



11310 - Jupiter's North Temperate Belt Disturbance

Cycle: 15, Proposal Category: GO/DD

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Prof. Agustin Sanchez-Lavega (PI)	Universidad del Pais Vasco	
Dr. Santiago Perez-Hoyos (CoI)	Universidad del Pais Vasco	
Dr. Ricardo Hueso (CoI)	Universidad del Pais Vasco	
Dr. Enrique Garcia-Melendo (CoI)	Institut d'Estudis Espacials de Catalunya	
Dr. Glenn S. Orton (CoI)	Jet Propulsion Laboratory	
Dr. Amy Simon-Miller (CoI) (Contact)	NASA Goddard Space Flight Center	

VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) JUPITER-25N	WFPC2	1	30-May-2007 22:09:16.0	yes
02	(1) JUPITER-25N	WFPC2	1	30-May-2007 22:09:23.0	yes
03	(1) JUPITER-25N	WFPC2	1	30-May-2007 22:09:29.0	yes
04	(1) JUPITER-25N	WFPC2	1	30-May-2007 22:09:33.0	yes

4 Total Orbits Used

ABSTRACT

A unique and huge disturbance started at the end of March 2007 in the strongest Jovian atmospheric jet at 24deg N with the eruption of two bright plumes followed by a dark albedo turbulent pattern which fully changed the jet structure and the belt/zone pattern at this latitude. This kind of disturbance is rare in Jupiter, the last one was observed in 1990 but only at low resolution. Up to now we have studied the 2007 event using a battery of ground-based instrumentation (with visible and infrared wavelength coverage), and after 40 days of development, the two plumes have extinguished whereas the disturbance has fully encircled the planet, forming a new dark belt. We have HST WFPC2 high resolution images of the belt/jet structure at 24deg N before the eruption. Those images were taken in January and February 2007 to support the New Horizons flyby, and now we require new observations of the new belt and jet following the disturbance, to compare both stages and determine its action on the jet wind profile and belt/zone cloud vertical structure. This comparison will provide for the first time valuable information on the maintenance, variability and origin of Jupiter jets and cloud banding.

OBSERVING DESCRIPTION

Observe Jupiter immediately after a North Temperate Belt upheaval to determine the effect on the zonal winds. 4 orbits, each spaced 5 hrs apart, allows winds to be measured at all longitudes.

