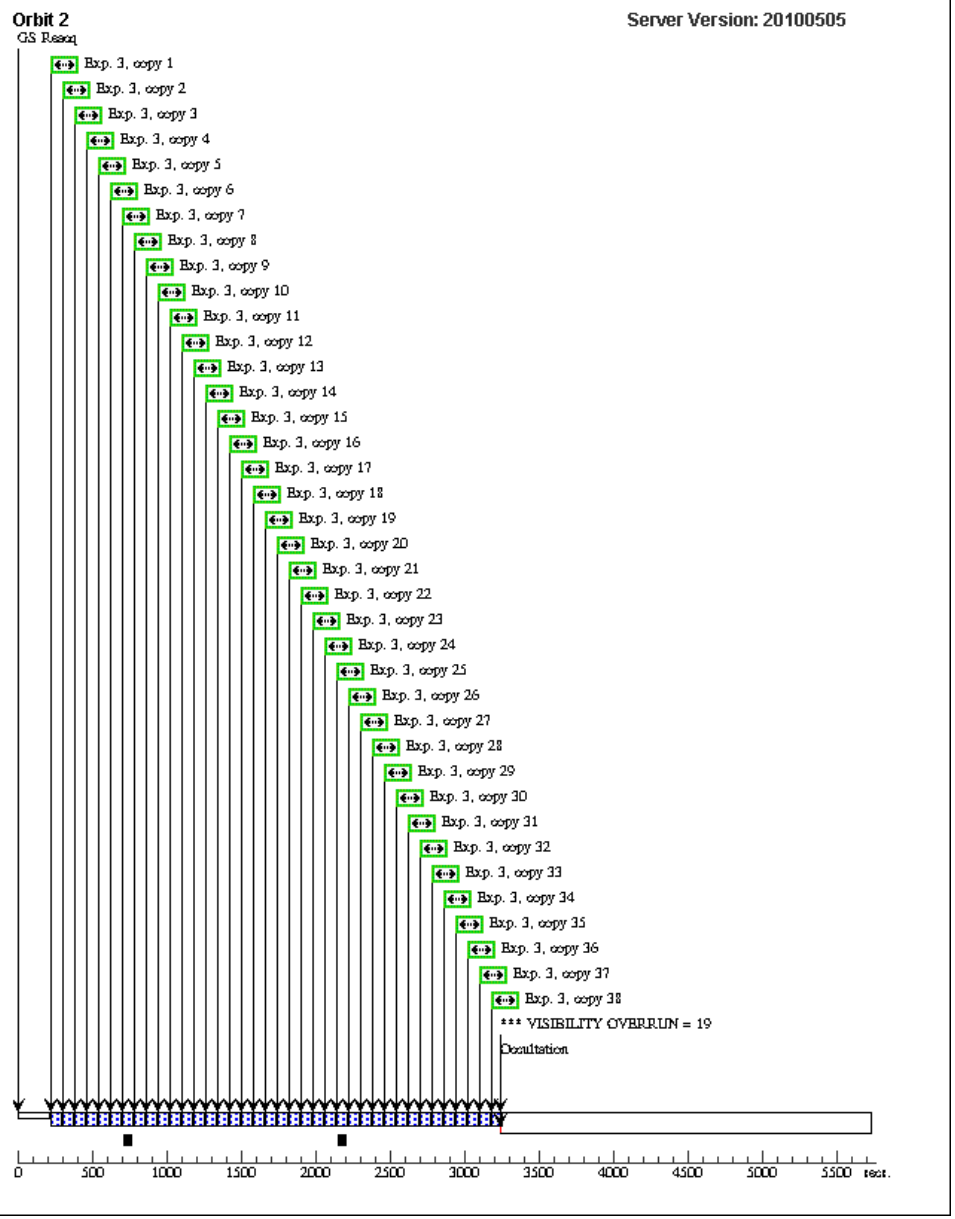
	3	G750M Orbi t 2	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=64; WAVECAL=NO; CENTERAXIS2=490	60 Secs X 38 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(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)]*	***[2]***

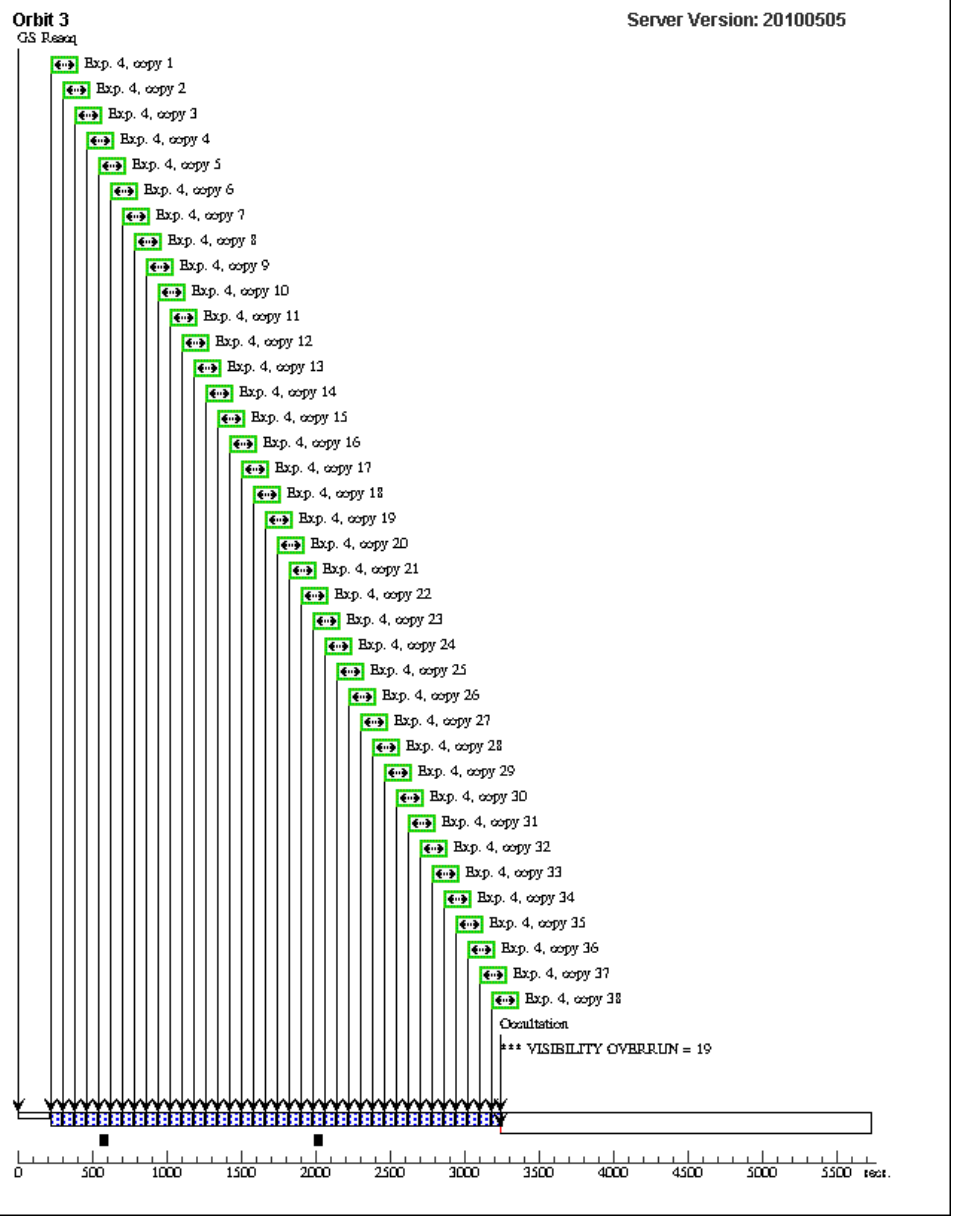
	4	G750M Orbit 3	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=64; WAVECAL=NO; CENTERAXIS2=490	60 Secs X 38 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(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)]*	***[3]***

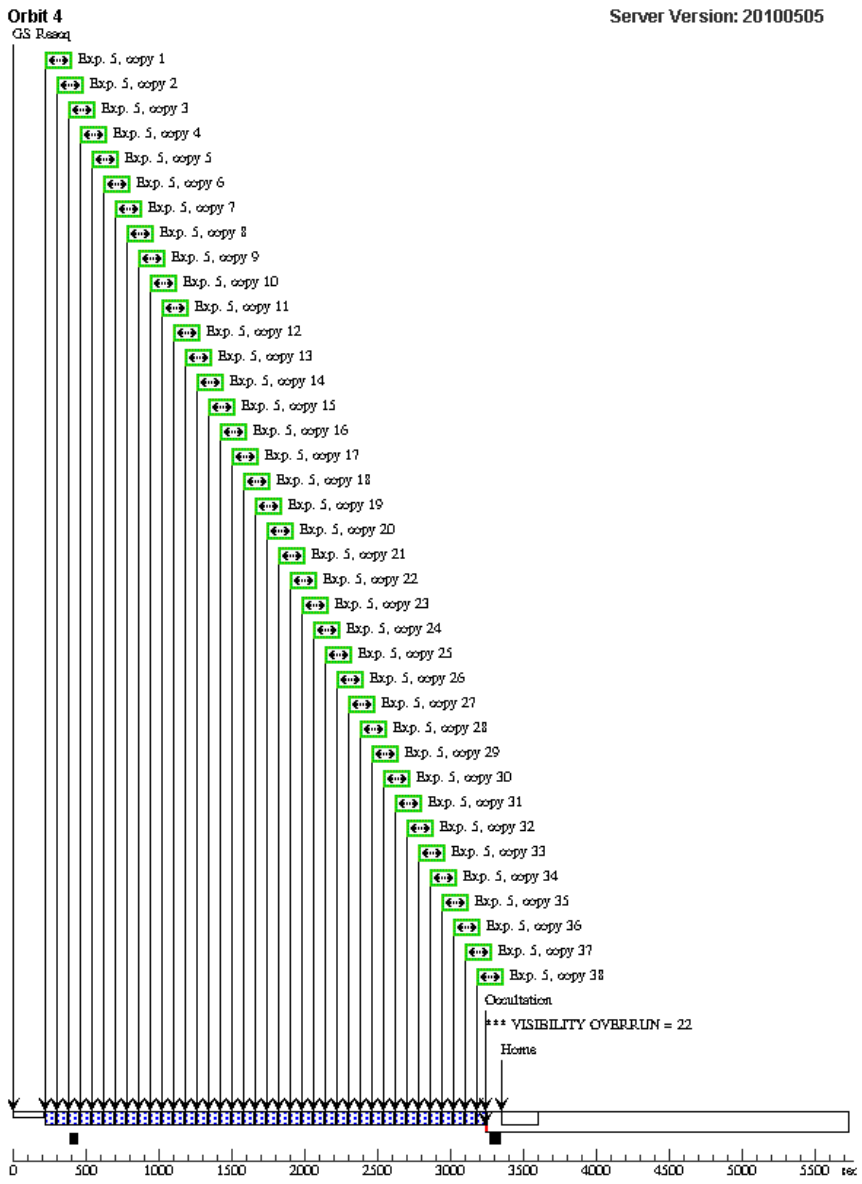
	5	G750M Orbit 4	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=64; WAVECAL=NO; CENTERAXIS2=490	60 Secs X 38 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(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)]*	***[4]***

Orbit Structure




Orbit 2
Server Version: 20100505
GS Reseq
Exp. 3, copy 1
Exp. 3, copy 2
Exp. 3, copy 3
Exp. 3, copy 4
Exp. 3, copy 5
Exp. 3, copy 6
Exp. 3, copy 7
Exp. 3, copy 8
Exp. 3, copy 9
Exp. 3, copy 10
Exp. 3, copy 11
Exp. 3, copy 12
Exp. 3, copy 13
Exp. 3, copy 14
Exp. 3, copy 15
Exp. 3, copy 16
Exp. 3, copy 17
Exp. 3, copy 18
Exp. 3, copy 19
Exp. 3, copy 20
Exp. 3, copy 21
Exp. 3, copy 22
Exp. 3, copy 23
Exp. 3, copy 24
Exp. 3, copy 25
Exp. 3, copy 26
Exp. 3, copy 27
Exp. 3, copy 28
Exp. 3, copy 29
Exp. 3, copy 30
Exp. 3, copy 31
Exp. 3, copy 32
Exp. 3, copy 33
Exp. 3, copy 34
Exp. 3, copy 35
Exp. 3, copy 36
Exp. 3, copy 37
Exp. 3, copy 38
*** VISIBILITY OVERRUN = 19
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 3
Server Version: 20100505
GS Reseq
Exp. 4, copy 1
Exp. 4, copy 2
Exp. 4, copy 3
Exp. 4, copy 4
Exp. 4, copy 5
Exp. 4, copy 6
Exp. 4, copy 7
Exp. 4, copy 8
Exp. 4, copy 9
Exp. 4, copy 10
Exp. 4, copy 11
Exp. 4, copy 12
Exp. 4, copy 13
Exp. 4, copy 14
Exp. 4, copy 15
Exp. 4, copy 16
Exp. 4, copy 17
Exp. 4, copy 18
Exp. 4, copy 19
Exp. 4, copy 20
Exp. 4, copy 21
Exp. 4, copy 22
Exp. 4, copy 23
Exp. 4, copy 24
Exp. 4, copy 25
Exp. 4, copy 26
Exp. 4, copy 27
Exp. 4, copy 28
Exp. 4, copy 29
Exp. 4, copy 30
Exp. 4, copy 31
Exp. 4, copy 32
Exp. 4, copy 33
Exp. 4, copy 34
Exp. 4, copy 35
Exp. 4, copy 36
Exp. 4, copy 37
Exp. 4, copy 38
Occultation
*** VISIBILITY OVERRUN = 19
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 4
Server Version: 20100505
GS Reacq
Exp. 5, copy 1
Exp. 5, copy 2
Exp. 5, copy 3
Exp. 5, copy 4
Exp. 5, copy 5
Exp. 5, copy 6
Exp. 5, copy 7
Exp. 5, copy 8
Exp. 5, copy 9
Exp. 5, copy 10
Exp. 5, copy 11
Exp. 5, copy 12
Exp. 5, copy 13
Exp. 5, copy 14
Exp. 5, copy 15
Exp. 5, copy 16
Exp. 5, copy 17
Exp. 5, copy 18
Exp. 5, copy 19
Exp. 5, copy 20
Exp. 5, copy 21
Exp. 5, copy 22
Exp. 5, copy 23
Exp. 5, copy 24
Exp. 5, copy 25
Exp. 5, copy 26
Exp. 5, copy 27
Exp. 5, copy 28
Exp. 5, copy 29
Exp. 5, copy 30
Exp. 5, copy 31
Exp. 5, copy 32
Exp. 5, copy 33
Exp. 5, copy 34
Exp. 5, copy 35
Exp. 5, copy 36
Exp. 5, copy 37
Exp. 5, copy 38
Occultation
*** VISIBILITY OVERRUN = 22
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Proposal 11572 - Visit 53 - Charaterizing Atmospheric Sodium in the Transiting hot-Jupiter HD189733b

