



12045 - Evolution of the 2009 Single Impact on Jupiter

Cycle: 17, Proposal Category: GO/DD

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Heidi B. Hammel (PI)	Space Science Institute	
Dr. Amy Simon-Miller (CoI)	NASA Goddard Space Flight Center	
Prof. John T. Clarke (CoI)	Boston University	
Prof. Imke de Pater (CoI)	University of California - Berkeley	
Dr. Keith S. Noll (CoI)	Space Telescope Science Institute	
Dr. Glenn S. Orton (CoI)	Jet Propulsion Laboratory	
Dr. Agustin Sanchez-Lavega (CoI)	Universidad del Pais Vasco	
Dr. Michael H. Wong (CoI) (Contact)	Space Telescope Science Institute	

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-IMPACT-EAST-1	WFC3/UVIS	1	21-Oct-2009 21:19:31.0	yes
02	(2) JUPITER-IMPACT-WEST-24	WFC3/UVIS	1	21-Oct-2009 21:19:38.0	yes
03	(3) JUPITER-IMPACT-EAST-3	WFC3/UVIS	1	21-Oct-2009 21:19:48.0	yes
04	(2) JUPITER-IMPACT-WEST-24	WFC3/UVIS	1	21-Oct-2009 21:19:54.0	yes

4 Total Orbits Used

ABSTRACT

The 19 July 2009 impact on Jupiter captured worldwide attention, and sparked a highly successful WFC3 imaging program during SMOV, with the last Hubble image acquired on 8 August. Continuing ground-based observations have revealed significant differences between this event and the Shoemaker-Levy 9 impacts in 1994: a single impact event offers a chance to study the longer-term evolution of the impact debris field without confusion due to overlapping aerosol debris clouds, and this debris field evolved more slowly than the SL9 sites. Initial analysis of our first data set reveals possible curved streamlines that correspond to no known tropospheric vortex. To constrain the stratospheric velocity field traced by the impact-generated aerosols, we request 10-hour separated data (a temporal sampling rate which we could not obtain during SMOV) that are crucial for tracking coherent albedo features. We also requested (but were not granted) a single orbit of high-resolution near-infrared images. These data would have provided the sharpest visible and near-infrared images of the site, providing context for the ongoing worldwide campaign of lower-resolution ground-based observations.

OBSERVING DESCRIPTION

The first two orbits are consecutive, imaging the eastern and western areas of the impact site on Jupiter. Multiple frames in FQ889N will deliver the highest-contrast images of the impact site, allowing a full mapping of the area and providing short-interval image pairs for velocity retrieval.

The second pair of orbits follow one Jovian rotation (~10 hours) after the first pair. This pair will afford the highest-precision velocity fields to be constructed by tracking coherent features over the important 10-hour sampling interval.

Additional filters will be used to measure spectral properties and constrain vertical distributions of the impact-site aerosols.

