11740 - A Complete Optical and NIR Atmospheric Transmission Spectrum of the Exoplanet HD189733b

Cycle: 17, Proposal Category: GO

(Availability Mode: AVAILABLE)

INVESTIGATORS

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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) HD-189733	NIC3	4	30-Jun-2010 21:41:54.0	yes
05	(1) HD-189733	WFC3/IR	4	30-Jun-2010 21:56:40.0	yes
06	(1) HD-189733	WFC3/IR	4	30-Jun-2010 22:08:18.0	yes
03	(1) HD-189733	NIC3	4	30-Jun-2010 22:32:46.0	yes
02	(1) HD-189733 WAVE	STIS/CCD	4	30-Jun-2010 22:37:28.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
04	(1) HD-189733 WAVE	STIS/CCD	4	30-Jun-2010 22:38:12.0	yes

24 Total Orbits Used

ABSTRACT

The hot Jupiter HD189733b offers the best exoplanet in which to perform atmospheric studies through transit spectroscopy. Here we propose STIS and Nicmos spectra to help construct a full exoplanetary transit transmission spectrum that extends over the entire optical and near-infrared range. Such a spectrum will link existing observed atmospheric features such as haze, water, and methane, providing a coherent understanding of all these reported features. With a spectrum covering many observed absorption features, the absolute pressure scale and abundances can be determined linking observed features to the actual atmospheric properties of the exoplanet.

OBSERVING DESCRIPTION

For both NICMOS/G141 and STIS/G430L two transits of HD 189733 will be observed.
Each of these 4 HST visits will consist of 4 HST orbits, with orbit 3 roughly centered
on the planet transit, and orbits 2 and 4 outside of transit to establish the baseline.
The first orbit is assumed not to be useful (instrument settling).

With NICMOS HD 189733 is x2.04 brighter in H-band than the previously observed
HD 209458 and GJ436. With HD 209458 and GJ436 (GO-9832, 11306) STEP1, NSAMP=4
with 1.996 s exposures was adopted, and
moderate defocus (now adopted as the standard defocus for this type of work, e.g.
see more recent NICMOS program 11306). For the brighter HD 189733 STEP1, NSAMP=3
will yield 0.995 s exposures and almost exactly the same exposure level.
The first NICMOS orbit will include a direct image in F166N for wavelength specification,
then as many 0.995 s exposures as possible will be obtained in the remaining time with
G141. The G141 integrations should peak at less than 90,000 e-/s providing an
excellent linearity correction. Photon-noise limited precisions should be 0.00016

per resoluton element per HST orbit.

With STIS G430L the wavelength range of 2900-5700 angstroms is covered.
We use a broad 52x2" slit to minimize slit losses and variations. STIS is perfectly conserving past saturation with use of GAIN=4, see e.g. Bohlin and Gilliland 2004, AJ, 127, 3508 describing observations of the 0th mag star Vega. We adopt an exposure time of 66 seconds, with a sub-array size of 128 -- sufficiently large to enable tracking sky variations. This will lead to roughly 2x oversaturation. Photon-limited precisions of 0.00017 per resolution element, per HST orbit are expected.

During the first orbit of STIS use exposure times of 66 and 64 seconds are interchanged to provide verification of linearity at the transit depth. Similar changes of integration time are not included in the first NICMOS orbit since two previous trials showed near perfect linearity correction is already obtained. The NICMOS orbits out-of-transit use nominal, +0.05 pixel (0.01 arcsec), -0.05 pixel, and nominal dithers to help provide well-posed decorrelation data for expected instrumental drifts.

ADDITIONAL COMMENTS

Implementation notes: the relatively new parameter CAMERA-FOCUS=DEFOCUS and aperture NIC3-FIXD is used to place the NIC3 focus mechanism at -0.5mm and adjust the target placement in the aperture for the defocus respectively.

Visit

Proposal 11740, Visit 01, withdrawn Thu Jul 01 02:38:26 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: NIC3

Special Requirements: Period 2.21857578 D AND ZERO-PHASE HJD2454399.23990

Comments: First of two visits with NICMOS. It is essential for the four orbits to be scheduled in a contiguous four orbit block. These orbits should be free of the SAA.

Diagnostics

(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+/-0.01 B-V = 0.932, H = 5.587	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		(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	F166N	NSAMP=3; SAMP-SEQ=STEP1 ; CAMERA-FOCUS =DEFOCUS	POS TARG -9.0,-5.4 ; PHASE 0.9256 TO 0 .9359		*[==>]*	***[1]***

Comments: The POS TARG of -9.0,-5.4 is intended to place the first order spectrum at the left edge (2" buffer) of the detector, and the zeroth order 1.5" inside the right edge.

	2	(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP1 ; NSAMP=3; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1		

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	3	(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP1; NSAMP=3; CAMERA-FOCUS=DEFOCUS	POS TARG -9.0,-5.41		

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	4	(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP1; NSAMP=3; CAMERA-FOCUS=DEFOCUS	POS TARG -9.0,-5.39		

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	5	(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP1 ; NSAMP=3; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1		

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	6	(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP1 ; NSAMP=3; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1; NEW OBSET		

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	7	(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP1; NSAMP=3; CAMERA-FOCUS=DEFOCUS	POS TARG -9.0,-5.41		

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	8	(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP1; NSAMP=3; CAMERA-FOCUS=DEFOCUS	POS TARG -9.0,-5.39		

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	9	(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP1 ; NSAMP=3; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1		

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	11	(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP1 ; NSAMP=3; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1; NEW OBSET		

		[==>(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)]*	***[4]***

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	12	(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP1; NSAMP=3; CAMERA-FOCUS=DEFOCUS	POS TARG -9.0,-5.41		

		[==>(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)]*	***[4]***

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	13	(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP1; NSAMP=3; CAMERA-FOCUS=DEFOCUS	POS TARG -9.0,-5.39		

		[==>(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)]*	***[4]***

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	14	(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP1 ; NSAMP=3; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1		

		[==>(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)]*	***[4]***

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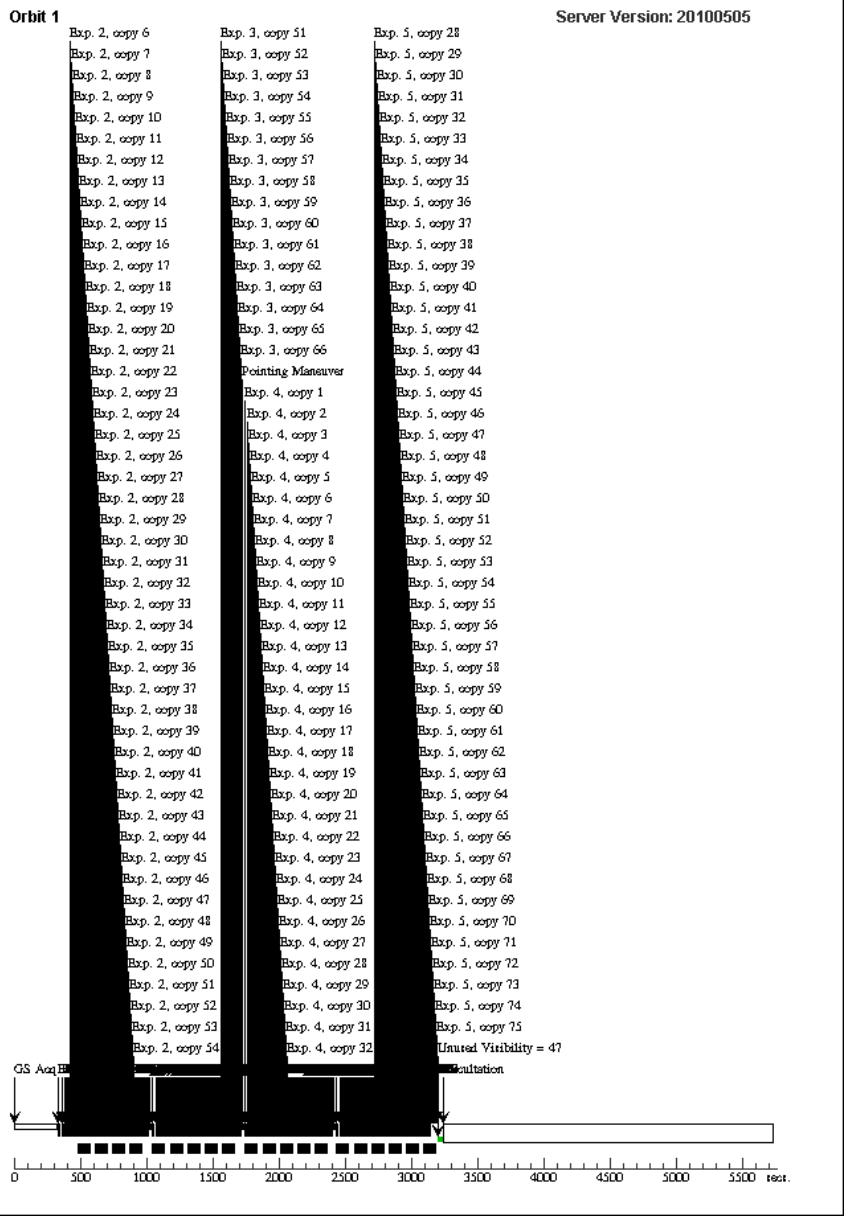
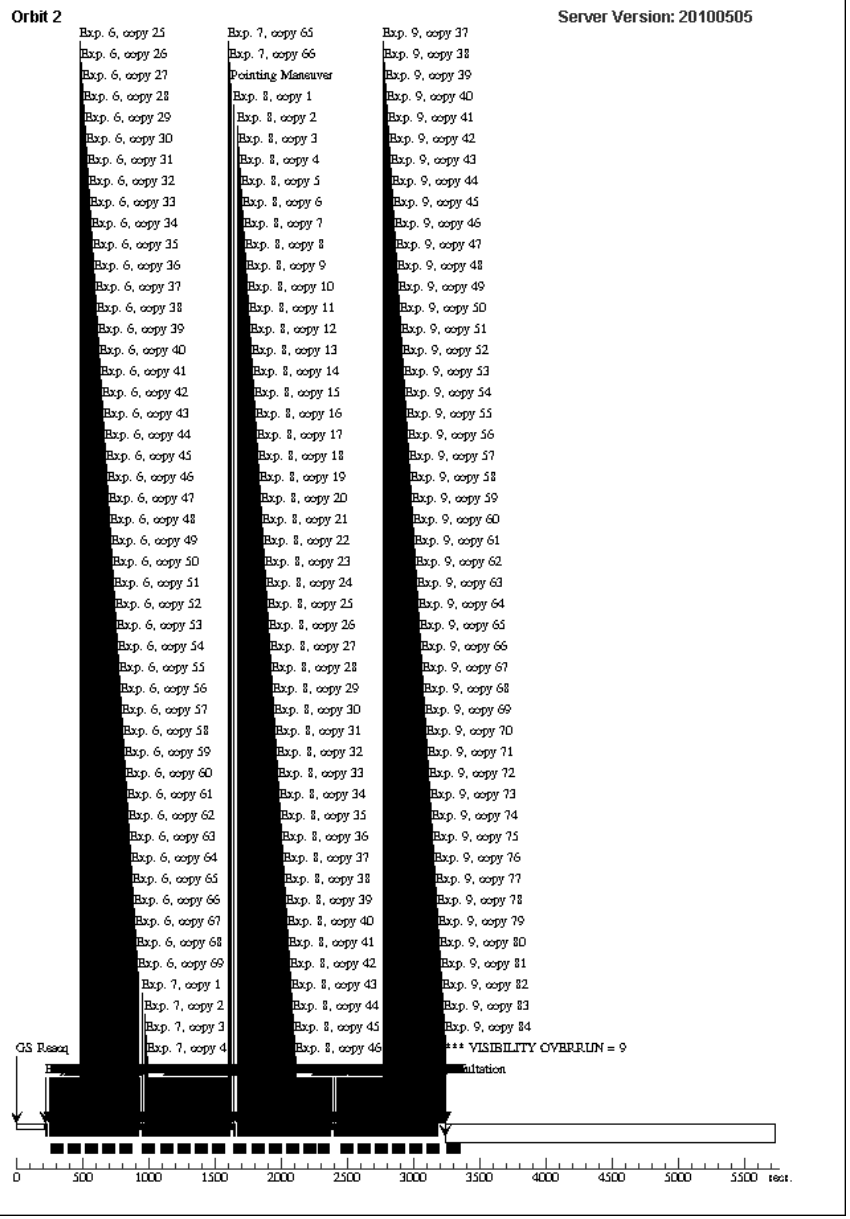
Orbit Structure