Visit

Proposal 11572, Visit 54, completed Tue Oct 26 01:08:21 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: Period 2.218573 D AND ZERO-PHASE HJD2454037.611956

Diagnostics

(Visit 54) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 54) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 54) Warning (Orbit Planner): VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HD-189733	RA: 20 00 43.7133 (300.1821388d) Dec: +22 42 39.07 (22.71085d) Equinox: J2000	Proper Motion RA: -0.00018s/yr Proper Motion Dec: -0.251"/yr Parallax: 0.052" Epoch of Position: 2000.0	V=7.67	Reference Frame: ICRS

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

Exposures

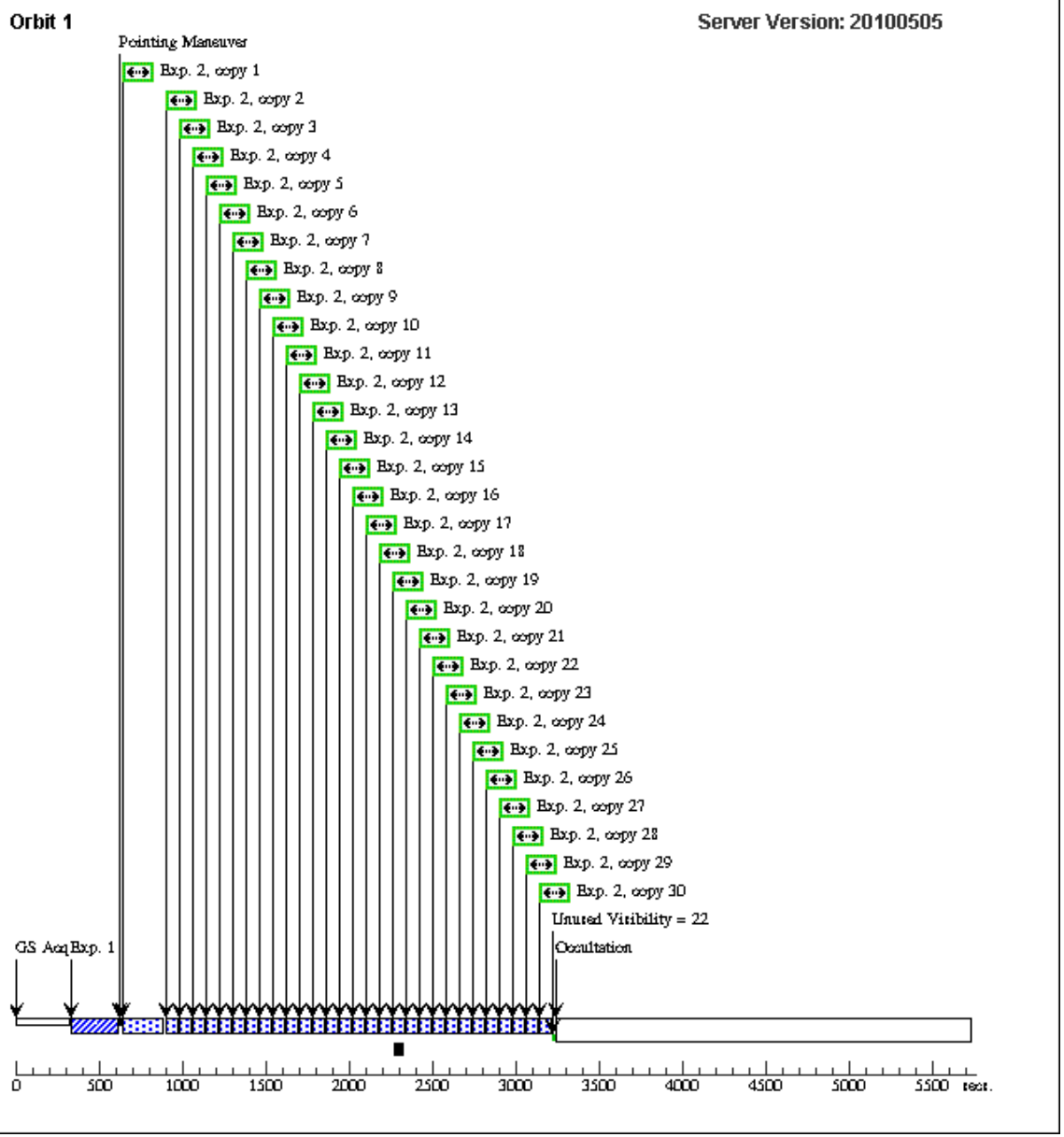
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	ACQ, Orbit 1 Phase Constrained	(1) HD-189733	STIS/CCD, ACQ, F28X50OII	MIRROR		PHASE 0.9263 TO 0.9359		5 Secs *[==>]*	 ***[1]***
2	G750M Orbit 1	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; SIZEAXIS2=64; GAIN=4			60 Secs X 30 *[==>(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)]*	 ***[1]***

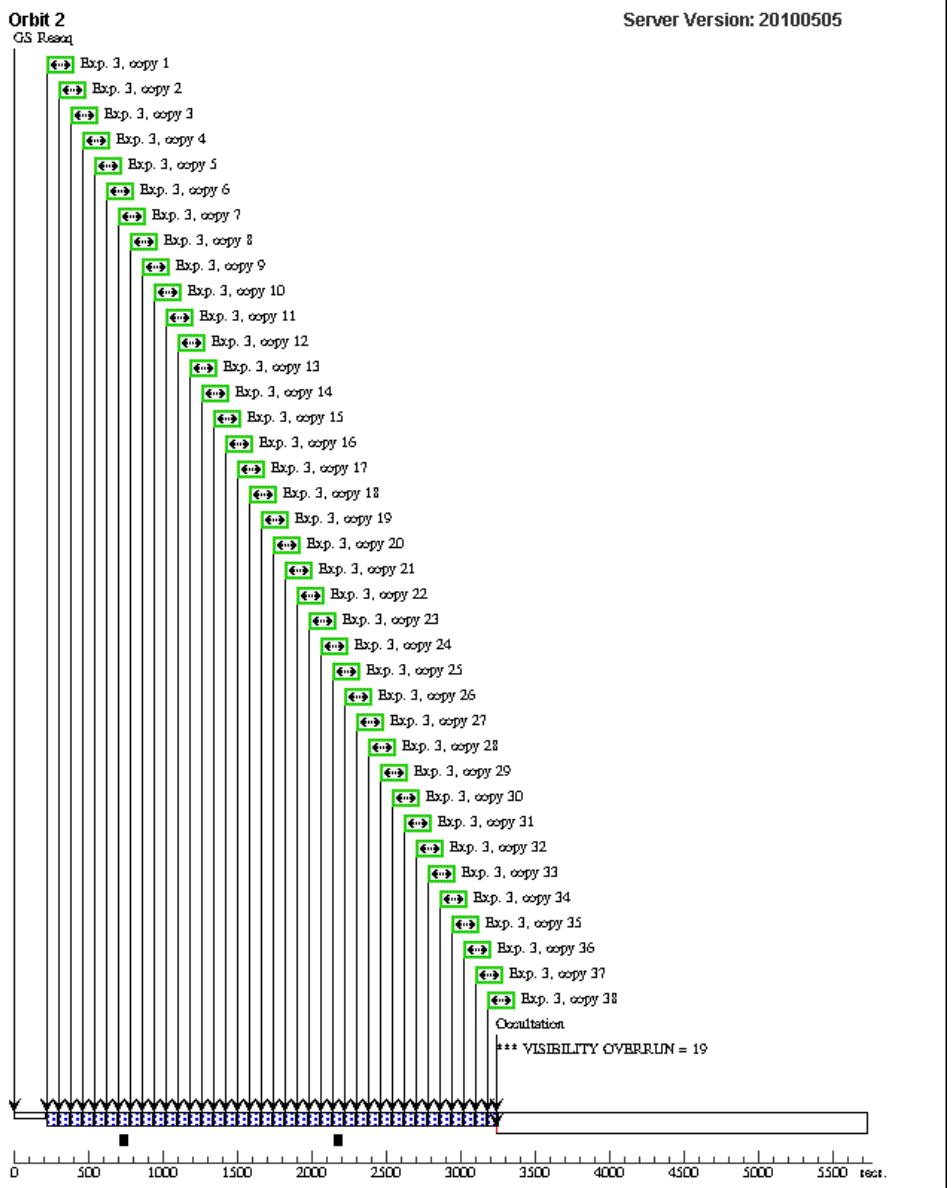
	3	G750M Orbi t 2	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=64; WAVECAL=NO	60 Secs X 38 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(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)]*	***[2]***

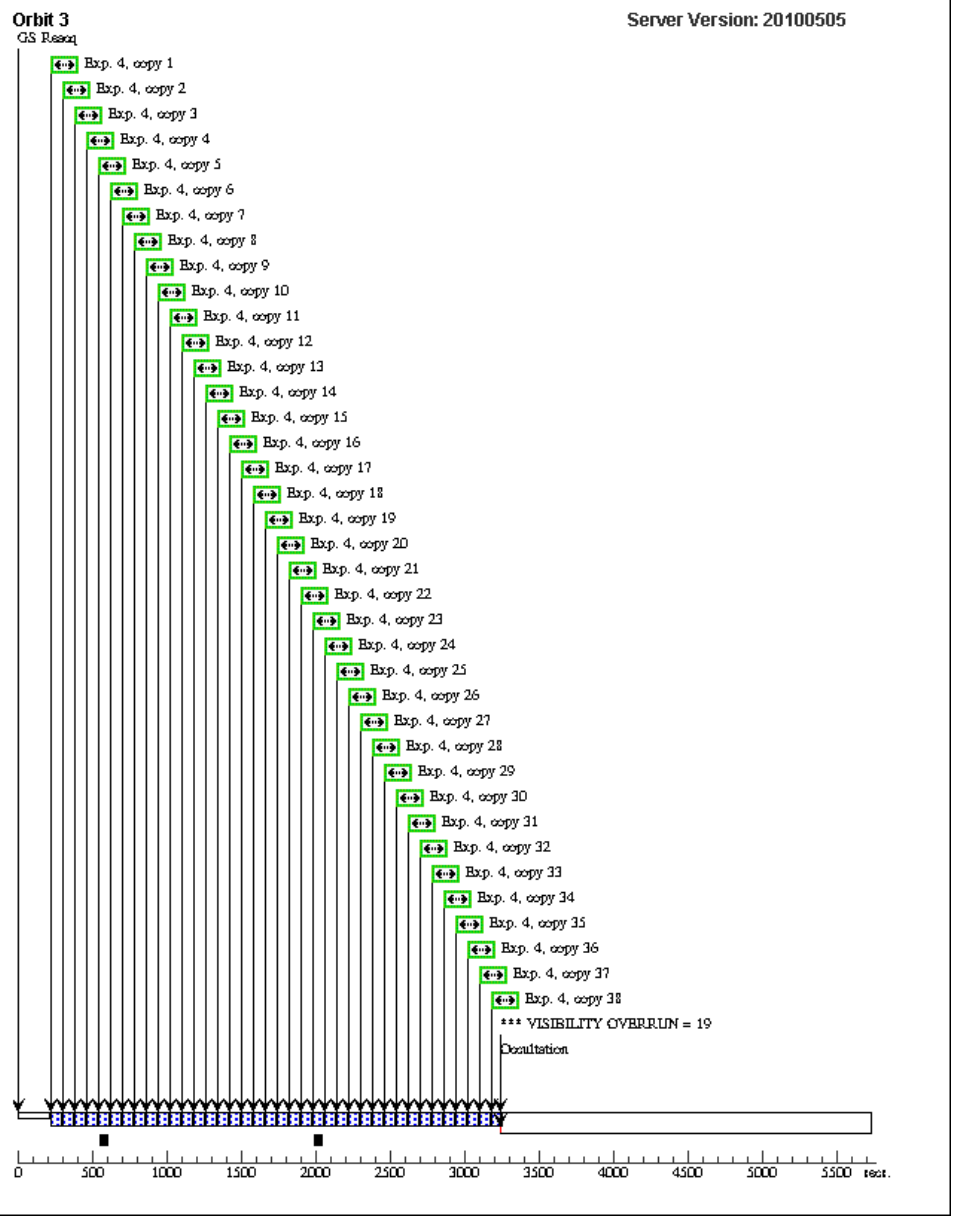
	4	G750M Orbi t 3	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=64; WAVECAL=NO	60 Secs X 38 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(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)]*	***[3]***