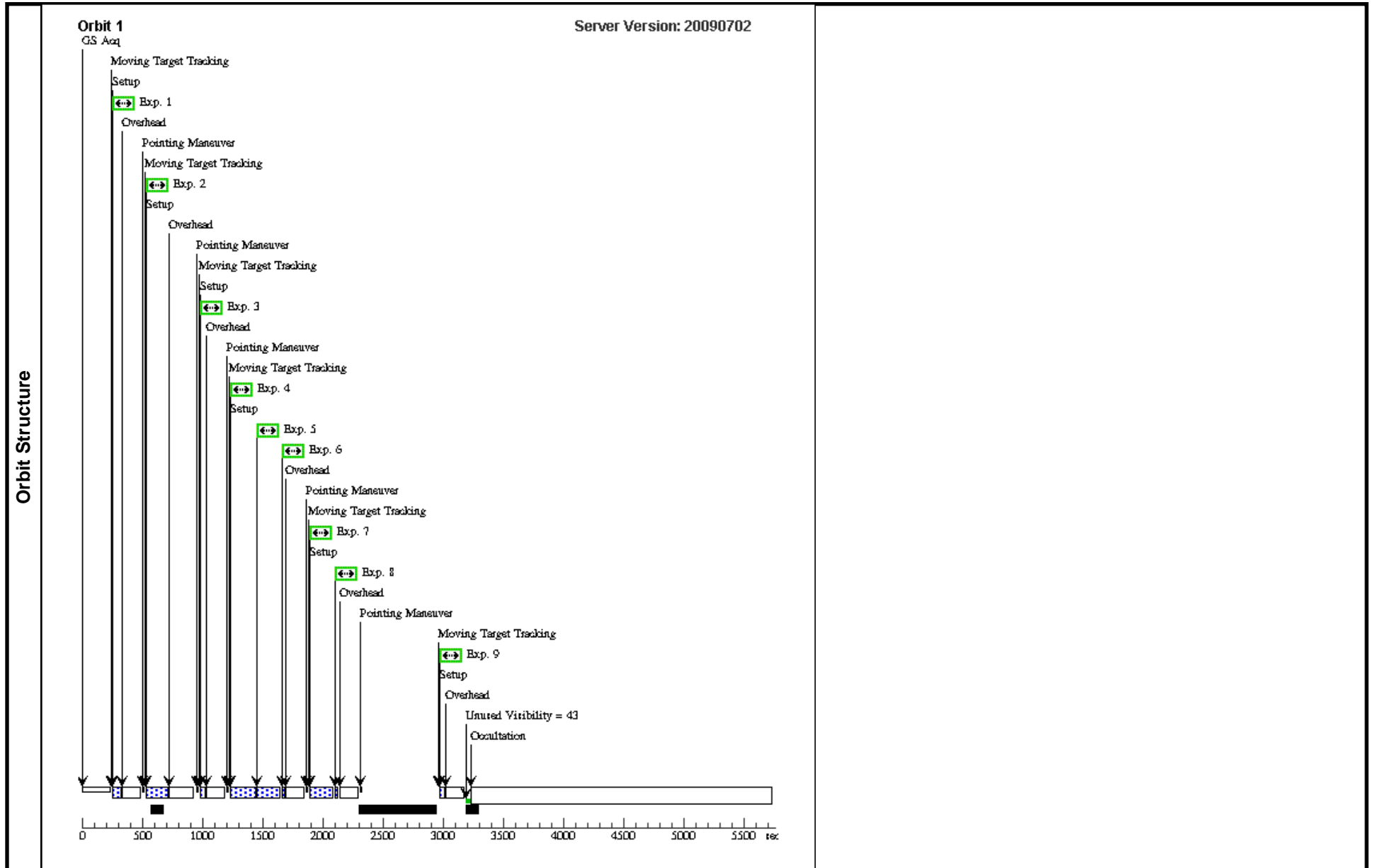
Proposal 12045 - Visit 01 - Evolution of the 2009 Single Impact on Jupiter

Thu Oct 22 01:19:57 GMT 2009

Visit	Proposal 12045, Visit 01, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 61.6D TO 85.9 D <i>Comments: all exposures in visit 01 should occur during a single orbit</i>										
	Diagnostics	(FQ889N-3A (01.001)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ924N-3D (01.003)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ889N-3A (01.004)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ437N-1A (01.005)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ508N-4A (01.006)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ634N-4C (01.007)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ906N-3C (01.008)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ889N-3A (01.009)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.									
Solar System Targets		#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
		(1)	JUPITER-IMPACT-EAST-1	STD=JUPITER	TYPE=PGRAPHIC, LONG=280.0, LAT=-57.0		CML OF JUPITER FROM EARTH BETWEEN 245.0 305.0	EARTH			
Exposures		#	Label	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		1	FQ889N-3A	(1) JUPITER-IMPACT-EAST-1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG 5.8,-7.4; GS ACQ SCENARIO ONEB1B3	Sequence 1-9 Non-Int	40.0 Secs [==>]	[1]
		2	F225W	(1) JUPITER-IMPACT-EAST-1	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F225W	CR-SPLIT=NO	POS TARG -2.1,-8.9	Sequence 1-9 Non-Int	150.0 Secs [==>]	[1]
		3	FQ924N-3D	(1) JUPITER-IMPACT-EAST-1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ924N	CR-SPLIT=NO	POS TARG 6.2,-11.2	Sequence 1-9 Non-Int	20.0 Secs [==>]	[1]
	4	FQ889N-3A	(1) JUPITER-IMPACT-EAST-1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG 5.8,-7.4	Sequence 1-9 Non-Int	40.0 Secs [==>]	[1]	
	5	FQ437N-1A	(1) JUPITER-IMPACT-EAST-1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ437N	CR-SPLIT=NO	POS TARG 5.8,-7.4	Sequence 1-9 Non-Int	15.0 Secs [==>]	[1]	
	6	FQ508N-4A	(1) JUPITER-IMPACT-EAST-1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ508N	CR-SPLIT=NO	POS TARG 5.8,-7.4	Sequence 1-9 Non-Int	2.0 Secs [==>]	[1]	
	7	FQ634N-4C	(1) JUPITER-IMPACT-EAST-1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 5.4,-9.2	Sequence 1-9 Non-Int	4.0 Secs [==>]	[1]	