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Server Version: 20100505
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Exp. 6, copy 66
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Exp. 6, copy 68
Exp. 6, copy 69
Exp. 7, copy 1
Exp. 7, copy 2
Exp. 7, copy 3
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Exp. 7, copy 66
Pointing Maneuver
Exp. 8, copy 1
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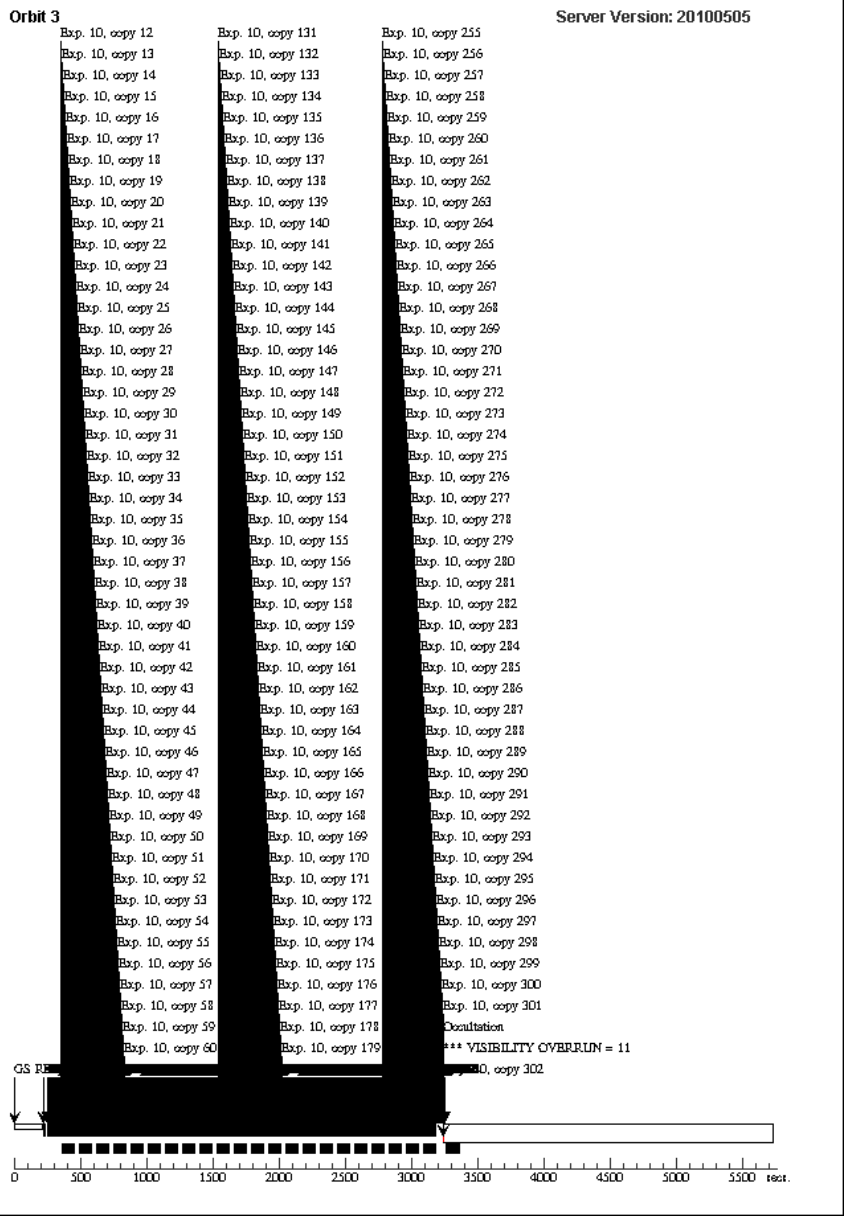
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Server Version: 20100505
Occultation
*** VISIBILITY OVERRUN = 11
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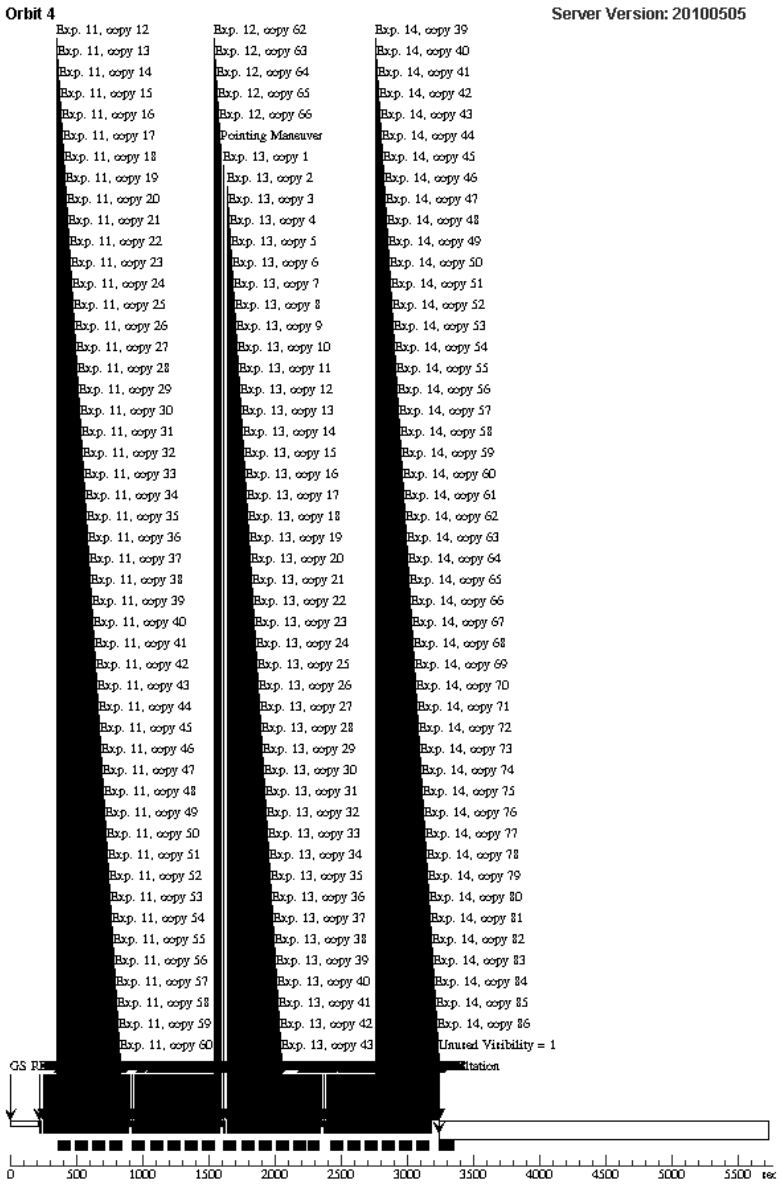
Orbit 4
Server Version: 20100505
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Pointing Maneuver
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Exp. 14, copy 86
Unused Visibility = 1
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1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11740, Visit 05, implementation Thu Jul 01 02:39:00 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: ORIENT 139D TO 247 D; ORIENT 319D TO 67 D; Period 2.21857578 D AND ZERO-PHASE HJD2454399.23990

Comments: First of two visits with WFC3, replacing Visit 01 which used Nicmos. It is essential for the four orbits to be scheduled in a contiguous four orbit block. These orbits should be free of the SAA.

The POS TARG of (-15.173, 1.158) is intended to place the first order spectrum within the 128x128 sub-array as defined in the 2010 WFC3 Technical report "IR Grism Subarray Design and Use". The fiducial pixel is at (410, 532) located ouside the 128x128 subarray, but within the 256x256 subarray used for the direct filter image.

Visit Orientation Requirements are set such that the faint nearby companion to HD189733 (located 10.2" west and 4.6" south) does not have overlapping spectra with the target. The Position angle of the compantion (HD189733B) is at 245.726 degees, which should not be oriented with the +/- X-axis of the detector by +28 degrees or -45 degrees.

Diagnostics

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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+/-0.01 B-V = 0.932, H = 5.587	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	Orbit 1 - Exposure 1 - F167N	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB256	F167N	NSAMP=1; SAMP-SEQ=RAPID	POS TARG -15.173, 1.158; PHASE 0.9256 TO 0.9359		*[==>]*	***[1]***
	Comments: The POS TARG of (-15.173, 1.158) is intended to place the first order spectrum within the 128x128 sub-array as defined in the 2010 WFC3 Technical report "IR Grism Subarray Design and Use". The fiducial pixel is at (410, 532) located ouside the 128x128 subarray, but within the 256x256 subarray used for the direct filter image.								
2	Orbit 1 - Exposures 2 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[1]***

	3	Orbit 1 - Exposures 3 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[1]***

	4	Orbit 1 - Exposures 4 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[1]***

	5	Orbit 1 - Exposures 5 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]	***[1]***
	6	Orbit 1 - Exposures 6 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 1.158	[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)]	***[1]***

7	Orbit 2 - New Obset - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 1.158; NEW OBSET	*[==>]*	***[2]***
8	Orbit 2 - Exposures 7 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[2]***

	9	Orbit 2 - Exposures 8 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[2]***

	10	Orbit 2 - Exposures 9 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[2]***

	11	Orbit 2 - Exposures 10 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[2]***

12	Orbit 2 - Exposures 11 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[2]***
13	Orbit 3 - New Obset - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 1.158; NEW OBSET	*[==>]*	***[3]***

	14	Orbit 3 - Exposures 12 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[3]***

15	Orbit 3 - Exposures 13 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[3]***

16	Orbit 3 - Exposures 14 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[3]***

	17	Orbit 3 - Exposures 15 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[3]***

18	Orbit 3 - Exposures 16 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[3]***
19	Orbit 4 - New Obset - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 1.158; NEW OBSET	*[==>]*	***[4]***

	20	Orbit 4 - Exposures 17 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[4]***

	21	Orbit 4 - Exposures 18 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[4]***

	22	Orbit 4 - Exposures 19 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[4]***

23	Orbit 4 - Exposures 20 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[4]***

	24	Orbit 4 - Exposures 21 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[4]***

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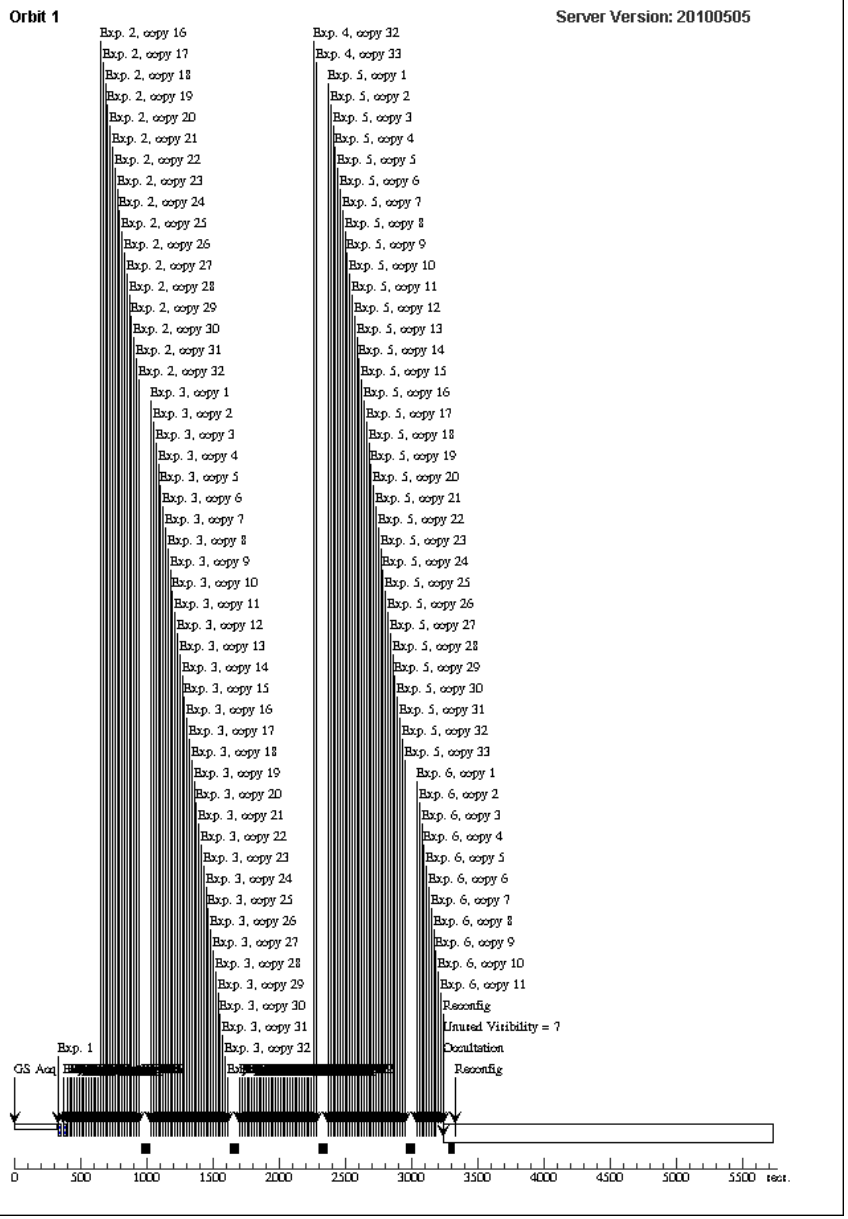