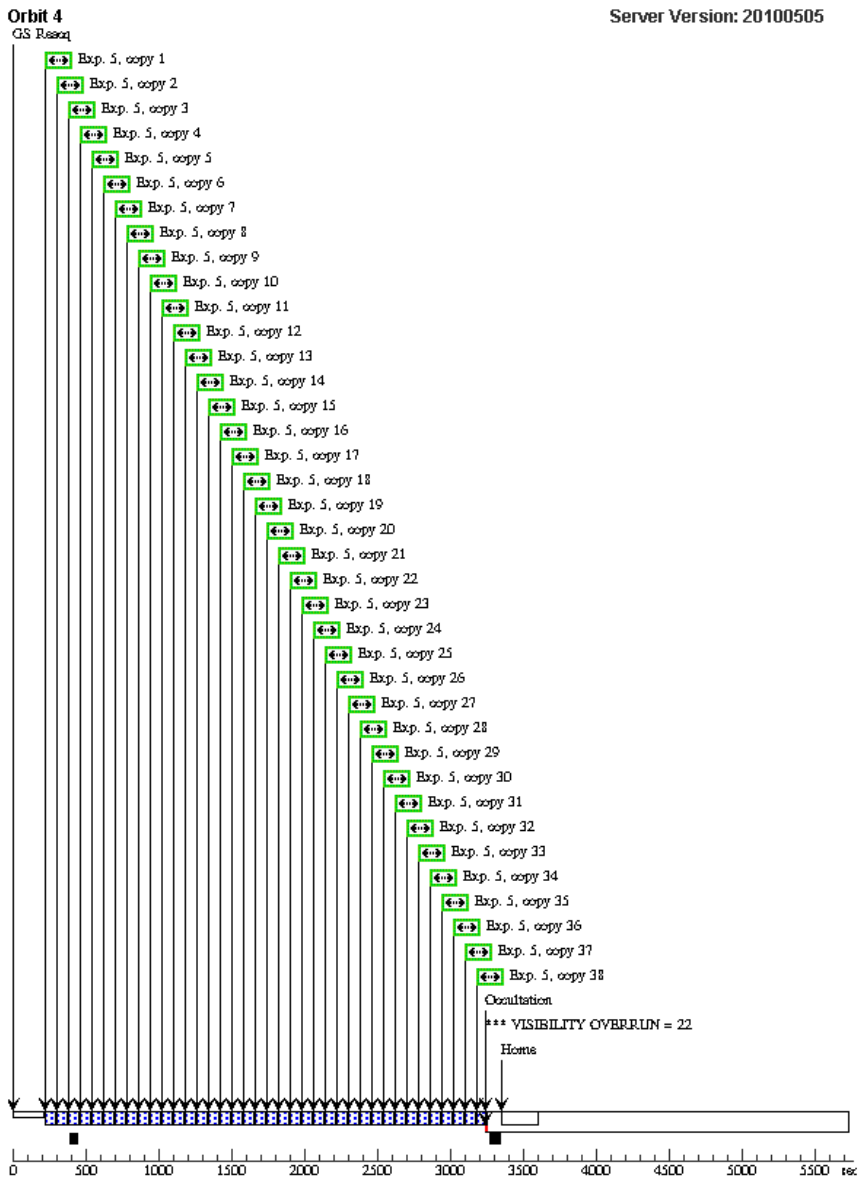
	5	G750M Orbi t 4	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=64; WAVECAL=NO	60 Secs X 38 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(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)]*	***[4]***

Orbit Structure




Orbit 2
Server Version: 20100505
GS Reseq
Exp. 3, copy 1
Exp. 3, copy 2
Exp. 3, copy 3
Exp. 3, copy 4
Exp. 3, copy 5
Exp. 3, copy 6
Exp. 3, copy 7
Exp. 3, copy 8
Exp. 3, copy 9
Exp. 3, copy 10
Exp. 3, copy 11
Exp. 3, copy 12
Exp. 3, copy 13
Exp. 3, copy 14
Exp. 3, copy 15
Exp. 3, copy 16
Exp. 3, copy 17
Exp. 3, copy 18
Exp. 3, copy 19
Exp. 3, copy 20
Exp. 3, copy 21
Exp. 3, copy 22
Exp. 3, copy 23
Exp. 3, copy 24
Exp. 3, copy 25
Exp. 3, copy 26
Exp. 3, copy 27
Exp. 3, copy 28
Exp. 3, copy 29
Exp. 3, copy 30
Exp. 3, copy 31
Exp. 3, copy 32
Exp. 3, copy 33
Exp. 3, copy 34
Exp. 3, copy 35
Exp. 3, copy 36
Exp. 3, copy 37
Exp. 3, copy 38
Occultation
*** VISIBILITY OVERRUN = 19
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 3
Server Version: 20100505
GS Reseq
Exp. 4, copy 1
Exp. 4, copy 2
Exp. 4, copy 3
Exp. 4, copy 4
Exp. 4, copy 5
Exp. 4, copy 6
Exp. 4, copy 7
Exp. 4, copy 8
Exp. 4, copy 9
Exp. 4, copy 10
Exp. 4, copy 11
Exp. 4, copy 12
Exp. 4, copy 13
Exp. 4, copy 14
Exp. 4, copy 15
Exp. 4, copy 16
Exp. 4, copy 17
Exp. 4, copy 18
Exp. 4, copy 19
Exp. 4, copy 20
Exp. 4, copy 21
Exp. 4, copy 22
Exp. 4, copy 23
Exp. 4, copy 24
Exp. 4, copy 25
Exp. 4, copy 26
Exp. 4, copy 27
Exp. 4, copy 28
Exp. 4, copy 29
Exp. 4, copy 30
Exp. 4, copy 31
Exp. 4, copy 32
Exp. 4, copy 33
Exp. 4, copy 34
Exp. 4, copy 35
Exp. 4, copy 36
Exp. 4, copy 37
Exp. 4, copy 38
*** VISIBILITY OVERRUN = 19
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 4
Server Version: 20100505
GS Reacq
Exp. 5, copy 1
Exp. 5, copy 2
Exp. 5, copy 3
Exp. 5, copy 4
Exp. 5, copy 5
Exp. 5, copy 6
Exp. 5, copy 7
Exp. 5, copy 8
Exp. 5, copy 9
Exp. 5, copy 10
Exp. 5, copy 11
Exp. 5, copy 12
Exp. 5, copy 13
Exp. 5, copy 14
Exp. 5, copy 15
Exp. 5, copy 16
Exp. 5, copy 17
Exp. 5, copy 18
Exp. 5, copy 19
Exp. 5, copy 20
Exp. 5, copy 21
Exp. 5, copy 22
Exp. 5, copy 23
Exp. 5, copy 24
Exp. 5, copy 25
Exp. 5, copy 26
Exp. 5, copy 27
Exp. 5, copy 28
Exp. 5, copy 29
Exp. 5, copy 30
Exp. 5, copy 31
Exp. 5, copy 32
Exp. 5, copy 33
Exp. 5, copy 34
Exp. 5, copy 35
Exp. 5, copy 36
Exp. 5, copy 37
Exp. 5, copy 38
Occultation
*** VISIBILITY OVERRUN = 22
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Proposal 11572 - Visit 54 - Charaterizing Atmospheric Sodium in the Transiting hot-Jupiter HD189733b

Visit

Proposal 11572, Visit 02, failed Tue Oct 26 01:08:23 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: Period 2.218573 D AND ZERO-PHASE HJD2454037.611956

Diagnostics

(Visit 02) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 02) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 02) Warning (Orbit Planner): VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HD-189733	RA: 20 00 43.7133 (300.1821388d)	Proper Motion RA: -0.00018s/yr	V=7.67	Reference Frame: ICRS
		Dec: +22 42 39.07 (22.71085d)	Proper Motion Dec: -0.251"/yr		
		Equinox: J2000	Parallax: 0.052"		
			Epoch of Position: 2000.0		

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

Exposures

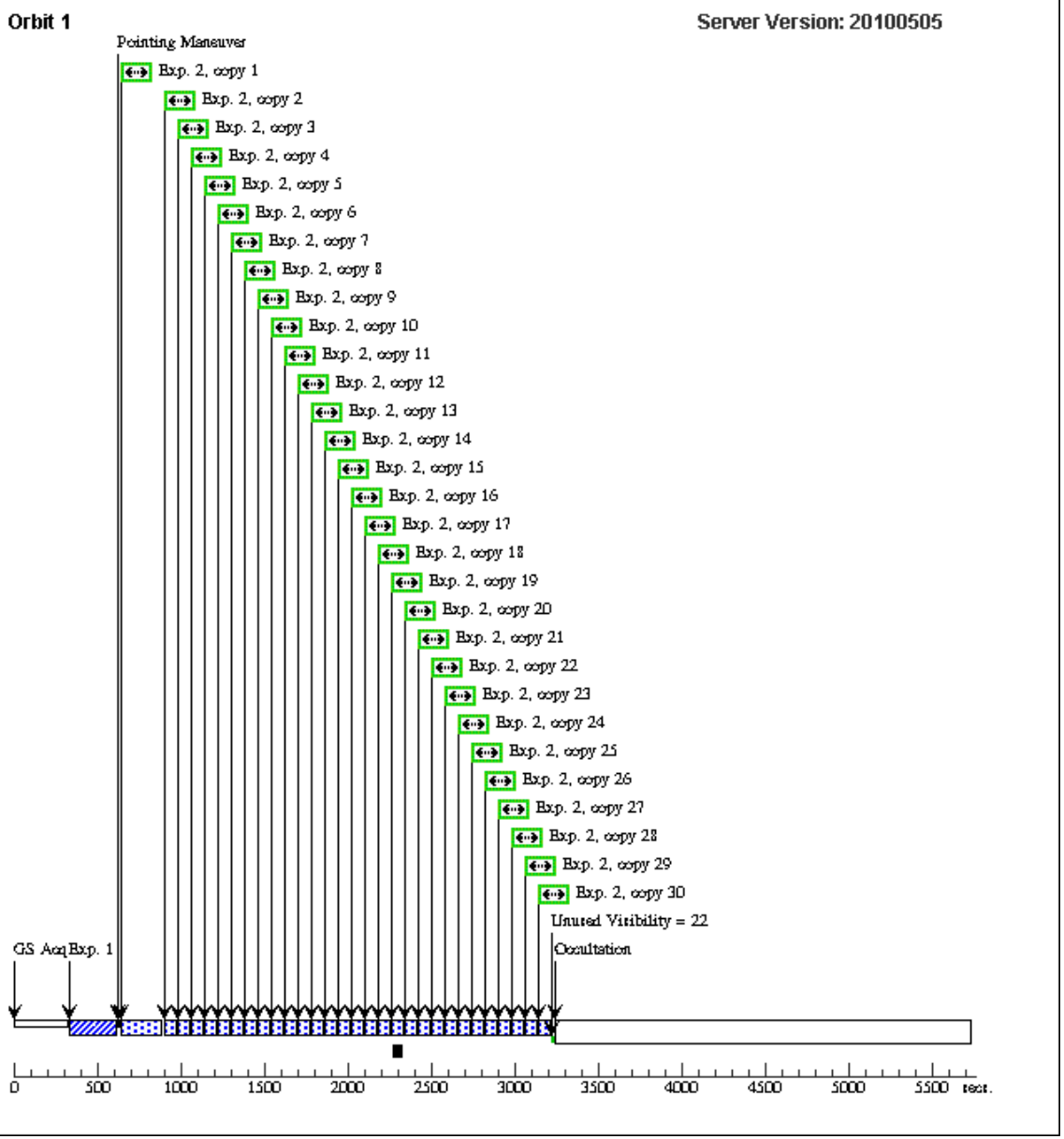
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	ACQ, Phase Constrained	(1) HD-189733	STIS/CCD, ACQ, F28X50OII	MIRROR		PHASE 0.9263 TO 0 .9359		5 Secs	
								[==>]	***[1]***
2	G750M Orbit 1	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; SIZEAXIS2=64; GAIN=4			60 Secs X 30	
								[==>(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)]	***[1]***
								[==>(Copy 22)]	
								[==>(Copy 23)]	
								[==>(Copy 24)]	
								[==>(Copy 25)]	
								[==>(Copy 26)]	
								[==>(Copy 27)]	
								[==>(Copy 28)]	
								[==>(Copy 29)]	
								[==>(Copy 30)]	

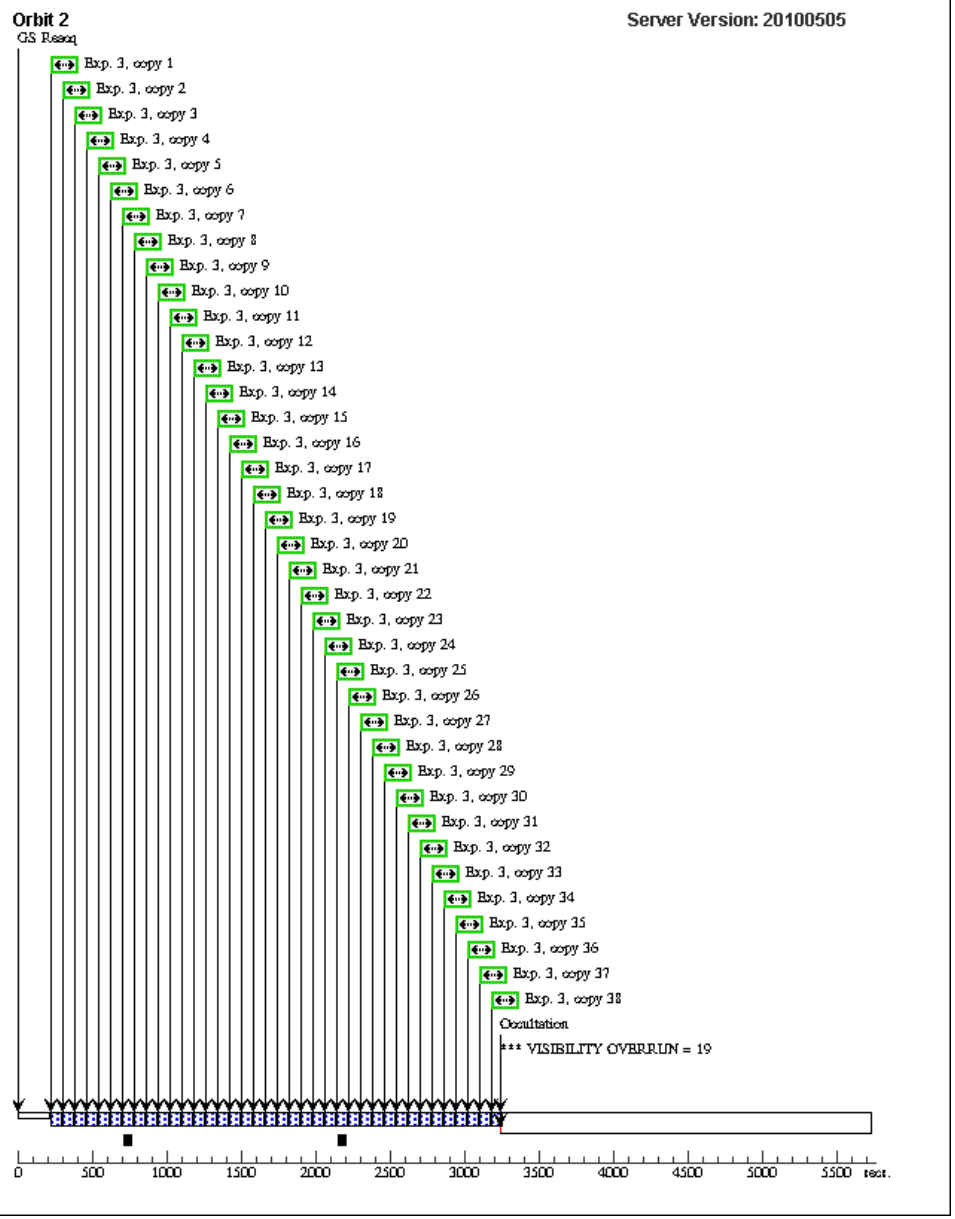
	3	G750M Orbi t 2	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=64; WAVECAL=NO	60 Secs X 38 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(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)]*	***[2]***