Proposal 12045 - Visit 01 - Evolution of the 2009 Single Impact on Jupiter

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		8	FQ906N-3C	(1) JUPITER-IMPACT-EAST-1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ906N	CR-SPLIT=NO	POS TARG 5.4,-9.2	Sequence 1-9 Non-Int	15.0 Secs [==>]
	9	FQ889N-3A	(1) JUPITER-IMPACT-EAST-1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG 5.8,-7.4	Sequence 1-9 Non-Int	40.0 Secs [==>]	[1]



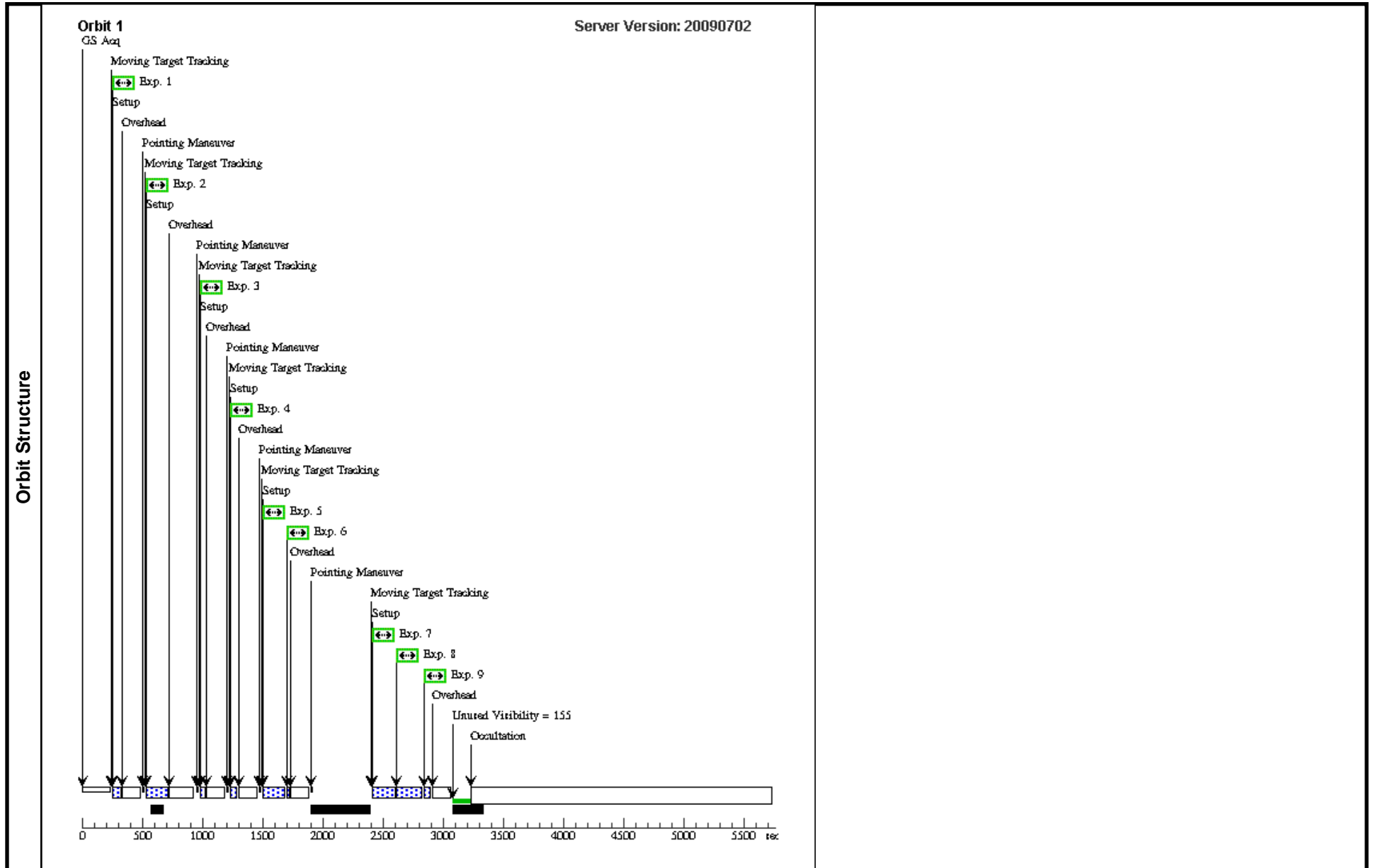
Proposal 12045 - Visit 02 - Evolution of the 2009 Single Impact on Jupiter