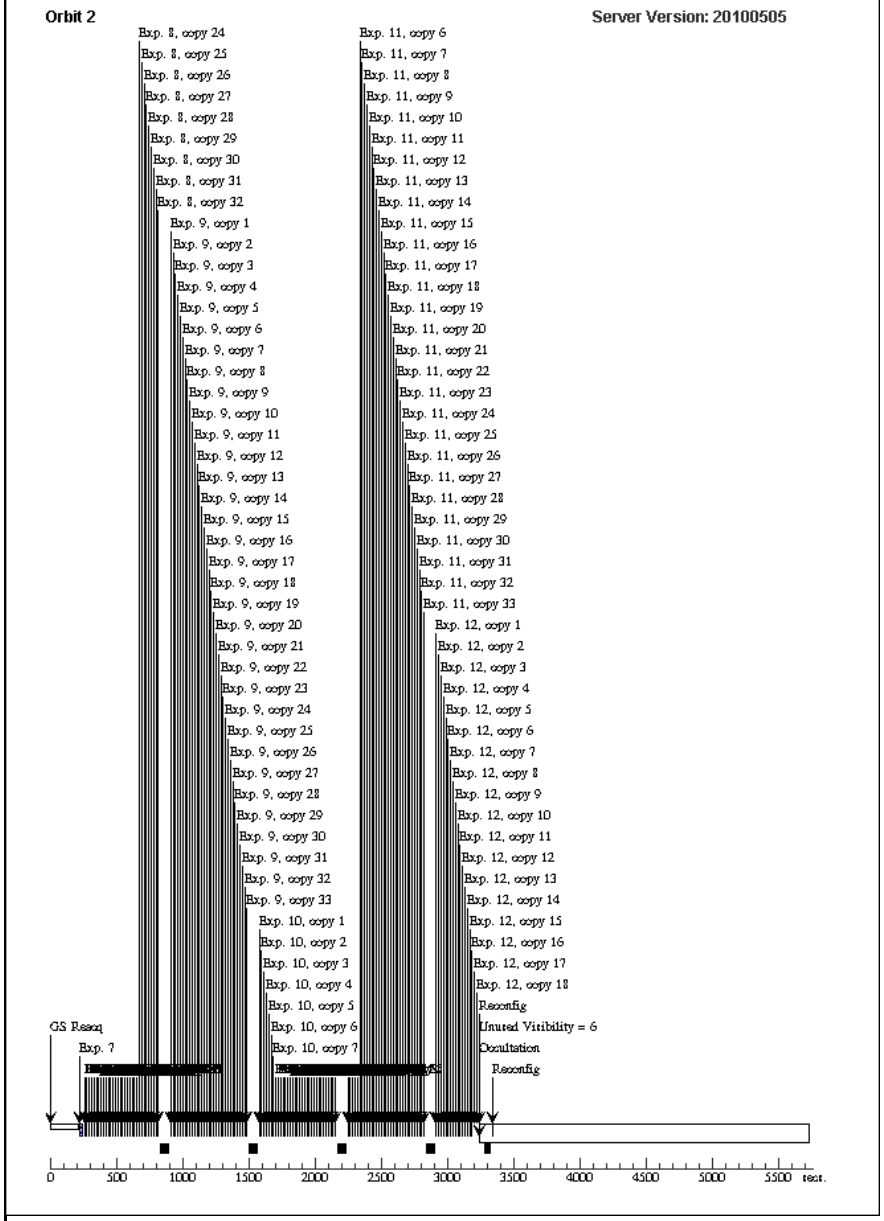
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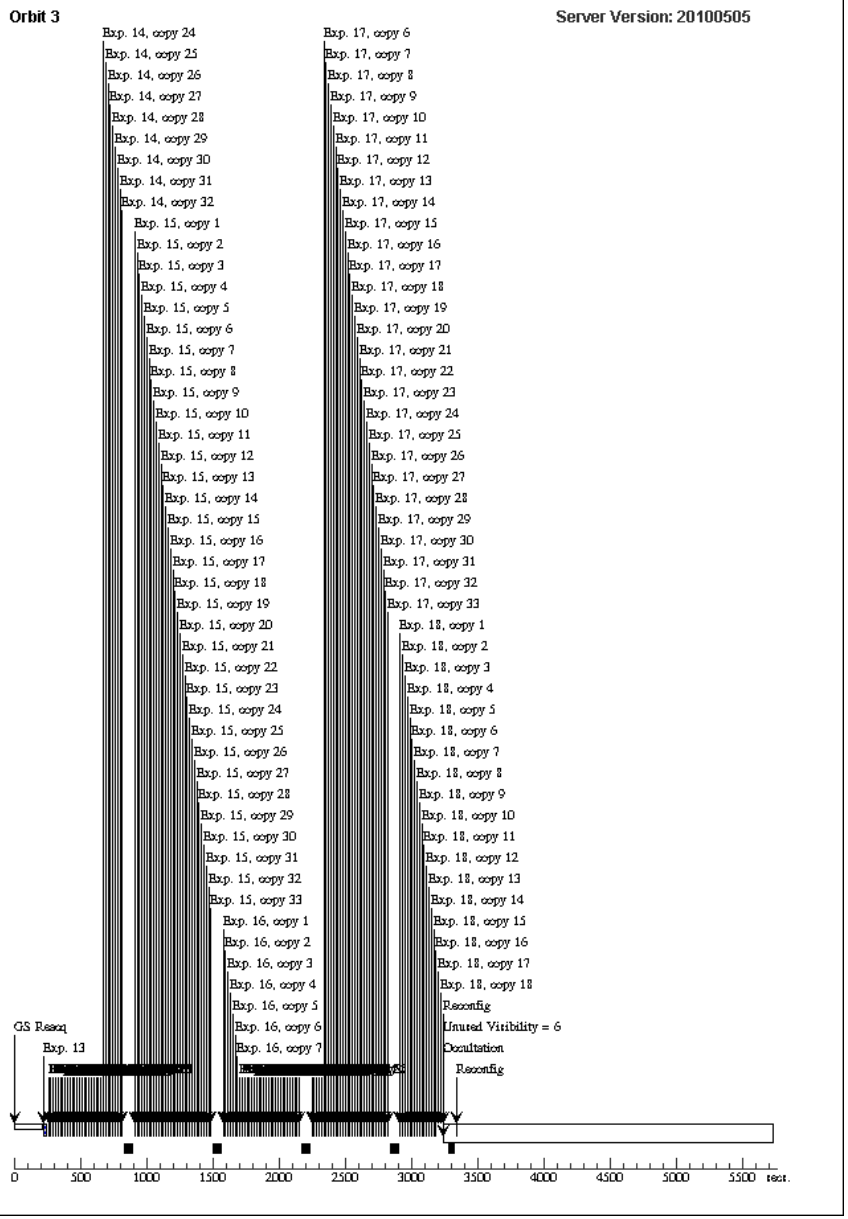
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Exp. 18, copy 16
Exp. 18, copy 17
Exp. 18, copy 18
Reconfig
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Occultation
Reconfig
GS Reacq
Exp. 13
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Orbit 4
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Reconfig
Unused Visibility = 6
Occultation
GS Reacq
Exp. 19
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5500
sec

Visit

Proposal 11740, Visit 06, implementation Thu Jul 01 02:41:25 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: ORIENT 139D TO 247 D; ORIENT 319D TO 67 D; Period 2.21857578 D AND ZERO-PHASE HJD2454399.23990

Comments: Second of two visits with WFC3, replacing Visit 4 which used Nicmos. It is essential for the four orbits to be scheduled in a contiguous four orbit block. These orbits should be free of the SAA.

The POS TARG of (-15.173, 1.158) is intended to place the first order spectrum within the 128x128 sub-array as defined in the 2010 WFC3 Technical report "IR Grism Subarray Design and Use". The fiducial pixel is at (410, 532) located ouside the 128x128 subarray, but within the 256x256 subarray used for the direct filter image.

Visit Orientation Requirements are set such that the faint nearby companion to HD189733 (located 10.2" west and 4.6" south) does not have overlapping spectra with the target. The Position angle of the compantion (HD189733B) is at 245.726 degees, which should not be oriented with the +/- X-axis of the detector by +28 degrees or -45 degrees.

Diagnostics

(Visit 06) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
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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+/-0.01 B-V = 0.932, H = 5.587	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	Orbit 1 - Exposure 1 - F167N	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB256	F167N	NSAMP=1; SAMP-SEQ=RAPID	POS TARG -15.173, 1.158; PHASE 0.9256 TO 0.9359		*[==>]*	***[1]***
	Comments: The POS TARG of (-15.173, 1.158) is intended to place the first order spectrum within the 128x128 sub-array as defined in the 2010 WFC3 Technical report "IR Grism Subarray Design and Use". The fiducial pixel is at (410, 532) located ouside the 128x128 subarray, but within the 256x256 subarray used for the direct filter image.								
2	Orbit 1 - Exposures 2 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[1]***

	3	Orbit 1 - Exposures 3 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[1]***

	4	Orbit 1 - Exposures 4 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[1]***

	5	Orbit 1 - Exposures 5 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]	***[1]***
	6	Orbit 1 - Exposures 6 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 1.158	[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)]	***[1]***

7	Orbit 2 - New Obset - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 1.158; NEW OBSET	*[==>]*	***[2]***
8	Orbit 2 - Exposures 7 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[2]***

	9	Orbit 2 - Exposures 8 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[2]***

	10	Orbit 2 - Exposures 9 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[2]***

	11	Orbit 2 - Exposures 10 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[2]***

12	Orbit 2 - Exposures 11 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[2]***
13	Orbit 3 - New Obset - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 1.158; NEW OBSET	*[==>]*	***[3]***

	14	Orbit 3 - Exposures 12 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[3]***

	15	Orbit 3 - Exposures 13 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[3]***

	16	Orbit 3 - Exposures 14 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[3]***

	17	Orbit 3 - Exposures 15 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[3]***

18	Orbit 3 - Exposures 16 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[3]***
19	Orbit 4 - New Obset - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 1.158; NEW OBSET	*[==>]*	***[4]***

	20	Orbit 4 - Exposures 17 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[4]***

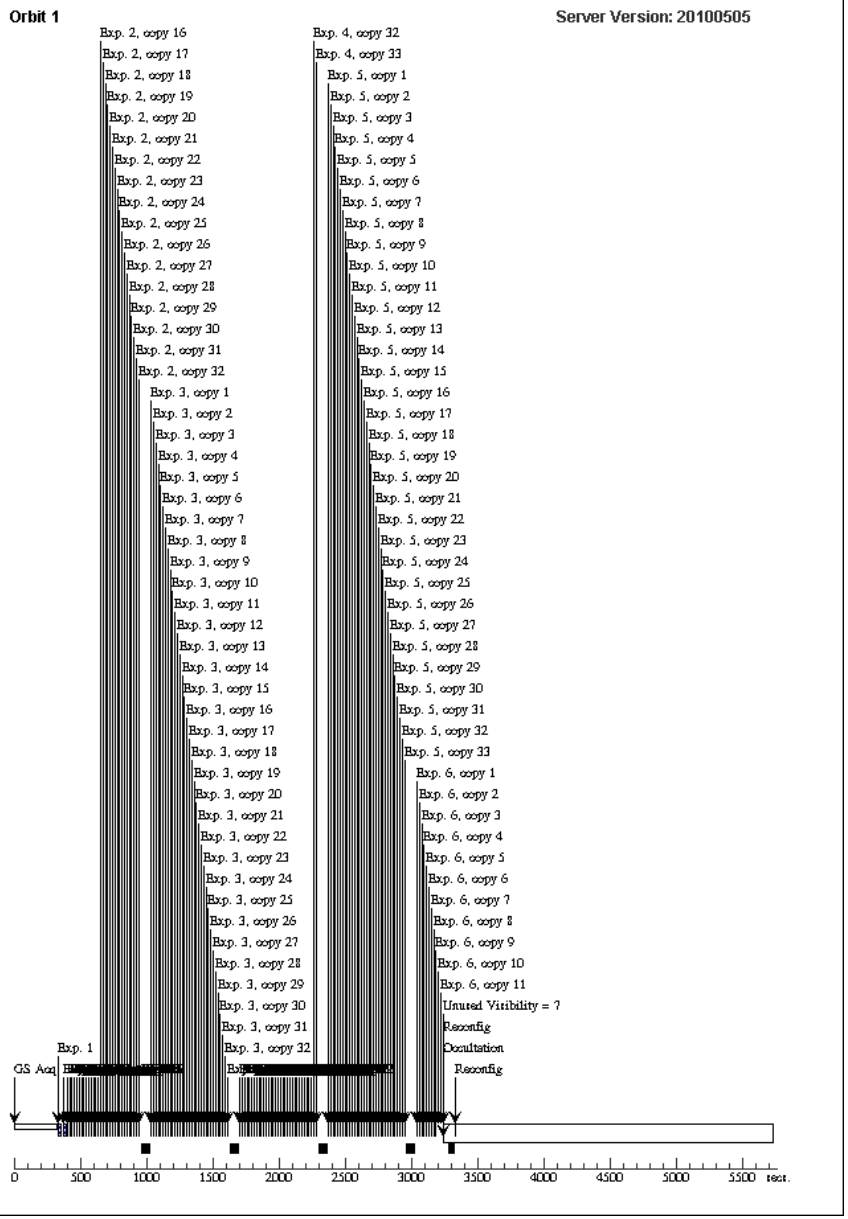
	21	Orbit 4 - Exposures 18 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 1.158	*[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 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)]*	***[4]***

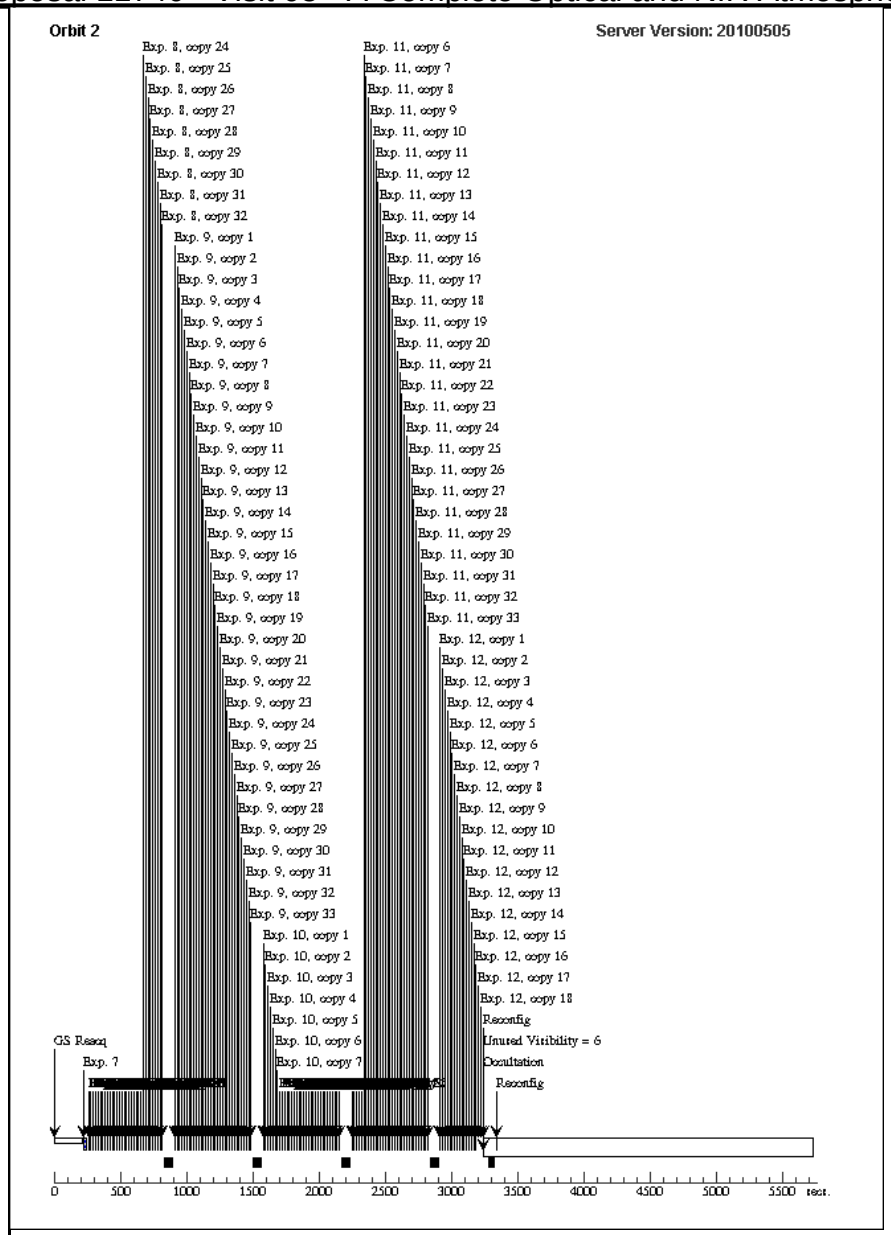
	22	Orbit 4 - Exposures 19 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 1.158	*[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 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)]*	***[4]***

	23	Orbit 4 - Exposures 20 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[4]***

	24	Orbit 4 - Exposures 21 - G141	(1) HD-189733	WFC3/IR, MULTIACCUM, IRSUB128	G141	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -15.173, 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)]*	***[4]***

Orbit Structure

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Exp. 8, copy 27
Exp. 8, copy 28
Exp. 8, copy 29
Exp. 8, copy 30
Exp. 8, copy 31
Exp. 8, copy 32
Exp. 9, copy 1
Exp. 9, copy 2
Exp. 9, copy 3
Exp. 9, copy 4
Exp. 9, copy 5
Exp. 9, copy 6
Exp. 9, copy 7
Exp. 9, copy 8
Exp. 9, copy 9
Exp. 9, copy 10
Exp. 9, copy 11
Exp. 9, copy 12
Exp. 9, copy 13
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Exp. 11, copy 8
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Exp. 11, copy 23
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Exp. 11, copy 25
Exp. 11, copy 26
Exp. 11, copy 27
Exp. 11, copy 28
Exp. 11, copy 29
Exp. 11, copy 30
Exp. 11, copy 31
Exp. 11, copy 32
Exp. 11, copy 33
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Exp. 12, copy 3
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Exp. 12, copy 9
Exp. 12, copy 10
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Exp. 12, copy 13
Exp. 12, copy 14
Exp. 12, copy 15
Exp. 12, copy 16
Exp. 12, copy 17
Exp. 12, copy 18
Reconfig
Unused Viribility = 6
Occultation
Reconfig
GS Reacq
Exp. 7
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500
1000
1500
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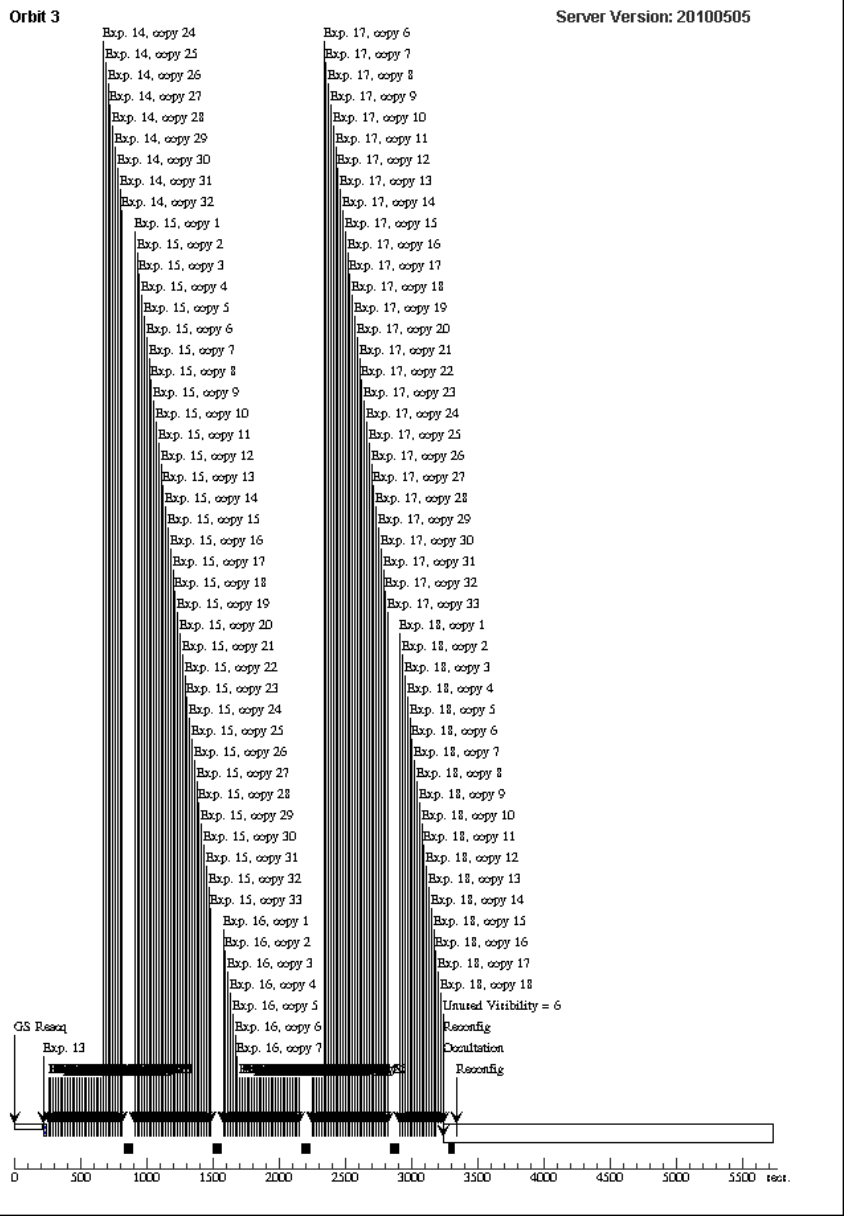
2500
3000
3500
4000
4500
5000
5500
sec.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Exp. 15, copy 18
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Exp. 18, copy 4
Exp. 18, copy 5
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Exp. 18, copy 8
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Exp. 18, copy 11
Exp. 18, copy 12
Exp. 18, copy 13
Exp. 18, copy 14
Exp. 18, copy 15
Exp. 18, copy 16
Exp. 18, copy 17
Exp. 18, copy 18
Unused Visibility = 6
Reconfig
Occultation
Reconfig
GS Reacq
Exp. 13
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 4
Server Version: 20100505
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Exp. 20, copy 23
Exp. 20, copy 24
Exp. 20, copy 25
Exp. 20, copy 26
Exp. 20, copy 27
Exp. 20, copy 28
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Exp. 24, copy 12
Exp. 24, copy 13
Exp. 24, copy 14
Exp. 24, copy 15
Exp. 24, copy 16
Exp. 24, copy 17
Exp. 24, copy 18
GS Reacq
Exp. 19
Reconfig
Unused Visibility = 6
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11740, Visit 03, withdrawn Thu Jul 01 02:43:51 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: NIC3

Special Requirements: Period 2.21857578 D AND ZERO-PHASE HJD2454399.23990

Comments: Second of two identical visits with NICMOS. It is essential for the four orbits to be scheduled in a contiguous four orbit block. These orbits should be free of the SAA.

Diagnostics

(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) 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+/-0.01 B-V = 0.932, H = 5.587	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		(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	F166N	NSAMP=3; SAMP-SEQ=STEP1 ; CAMERA-FOCUS =DEFOCUS	POS TARG -9.0,-5.4 ; PHASE 0.9256 TO 0 .9359		*[==>]*	***[1]***

Comments: The POS TARG of -9.0,-5.4 is intended to place the first order spectrum at the left edge (2" buffer) of the detector, and the zeroth order 1.5" inside the right edge.

	2	(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP1 ; NSAMP=3; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1		

		[==>(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 65)]

	3	(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP1; NSAMP=3; CAMERA-FOCUS=DEFOCUS	POS TARG -9.0,-5.41		

		[==>(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 64)]
[==>(Copy 65)]
[==>(Copy 66)]

	4	(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP1; NSAMP=3; CAMERA-FOCUS=DEFOCUS	POS TARG -9.0,-5.39		

		[==>(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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	5	(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP1 ; NSAMP=3; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1		

		[==>(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 71)]
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	6	(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP1 ; NSAMP=3; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1; NEW OBSET		

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	7	(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP1; NSAMP=3; CAMERA-FOCUS=DEFOCUS	POS TARG -9.0,-5.41		

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	8	(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP1; NSAMP=3; CAMERA-FOCUS=DEFOCUS	POS TARG -9.0,-5.39		

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	9	(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP1 ; NSAMP=3; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1		

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	10	(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP1 ; NSAMP=3; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1; NEW OBSET		

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	11	(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP1 ; NSAMP=3; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1; NEW OBSET		

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	12	(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP1; NSAMP=3; CAMERA-FOCUS=DEFOCUS	POS TARG -9.0,-5.41		

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	13	(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP1 ; NSAMP=3; CAMERA-FOCUS =DEFOCUS	POS TARG -9.0,-5.3 9		

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	14	(1) HD-189733	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP1 ; NSAMP=3; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1		

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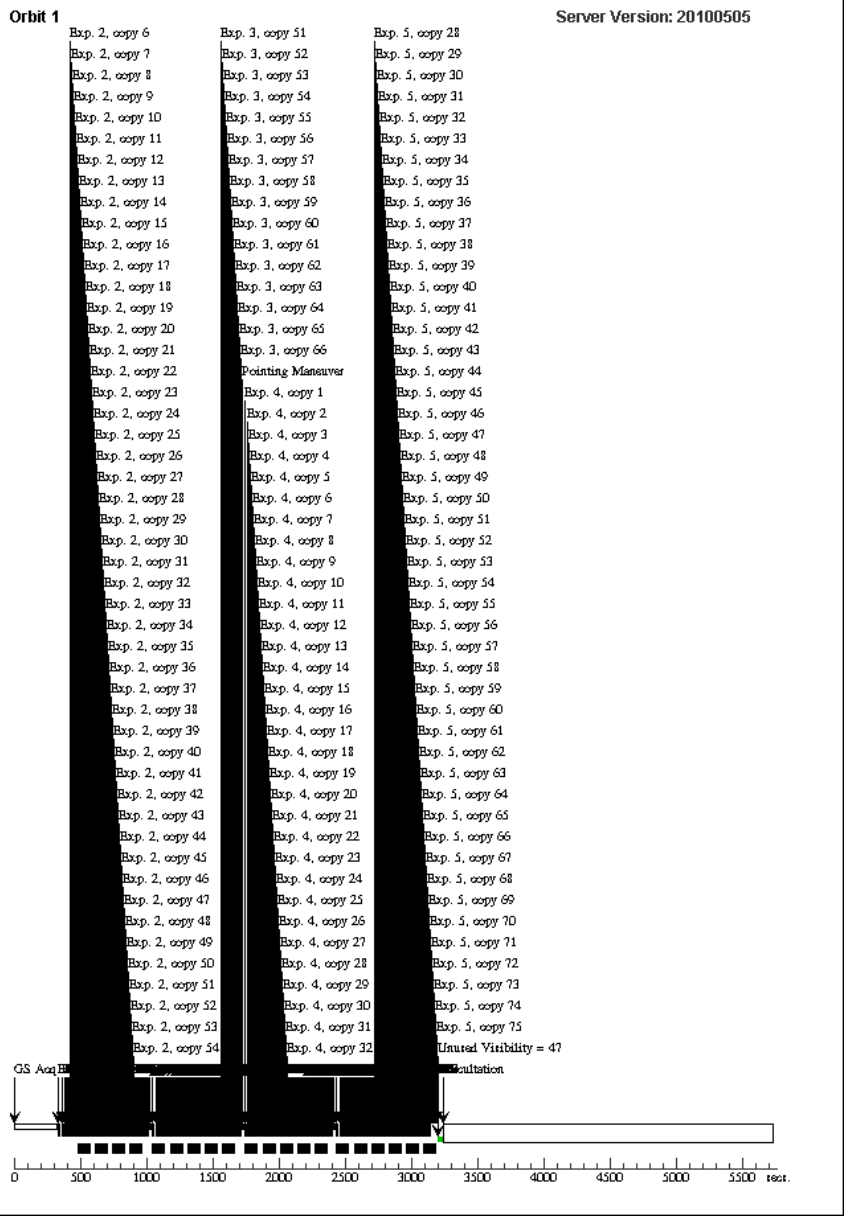

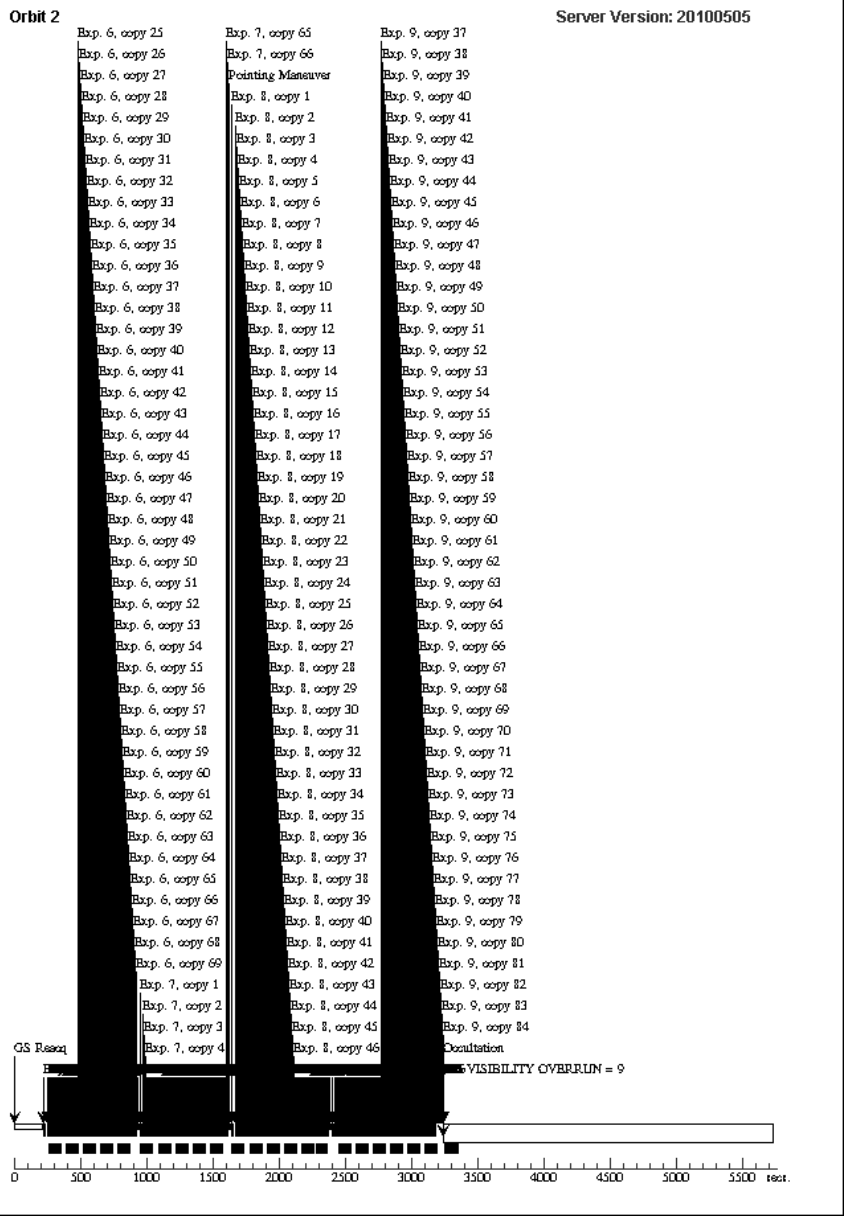
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Exp. 8, copy 46
Exp. 9, copy 37
Exp. 9, copy 38
Exp. 9, copy 39
Exp. 9, copy 40
Exp. 9, copy 41
Exp. 9, copy 42
Exp. 9, copy 43
Exp. 9, copy 44
Exp. 9, copy 45
Exp. 9, copy 46
Exp. 9, copy 47
Exp. 9, copy 48
Exp. 9, copy 49
Exp. 9, copy 50
Exp. 9, copy 51
Exp. 9, copy 52
Exp. 9, copy 53
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Exp. 9, copy 55
Exp. 9, copy 56
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Exp. 9, copy 58
Exp. 9, copy 59
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Exp. 9, copy 78
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Exp. 9, copy 80
Exp. 9, copy 81
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Exp. 9, copy 83
Exp. 9, copy 84
Occultation
GS Reacq
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3500
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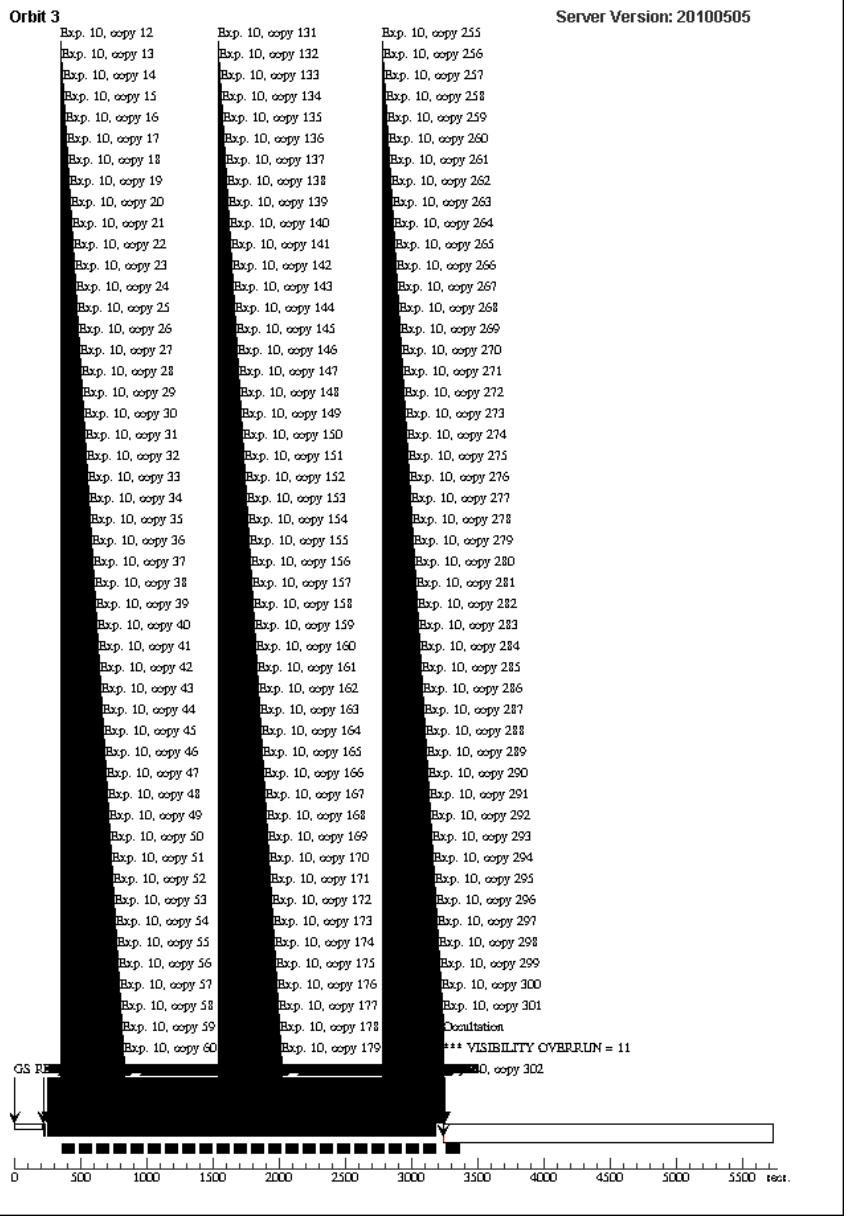
4500
5000
5500
sec.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Server Version: 20100505
Occultation
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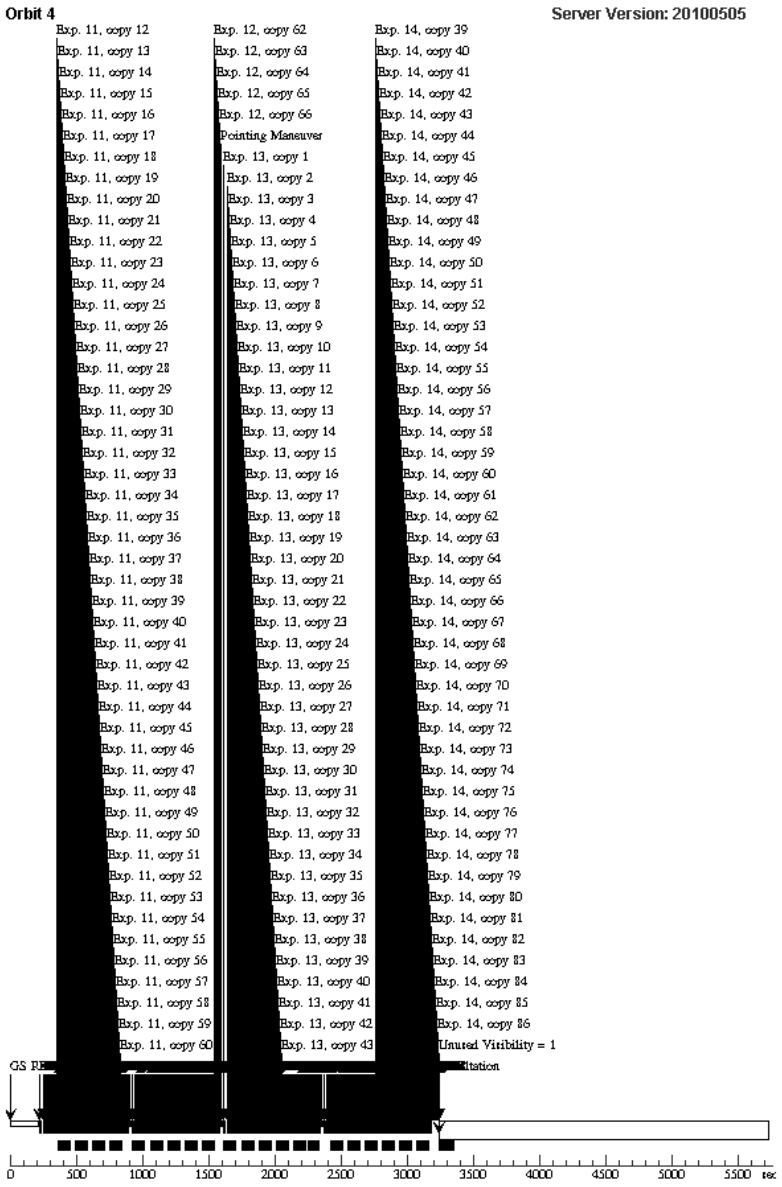
5500
sec.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Exp. 11, copy 59
Exp. 11, copy 60
Exp. 12, copy 62
Exp. 12, copy 63
Exp. 12, copy 64
Exp. 12, copy 65
Exp. 12, copy 66
Pointing Maneuver
Exp. 13, copy 1
Exp. 13, copy 2
Exp. 13, copy 3
Exp. 13, copy 4
Exp. 13, copy 5
Exp. 13, copy 6
Exp. 13, copy 7
Exp. 13, copy 8
Exp. 13, copy 9
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Exp. 14, copy 78
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Exp. 14, copy 80
Exp. 14, copy 81
Exp. 14, copy 82
Exp. 14, copy 83
Exp. 14, copy 84
Exp. 14, copy 85
Exp. 14, copy 86
Unused Visibility = 1
GS RE
station
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11740, Visit 02, completed Thu Jul 01 02:44:20 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: Period 2.21857578 D AND ZERO-PHASE HJD2454399.23990

Comments: First of two STIS visits. It is essential for the 4 orbits to be scheduled in a contiguous block.

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) 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+/-0.01 B-V = 0.932, H = 5.587	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		(1) HD-189733	STIS/CCD, ACQ, F28X50OII	MIRROR		PHASE 0.9256 TO 0 .9359		5.0 Secs *[==>]*	 ***[1]***
Comments: CCD peak counts expected are 45,000 e-.									
2		(1) HD-189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	GAIN=4; CR-SPLIT=NO; SIZEAXIS2=128.0; WAVECAL=NO	MAX DUR 100 %; MIN DUR 100 %		66.0 Secs X 5 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]*	 ***[1]***
Comments: Start of primary spectroscopic time series. Exposures are expected to oversaturate by a factor of about 2 near peak.									
3		(1) HD-189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	GAIN=4; CR-SPLIT=NO; SIZEAXIS2=128.0; WAVECAL=NO	MAX DUR 100 %; MIN DUR 100 %		64.0 Secs X 5 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]*	 ***[1]***
Comments: During first orbit taking series of 65,63,65 seconds etc for establishing linearity at depth of transit.									
4		(1) HD-189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	GAIN=4; CR-SPLIT=NO; SIZEAXIS2=128.0; WAVECAL=NO	MAX DUR 100 %; MIN DUR 100 %		66.0 Secs X 5 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]*	 ***[1]***
5		(1) HD-189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	GAIN=4; CR-SPLIT=NO; SIZEAXIS2=128.0; WAVECAL=NO	MAX DUR 100 %; MIN DUR 100 %		64.0 Secs X 5 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]*	 ***[1]***
6		(1) HD-189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	GAIN=4; CR-SPLIT=NO; SIZEAXIS2=128.0; WAVECAL=NO	MAX DUR 100 %; MIN DUR 100 %		66.0 Secs X 8 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	 ***[1]***

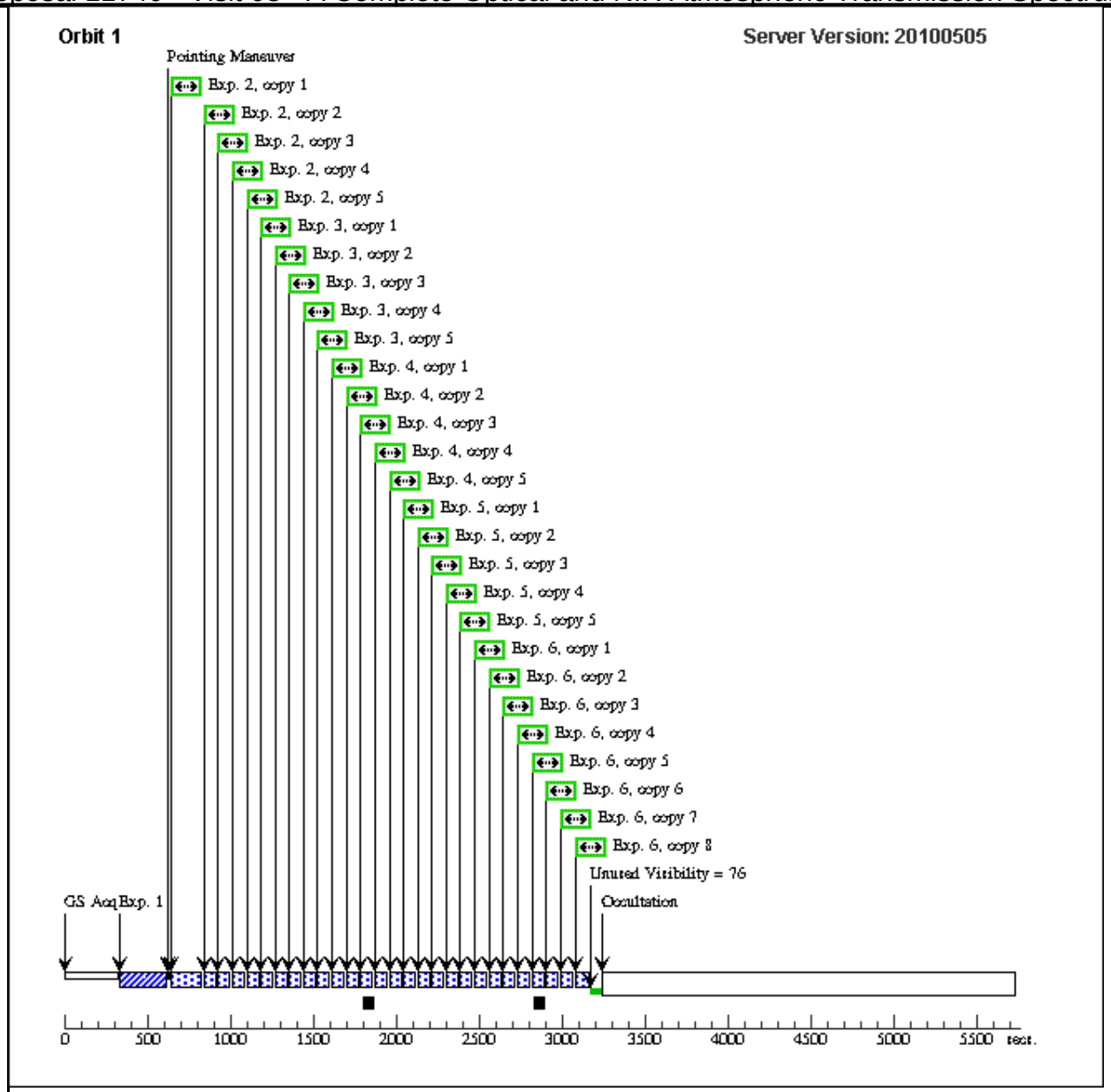
	7	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	GAIN=4; CR-SPLIT=NO; SIZEAXIS2=128.0; WAVECAL=NO	MAX DUR 100 %; MIN DUR 100 %	66.0 Secs X 35 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(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)]*	***[2]***

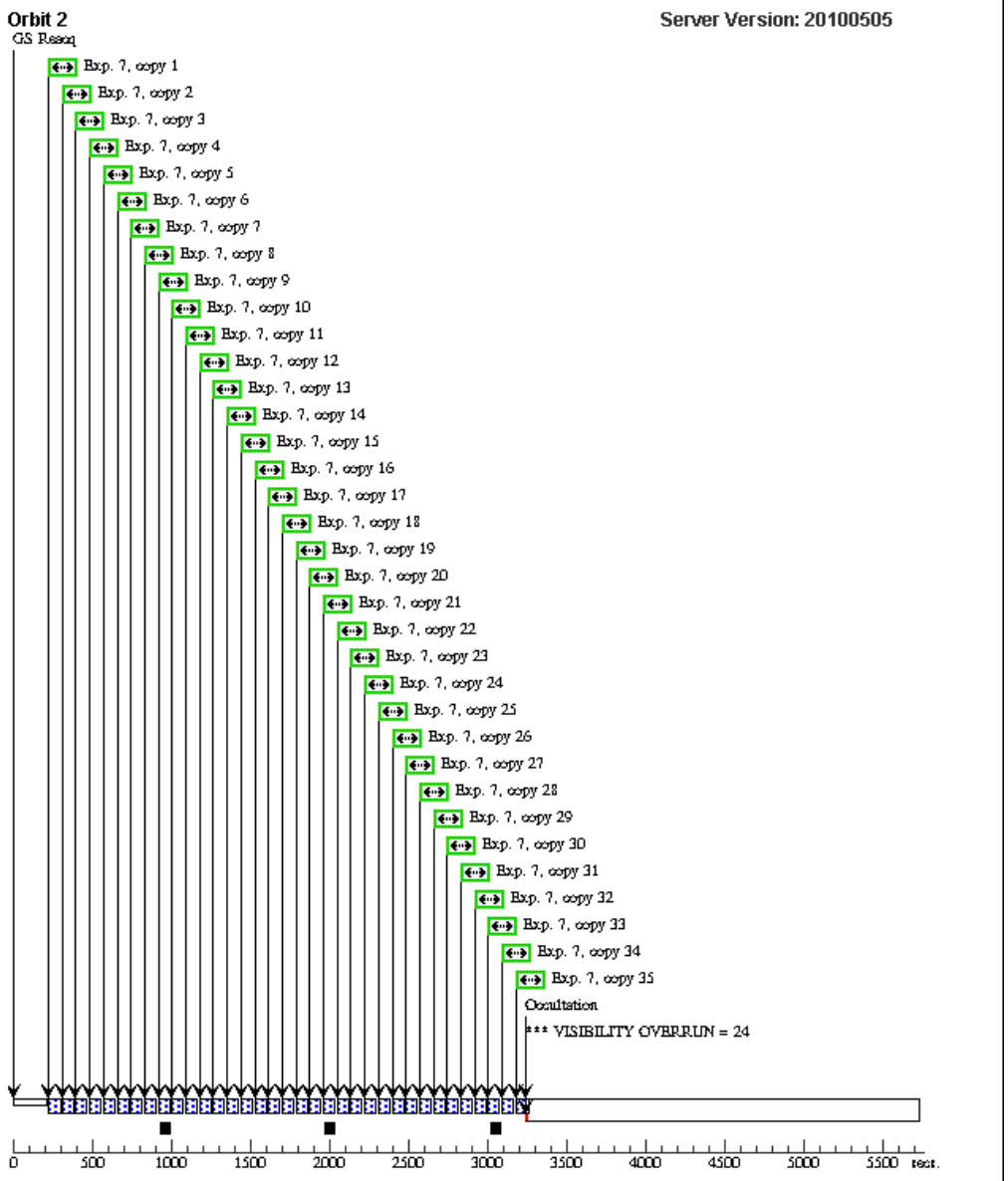
	8	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	GAIN=4; CR-SPLIT=NO; SIZEAXIS2=128.0; WAVECAL=NO	MAX DUR 100 %; MIN DUR 100 %	66.0 Secs X 35 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(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)]*	***[3]***

9	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	GAIN=4; CR-SPLIT=NO; SIZEAXIS2=128.0; WAVECAL=NO	66.0 Secs X 35 *[==>(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)]*	***[4]***
10	WAVE	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A		*[==>]*	***[4]***

Comments: Standard wavecal, since using autowaves=no.

Orbit Structure

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Occultation
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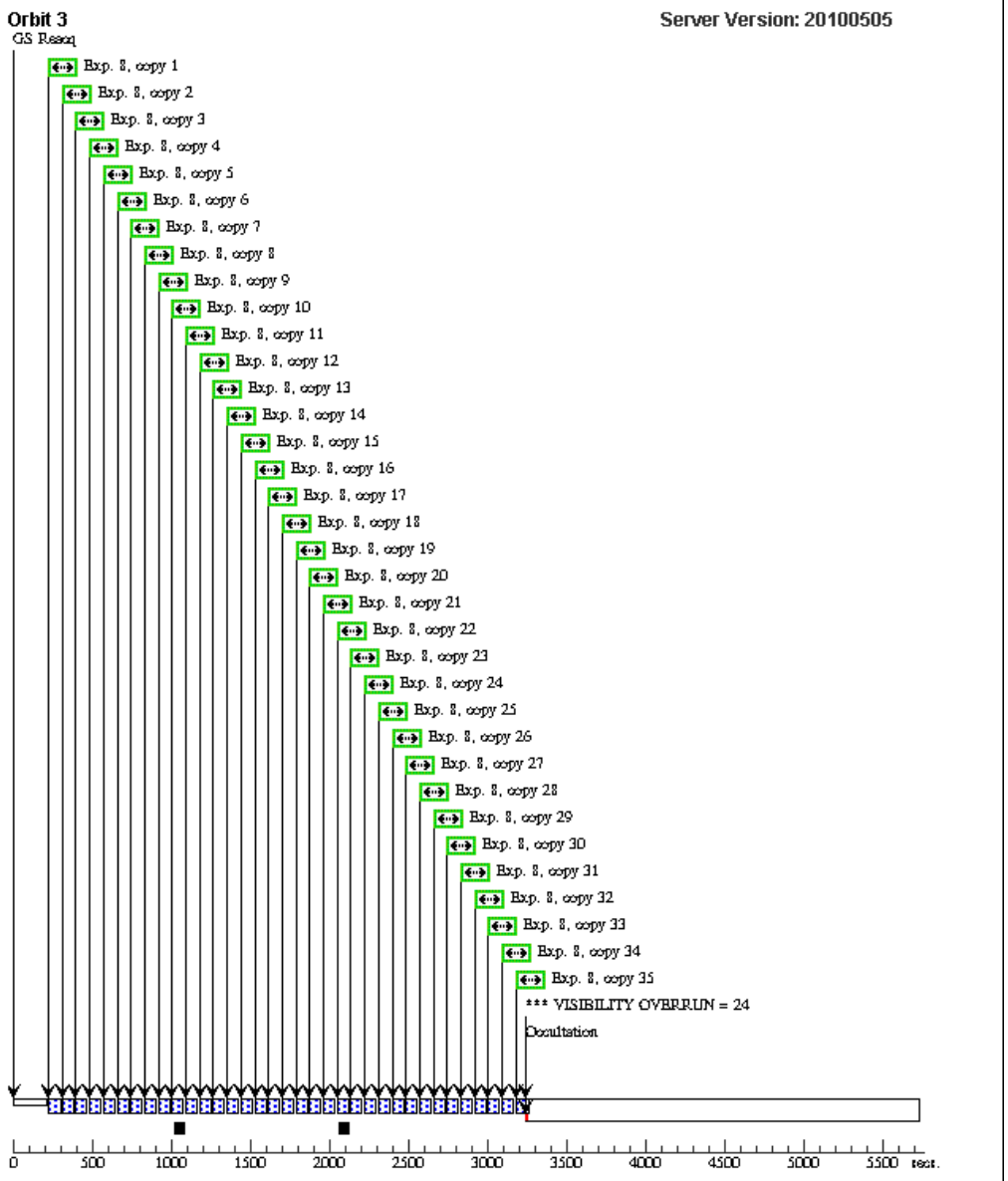
sec.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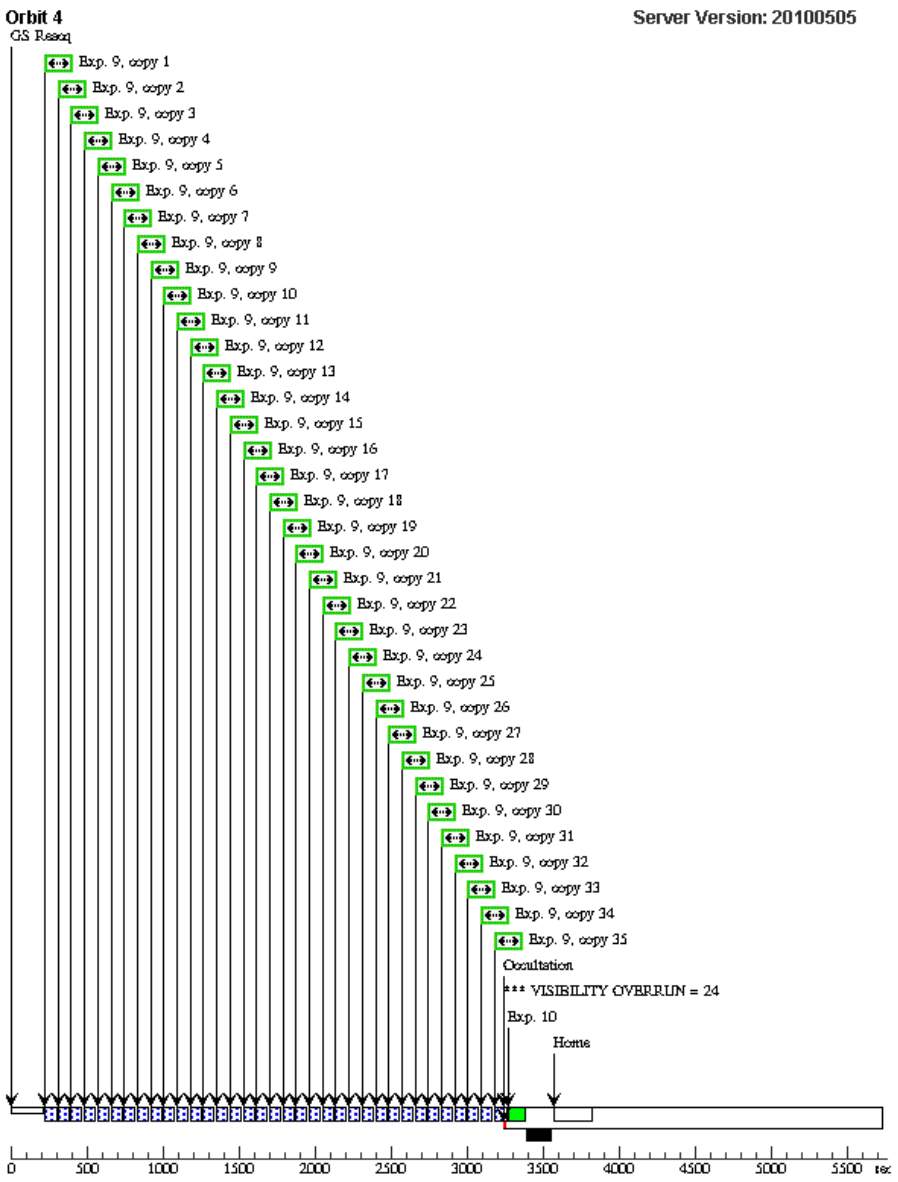
sec.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Server Version: 20100505
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Exp. 9, copy 34
Exp. 9, copy 35
Occultation
*** VISIBILITY OVERRUN = 24
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3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11740, Visit 04, completed Thu Jul 01 02:44:22 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: Period 2.21857578 D AND ZERO-PHASE HJD2454399.23990

Comments: Second of two identical STIS visits. It is essential for the 4 orbits to be scheduled in a contiguous block.

Diagnostics

(Visit 04) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 04) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 04) 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+/-0.01 B-V = 0.932, H = 5.587	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		(1) HD-189733	STIS/CCD, ACQ, F28X50OII	MIRROR		PHASE 0.9256 TO 0 .9359		5.0 Secs	
								[==>]	***[1]***
Comments: CCD peak counts expected are 45,000 e-.									
2		(1) HD-189733	STIS/CCD, ACCUM, 52X2	G430L	GAIN=4;	MAX DUR 100 %;		66.0 Secs X 5	
				4300 A	CR-SPLIT=NO;	MIN DUR 100 %		*[==>(Copy 1)]*	
					SIZEAXIS2=128.0;			*[==>(Copy 2)]*	
					WAVECAL=NO			*[==>(Copy 3)]*	***[1]***
								[==>(Copy 4)]	
								[==>(Copy 5)]	
Comments: Start of primary spectroscopic time series. Exposures are expected to oversaturate by a factor of about 2 near peak.									
3		(1) HD-189733	STIS/CCD, ACCUM, 52X2	G430L	GAIN=4;	MAX DUR 100 %;		64.0 Secs X 5	
				4300 A	CR-SPLIT=NO;	MIN DUR 100 %		*[==>(Copy 1)]*	
					SIZEAXIS2=128.0;			*[==>(Copy 2)]*	
					WAVECAL=NO			*[==>(Copy 3)]*	***[1]***
								[==>(Copy 4)]	
								[==>(Copy 5)]	
Comments: During first orbit taking series of 65,63,65 seconds etc for establishing linearity at depth of transit.									
4		(1) HD-189733	STIS/CCD, ACCUM, 52X2	G430L	GAIN=4;	MAX DUR 100 %;		66.0 Secs X 5	
				4300 A	CR-SPLIT=NO;	MIN DUR 100 %		*[==>(Copy 1)]*	
					SIZEAXIS2=128.0;			*[==>(Copy 2)]*	
					WAVECAL=NO			*[==>(Copy 3)]*	***[1]***
								[==>(Copy 4)]	
								[==>(Copy 5)]	
5		(1) HD-189733	STIS/CCD, ACCUM, 52X2	G430L	GAIN=4;	MAX DUR 100 %;		64.0 Secs X 5	
				4300 A	CR-SPLIT=NO;	MIN DUR 100 %		*[==>(Copy 1)]*	
					SIZEAXIS2=128.0;			*[==>(Copy 2)]*	
					WAVECAL=NO			*[==>(Copy 3)]*	***[1]***
								[==>(Copy 4)]	
								[==>(Copy 5)]	
6		(1) HD-189733	STIS/CCD, ACCUM, 52X2	G430L	GAIN=4;	MAX DUR 100 %;		66.0 Secs X 8	
				4300 A	CR-SPLIT=NO;	MIN DUR 100 %		*[==>(Copy 1)]*	
					SIZEAXIS2=128.0;			*[==>(Copy 2)]*	
					WAVECAL=NO			*[==>(Copy 3)]*	
								[==>(Copy 4)]	
								[==>(Copy 5)]	
								[==>(Copy 6)]	
								[==>(Copy 7)]	***[1]***
								[==>(Copy 8)]	

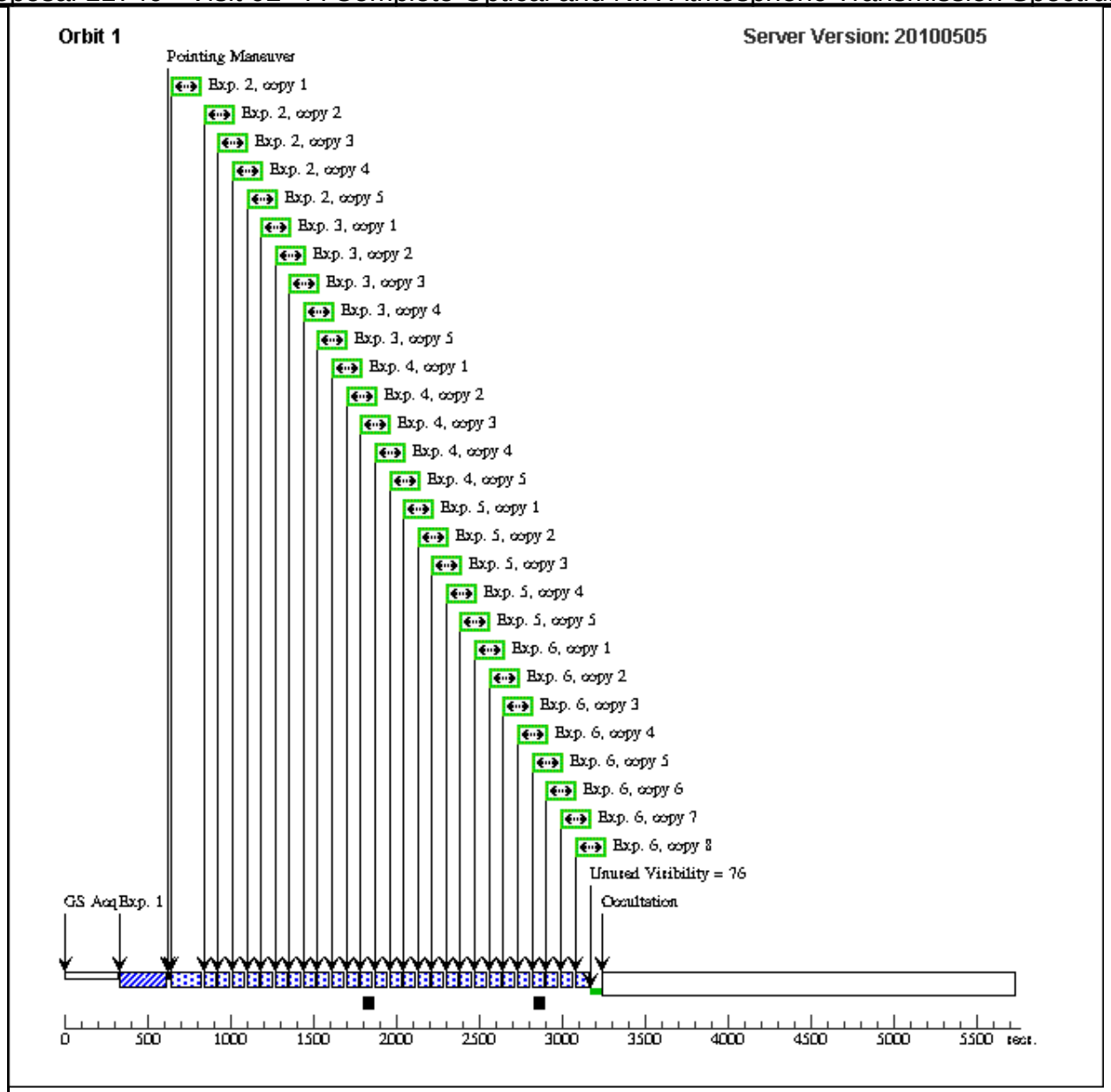
	7	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	GAIN=4; CR-SPLIT=NO; SIZEAXIS2=128.0; WAVECAL=NO	MAX DUR 100 %; MIN DUR 100 %	66.0 Secs X 35 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(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)]*	***[2]***

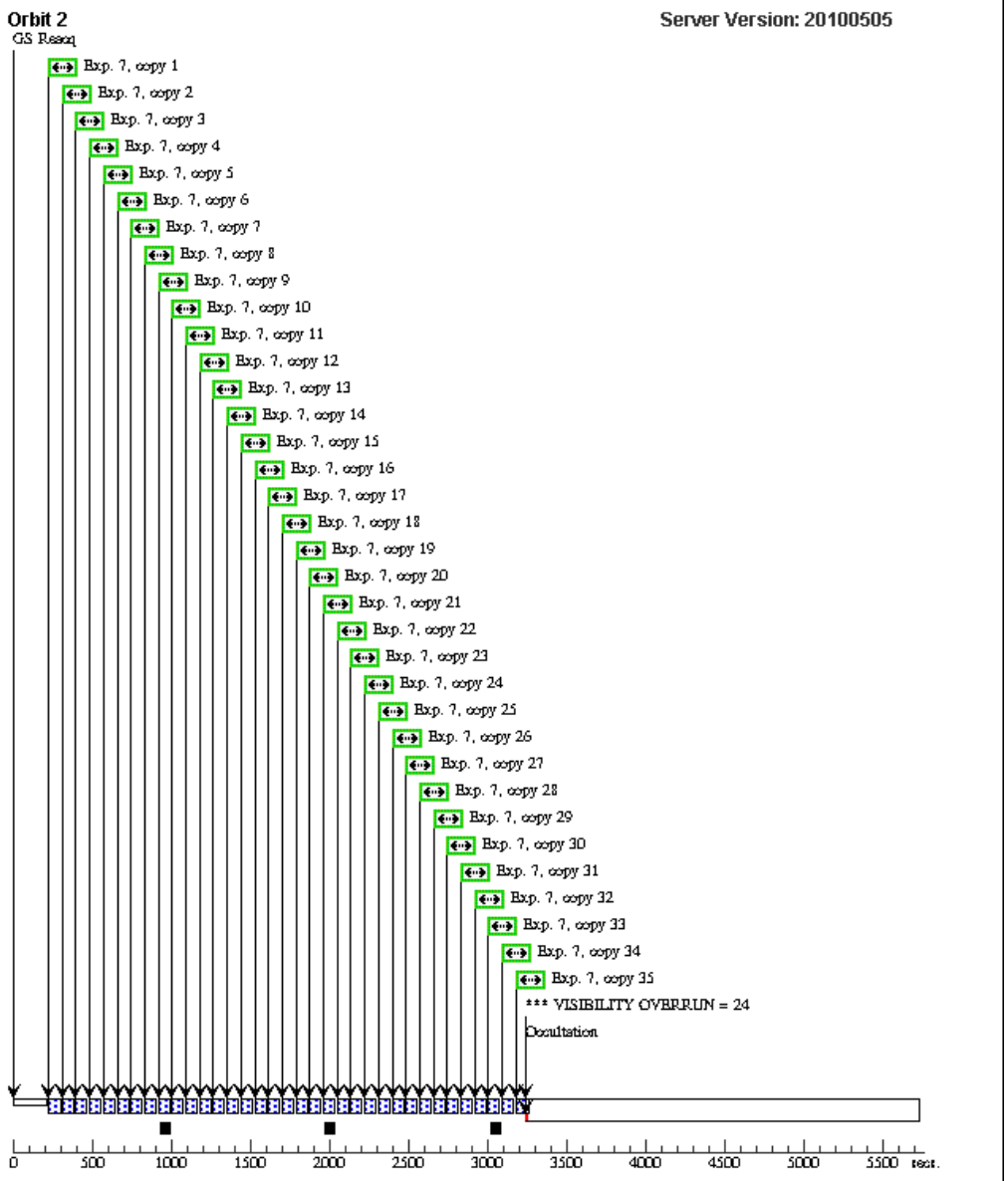
	8	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	GAIN=4; CR-SPLIT=NO; SIZEAXIS2=128.0; WAVECAL=NO	MAX DUR 100 %; MIN DUR 100 %	66.0 Secs X 35 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(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)]*	***[3]***

9	(1) HD-189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	GAIN=4; CR-SPLIT=NO; SIZEAXIS2=128.0; WAVECAL=NO	66.0 Secs X 35 *[==>(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)]*	***[4]***
10	WAVE	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A		*[==>]*	***[4]***

Comments: Standard wavecal, since using autowaves=no.

Orbit Structure

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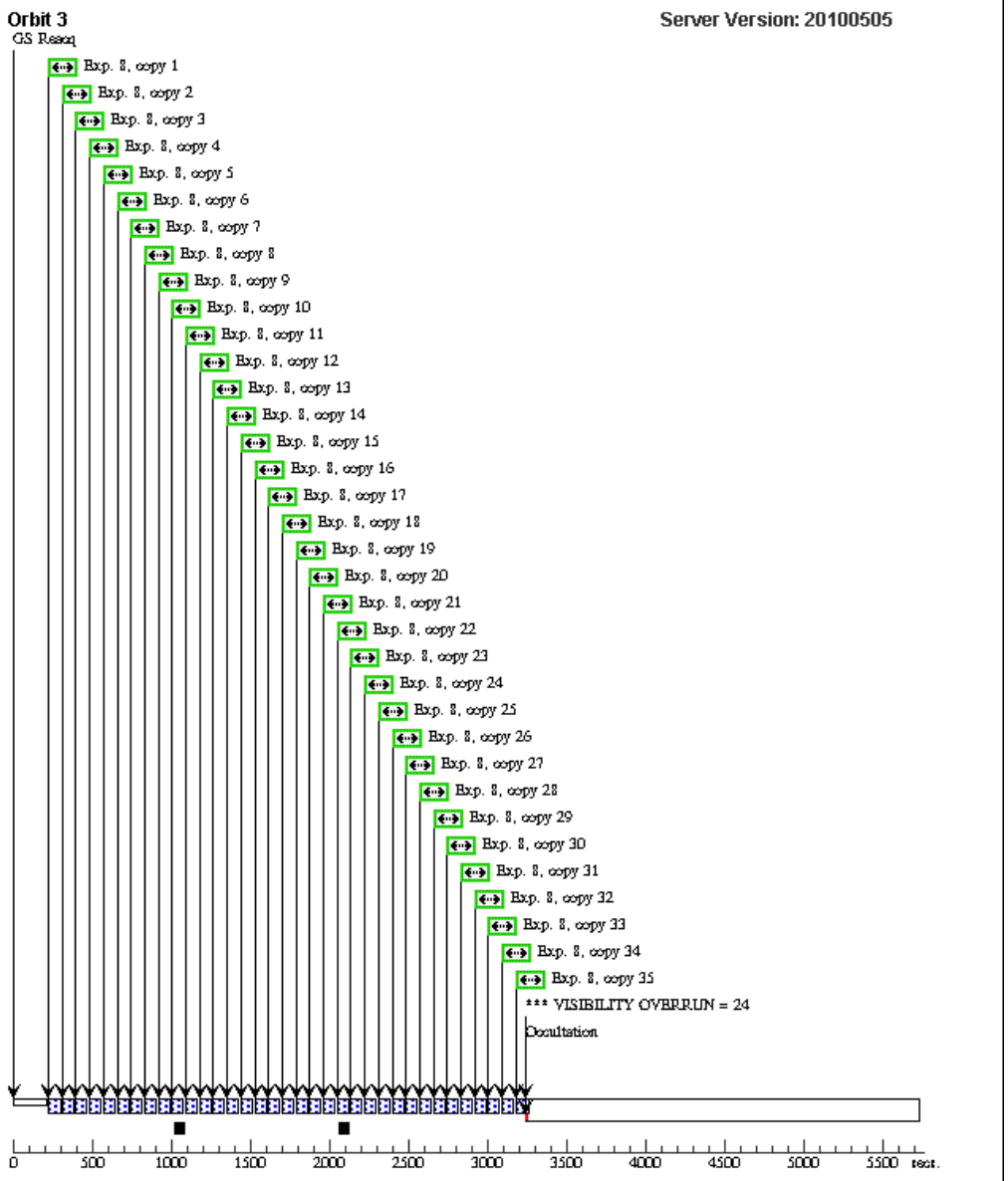
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*** VISIBILITY OVERRUN = 24
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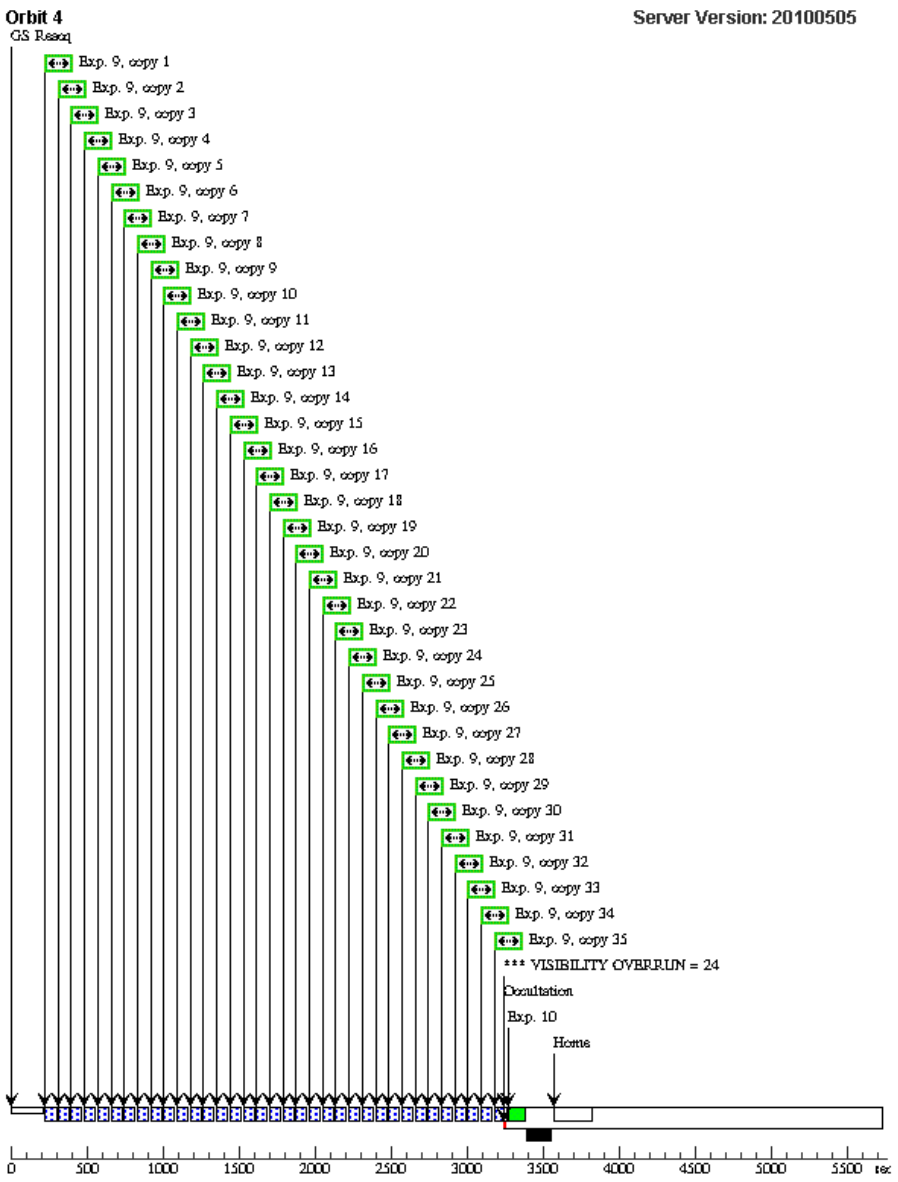
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Exp. 9, copy 32
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Exp. 9, copy 34
Exp. 9, copy 35
*** VISIBILITY OVERRUN = 24
Occultation
Exp. 10
Home
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sec