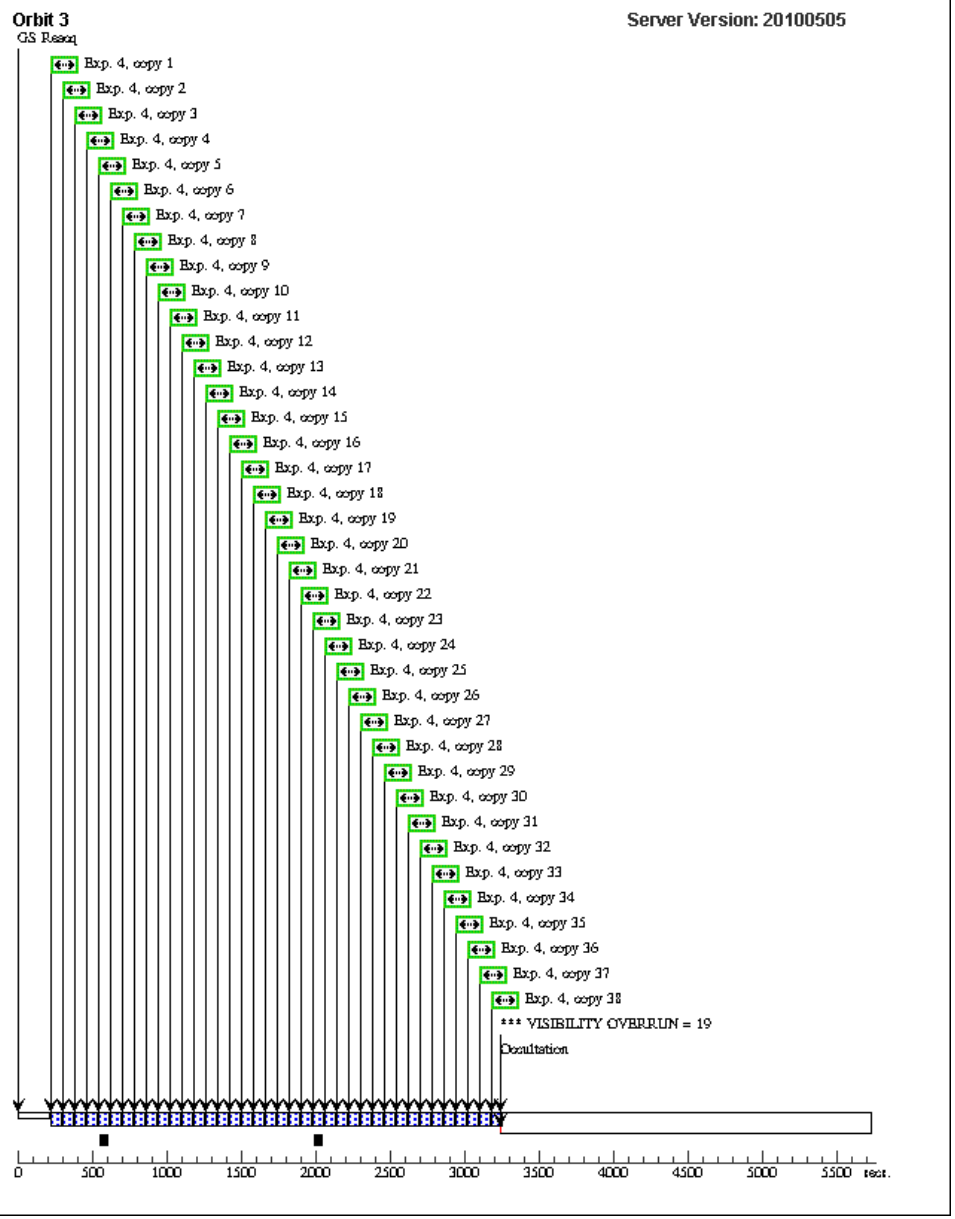
	4	G750M Orbi t 3	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=64; WAVECAL=NO	60 Secs X 38 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(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)]*	***[3]***

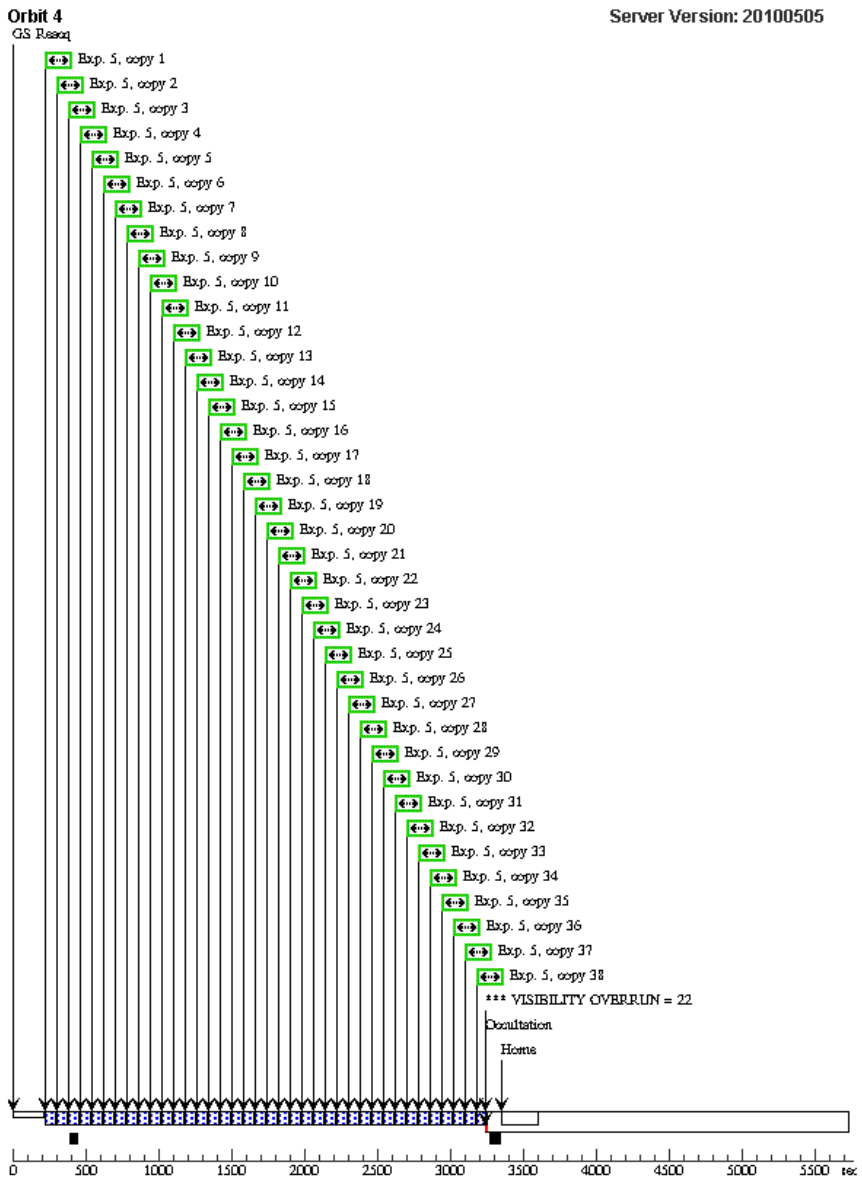
	5	G750M Orbi t 4	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=64; WAVECAL=NO	60 Secs X 38 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(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)]*	***[4]***

Orbit Structure




Orbit 2
Server Version: 20100505
GS Reseq
Exp. 3, copy 1
Exp. 3, copy 2
Exp. 3, copy 3
Exp. 3, copy 4
Exp. 3, copy 5
Exp. 3, copy 6
Exp. 3, copy 7
Exp. 3, copy 8
Exp. 3, copy 9
Exp. 3, copy 10
Exp. 3, copy 11
Exp. 3, copy 12
Exp. 3, copy 13
Exp. 3, copy 14
Exp. 3, copy 15
Exp. 3, copy 16
Exp. 3, copy 17
Exp. 3, copy 18
Exp. 3, copy 19
Exp. 3, copy 20
Exp. 3, copy 21
Exp. 3, copy 22
Exp. 3, copy 23
Exp. 3, copy 24
Exp. 3, copy 25
Exp. 3, copy 26
Exp. 3, copy 27
Exp. 3, copy 28
Exp. 3, copy 29
Exp. 3, copy 30
Exp. 3, copy 31
Exp. 3, copy 32
Exp. 3, copy 33
Exp. 3, copy 34
Exp. 3, copy 35
Exp. 3, copy 36
Exp. 3, copy 37
Exp. 3, copy 38
Occultation
*** VISIBILITY OVERRUN = 19
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 3
Server Version: 20100505
GS Reseq
Exp. 4, copy 1
Exp. 4, copy 2
Exp. 4, copy 3
Exp. 4, copy 4
Exp. 4, copy 5
Exp. 4, copy 6
Exp. 4, copy 7
Exp. 4, copy 8
Exp. 4, copy 9
Exp. 4, copy 10
Exp. 4, copy 11
Exp. 4, copy 12
Exp. 4, copy 13
Exp. 4, copy 14
Exp. 4, copy 15
Exp. 4, copy 16
Exp. 4, copy 17
Exp. 4, copy 18
Exp. 4, copy 19
Exp. 4, copy 20
Exp. 4, copy 21
Exp. 4, copy 22
Exp. 4, copy 23
Exp. 4, copy 24
Exp. 4, copy 25
Exp. 4, copy 26
Exp. 4, copy 27
Exp. 4, copy 28
Exp. 4, copy 29
Exp. 4, copy 30
Exp. 4, copy 31
Exp. 4, copy 32
Exp. 4, copy 33
Exp. 4, copy 34
Exp. 4, copy 35
Exp. 4, copy 36
Exp. 4, copy 37
Exp. 4, copy 38
*** VISIBILITY OVERRUN = 19
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 4
Server Version: 20100505
GS Reacq
Exp. 5, copy 1
Exp. 5, copy 2
Exp. 5, copy 3
Exp. 5, copy 4
Exp. 5, copy 5
Exp. 5, copy 6
Exp. 5, copy 7
Exp. 5, copy 8
Exp. 5, copy 9
Exp. 5, copy 10
Exp. 5, copy 11
Exp. 5, copy 12
Exp. 5, copy 13
Exp. 5, copy 14
Exp. 5, copy 15
Exp. 5, copy 16
Exp. 5, copy 17
Exp. 5, copy 18
Exp. 5, copy 19
Exp. 5, copy 20
Exp. 5, copy 21
Exp. 5, copy 22
Exp. 5, copy 23
Exp. 5, copy 24
Exp. 5, copy 25
Exp. 5, copy 26
Exp. 5, copy 27
Exp. 5, copy 28
Exp. 5, copy 29
Exp. 5, copy 30
Exp. 5, copy 31
Exp. 5, copy 32
Exp. 5, copy 33
Exp. 5, copy 34
Exp. 5, copy 35
Exp. 5, copy 36
Exp. 5, copy 37
Exp. 5, copy 38
*** VISIBILITY OVERRUN = 22
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Proposal 11572 - Visit 02 - Charaterizing Atmospheric Sodium in the Transiting hot-Jupiter HD189733b

Visit

Proposal 11572, Visit 52, completed Tue Oct 26 01:08:25 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: Period 2.218573 D AND ZERO-PHASE HJD2454037.611956

Comments: This is a HOPR repeat of visit 02

Diagnostics

(Visit 52) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 52) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 52) Warning (Orbit Planner): VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HD-189733	RA: 20 00 43.7133 (300.1821388d) Dec: +22 42 39.07 (22.71085d) Equinox: J2000	Proper Motion RA: -0.00018s/yr Proper Motion Dec: -0.251"/yr Parallax: 0.052" Epoch of Position: 2000.0	V=7.67	Reference Frame: ICRS