Thu Oct 22 01:19:58 GMT 2009

Visit	Proposal 12045, Visit 02, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 70.8D TO 92.8 D; AFTER 01 BY 0.9 Orbits TO 1.1 Orbits <i>Comments: all exposures in visit 02 should occur during a single orbit</i>										
	Diagnostics	(FQ889N-3A (02.001)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ378N-1B (02.003)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ889N-3A (02.004)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ906N-3C (02.005)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ634N-4C (02.006)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ508N-4A (02.007)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ437N-1A (02.008)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ889N-3A (02.009)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.									
Solar System Targets		#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
		(2)	JUPITER-IMPACT- WEST-24	STD=JUPITER	TYPE=PGRAPHIC, LONG=320.0, LA T=-57.0			EARTH			
Exposures		#	Label	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		1	FQ889N-3A	(2) JUPITER-IMPACT- WEST-24	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG 5.8,-7.4; GS ACQ SCENARI O SINGLE	Sequence 1-9 Non-Int	40.0 Secs [==>]	[1]
		2	F225W	(2) JUPITER-IMPACT- WEST-24	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F225W	CR-SPLIT=NO	POS TARG -2.1,-8.9	Sequence 1-9 Non-Int	150.0 Secs [==>]	[1]
		3	FQ378N-1B	(2) JUPITER-IMPACT- WEST-24	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ378N	CR-SPLIT=NO	POS TARG 5.6,-16.6	Sequence 1-9 Non-Int	12.0 Secs [==>]	[1]
	4	FQ889N-3A	(2) JUPITER-IMPACT- WEST-24	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG 5.8,-7.4	Sequence 1-9 Non-Int	40.0 Secs [==>]	[1]	
	5	FQ906N-3C	(2) JUPITER-IMPACT- WEST-24	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ906N	CR-SPLIT=NO	POS TARG 5.4,-9.2	Sequence 1-9 Non-Int	15.0 Secs [==>]	[1]	
	6	FQ634N-4C	(2) JUPITER-IMPACT- WEST-24	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 5.4,-9.2	Sequence 1-9 Non-Int	4.0 Secs [==>]	[1]	
7	FQ508N-4A	(2) JUPITER-IMPACT- WEST-24	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ508N	CR-SPLIT=NO	POS TARG 5.8,-7.4	Sequence 1-9 Non-Int	2.0 Secs [==>]	[1]		

Proposal 12045 - Visit 02 - Evolution of the 2009 Single Impact on Jupiter

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	8	FQ437N-1A	(2) JUPITER-IMPACT-WEST-24	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ437N	CR-SPLIT=NO	POS TARG 5.8,-7.4	Sequence 1-9 Non-Int	15.0 Secs [==>]	[1]
9	FQ889N-3A	(2) JUPITER-IMPACT-WEST-24	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG 5.8,-7.4	Sequence 1-9 Non-Int	40.0 Secs [==>]	[1]	