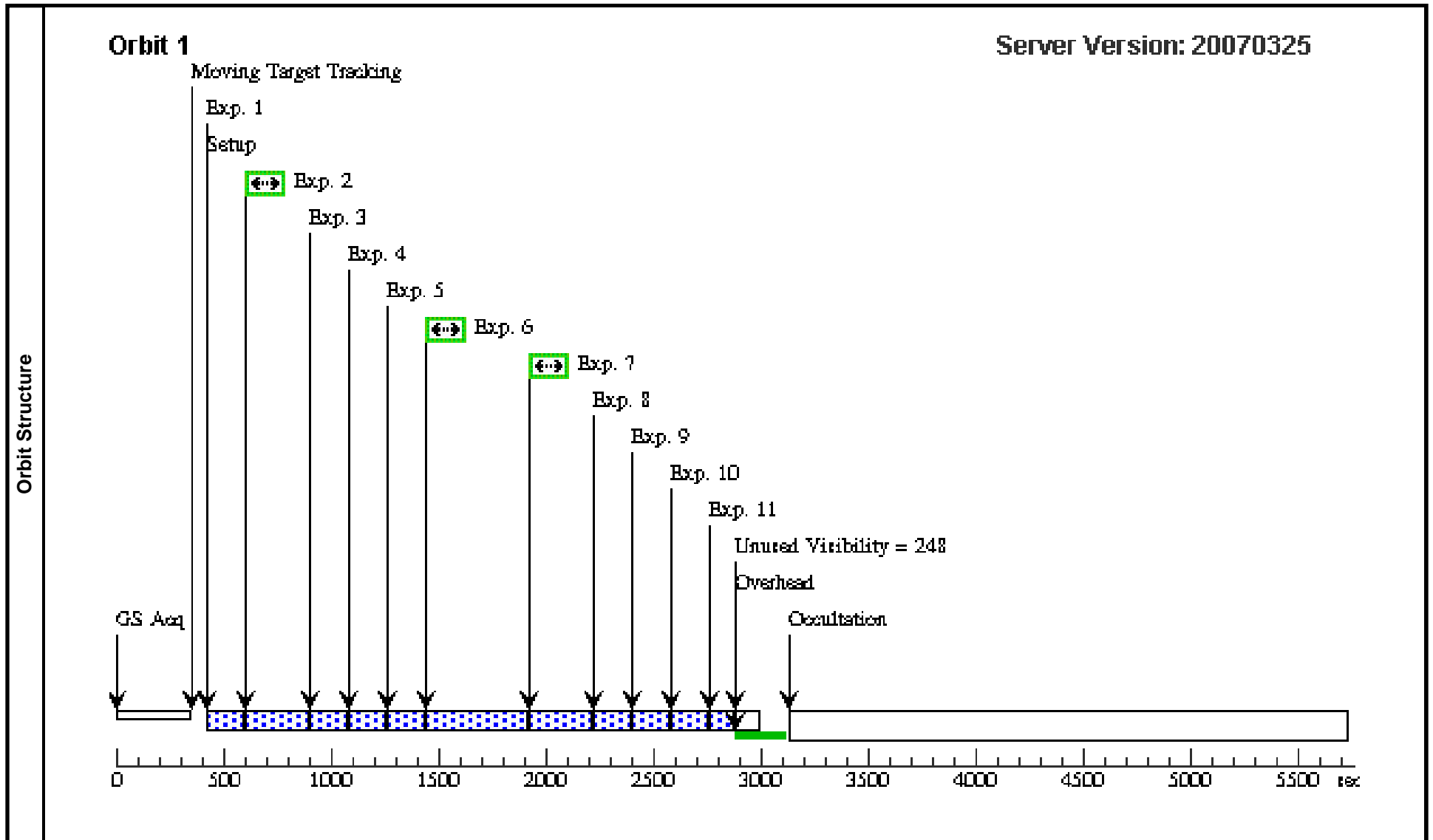
Proposal 11310 - Visit 01 - Jupiter's North Temperate Belt Disturbance

Thu May 31 02:09:35 GMT 2007

Visit	Proposal 11310, Visit 01, scheduling Diagnostic Status: Warning Scientific Instruments: WFPC2 Special Requirements: BETWEEN 27-MAY-2007:00:00:00 AND 10-JUN-2007:00:00:00 <i>Comments: First orbit - any CM longitude is acceptable. Bias Jupiter or roll, if needed, so that northern hemisphere is clear of the FQCH4P15 vignetted region of the PC, while retaining the maximum amount of planet that is visible. Filters can be trimmed back to fit the orbit, starting with Exp. 11 and working up the list.</i>									
	(Exposure 2 (Visit 01)) Warning: Partially rotated filters should generally be specified with a corresponding aperture. (Exposure 7 (Visit 01)) Warning: Partially rotated filters should generally be specified with a corresponding aperture.									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				
	(1)	JUPITER-25N	STD=JUPITER	TYPE=POS_ANGLE,RAD=6.0,ANG=20.0 ,REF=NORTH		SEP OF JUPITER-25N IO FROM EARTH GT -17.0", SEP OF JUPITER-25N EUROPA FROM EARTH GT -14.0", SEP OF JUPITER-25N GANYMEDE FROM EARTH GT -7.0"				
<i>Comments: 25 degrees north latitude</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) JUPITER-25N	WFPC2, IMAGE, PC1	F953N	ATD-GAIN=7; CR-SPLIT=NO	SAA CONTOUR 02		16.0 Secs [==>]	[1]	
	2	(1) JUPITER-25N	WFPC2, IMAGE, PC1	FQCH4P15 8929.0 A	ATD-GAIN=7; CR-SPLIT=NO	SAA CONTOUR 02		50.0 Secs [==>]	[1]	
	3	(1) JUPITER-25N	WFPC2, IMAGE, PC1	F673N	ATD-GAIN=15; CR-SPLIT=NO	SAA CONTOUR 02		4.0 Secs [==>]	[1]	
	4	(1) JUPITER-25N	WFPC2, IMAGE, PC1	F410M	ATD-GAIN=15; CR-SPLIT=NO	SAA CONTOUR 02		8.0 Secs [==>]	[1]	
	5	(1) JUPITER-25N	WFPC2, IMAGE, PC1	F336W	ATD-GAIN=15; CR-SPLIT=NO	SAA CONTOUR 02		14.0 Secs [==>]	[1]	
	6	(1) JUPITER-25N	WFPC2, IMAGE, PC1	F255W	ATD-GAIN=7; CR-SPLIT=NO	SAA CONTOUR 02		230.0 Secs [==>]	[1]	
	7	(1) JUPITER-25N	WFPC2, IMAGE, PC1	FQCH4P15 8929.0 A	ATD-GAIN=7; CR-SPLIT=NO	SAA CONTOUR 02		50.0 Secs [==>]	[1]	
	8	(1) JUPITER-25N	WFPC2, IMAGE, PC1	F953N	ATD-GAIN=7; CR-SPLIT=NO	SAA CONTOUR 02		16.0 Secs [==>]	[1]	
	9	(1) JUPITER-25N	WFPC2, IMAGE, PC1	F673N	ATD-GAIN=15; CR-SPLIT=NO	SAA CONTOUR 02		4.0 Secs [==>]	[1]	

Proposal 11310 - Visit 01 - Jupiter's North Temperate Belt Disturbance

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		10		(1) JUPITER-25N	WFPC2, IMAGE, PC1	F410M	ATD-GAIN=15; CR-SPLIT=NO	SAA CONTOUR 02		8.0 Secs [==>]
	11		(1) JUPITER-25N	WFPC2, IMAGE, PC1	F336W	ATD-GAIN=15; CR-SPLIT=NO	SAA CONTOUR 02		14.0 Secs [==>]	[1]



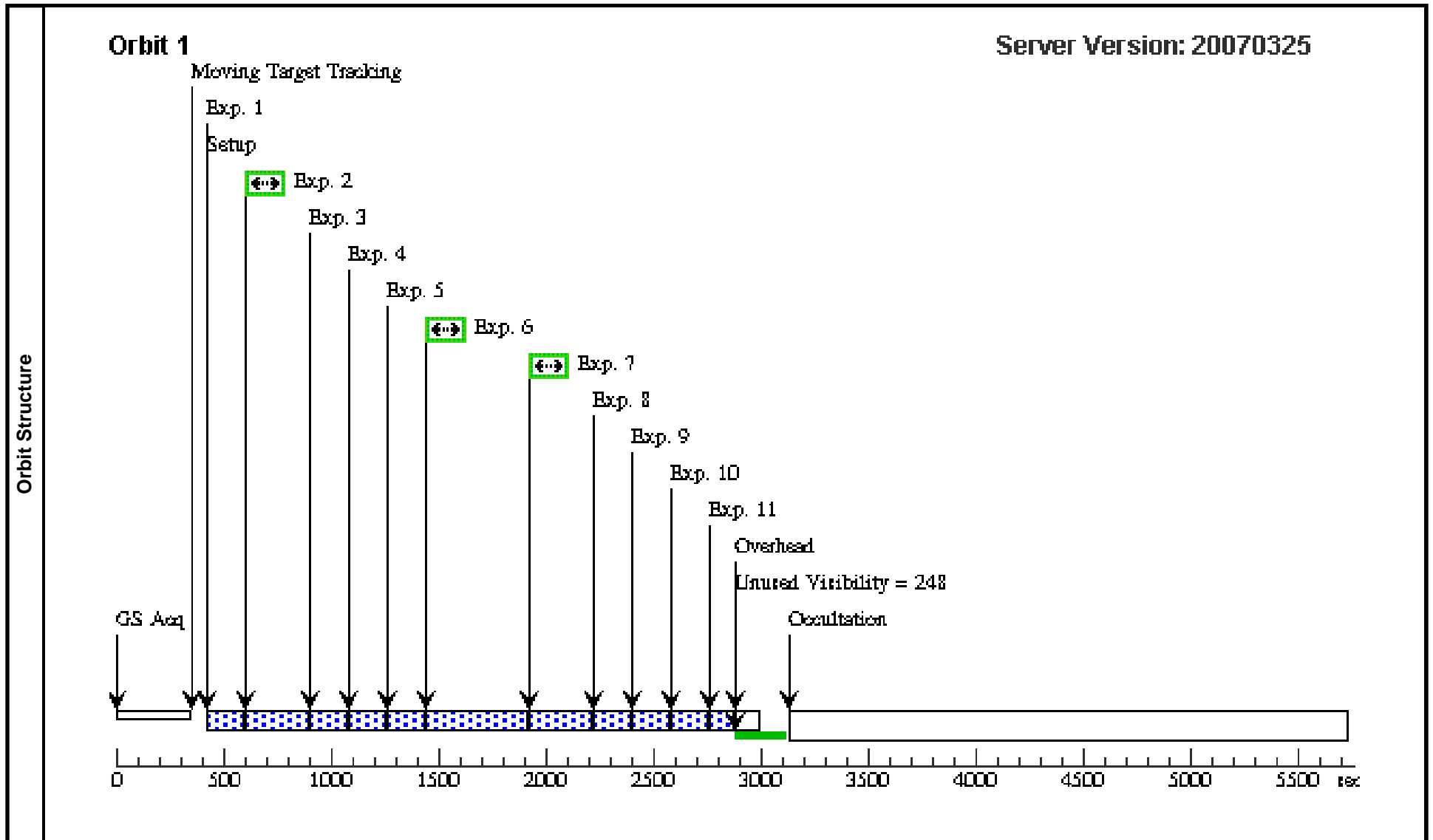
Proposal 11310 - Visit 02 - Jupiter's North Temperate Belt Disturbance

Thu May 31 02:09:37 GMT 2007

Visit	Proposal 11310, Visit 02, scheduling Diagnostic Status: Warning Scientific Instruments: WFPC2 Special Requirements: ORIENT 208.2D TO 208.2 D; AFTER 01 BY 4.5 H TO 5.5 H <i>Comments: Second orbit - opposite hemisphere from Visit 01. Bias Jupiter or roll, if needed, so that northern hemisphere is clear of the FQCH4P15 vignetted region of the PC, while retaining the maximum amount of planet that is visible. Filters can be trimmed back to fit the orbit, starting with Exp. 11 and working up the list.</i>									
	(Exposure 2 (Visit 02)) Warning: Partially rotated filters should generally be specified with a corresponding aperture. (Exposure 7 (Visit 02)) Warning: Partially rotated filters should generally be specified with a corresponding aperture.									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				
	(1)	JUPITER-25N	STD=JUPITER	TYPE=POS_ANGLE,RAD=6.0,ANG=20.0 ,REF=NORTH		SEP OF JUPITER-25N IO FROM EARTH GT -17.0", SEP OF JUPITER-25N EUROPA FROM EARTH GT -14.0", SEP OF JUPITER-25N GANYMEDE FROM EARTH GT -7.0"				
<i>Comments: 25 degrees north latitude</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) JUPITER-25N	WFPC2, IMAGE, PC1	F953N	ATD-GAIN=7; CR-SPLIT=NO	SAA CONTOUR 02		16.0 Secs [==>]	[1]	
	2	(1) JUPITER-25N	WFPC2, IMAGE, PC1	FQCH4P15 8929.0 A	ATD-GAIN=7; CR-SPLIT=NO	SAA CONTOUR 02		50.0 Secs [==>]	[1]	
	3	(1) JUPITER-25N	WFPC2, IMAGE, PC1	F673N	ATD-GAIN=15; CR-SPLIT=NO	SAA CONTOUR 02		4.0 Secs [==>]	[1]	
	4	(1) JUPITER-25N	WFPC2, IMAGE, PC1	F410M	ATD-GAIN=15; CR-SPLIT=NO	SAA CONTOUR 02		8.0 Secs [==>]	[1]	
	5	(1) JUPITER-25N	WFPC2, IMAGE, PC1	F336W	ATD-GAIN=15; CR-SPLIT=NO	SAA CONTOUR 02		14.0 Secs [==>]	[1]	
	6	(1) JUPITER-25N	WFPC2, IMAGE, PC1	F255W	ATD-GAIN=7; CR-SPLIT=NO	SAA CONTOUR 02		230.0 Secs [==>]	[1]	
	7	(1) JUPITER-25N	WFPC2, IMAGE, PC1	FQCH4P15 8929.0 A	ATD-GAIN=7; CR-SPLIT=NO	SAA CONTOUR 02		50.0 Secs [==>]	[1]	
	8	(1) JUPITER-25N	WFPC2, IMAGE, PC1	F953N	ATD-GAIN=7; CR-SPLIT=NO	SAA CONTOUR 02		16.0 Secs [==>]	[1]	
	9	(1) JUPITER-25N	WFPC2, IMAGE, PC1	F673N	ATD-GAIN=15; CR-SPLIT=NO	SAA CONTOUR 02		4.0 Secs [==>]	[1]	

Proposal 11310 - Visit 02 - Jupiter's North Temperate Belt Disturbance

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		10		(1) JUPITER-25N	WFPC2, IMAGE, PC1	F410M	ATD-GAIN=15; CR-SPLIT=NO	SAA CONTOUR 02		8.0 Secs [==>]
	11		(1) JUPITER-25N	WFPC2, IMAGE, PC1	F336W	ATD-GAIN=15; CR-SPLIT=NO	SAA CONTOUR 02		14.0 Secs [==>]	[1]



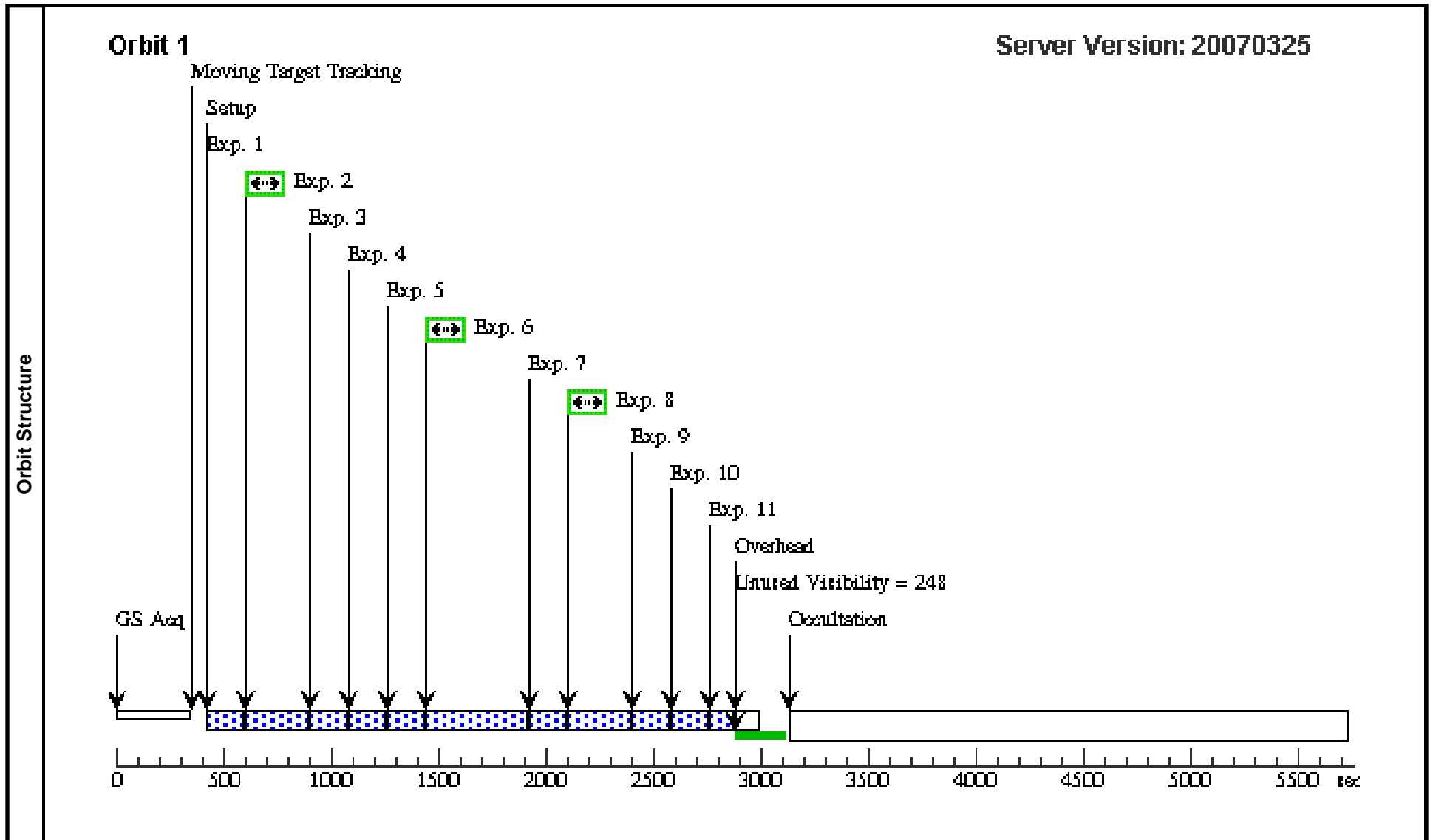
Proposal 11310 - Visit 03 - Jupiter's North Temperate Belt Disturbance

Thu May 31 02:09:38 GMT 2007

Visit	Proposal 11310, Visit 03, scheduling Diagnostic Status: Warning Scientific Instruments: WFPC2 Special Requirements: ORIENT 208.2D TO 208.2 D; AFTER 01 BY 9.5 H TO 10.5 H <i>Comments: 3rd orbit - same CM longitude as Visit 01. Bias Jupiter or roll, if needed, so that northern hemisphere is clear of the FQCH4P15 vignetted region of the PC, while retaining the maximum amount of planet that is visible. Filters can be trimmed back to fit the orbit, starting with Exp. 11 and working up the list.</i>																																																																																																				
	Diagnostics	(Exposure 2 (Visit 03)) Warning: Partially rotated filters should generally be specified with a corresponding aperture. (Exposure 8 (Visit 03)) Warning: Partially rotated filters should generally be specified with a corresponding aperture.																																																																																																			
Solar System Targets		<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>JUPITER-25N</td> <td>STD=JUPITER</td> <td>TYPE=POS_ANGLE,RAD=6.0,ANG=20.0 ,REF=NORTH</td> <td></td> <td>SEP OF JUPITER-25N IO FROM EARTH GT -17.0", SEP OF JUPITER-25N EUROPA FROM EARTH GT -14.0", SEP OF JUPITER-25N GANYMEDE FROM EARTH GT -7.0"</td> </tr> </tbody> </table> <p><i>Comments: 25 degrees north latitude</i></p>										#	Name	Level 1	Level 2	Level 3	Window	(1)	JUPITER-25N	STD=JUPITER	TYPE=POS_ANGLE,RAD=6.0,ANG=20.0 ,REF=NORTH		SEP OF JUPITER-25N IO FROM EARTH GT -17.0", SEP OF JUPITER-25N EUROPA FROM EARTH GT -14.0", SEP OF JUPITER-25N GANYMEDE FROM EARTH GT -7.0"																																																																														
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Proposal 11310 - Visit 03 - Jupiter's North Temperate Belt Disturbance

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		10		(1) JUPITER-25N	WFPC2, IMAGE, PC1	F410M	ATD-GAIN=15; CR-SPLIT=NO	SAA CONTOUR 02		8.0 Secs [==>]
	11		(1) JUPITER-25N	WFPC2, IMAGE, PC1	F336W	ATD-GAIN=15; CR-SPLIT=NO	SAA CONTOUR 02		14.0 Secs [==>]	[1]



Proposal 11310 - Visit 04 - Jupiter's North Temperate Belt Disturbance

Thu May 31 02:09:38 GMT 2007

Visit	<p>Proposal 11310, Visit 04, scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFPC2</p> <p>Special Requirements: ORIENT 208.2D TO 208.2 D; AFTER 02 BY 9.5 H TO 10.5 H</p> <p><i>Comments: 4th orbit - same CM longitude as Visit02. Bias Jupiter or roll, if needed, so that northern hemisphere is clear of the FQCH4P15 vignetted region of the PC, while retaining the maximum amount of planet that is visible. Filters can be trimmed back to fit the orbit, starting with Exp. 11 and working up the list.</i></p>									
	<p>(Exposure 2 (Visit 04)) Warning: Partially rotated filters should generally be specified with a corresponding aperture.</p>									
Diagnostics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) JUPITER-25N	WFPC2, IMAGE, PC1	F953N	ATD-GAIN=7; CR-SPLIT=NO	SAA CONTOUR 02		16.0 Secs [==>]	[1]	
	2	(1) JUPITER-25N	WFPC2, IMAGE, PC1	FQCH4P15 8929.0 A	ATD-GAIN=7; CR-SPLIT=NO	SAA CONTOUR 02		50.0 Secs [==>]	[1]	
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