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

Exposures

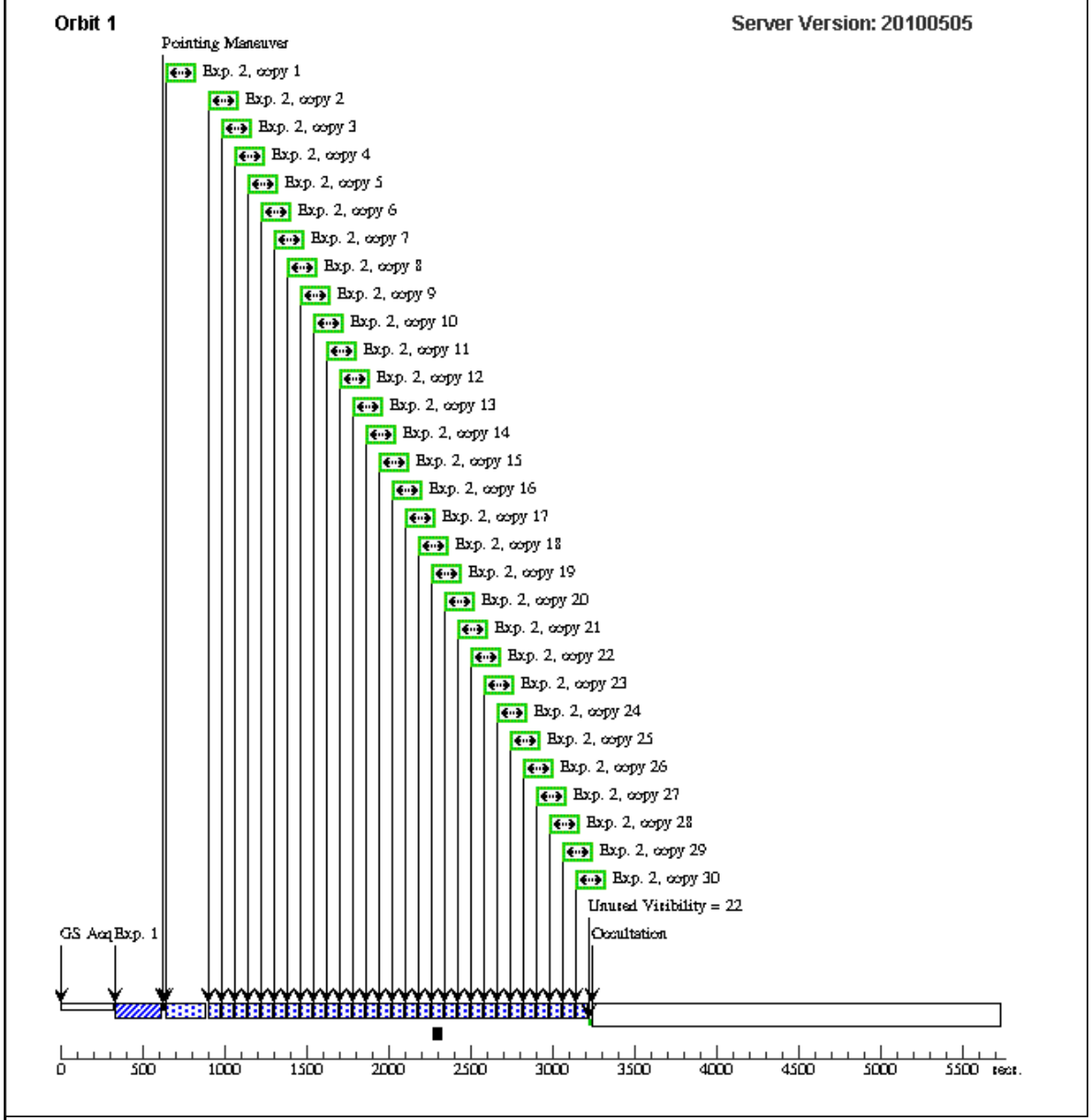
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	ACQ, Phase Constrained	(1) HD-189733	STIS/CCD, ACQ, F28X50OII	MIRROR		PHASE 0.9263 TO 0.9359		5 Secs	
								[==>]	***[1]***
2	G750M Orbit 1	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; SIZEAXIS2=64; GAIN=4; CENTERAXIS2=490			60 Secs X 30	
								[==>(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)]	***[1]***
								[==>(Copy 22)]	
								[==>(Copy 23)]	
								[==>(Copy 24)]	
								[==>(Copy 25)]	
								[==>(Copy 26)]	
								[==>(Copy 27)]	
								[==>(Copy 28)]	
								[==>(Copy 29)]	
								[==>(Copy 30)]	

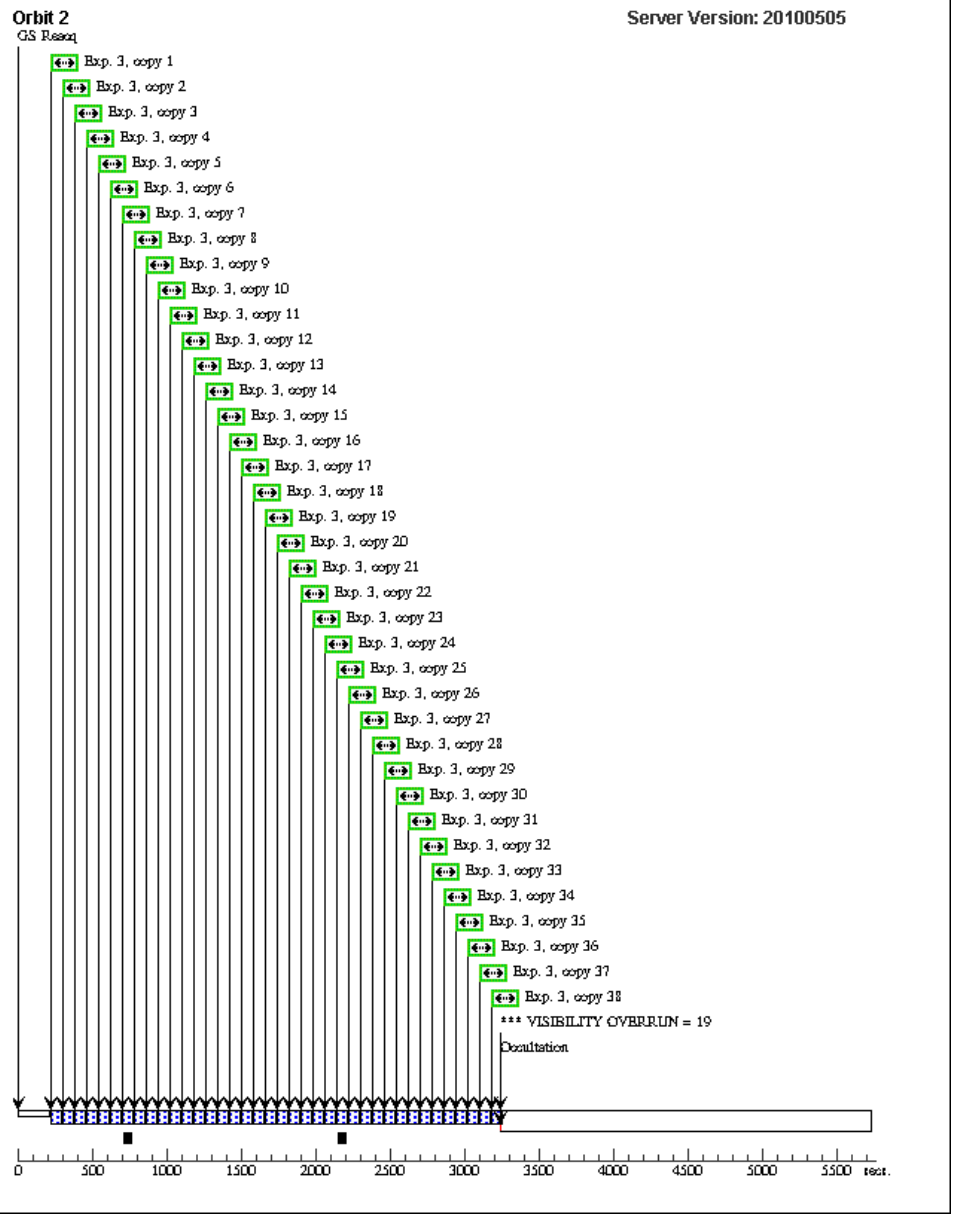
	3	G750M Orbi t 2	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=64; WAVECAL=NO; CENTERAXIS2=490	60 Secs X 38 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(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)]*	***[2]***

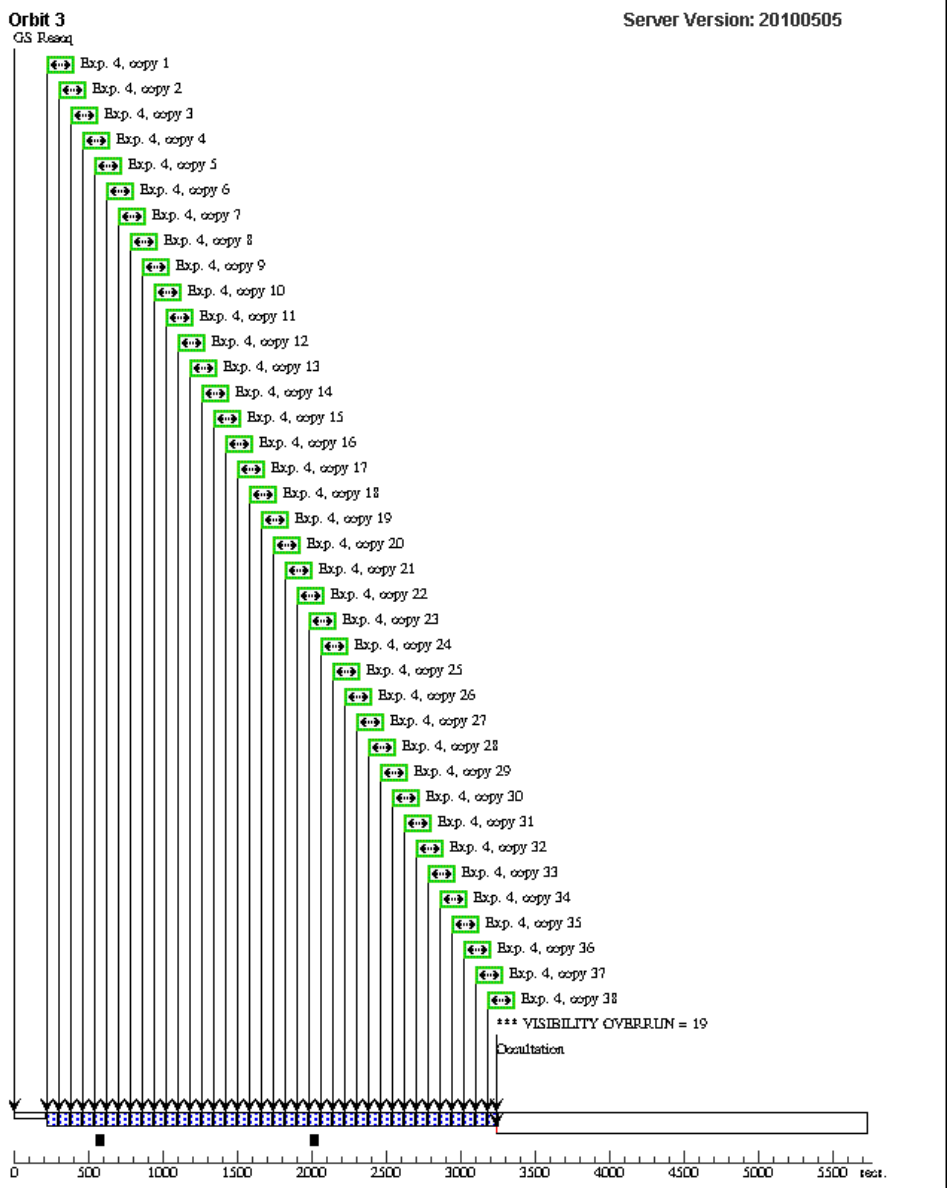
	4	G750M Orbit 3	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=64; WAVECAL=NO; CENTERAXIS2=490	60 Secs X 38 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(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)]*	***[3]***

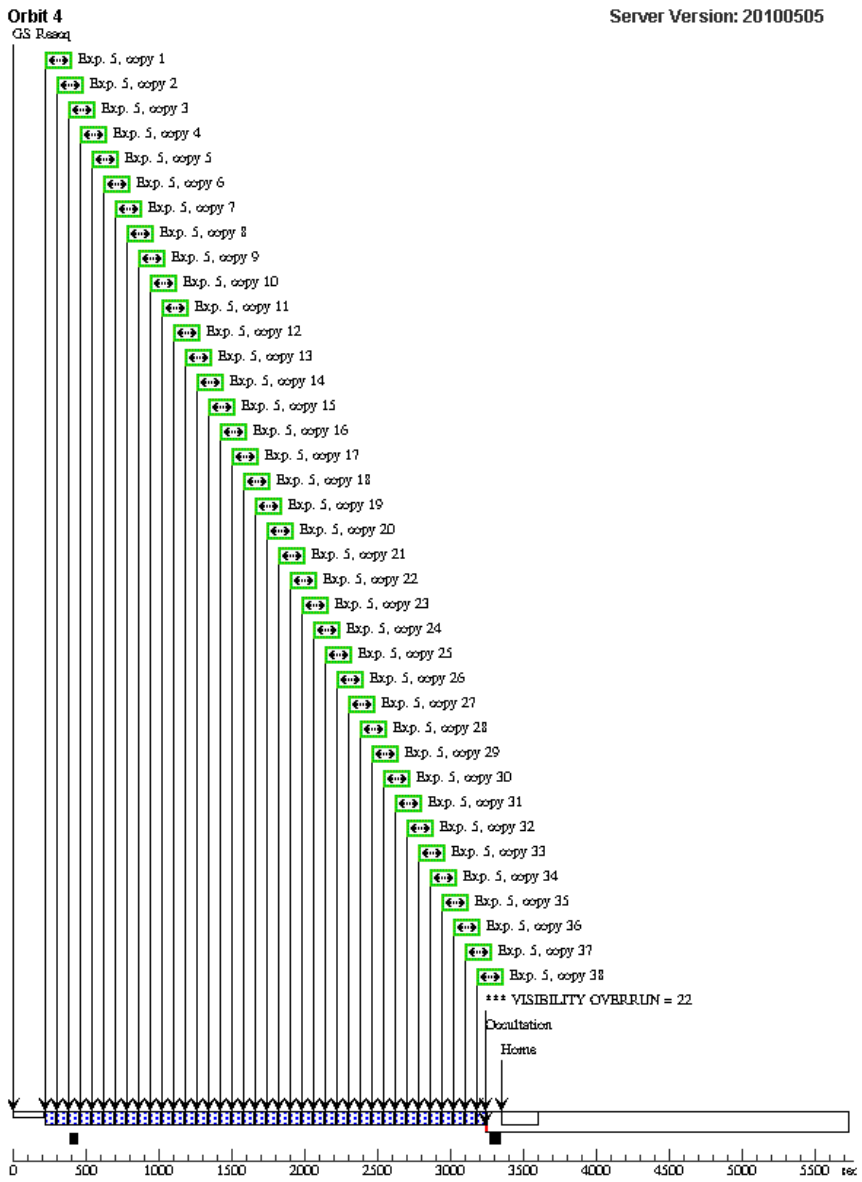
	5	G750M Orbit 4	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=64; WAVECAL=NO; CENTERAXIS2=490	60 Secs X 38 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(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)]*	***[4]***