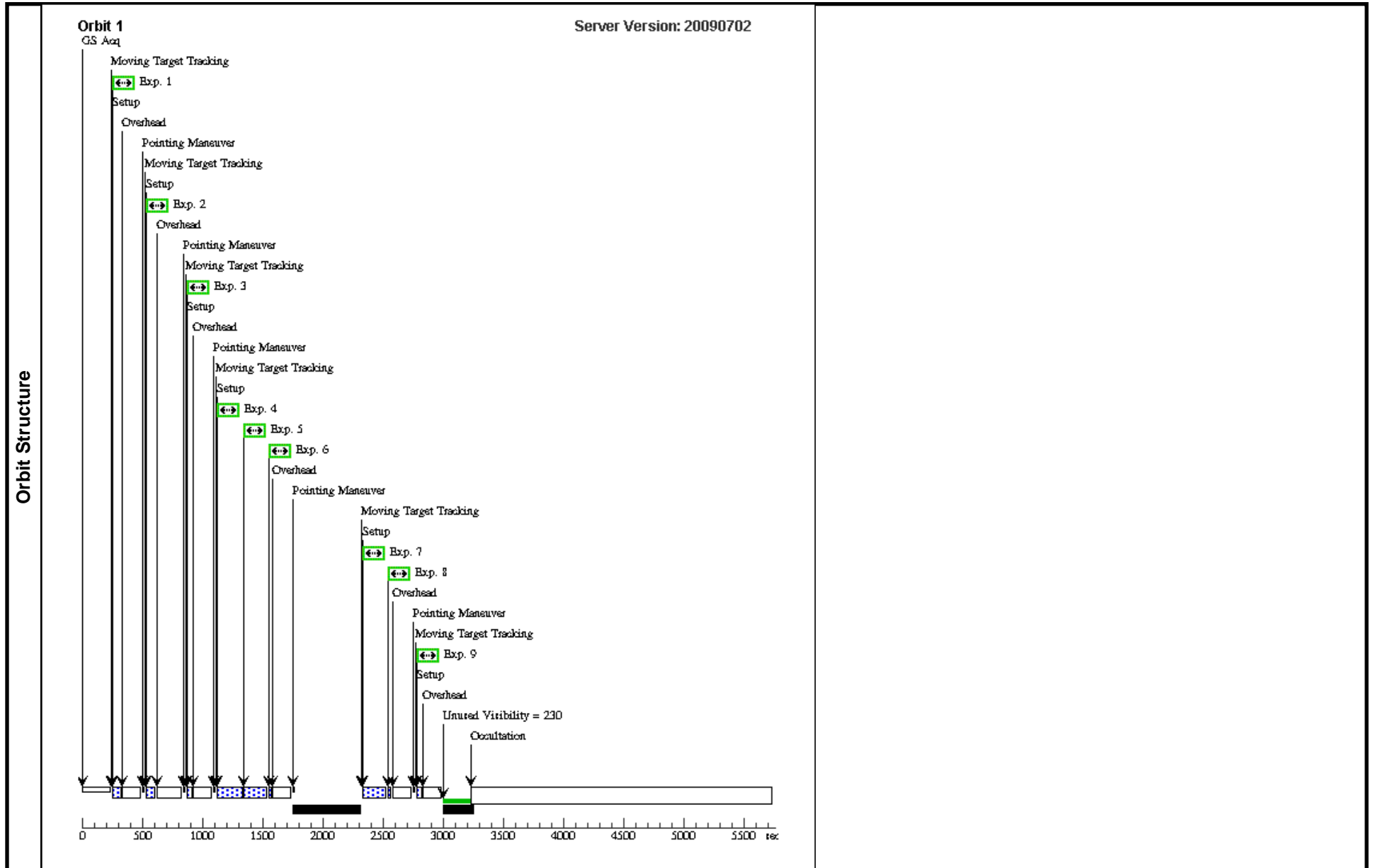
Proposal 12045 - Visit 03 - Evolution of the 2009 Single Impact on Jupiter

Thu Oct 22 01:20:00 GMT 2009

Visit	Proposal 12045, Visit 03, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 57D TO 87 D; AFTER 01 BY 5.9 Orbits TO 6.1 Orbits Comments: all exposures in visit 03 should occur during a single orbit POS TARGs in visit 03 are optimal									
	Diagnostics	(FQ889N-3A (03.001)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.								
(FQ924N-3D (03.003)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.										
(FQ889N-3A (03.004)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.										
(FQ437N-1A (03.005)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.										
(FQ508N-4A (03.006)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.										
(FQ634N-4C (03.007)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.										
(FQ906N-3C (03.008)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.										
(FQ889N-3A (03.009)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(3)	JUPITER-IMPACT-EAST-3	STD=JUPITER	TYPE=PGRAPHIC, LONG=280.0, LAT=-57.0			EARTH			
Exposures	#	Label	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	FQ889N-3A	(3) JUPITER-IMPACT-EAST-3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG 5.4,-3.4; GS ACQ SCENARIO ONEB1B3	Sequence 1-9 Non-Int	40.0 Secs [==>]	[1]
	2	F275W	(3) JUPITER-IMPACT-EAST-3	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F275W	CR-SPLIT=NO	POS TARG -2.1,-8.9	Sequence 1-9 Non-Int	40.0 Secs [==>]	[1]
	3	FQ924N-3D	(3) JUPITER-IMPACT-EAST-3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ924N	CR-SPLIT=NO	POS TARG 7.1,-4	Sequence 1-9 Non-Int	20.0 Secs [==>]	[1]
	4	FQ889N-3A	(3) JUPITER-IMPACT-EAST-3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG 5.4,-3.4	Sequence 1-9 Non-Int	40.0 Secs [==>]	[1]
	5	FQ437N-1A	(3) JUPITER-IMPACT-EAST-3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ437N	CR-SPLIT=NO	POS TARG 5.4,-3.4	Sequence 1-9 Non-Int	15.0 Secs [==>]	[1]
	6	FQ508N-4A	(3) JUPITER-IMPACT-EAST-3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ508N	CR-SPLIT=NO	POS TARG 5.4,-3.4	Sequence 1-9 Non-Int	2.0 Secs [==>]	[1]
	7	FQ634N-4C	(3) JUPITER-IMPACT-EAST-3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 8.5,-7	Sequence 1-9 Non-Int	4.0 Secs [==>]	[1]

Proposal 12045 - Visit 03 - Evolution of the 2009 Single Impact on Jupiter

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		8	FQ906N-3C	(3) JUPITER-IMPACT-EAST-3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ906N	CR-SPLIT=NO	POS TARG 8.5,-7	Sequence 1-9 Non-Int	15.0 Secs [==>]
	9	FQ889N-3A	(3) JUPITER-IMPACT-EAST-3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG 5.4,-3.4	Sequence 1-9 Non-Int	40.0 Secs [==>]	[1]



Proposal 12045 - Visit 04 - Evolution of the 2009 Single Impact on Jupiter

Thu Oct 22 01:20:01 GMT 2009

Visit	Proposal 12045, Visit 04, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 63.6D TO 84.5 D; AFTER 03 BY 0.9 Orbits TO 1.1 Orbits <i>Comments: all exposures in visit 04 should occur during a single orbit</i>										
	Diagnostics	(FQ889N-3A (04.001)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ378N-1B (04.002)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ889N-3A (04.004)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ906N-3C (04.005)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ634N-4C (04.006)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ508N-4A (04.007)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ437N-1A (04.008)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ889N-3A (04.009)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.									
Solar System Targets		#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
		(2)	JUPITER-IMPACT- WEST-24	STD=JUPITER	TYPE=PGRAPHIC, LONG=320.0, LA T=-57.0			EARTH			
Exposures		#	Label	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		1	FQ889N-3A	(2) JUPITER-IMPACT- WEST-24	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG 5.8,-7.4; GS ACQ SCENARIOS ONEB1B3	Sequence 1-9 Non-Int	40.0 Secs [==>]	[1]
		2	FQ378N-1B	(2) JUPITER-IMPACT- WEST-24	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ378N	CR-SPLIT=NO	POS TARG 5.6,-16.6	Sequence 1-9 Non-Int	12.0 Secs [==>]	[1]
		3	F275W	(2) JUPITER-IMPACT- WEST-24	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F275W	CR-SPLIT=NO	POS TARG -2.1,-8.9	Sequence 1-9 Non-Int	40.0 Secs [==>]	[1]
	4	FQ889N-3A	(2) JUPITER-IMPACT- WEST-24	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG 5.8,-7.4	Sequence 1-9 Non-Int	40.0 Secs [==>]	[1]	
	5	FQ906N-3C	(2) JUPITER-IMPACT- WEST-24	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ906N	CR-SPLIT=NO	POS TARG 5.4,-9.2	Sequence 1-9 Non-Int	15.0 Secs [==>]	[1]	
	6	FQ634N-4C	(2) JUPITER-IMPACT- WEST-24	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 5.4,-9.2	Sequence 1-9 Non-Int	4.0 Secs [==>]	[1]	
	7	FQ508N-4A	(2) JUPITER-IMPACT- WEST-24	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ508N	CR-SPLIT=NO	POS TARG 5.8,-7.4	Sequence 1-9 Non-Int	2.0 Secs [==>]	[1]	

Proposal 12045 - Visit 04 - Evolution of the 2009 Single Impact on Jupiter

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		8	FQ437N-1A	(2) JUPITER-IMPACT-WEST-24	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ437N	CR-SPLIT=NO	POS TARG 5.8,-7.4	Sequence 1-9 Non-Int	15.0 Secs [==>]
	9	FQ889N-3A	(2) JUPITER-IMPACT-WEST-24	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG 5.8,-7.4	Sequence 1-9 Non-Int	40.0 Secs [==>]	[1]