Orbit Structure




Orbit 2
Server Version: 20100505
GS Reseq
Exp. 3, copy 1
Exp. 3, copy 2
Exp. 3, copy 3
Exp. 3, copy 4
Exp. 3, copy 5
Exp. 3, copy 6
Exp. 3, copy 7
Exp. 3, copy 8
Exp. 3, copy 9
Exp. 3, copy 10
Exp. 3, copy 11
Exp. 3, copy 12
Exp. 3, copy 13
Exp. 3, copy 14
Exp. 3, copy 15
Exp. 3, copy 16
Exp. 3, copy 17
Exp. 3, copy 18
Exp. 3, copy 19
Exp. 3, copy 20
Exp. 3, copy 21
Exp. 3, copy 22
Exp. 3, copy 23
Exp. 3, copy 24
Exp. 3, copy 25
Exp. 3, copy 26
Exp. 3, copy 27
Exp. 3, copy 28
Exp. 3, copy 29
Exp. 3, copy 30
Exp. 3, copy 31
Exp. 3, copy 32
Exp. 3, copy 33
Exp. 3, copy 34
Exp. 3, copy 35
Exp. 3, copy 36
Exp. 3, copy 37
Exp. 3, copy 38
*** VISIBILITY OVERRUN = 19
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 3
Server Version: 20100505
GS Reseq
Exp. 4, copy 1
Exp. 4, copy 2
Exp. 4, copy 3
Exp. 4, copy 4
Exp. 4, copy 5
Exp. 4, copy 6
Exp. 4, copy 7
Exp. 4, copy 8
Exp. 4, copy 9
Exp. 4, copy 10
Exp. 4, copy 11
Exp. 4, copy 12
Exp. 4, copy 13
Exp. 4, copy 14
Exp. 4, copy 15
Exp. 4, copy 16
Exp. 4, copy 17
Exp. 4, copy 18
Exp. 4, copy 19
Exp. 4, copy 20
Exp. 4, copy 21
Exp. 4, copy 22
Exp. 4, copy 23
Exp. 4, copy 24
Exp. 4, copy 25
Exp. 4, copy 26
Exp. 4, copy 27
Exp. 4, copy 28
Exp. 4, copy 29
Exp. 4, copy 30
Exp. 4, copy 31
Exp. 4, copy 32
Exp. 4, copy 33
Exp. 4, copy 34
Exp. 4, copy 35
Exp. 4, copy 36
Exp. 4, copy 37
Exp. 4, copy 38
*** VISIBILITY OVERRUN = 19
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 4
Server Version: 20100505
GS Reacq
Exp. 5, copy 1
Exp. 5, copy 2
Exp. 5, copy 3
Exp. 5, copy 4
Exp. 5, copy 5
Exp. 5, copy 6
Exp. 5, copy 7
Exp. 5, copy 8
Exp. 5, copy 9
Exp. 5, copy 10
Exp. 5, copy 11
Exp. 5, copy 12
Exp. 5, copy 13
Exp. 5, copy 14
Exp. 5, copy 15
Exp. 5, copy 16
Exp. 5, copy 17
Exp. 5, copy 18
Exp. 5, copy 19
Exp. 5, copy 20
Exp. 5, copy 21
Exp. 5, copy 22
Exp. 5, copy 23
Exp. 5, copy 24
Exp. 5, copy 25
Exp. 5, copy 26
Exp. 5, copy 27
Exp. 5, copy 28
Exp. 5, copy 29
Exp. 5, copy 30
Exp. 5, copy 31
Exp. 5, copy 32
Exp. 5, copy 33
Exp. 5, copy 34
Exp. 5, copy 35
Exp. 5, copy 36
Exp. 5, copy 37
Exp. 5, copy 38
*** VISIBILITY OVERRUN = 22
Occultation
Horns
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11572, Visit 55 Tue Oct 26 01:08:28 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: Period 2.218573 D AND ZERO-PHASE HJD2454037.611956

Comments: This is a HOPR repeat of visit 02

Diagnostics

(Visit 55) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 55) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 55) Warning (Orbit Planner): VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HD-189733	RA: 20 00 43.7133 (300.1821388d) Dec: +22 42 39.07 (22.71085d) Equinox: J2000	Proper Motion RA: -0.00018s/yr Proper Motion Dec: -0.251"/yr Parallax: 0.052" Epoch of Position: 2000.0	V=7.67	Reference Frame: ICRS

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

Exposures

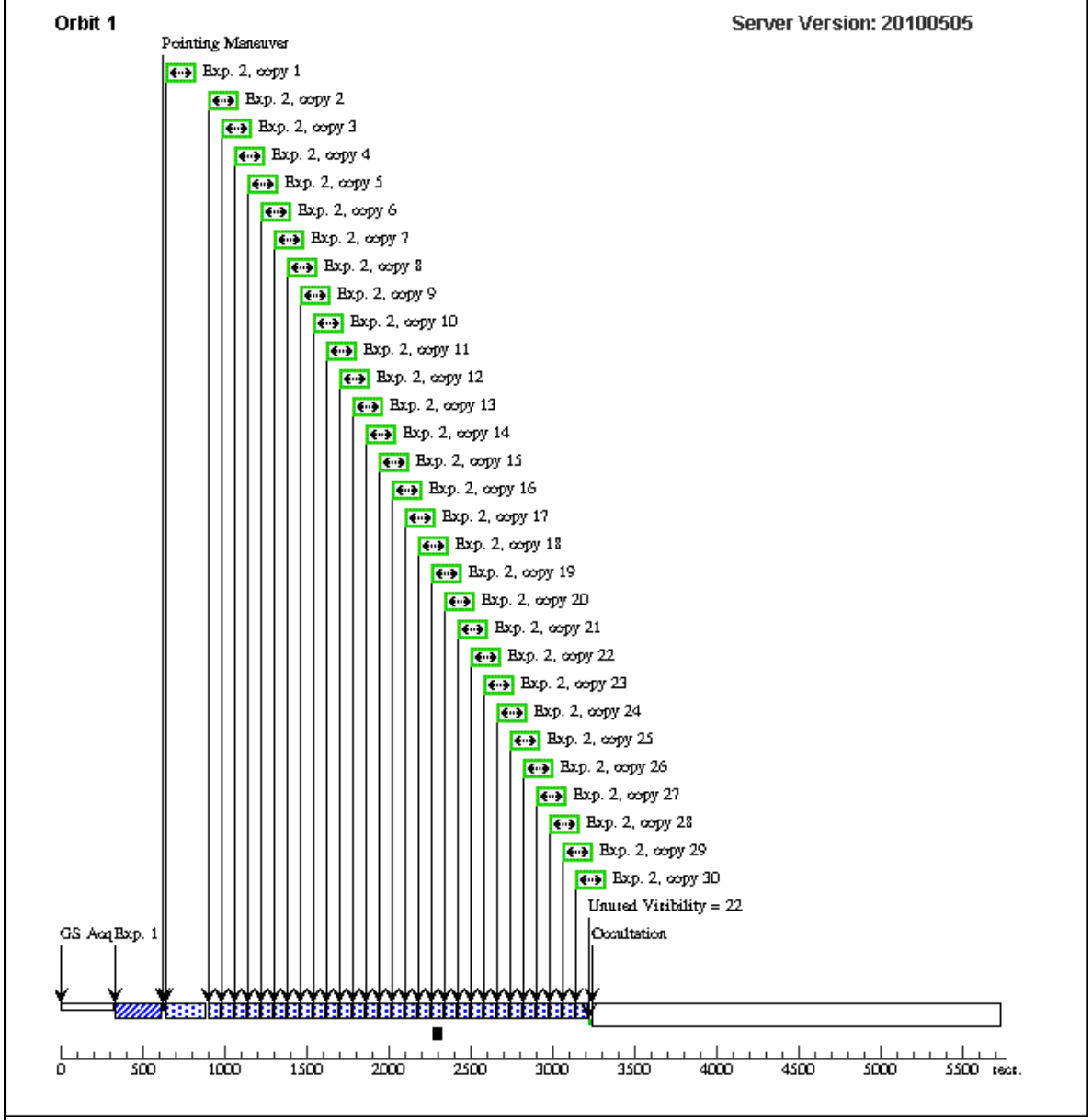
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	ACQ, Phase Constrained	(1) HD-189733	STIS/CCD, ACQ, F28X50OII	MIRROR		PHASE 0.9263 TO 0 .9359		5 Secs	
								[==>]	***[1]***
2	G750M Orbit 1	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; SIZEAXIS2=64; GAIN=4			60 Secs X 30	
								[==>(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)]	***[1]***
								[==>(Copy 22)]	
								[==>(Copy 23)]	
								[==>(Copy 24)]	
								[==>(Copy 25)]	
								[==>(Copy 26)]	
								[==>(Copy 27)]	
								[==>(Copy 28)]	
								[==>(Copy 29)]	
								[==>(Copy 30)]	

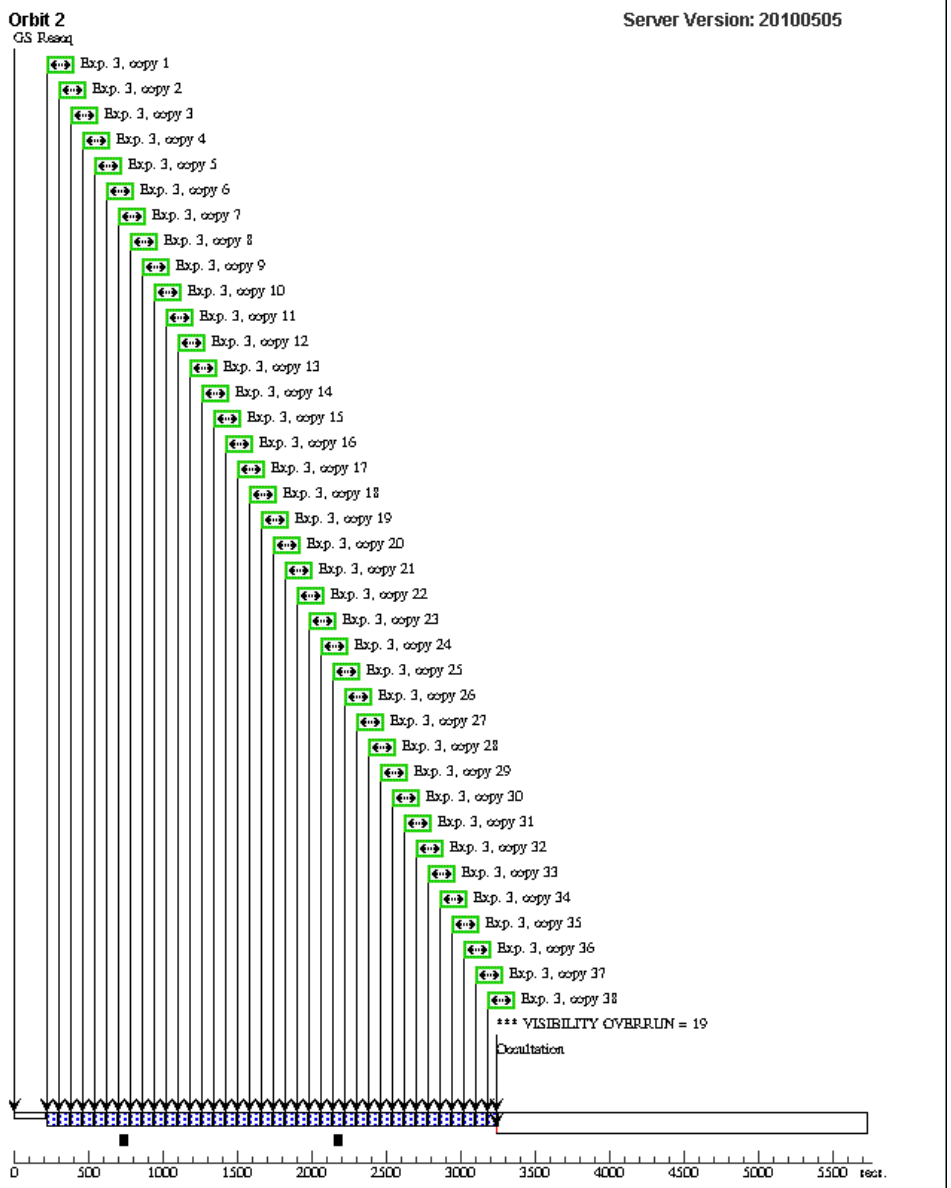
	3	G750M Orbi t 2	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=64; WAVECAL=NO	60 Secs X 38 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(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)]*	***[2]***

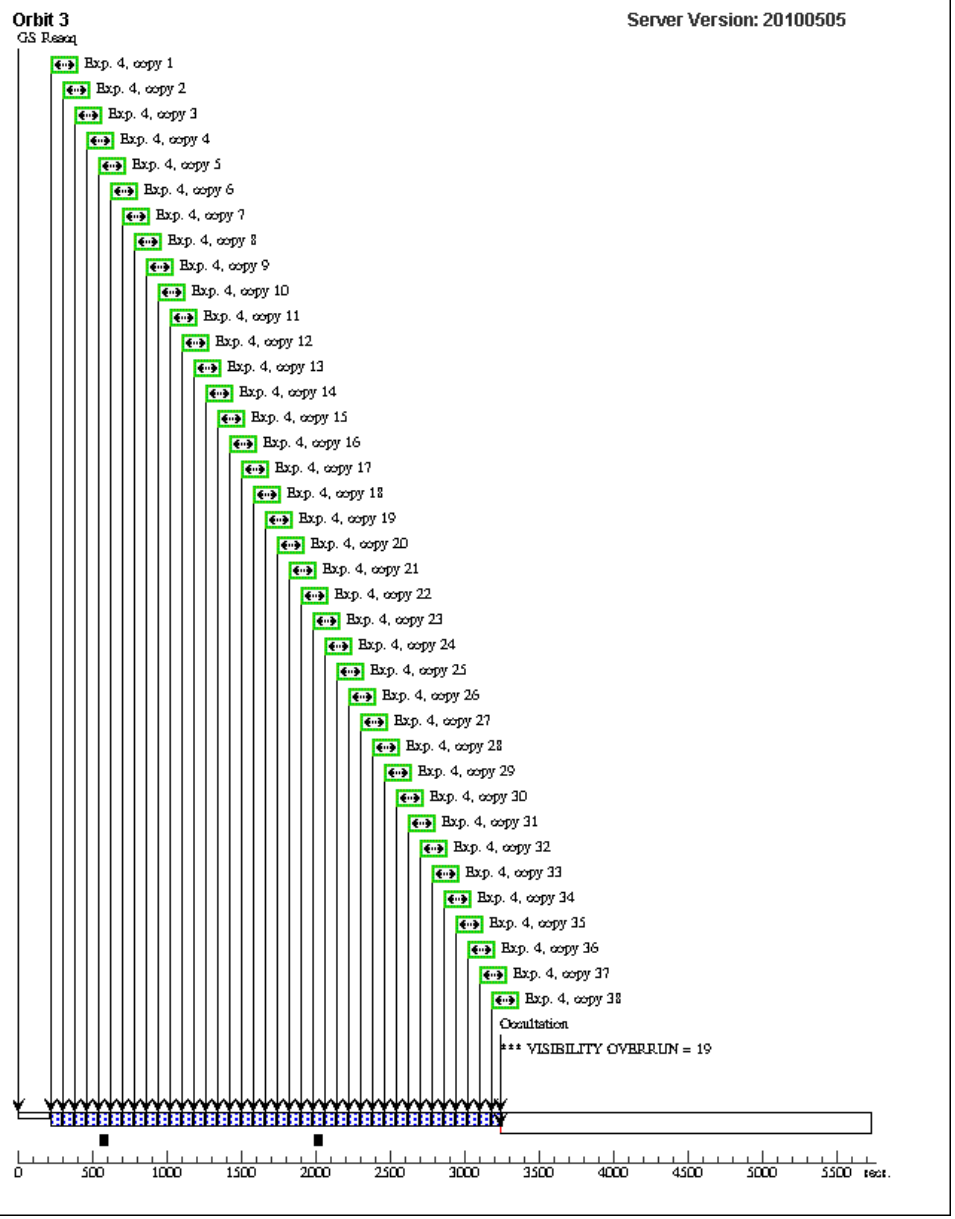
	4	G750M Orbi t 3	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=64; WAVECAL=NO	60 Secs X 38 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(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)]*	***[3]***

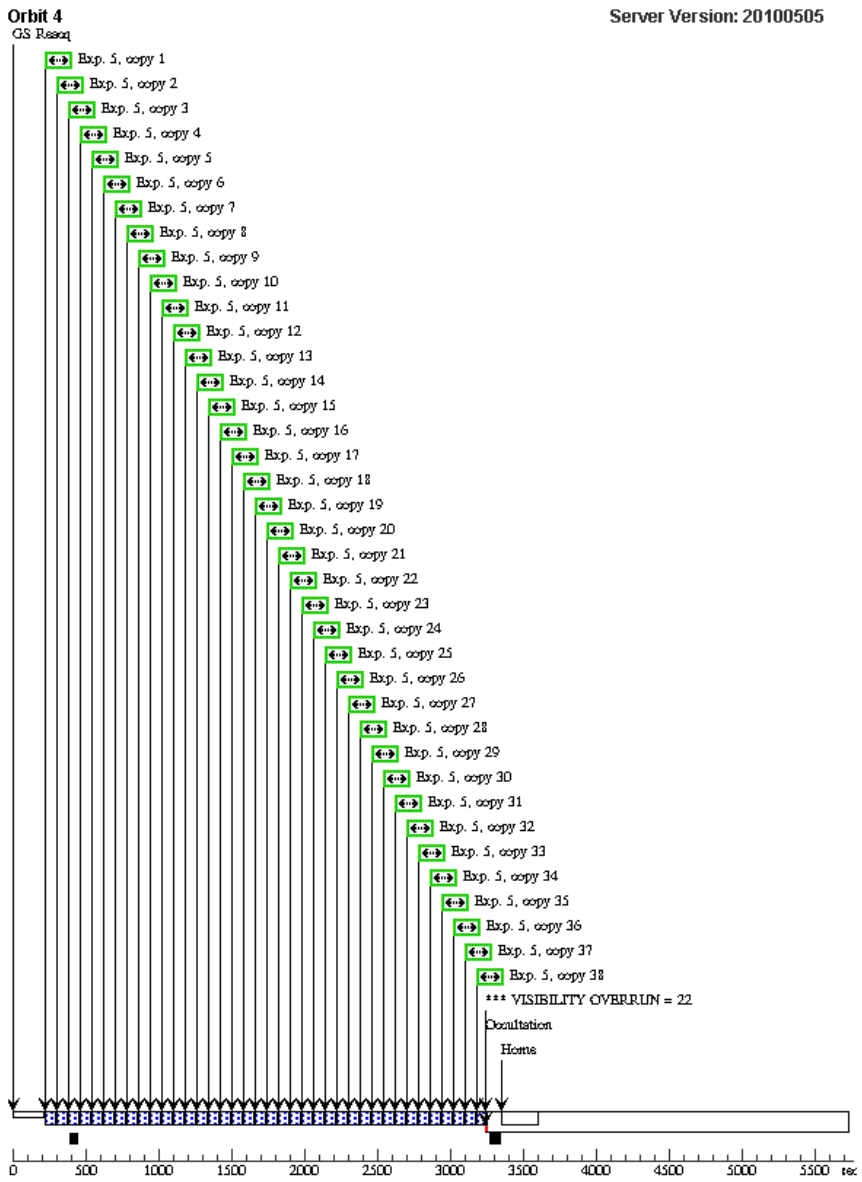
	5	G750M Orbi t 4	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=64; WAVECAL=NO	60 Secs X 38 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(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)]*	***[4]***

Orbit Structure




Orbit 2
Server Version: 20100505
GS Reseq
Exp. 3, copy 1
Exp. 3, copy 2
Exp. 3, copy 3
Exp. 3, copy 4
Exp. 3, copy 5
Exp. 3, copy 6
Exp. 3, copy 7
Exp. 3, copy 8
Exp. 3, copy 9
Exp. 3, copy 10
Exp. 3, copy 11
Exp. 3, copy 12
Exp. 3, copy 13
Exp. 3, copy 14
Exp. 3, copy 15
Exp. 3, copy 16
Exp. 3, copy 17
Exp. 3, copy 18
Exp. 3, copy 19
Exp. 3, copy 20
Exp. 3, copy 21
Exp. 3, copy 22
Exp. 3, copy 23
Exp. 3, copy 24
Exp. 3, copy 25
Exp. 3, copy 26
Exp. 3, copy 27
Exp. 3, copy 28
Exp. 3, copy 29
Exp. 3, copy 30
Exp. 3, copy 31
Exp. 3, copy 32
Exp. 3, copy 33
Exp. 3, copy 34
Exp. 3, copy 35
Exp. 3, copy 36
Exp. 3, copy 37
Exp. 3, copy 38
*** VISIBILITY OVERRUN = 19
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 3
Server Version: 20100505
GS Reseq
Exp. 4, copy 1
Exp. 4, copy 2
Exp. 4, copy 3
Exp. 4, copy 4
Exp. 4, copy 5
Exp. 4, copy 6
Exp. 4, copy 7
Exp. 4, copy 8
Exp. 4, copy 9
Exp. 4, copy 10
Exp. 4, copy 11
Exp. 4, copy 12
Exp. 4, copy 13
Exp. 4, copy 14
Exp. 4, copy 15
Exp. 4, copy 16
Exp. 4, copy 17
Exp. 4, copy 18
Exp. 4, copy 19
Exp. 4, copy 20
Exp. 4, copy 21
Exp. 4, copy 22
Exp. 4, copy 23
Exp. 4, copy 24
Exp. 4, copy 25
Exp. 4, copy 26
Exp. 4, copy 27
Exp. 4, copy 28
Exp. 4, copy 29
Exp. 4, copy 30
Exp. 4, copy 31
Exp. 4, copy 32
Exp. 4, copy 33
Exp. 4, copy 34
Exp. 4, copy 35
Exp. 4, copy 36
Exp. 4, copy 37
Exp. 4, copy 38
Occultation
*** VISIBILITY OVERRUN = 19
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 4
Server Version: 20100505
GS Reacq
Exp. 5, copy 1
Exp. 5, copy 2
Exp. 5, copy 3
Exp. 5, copy 4
Exp. 5, copy 5
Exp. 5, copy 6
Exp. 5, copy 7
Exp. 5, copy 8
Exp. 5, copy 9
Exp. 5, copy 10
Exp. 5, copy 11
Exp. 5, copy 12
Exp. 5, copy 13
Exp. 5, copy 14
Exp. 5, copy 15
Exp. 5, copy 16
Exp. 5, copy 17
Exp. 5, copy 18
Exp. 5, copy 19
Exp. 5, copy 20
Exp. 5, copy 21
Exp. 5, copy 22
Exp. 5, copy 23
Exp. 5, copy 24
Exp. 5, copy 25
Exp. 5, copy 26
Exp. 5, copy 27
Exp. 5, copy 28
Exp. 5, copy 29
Exp. 5, copy 30
Exp. 5, copy 31
Exp. 5, copy 32
Exp. 5, copy 33
Exp. 5, copy 34
Exp. 5, copy 35
Exp. 5, copy 36
Exp. 5, copy 37
Exp. 5, copy 38
*** VISIBILITY OVERRUN = 22
Occultation
Horns
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Proposal 11572 - Visit 55 - Charaterizing Atmospheric Sodium in the Transiting hot-Jupiter HD189733b

Visit

Proposal 11572, Visit 03, completed Tue Oct 26 01:08:31 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: Period 2.218573 D AND ZERO-PHASE HJD2454037.611956

Diagnostics

(Visit 03) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 03) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 03) Warning (Orbit Planner): VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HD-189733	RA: 20 00 43.7133 (300.1821388d)	Proper Motion RA: -0.00018s/yr	V=7.67	Reference Frame: ICRS
		Dec: +22 42 39.07 (22.71085d)	Proper Motion Dec: -0.251"/yr		
		Equinox: J2000	Parallax: 0.052"		
			Epoch of Position: 2000.0		

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

Exposures

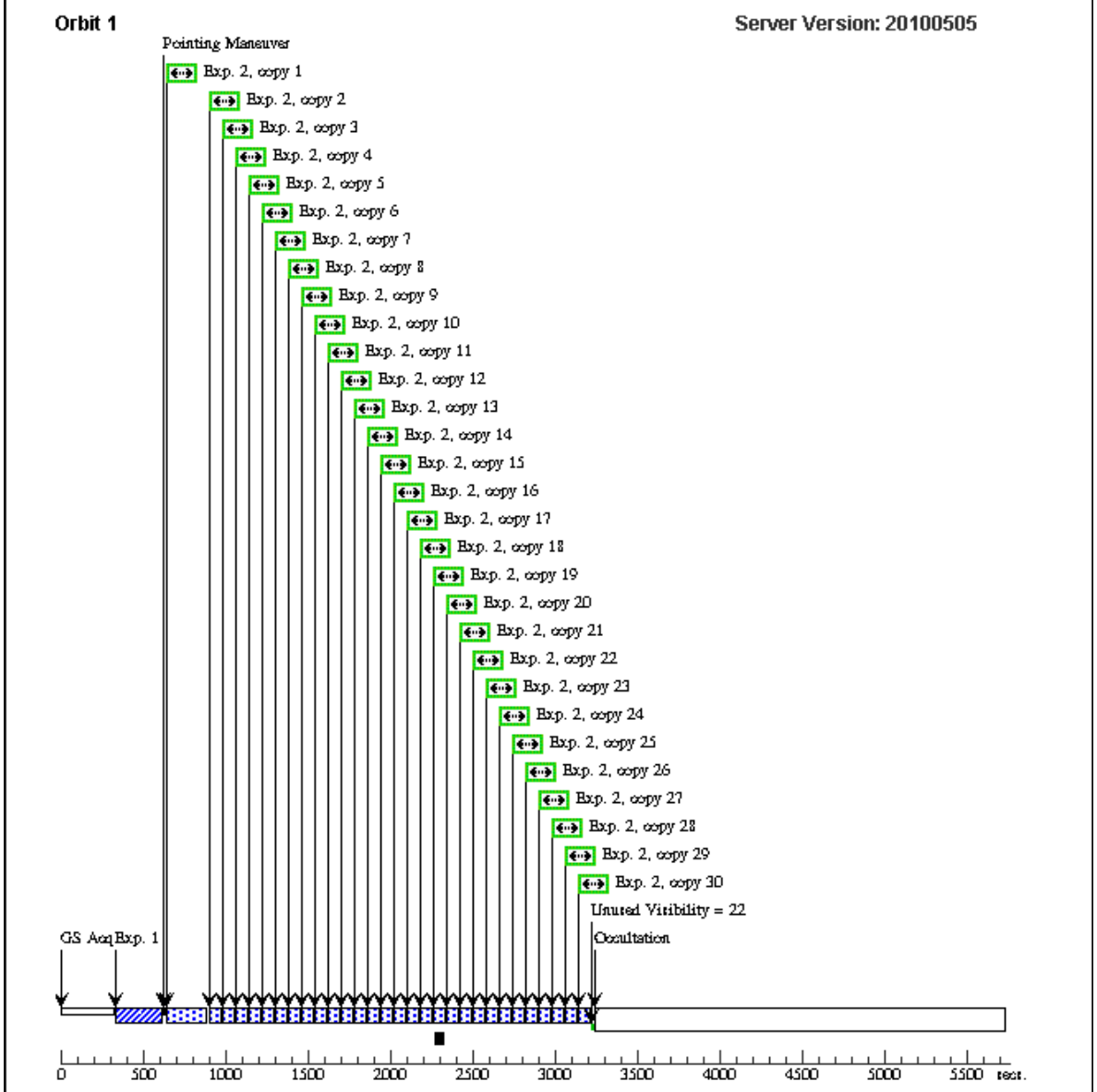
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	ACQ, Phase Constrained	(1) HD-189733	STIS/CCD, ACQ, F28X50OII	MIRROR		PHASE 0.9263 TO 0 .9359		5 Secs	
								[==>]	***[1]***
2	G750M Orbit 1	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; SIZEAXIS2=64; GAIN=4			60 Secs X 30	
								[==>(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)]	***[1]***
								[==>(Copy 22)]	
								[==>(Copy 23)]	
								[==>(Copy 24)]	
								[==>(Copy 25)]	
								[==>(Copy 26)]	
								[==>(Copy 27)]	
								[==>(Copy 28)]	
								[==>(Copy 29)]	
								[==>(Copy 30)]	

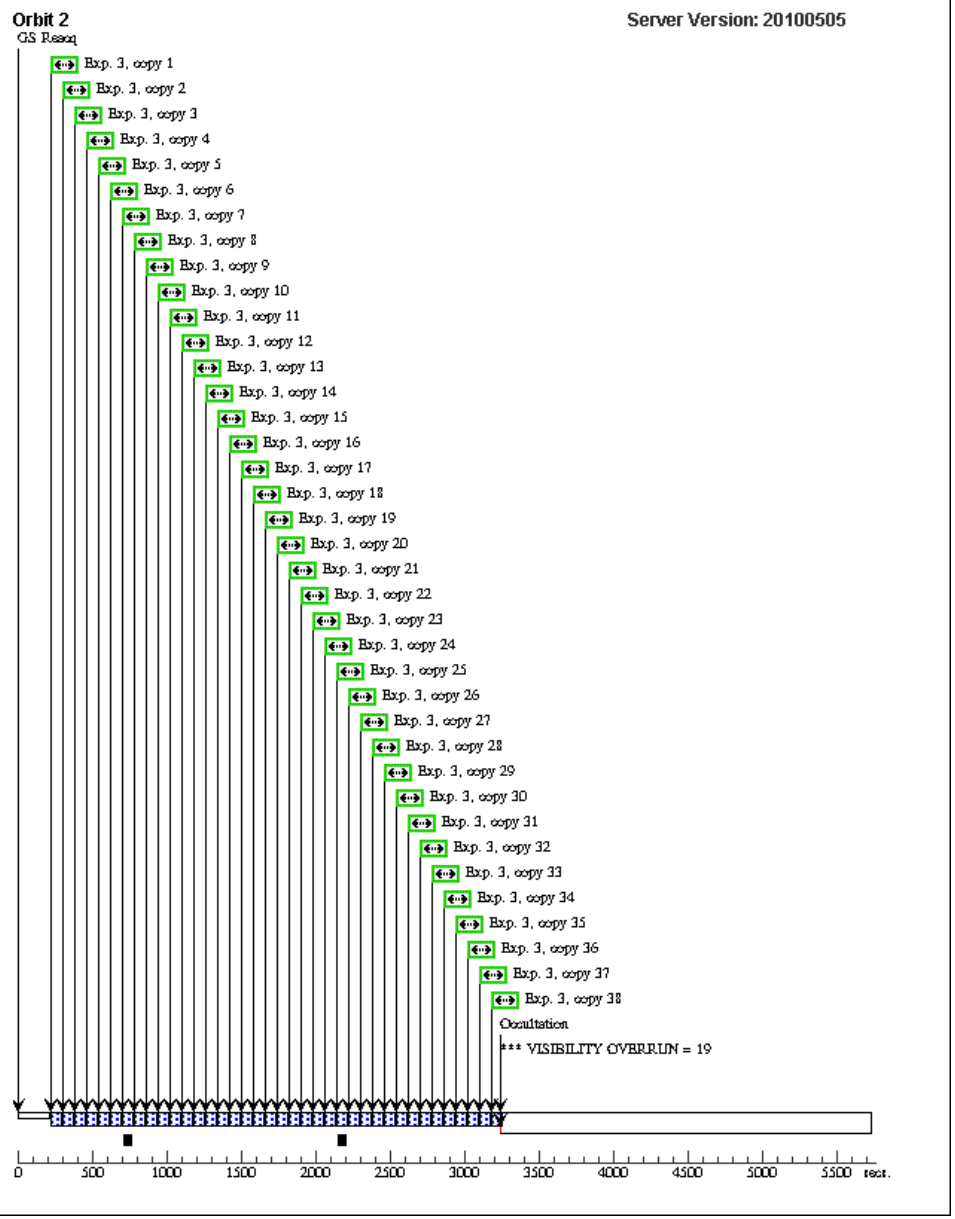
	3	G750M Orbi t 2	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=64; WAVECAL=NO	60 Secs X 38 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(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)]*	***[2]***

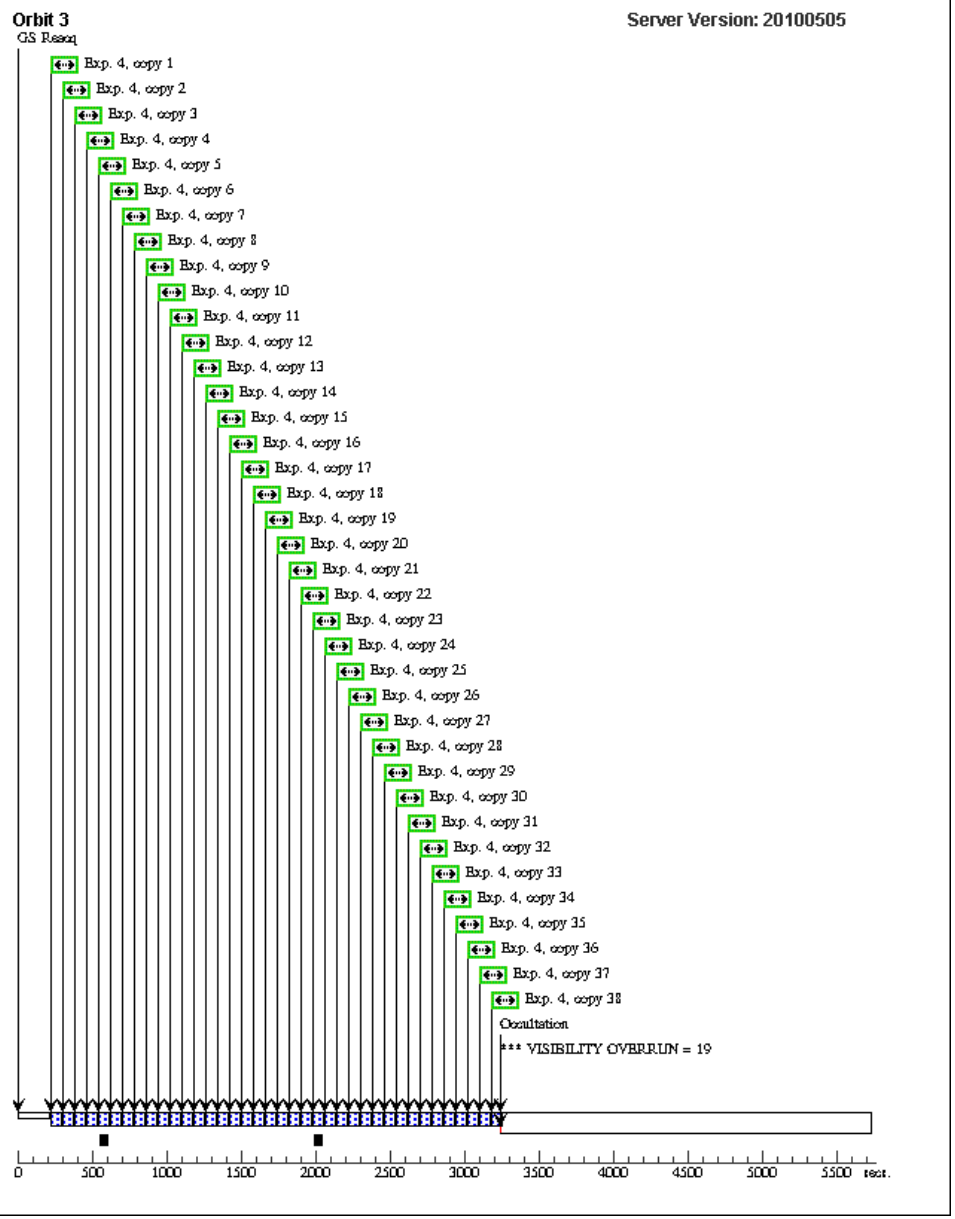
	4	G750M Orbi t 3	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=64; WAVECAL=NO	60 Secs X 38 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(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)]*	***[3]***

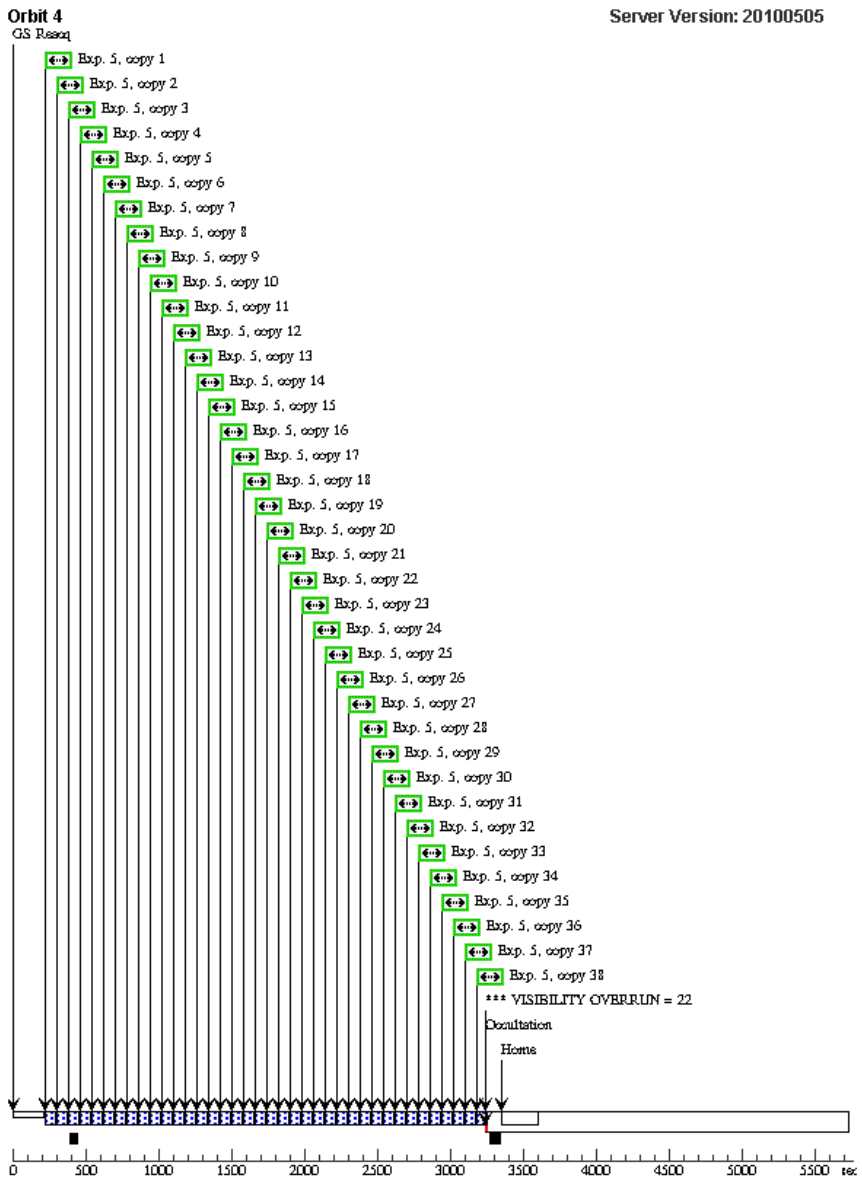
	5	G750M Orbi t 4	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=64; WAVECAL=NO	60 Secs X 38 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(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)]*	***[4]***

Orbit Structure




Orbit 2
Server Version: 20100505
GS Reseq
Exp. 3, copy 1
Exp. 3, copy 2
Exp. 3, copy 3
Exp. 3, copy 4
Exp. 3, copy 5
Exp. 3, copy 6
Exp. 3, copy 7
Exp. 3, copy 8
Exp. 3, copy 9
Exp. 3, copy 10
Exp. 3, copy 11
Exp. 3, copy 12
Exp. 3, copy 13
Exp. 3, copy 14
Exp. 3, copy 15
Exp. 3, copy 16
Exp. 3, copy 17
Exp. 3, copy 18
Exp. 3, copy 19
Exp. 3, copy 20
Exp. 3, copy 21
Exp. 3, copy 22
Exp. 3, copy 23
Exp. 3, copy 24
Exp. 3, copy 25
Exp. 3, copy 26
Exp. 3, copy 27
Exp. 3, copy 28
Exp. 3, copy 29
Exp. 3, copy 30
Exp. 3, copy 31
Exp. 3, copy 32
Exp. 3, copy 33
Exp. 3, copy 34
Exp. 3, copy 35
Exp. 3, copy 36
Exp. 3, copy 37
Exp. 3, copy 38
Occultation
*** VISIBILITY OVERRUN = 19
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 3
Server Version: 20100505
GS Reacq
Exp. 4, copy 1
Exp. 4, copy 2
Exp. 4, copy 3
Exp. 4, copy 4
Exp. 4, copy 5
Exp. 4, copy 6
Exp. 4, copy 7
Exp. 4, copy 8
Exp. 4, copy 9
Exp. 4, copy 10
Exp. 4, copy 11
Exp. 4, copy 12
Exp. 4, copy 13
Exp. 4, copy 14
Exp. 4, copy 15
Exp. 4, copy 16
Exp. 4, copy 17
Exp. 4, copy 18
Exp. 4, copy 19
Exp. 4, copy 20
Exp. 4, copy 21
Exp. 4, copy 22
Exp. 4, copy 23
Exp. 4, copy 24
Exp. 4, copy 25
Exp. 4, copy 26
Exp. 4, copy 27
Exp. 4, copy 28
Exp. 4, copy 29
Exp. 4, copy 30
Exp. 4, copy 31
Exp. 4, copy 32
Exp. 4, copy 33
Exp. 4, copy 34
Exp. 4, copy 35
Exp. 4, copy 36
Exp. 4, copy 37
Exp. 4, copy 38
Occultation
*** VISIBILITY OVERRUN = 19
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 4
Server Version: 20100505
GS Reacq
Exp. 5, copy 1
Exp. 5, copy 2
Exp. 5, copy 3
Exp. 5, copy 4
Exp. 5, copy 5
Exp. 5, copy 6
Exp. 5, copy 7
Exp. 5, copy 8
Exp. 5, copy 9
Exp. 5, copy 10
Exp. 5, copy 11
Exp. 5, copy 12
Exp. 5, copy 13
Exp. 5, copy 14
Exp. 5, copy 15
Exp. 5, copy 16
Exp. 5, copy 17
Exp. 5, copy 18
Exp. 5, copy 19
Exp. 5, copy 20
Exp. 5, copy 21
Exp. 5, copy 22
Exp. 5, copy 23
Exp. 5, copy 24
Exp. 5, copy 25
Exp. 5, copy 26
Exp. 5, copy 27
Exp. 5, copy 28
Exp. 5, copy 29
Exp. 5, copy 30
Exp. 5, copy 31
Exp. 5, copy 32
Exp. 5, copy 33
Exp. 5, copy 34
Exp. 5, copy 35
Exp. 5, copy 36
Exp. 5, copy 37
Exp. 5, copy 38
*** VISIBILITY OVERRUN = 22
Occultation
Horns
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec