13414 - Reading the Record of Cometary Impacts into Jupiter's Rings

Cycle: 21, Proposal Category: GO

(Availability Mode: SUPPORTED)

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?*
10	(1) JUPITER-RING-EAST-ANSA (4) JUPITER-RING-WEST-ANSA2	WFC3/UVIS	1	11-Dec-2013 21:41:26.0	yes
11	(2) JUPITER-RING-WEST-ANSA (3) JUPITER-RING-EAST-ANSA2	WFC3/UVIS	1	11-Dec-2013 21:41:40.0	yes
12	(3) JUPITER-RING-EAST-ANSA2 (4) JUPITER-RING-WEST-ANSA2	WFC3/UVIS	1	11-Dec-2013 21:41:59.0	yes
20	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS	1	11-Dec-2013 21:42:11.0	yes
21	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS	1	11-Dec-2013 21:42:22.0	yes
22	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS	1	11-Dec-2013 21:42:33.0	yes
25	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS	1	11-Dec-2013 21:42:43.0	yes
26	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS	1	11-Dec-2013 21:42:54.0	yes
27	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS	1	11-Dec-2013 21:43:04.0	yes
30	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS	1	11-Dec-2013 21:43:18.0	yes
31	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS	1	11-Dec-2013 21:43:29.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
32	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS	1	11-Dec-2013 21:43:39.0	yes
35	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS	1	11-Dec-2013 21:43:50.0	yes
36	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS	1	11-Dec-2013 21:44:01.0	yes
37	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS	1	11-Dec-2013 21:44:12.0	yes
40	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS	1	11-Dec-2013 21:44:21.0	yes
41	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS	1	11-Dec-2013 21:44:28.0	yes

17 Total Orbits Used

ABSTRACT

Images from the Galileo spacecraft were recently re-interpreted to reveal a subtle pattern of vertical "ripples" in the Jovian ring. These were shown to have been triggered during in mid-1994, and were probably associated with the impact of SL9 into Jupiter (Showalter et al., 2011, Science 332, 711-713). Additional patterns imaged by Galileo and also New Horizons indicate that these are common features of the ring; four different spiral patterns have been detected in the two data sets. Because any given pattern winds tighter at a known rate, these patterns can be used to infer the approximate the date on which the impact occurred. In addition, the vertical amplitude of the pattern constrains the impactor's mass. In Cycle 21, the rings of Jupiter are open to Earth by a small angle of 1.6 degrees, making this an ideal opportunity to detect similar patterns using HST. We will be able to detect any pattern in the ring that has an amplitude of >~ 1 km and that was triggered within the last 8-10 years. This information will provide valuable new constraints on the population of small bodies in the outer solar system.

OBSERVING DESCRIPTION

We target the tip of the Jovian ring in the UVIS2-C512C subarray. The orientation is carefully constrained to put the rings as close as possible to horizontal across the chip; this prevents the vertical saturation bloom of nearby Jupiter from entering into the subarray, and also keeps the rings away from Jupiter's broad diagonal diffraction spikes. We have three single-orbit visits near opposition in early January 2014. These are timed to sample three different rotational longitudes of the Jovian ring (which rotates in 7.1 hours) to see if the ripple pattern shows the predicted phase shift. These visits will also have the finest resolution on the ring, and can be oriented with the ring exactly horizontal in the subarray. Each of these visits consists of ~ 20 exposures of ~ 70 seconds duration through the broad filter F350LP. Two dither steps will be applied so that we the ring shifts relative to hot pixels and bad columns, and also so that we can potentially improve our spatial resolution.

Two additional single-orbit visits are planned starting roughly 2 months before opposition, to see if the wavelength of the ripple pattern decreases with time, and to test for the optimal pointing and exposure time to use during opposition. Due to constraints on the orientation, the rings will be tilted by 15-25 degrees off the horizontal during these visits.

Because the C512C subarray is in the corner of UVIS2 and we can potentially target either tip of the ring, we have the choice about whether to position Jupiter inside or outside the full UVIS2 chip. One of these positions may be better than the other for rejecting Jupiter's scattered light. During our first visits, we will take exposures of both ring ansas, which will enable us to determine if one option is better than the other for our subsequent visits. All later visits are designated "on hold" until these questions can be resolved.

Visit

Proposal 13414, Visit 10, completed Thu Dec 12 02:44:40 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 298D TO 320 D; BETWEEN 01-NOV-2013:00:00:00 AND 15-NOV-2013:00:00:00

Comments: Jovian ring east ansa about two months before opposition, oriented as close as possible to horizontally across the middle of the 512x512 UVIS2 subarray. Jupiter is positioned outside the CCD. Two dither steps of +/- 4.33 pixels along the x and y axes occur during the visit, potentially providing improved spatial resolution and relocating bad pixels relative to the target. The target is defined to avoid any nearby Jovian satellites. At the end, we include short exposure of the opposite ring tip, to determine whether this pointing option would reduce the level of scattered light from Jupiter. This visit uses slightly shorter exposure times than the others to reduce the chance of accidentally saturating Jupiter's diffraction spikes.

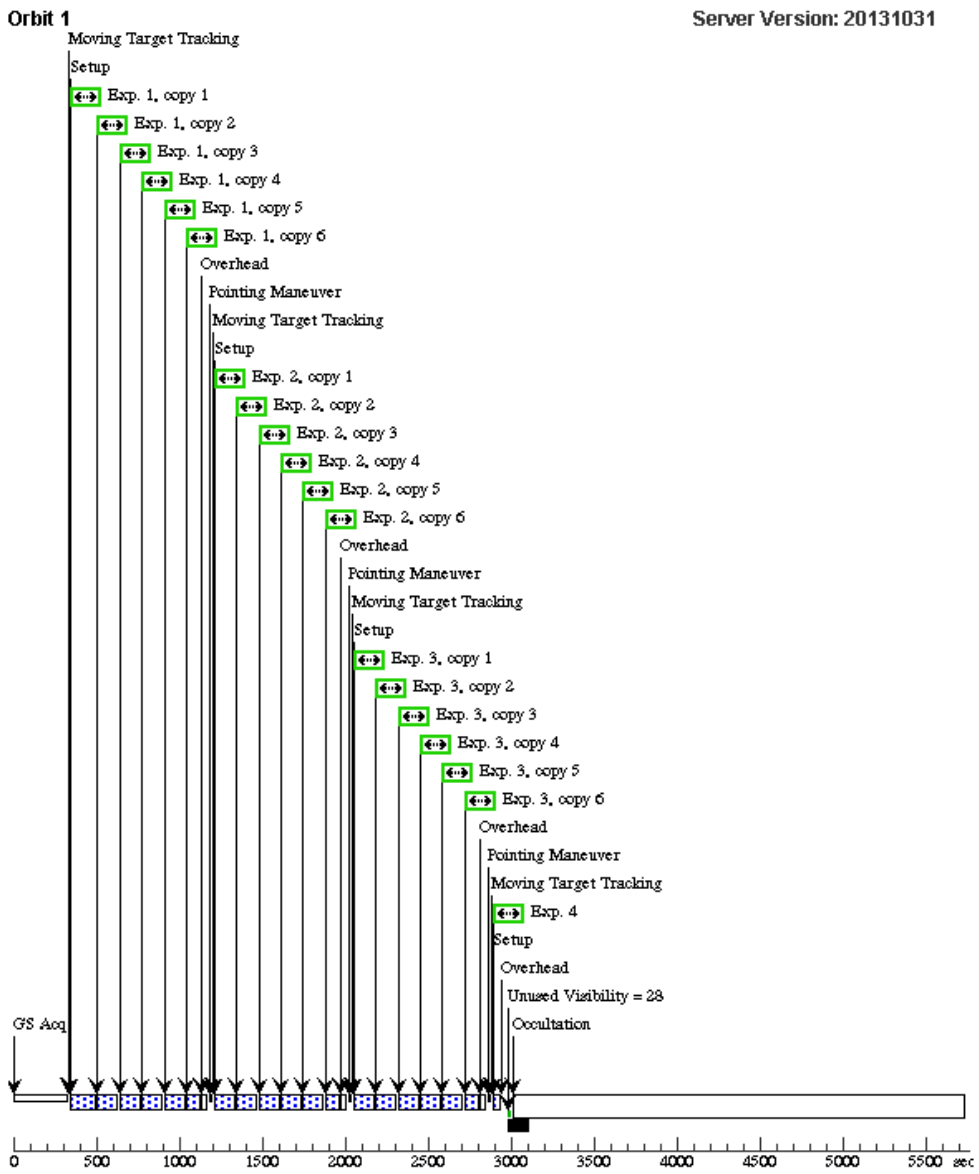
Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	JUPITER-RING-EAST-ANSA	STD=JUPITER	TYPE=TORUS,LONG=270,LAT=0,RAD=126000		SEP OF JUPITER-RING-EAST-ANSA CALLISTO FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA IO FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA EUROPA FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA GANYMEDE FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA AMALTHEA FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA THEBE FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA ADRASTEA FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA METIS FROM EARTH GT 12" MOSS Planning Start: 27-OCT-2013:00:00:00 MOSS Planning End: 11-MAR-2014:00:00:00	EARTH
(4)	JUPITER-RING-WEST-ANSA2	STD=JUPITER	TYPE=TORUS,LONG=90,LAT=0,RAD=126000		SEP OF JUPITER-RING-WEST-ANSA2 CALLISTO FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA2 IO FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA2 EUROPA FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA2 GANYMEDE FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA2 AMALTHEA FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA2 THEBE FROM EARTH GT 12" MOSS Planning Start: 27-OCT-2013 MOSS Planning End: 11-MAR-2014	EARTH

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	6 x 80 sec	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-4 Non-Int in Visit 10	80 Secs X 6 (480 Secs)	
								[==>(Copy 1)] *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]*	***[1]***
2	6 x 80 sec	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.171,0.184	Sequence 1-4 Non-Int in Visit 10	80 Secs X 6 (480 Secs)	
								[==>(Copy 1)] *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]*	***[1]***
3	6 x 80 sec	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG -0.171,-0.184	Sequence 1-4 Non-Int in Visit 10	80 Secs X 6 (480 Secs)	
								[==>(Copy 1)] *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]*	***[1]***
4	1 x 10 sec	(4) JUPITER-RING-WEST-ANSA2	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-4 Non-Int in Visit 10	10 Secs (10 Secs)	
								[==>]	***[1]***

Orbit Structure



Visit

Proposal 13414, Visit 11, withdrawn Thu Dec 12 02:44:43 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 298D TO 320 D; BETWEEN 01-NOV-2013:00:00:00 AND 15-NOV-2013:00:00:00; ON HOLD

Comments: Jovian ring west ansa about two months before opposition, oriented as close as possible to horizontally across the middle of the 512x512 UVIS2 subarray. Jupiter is positioned inside the CCD but outside the subarray. Two dither steps of +/- 4.33 pixels along the x and y axes occur during the visit, potentially providing improved spatial resolution and relocating bad pixels relative to the target. The target is defined to avoid any nearby Jovian satellites. At the end, we include short exposure of the opposite ring tip, to determine whether this pointing option would reduce the level of scattered light from Jupiter. This visit uses slightly shorter exposure times than the others to reduce the chance of accidentally saturating Jupiter's diffraction spikes. This is defined as an alternative to Visit 10.

On Hold Comments: This is an alternative to Visit 10, in which the position of Jupiter is inside the UVIS2 chip rather than outside. It can be used if we learn, prior to scheduling, that Jupiter is likely to contribute less scattered light into the subarray when it is positioned inside the CCD rather than outside the CCD. It can also be used, if necessary, as an alternative to Visit 10 if scheduling difficulties arise.

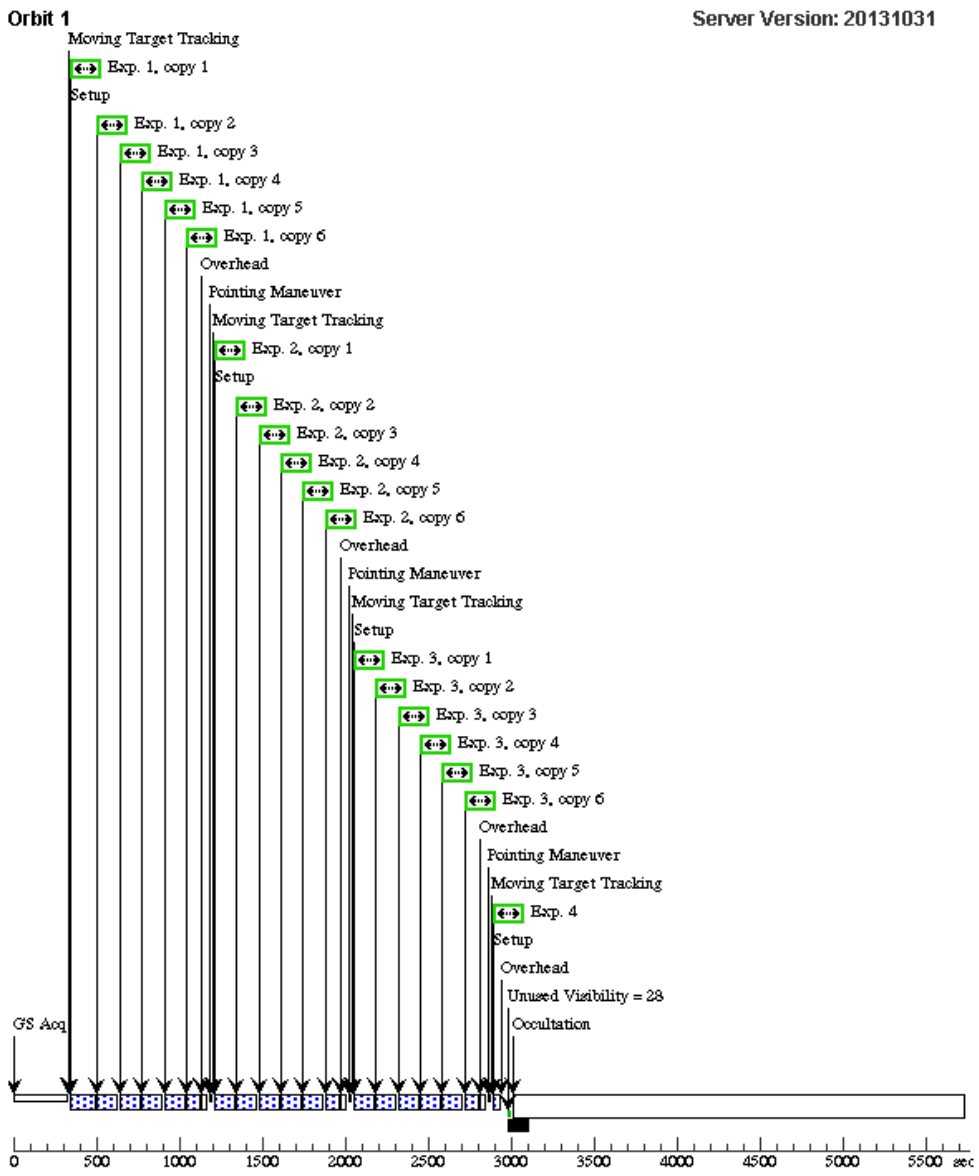
Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(2)	JUPITER-RING-WEST-ANSA	STD=JUPITER	TYPE=TORUS,LONG=90,LAT=0,RAD=126000		SEP OF JUPITER-RING-WEST-ANSA CALLISTO FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA IO FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA EUROPA FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA GANYMEDE FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA AMALTHEA FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA THEBE FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA ADRASTEA FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA METIS FROM EARTH GT 12" MOSS Planning Start: 27-OCT-2013 MOSS Planning End: 11-MAR-2014	EARTH
(3)	JUPITER-RING-EAST-ANSA2	STD=JUPITER	TYPE=TORUS,LONG=270,LAT=0,RAD=126000		SEP OF JUPITER-RING-EAST-ANSA2 CALLISTO FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA2 IO FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA2 EUROPA FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA2 GANYMEDE FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA2 AMALTHEA FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA2 THEBE FROM EARTH GT 12" MOSS Planning Start: 27-OCT-2013 MOSS Planning End: 11-MAR-2014	EARTH

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	6 x 80 sec	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-4 Non-Int in Visit 11	80 Secs X 6 (480 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]*	***[1]***
2	6 x 80 sec	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.171,0.184	Sequence 1-4 Non-Int in Visit 11	80 Secs X 6 (480 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]*	***[1]***
3	6 x 80 sec	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG -0.171,-0.184	Sequence 1-4 Non-Int in Visit 11	80 Secs X 6 (480 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]*	***[1]***
4	1 x 10 sec	(3) JUPITER-RING-EAST-ANSA2	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-4 Non-Int in Visit 11	10 Secs (10 Secs) *[==>]*	***[1]***

Orbit Structure



Visit

Proposal 13414, Visit 12, completed Thu Dec 12 02:44:45 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 297D TO 320 D; BEFORE 10-DEC-2013:00:00:00

Comments: Tests to find the optimal pointing and exposure time for the Jovian ring, in preparation for the January opposition visits. To be scheduled as a replacement for Visits 40 and 41, which are withdrawn. We image both the east and the west ansa of the ring in both subarrays C512C and M512C. We also try two different POS TARGS for the case where Jupiter is off the CCD. We bracket the exposure time so that we get usable results even if saturation occurs. The ring ansa is shifted 125 pixels downward in west ansa pointings, and 125 pixels upward in east ansa pointings, because this positions Jupiter closer to where it will fall when we use a different ORIENT in January, and thereby does a potentially better job of showing us how much scattered light to expect.

Solar System Targets

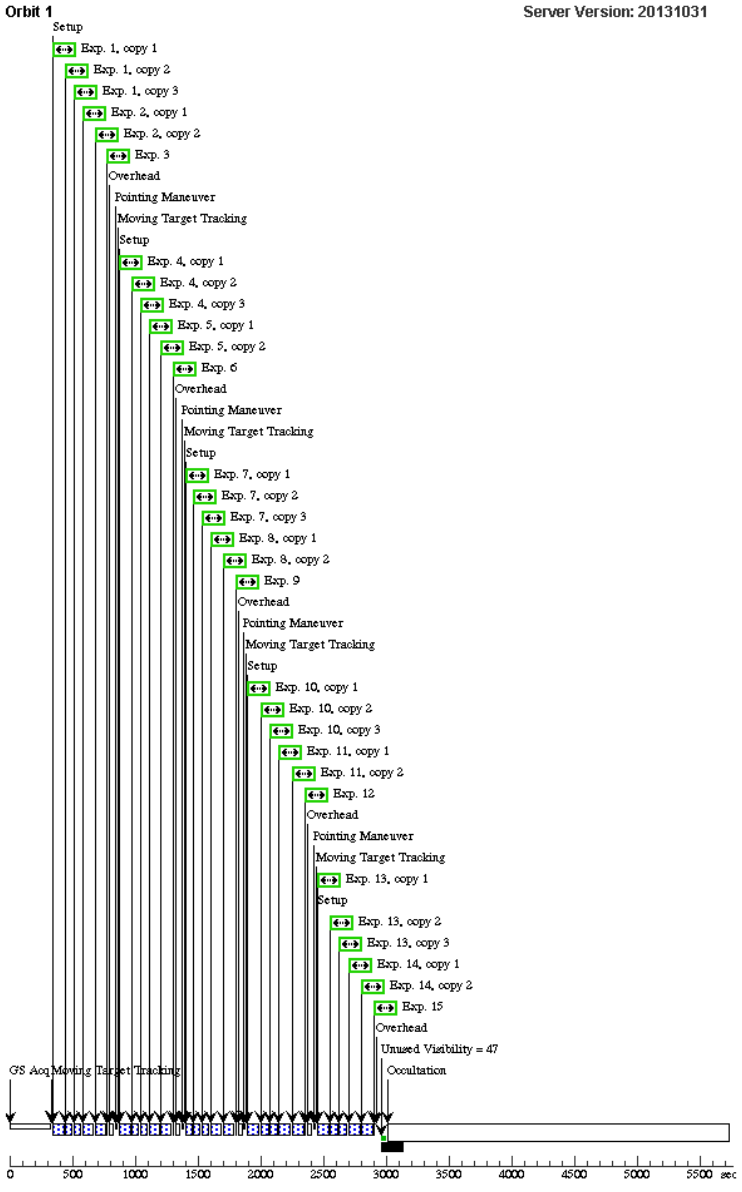
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(3)	JUPITER-RING-EAST-ANSA2	STD=JUPITER	TYPE=TORUS,LONG=270,LAT=0,RAD=126000		SEP OF JUPITER-RING-EAST-ANSA2 CALLISTO FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA2 IO FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA2 EUROPA FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA2 GANYMEDE FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA2 AMALTHEA FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA2 THEBE FROM EARTH GT 12" MOSS Planning Start: 27-OCT-2013 MOSS Planning End: 11-MAR-2014	EARTH
(4)	JUPITER-RING-WEST-ANSA2	STD=JUPITER	TYPE=TORUS,LONG=90,LAT=0,RAD=126000		SEP OF JUPITER-RING-WEST-ANSA2 CALLISTO FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA2 IO FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA2 EUROPA FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA2 GANYMEDE FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA2 AMALTHEA FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA2 THEBE FROM EARTH GT 12" MOSS Planning Start: 27-OCT-2013 MOSS Planning End: 11-MAR-2014	EARTH

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	West ansa, C512C, 3x15 sec	(4) JUPITER-RING-WEST-ANSA2	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,-5	Sequence 1-15 Non-Int in Visit 12	15 Secs X 3 (45 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]*	***[1]***
2	West ansa, C512C, 2x45 sec	(4) JUPITER-RING-WEST-ANSA2	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		SAME POS AS 1	Sequence 1-15 Non-Int in Visit 12	45 Secs X 2 (90 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***
3	West ansa, C512C, 3 sec	(4) JUPITER-RING-WEST-ANSA2	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		SAME POS AS 1	Sequence 1-15 Non-Int in Visit 12	3 Secs (3 Secs) *[==>]*	***[1]***
4	East ansa, C512C, 3x15 sec	(3) JUPITER-RING-EAST-ANSA2	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,5	Sequence 1-15 Non-Int in Visit 12	15 Secs X 3 (45 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]*	***[1]***
5	East ansa, C512C, 2x45 sec	(3) JUPITER-RING-EAST-ANSA2	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		SAME POS AS 4	Sequence 1-15 Non-Int in Visit 12	45 Secs X 2 (90 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***
6	East ansa, C512C, 3 sec	(3) JUPITER-RING-EAST-ANSA2	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		SAME POS AS 4	Sequence 1-15 Non-Int in Visit 12	3 Secs (3 Secs) *[==>]*	***[1]***
7	East ansa, C512C, 100 pixels left, 3x15 sec	(3) JUPITER-RING-EAST-ANSA2	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG -4,5	Sequence 1-15 Non-Int in Visit 12	15 Secs X 3 (45 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]*	***[1]***
8	East ansa, C512C, 100 pixels left, 2x45 sec	(3) JUPITER-RING-EAST-ANSA2	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		SAME POS AS 7	Sequence 1-15 Non-Int in Visit 12	45 Secs X 2 (90 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***
9	East ansa, C512C, 100 pixels left, 3 sec	(3) JUPITER-RING-EAST-ANSA2	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		SAME POS AS 7	Sequence 1-15 Non-Int in Visit 12	3 Secs (3 Secs) *[==>]*	***[1]***
10	West ansa, M512C, 3x15 sec	(4) JUPITER-RING-WEST-ANSA2	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F350LP		POS TARG 0,-5	Sequence 1-15 Non-Int in Visit 12	15 Secs X 3 (45 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]*	***[1]***
11	West ansa, M512C, 2x45 sec	(4) JUPITER-RING-WEST-ANSA2	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F350LP		SAME POS AS 10	Sequence 1-15 Non-Int in Visit 12	45 Secs X 2 (90 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***
12	West ansa, M512C, 3 sec	(4) JUPITER-RING-WEST-ANSA2	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F350LP		SAME POS AS 10	Sequence 1-15 Non-Int in Visit 12	3 Secs (3 Secs) *[==>]*	***[1]***
13	East ansa, M512C, 3x15 sec	(3) JUPITER-RING-EAST-ANSA2	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F350LP		POS TARG 0,5	Sequence 1-15 Non-Int in Visit 12	15 Secs X 3 (45 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]*	***[1]***

	14	East ansa, M 512C, 2x45 sec	(3) JUPITER-RING-EAST-ANSA2	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F350LP	SAME POS AS 13	Sequence 1-15 Non-Int in Visit 12	45 Secs X 2 (90 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***
	15	East ansa, M 512C, 3 sec	(3) JUPITER-RING-EAST-ANSA2	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F350LP	SAME POS AS 13	Sequence 1-15 Non-Int in Visit 12	3 Secs (3 Secs) *[==>]*	***[1]***

Orbit Structure



Proposal 13414 - Visit 20 - Reading the Record of Cometary Impacts into Jupiter's Rings

Visit

Proposal 13414, Visit 20, withdrawn

Thu Dec 12 02:44:47 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 318D TO 322 D; BETWEEN 03-JAN-2014:00:00:00 AND 09-JAN-2014:00:00:00; ON HOLD

Comments: Jovian ring east ansa near opposition, oriented horizontally across the middle of the 512x512 UVIS2 subarray. Jupiter is positioned outside the CCD. Two dither steps of +/- 4.33 pixels along the x and y axes occur during the visit, potentially providing improved spatial resolution and relocating bad pixels relative to the target. The target is defined to avoid any nearby Jovian satellites. WITHDRAWN--use Visits 30-37 instead.

On Hold Comments: Schedule three from any subset of visits 20-27 or 30-37. We hope to identify visits that sample three well-distributed sectors of the Jovian ring, which rotates in 7.1 hours. The difference between visits 20-27 and 30-37 is that the former position Jupiter outside the CCD, whereas the latter puts Jupiter inside the CCD. We will determine which of these options provides better data based on the results of the first visit.

WITHDRAWN. Use visits 30-37 instead.

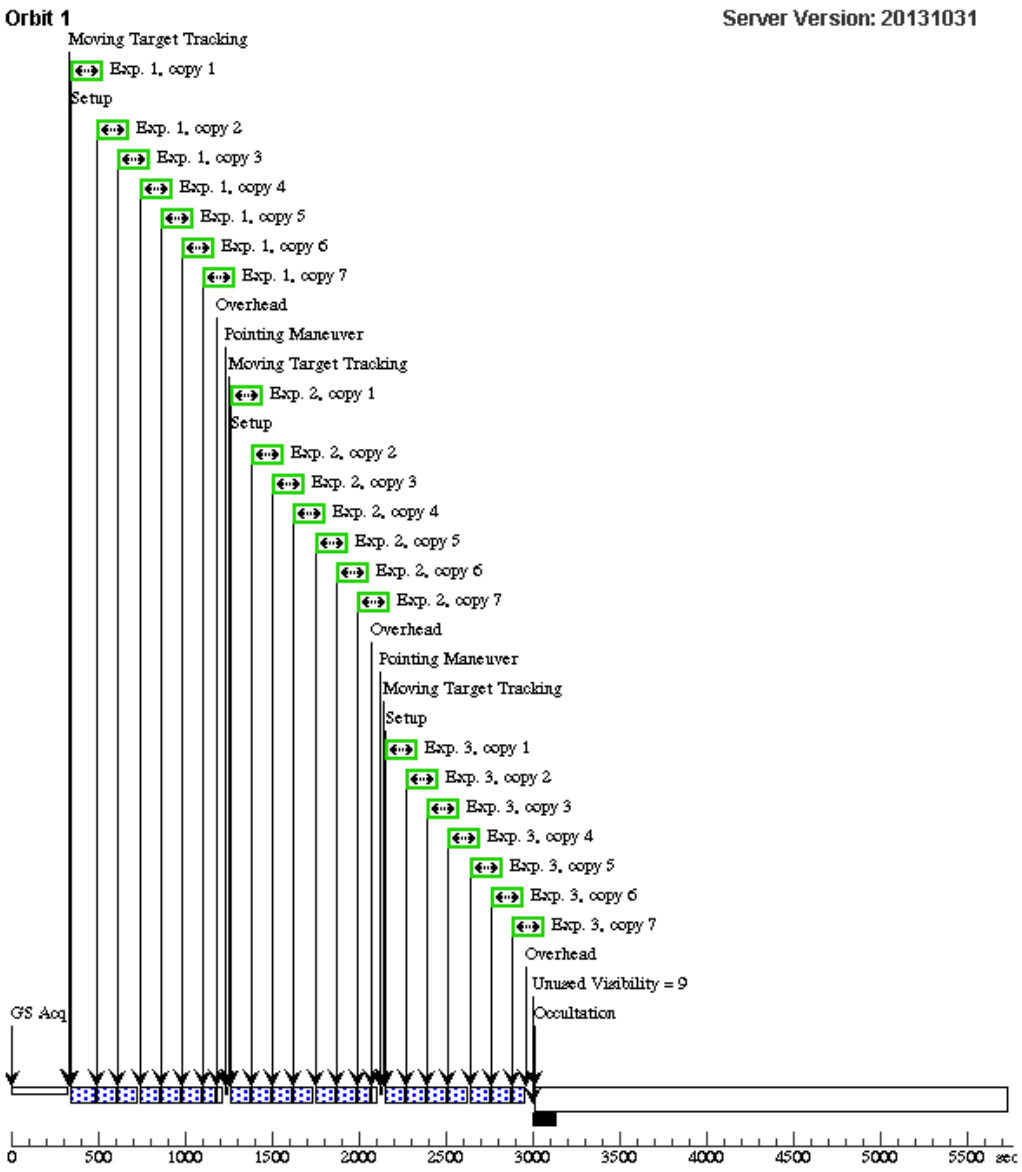
Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	JUPITER-RING-EAST-ANSA	STD=JUPITER	TYPE=TORUS,LONG=270,LAT=0,RAD=126000		SEP OF JUPITER-RING-EAST-ANSA CALLISTO FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA IO FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA EUROPA FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA GANYMEDE FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA AMALTHEA FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA THEBE FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA ADRASTEA FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA METIS FROM EARTH GT 12" MOSS Planning Start: 27-OCT-2013:00:00:00 MOSS Planning End: 11-MAR-2014:00:00:00	EARTH

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	7 x 68 sec	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-3 Non-Int in Visit 20	68 Secs X 7 (476 Secs)	
								[==>(Copy 1)]	
								[==>(Copy 2)]	
								[==>(Copy 3)]	
								[==>(Copy 4)]	***[1]***
								[==>(Copy 5)]	
								[==>(Copy 6)]	
								[==>(Copy 7)]	
2	7 x 68 sec	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.171,0.184	Sequence 1-3 Non-Int in Visit 20	68 Secs X 7 (476 Secs)	
								[==>(Copy 1)]	
								[==>(Copy 2)]	
								[==>(Copy 3)]	
								[==>(Copy 4)]	***[1]***
								[==>(Copy 5)]	
								[==>(Copy 6)]	
								[==>(Copy 7)]	
3	7 x 68 sec	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG -0.171,-0.184	Sequence 1-3 Non-Int in Visit 20	68 Secs X 7 (476 Secs)	
								[==>(Copy 1)]	
								[==>(Copy 2)]	
								[==>(Copy 3)]	
								[==>(Copy 4)]	***[1]***
								[==>(Copy 5)]	
								[==>(Copy 6)]	
								[==>(Copy 7)]	

Orbit Structure



Visit

Proposal 13414, Visit 21, withdrawn

Thu Dec 12 02:44:48 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 318D TO 322 D; BETWEEN 03-JAN-2014:00:00:00 AND 09-JAN-2014:00:00:00; ON HOLD

Comments: Jovian ring east ansa near opposition, oriented horizontally across the middle of the 512x512 UVIS2 subarray. Jupiter is positioned outside the CCD. Two dither steps of +/- 4.33 pixels along the x and y axes occur during the visit, potentially providing improved spatial resolution and relocating bad pixels relative to the target. The target is defined to avoid any nearby Jovian satellites. This visit is identical to Visit 20. WITHDRAWN--use Visits 30-37 instead.

On Hold Comments: Schedule three from any subset of visits 20-27 or 30-37. We hope to identify visits that sample three well-distributed sectors of the Jovian ring, which rotates in 7.1 hours. The difference between visits 20-27 and 30-37 is that the former position Jupiter outside the CCD, whereas the latter puts Jupiter inside the CCD. We will determine which of these options provides better data based on the results of the first visit.

WITHDRAWN. Use visits 30-37 instead.

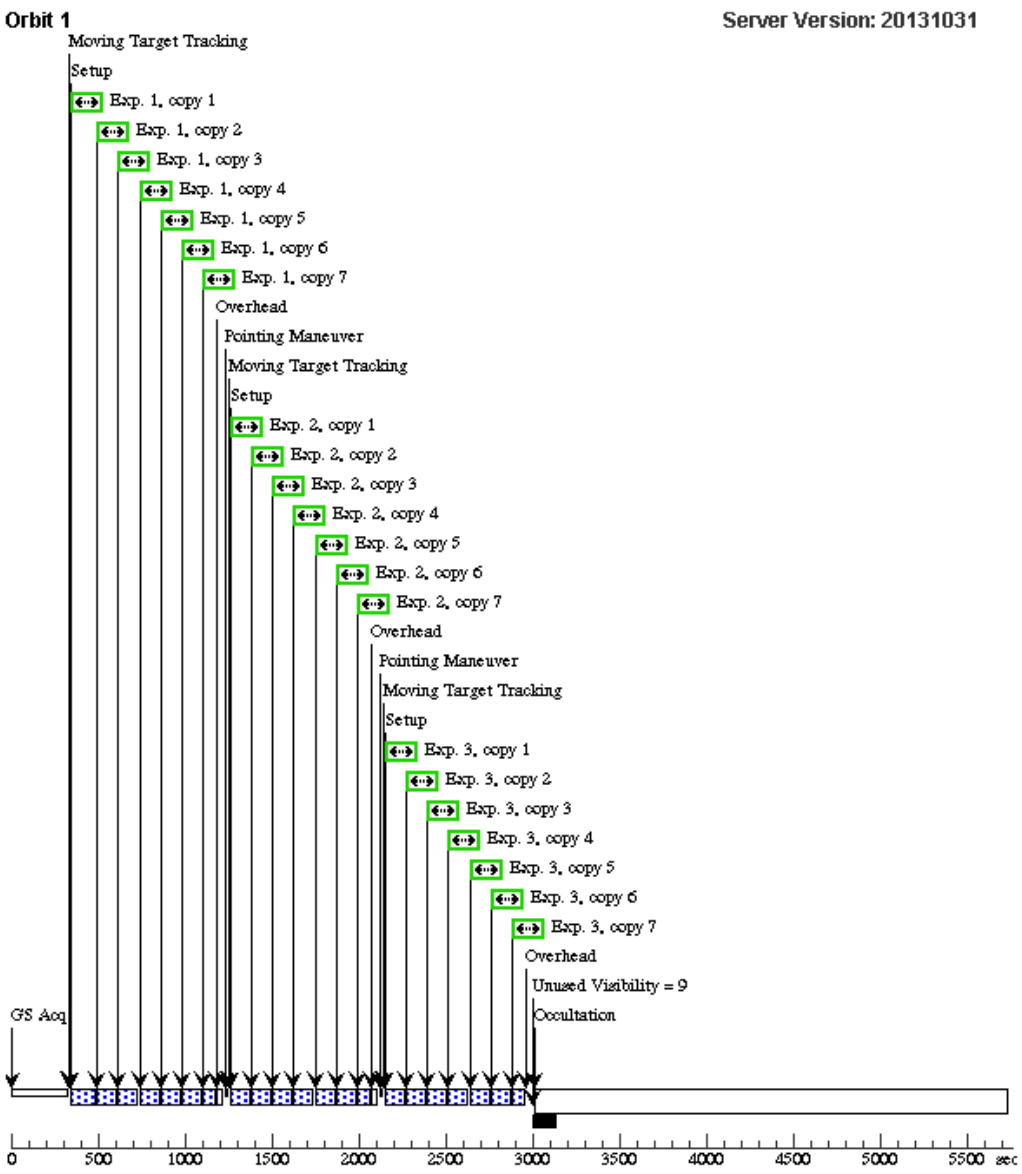
Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	JUPITER-RING-EAST-ANSA	STD=JUPITER	TYPE=TORUS,LONG=270,LAT=0,RAD=126000		SEP OF JUPITER-RING-EAST-ANSA CALLISTO FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA IO FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA EUROPA FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA GANYMEDE FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA AMALTHEA FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA THEBE FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA ADRASTEA FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA METIS FROM EARTH GT 12" MOSS Planning Start: 27-OCT-2013:00:00:00 MOSS Planning End: 11-MAR-2014:00:00:00	EARTH

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	7 x 68 sec	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-3 Non-Int in Visit 21	68 Secs X 7 (476 Secs)	
								[==>(Copy 1)]	
								[==>(Copy 2)]	
								[==>(Copy 3)]	
								[==>(Copy 4)]	***[1]***
								[==>(Copy 5)]	
								[==>(Copy 6)]	
								[==>(Copy 7)]	
2	7 x 68 sec	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.171,0.184	Sequence 1-3 Non-Int in Visit 21	68 Secs X 7 (476 Secs)	
								[==>(Copy 1)]	
								[==>(Copy 2)]	
								[==>(Copy 3)]	
								[==>(Copy 4)]	***[1]***
								[==>(Copy 5)]	
								[==>(Copy 6)]	
								[==>(Copy 7)]	
3	7 x 68 sec	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG -0.171,-0.184	Sequence 1-3 Non-Int in Visit 21	68 Secs X 7 (476 Secs)	
								[==>(Copy 1)]	
								[==>(Copy 2)]	
								[==>(Copy 3)]	
								[==>(Copy 4)]	***[1]***
								[==>(Copy 5)]	
								[==>(Copy 6)]	
								[==>(Copy 7)]	

Orbit Structure



Proposal 13414 - Visit 22 - Reading the Record of Cometary Impacts into Jupiter's Rings

Visit

Proposal 13414, Visit 22, withdrawn Thu Dec 12 02:44:50 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 318D TO 322 D; BETWEEN 03-JAN-2014:00:00:00 AND 09-JAN-2014:00:00:00; ON HOLD

Comments: Jovian ring east ansa near opposition, oriented horizontally across the middle of the 512x512 UVIS2 subarray. Jupiter is positioned outside the CCD. Two dither steps of +/- 4.33 pixels along the x and y axes occur during the visit, potentially providing improved spatial resolution and relocating bad pixels relative to the target. The target is defined to avoid any nearby Jovian satellites. This visit is identical to Visit 20. WITHDRAWN--use Visits 30-37 instead.

On Hold Comments: Schedule three from any subset of visits 20-27 or 30-37. We hope to identify visits that sample three well-distributed sectors of the Jovian ring, which rotates in 7.1 hours. The difference between visits 20-27 and 30-37 is that the former position Jupiter outside the CCD, whereas the latter puts Jupiter inside the CCD. We will determine which of these options provides better data based on the results of the first visit.

WITHDRAWN. Use visits 30-37 instead.

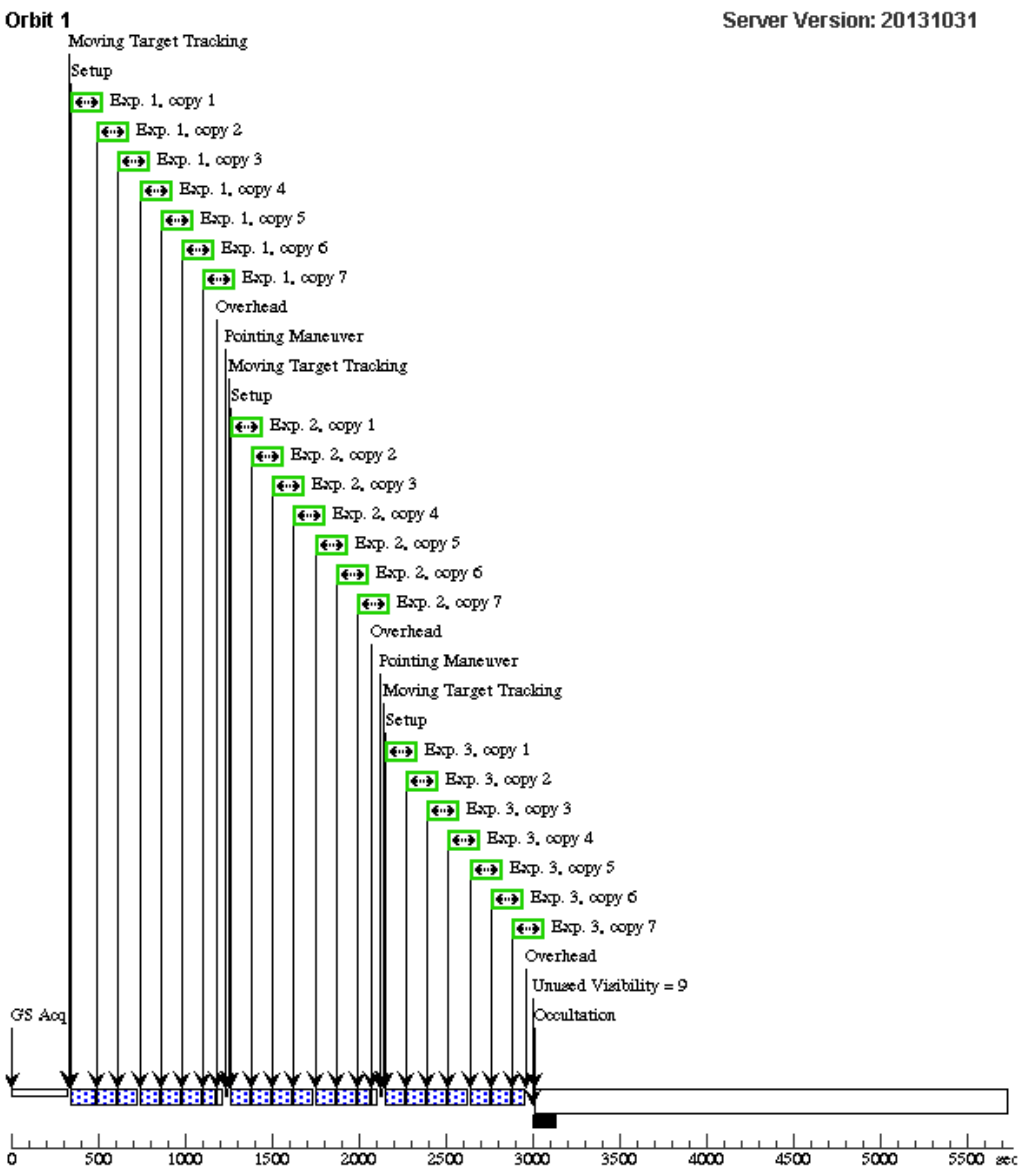
Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	JUPITER-RING-EAST-ANSA	STD=JUPITER	TYPE=TORUS,LONG=270,LAT=0,RAD=126000		SEP OF JUPITER-RING-EAST-ANSA CALLISTO FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA IO FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA EUROPA FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA GANYMEDE FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA AMALTHEA FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA THEBE FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA ADRASTEA FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA METIS FROM EARTH GT 12" MOSS Planning Start: 27-OCT-2013:00:00:00 MOSS Planning End: 11-MAR-2014:00:00:00	EARTH

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	7 x 68 sec	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-3 Non-Int in Visit 22	68 Secs X 7 (476 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]*	***[1]***
2	7 x 68 sec	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.171,0.184	Sequence 1-3 Non-Int in Visit 22	68 Secs X 7 (476 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]*	***[1]***
3	7 x 68 sec	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG -0.171,-0.184	Sequence 1-3 Non-Int in Visit 22	68 Secs X 7 (476 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]*	***[1]***

Orbit Structure



Visit

Proposal 13414, Visit 25, withdrawn Thu Dec 12 02:44:51 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 138D TO 142 D; BETWEEN 03-JAN-2014:00:00:00 AND 09-JAN-2014:00:00:00; ON HOLD

Comments: Jovian ring west ansa near opposition, oriented horizontally across the middle of the 512x512 UVIS2 subarray. Jupiter is positioned outside the CCD. Two dither steps of +/- 4.33 pixels along the x and y axes occur during the visit, potentially providing improved spatial resolution and relocating bad pixels relative to the target. The target is defined to avoid any nearby Jovian satellites. WITHDRAWN--use Visits 30-37 instead.

On Hold Comments: Schedule three from any subset of visits 20-27 or 30-37. We hope to identify visits that sample three well-distributed sectors of the Jovian ring, which rotates in 7.1 hours. The difference between visits 20-27 and 30-37 is that the former position Jupiter outside the CCD, whereas the latter puts Jupiter inside the CCD. We will determine which of these options provides better data based on the results of the first visit.

WITHDRAWN. Use visits 30-37 instead.

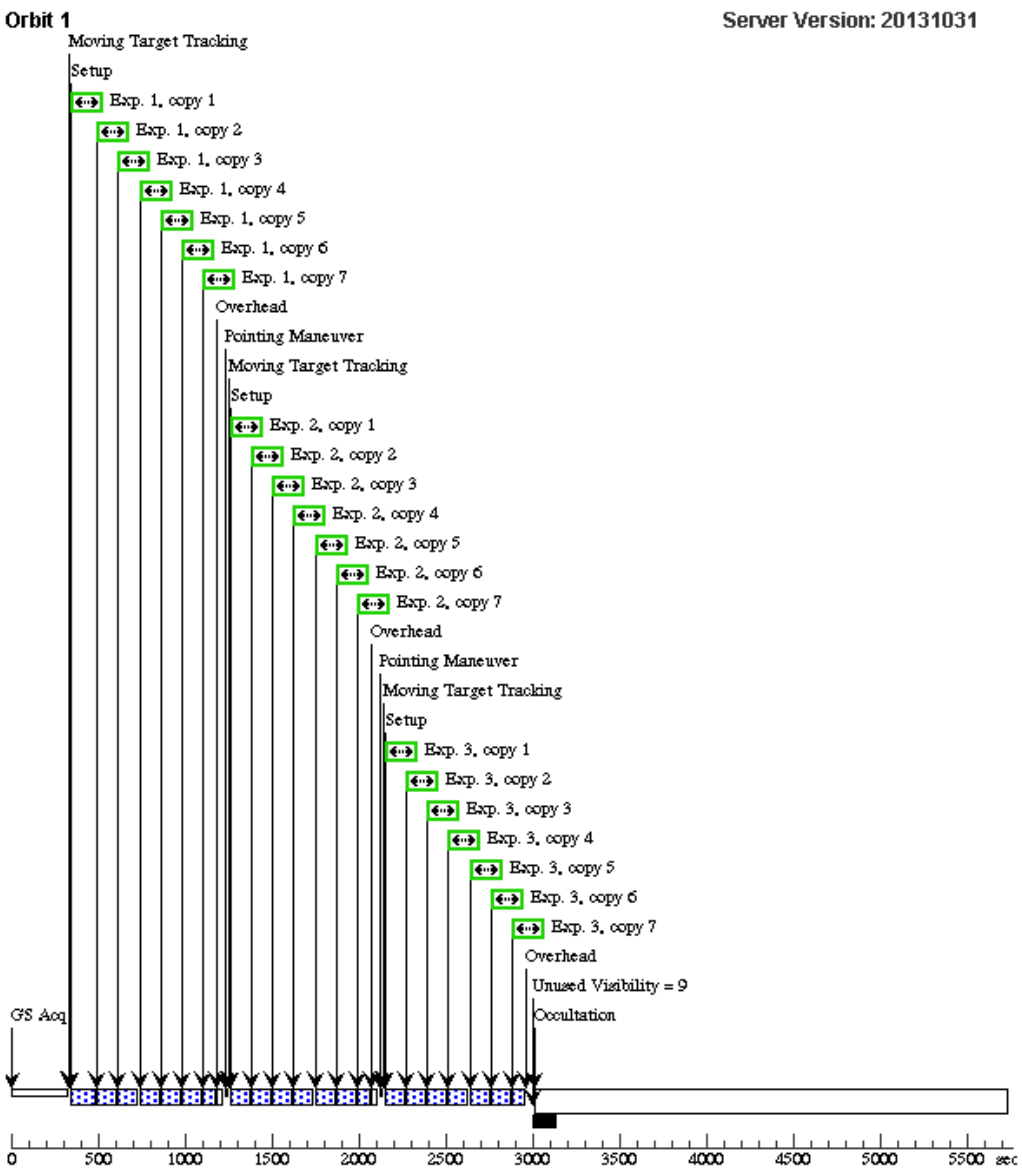
Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(2)	JUPITER-RING-WEST-ANSA	STD=JUPITER	TYPE=TORUS,LONG=90,LAT=0,RAD=126000		SEP OF JUPITER-RING-WEST-ANSA CALLISTO FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA IO FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA EUROPA FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA GANYMEDE FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA AMALTHEA FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA THEBE FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA ADRASTEA FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA METIS FROM EARTH GT 12" MOSS Planning Start: 27-OCT-2013 MOSS Planning End: 11-MAR-2014	EARTH

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	7 x 68 sec	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-3 Non-Int in Visit 25	68 Secs X 7 (476 Secs)	
								[==>(Copy 1)]	
								[==>(Copy 2)]	
								[==>(Copy 3)]	
								[==>(Copy 4)]	***[1]***
								[==>(Copy 5)]	
								[==>(Copy 6)]	
								[==>(Copy 7)]	
2	7 x 68 sec	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.171,0.184	Sequence 1-3 Non-Int in Visit 25	68 Secs X 7 (476 Secs)	
								[==>(Copy 1)]	
								[==>(Copy 2)]	
								[==>(Copy 3)]	
								[==>(Copy 4)]	***[1]***
								[==>(Copy 5)]	
								[==>(Copy 6)]	
								[==>(Copy 7)]	
3	7 x 68 sec	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG -0.171,-0.184	Sequence 1-3 Non-Int in Visit 25	68 Secs X 7 (476 Secs)	
								[==>(Copy 1)]	
								[==>(Copy 2)]	
								[==>(Copy 3)]	
								[==>(Copy 4)]	***[1]***
								[==>(Copy 5)]	
								[==>(Copy 6)]	
								[==>(Copy 7)]	

Orbit Structure



Visit

Proposal 13414, Visit 26, withdrawn Thu Dec 12 02:44:52 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 138D TO 142 D; BETWEEN 03-JAN-2014:00:00:00 AND 09-JAN-2014:00:00:00; ON HOLD

Comments: Jovian ring west ansa near opposition, oriented horizontally across the middle of the 512x512 UVIS2 subarray. Jupiter is positioned outside the CCD. Two dither steps of +/- 4.33 pixels along the x and y axes occur during the visit, potentially providing improved spatial resolution and relocating bad pixels relative to the target. The target is defined to avoid any nearby Jovian satellites. This visit is identical to Visit 25. WITHDRAWN--use Visits 30-37 instead.

On Hold Comments: Schedule three from any subset of visits 20-27 or 30-37. We hope to identify visits that sample three well-distributed sectors of the Jovian ring, which rotates in 7.1 hours. The difference between visits 20-27 and 30-37 is that the former position Jupiter outside the CCD, whereas the latter puts Jupiter inside the CCD. We will determine which of these options provides better data based on the results of the first visit.

WITHDRAWN. Use visits 30-37 instead.

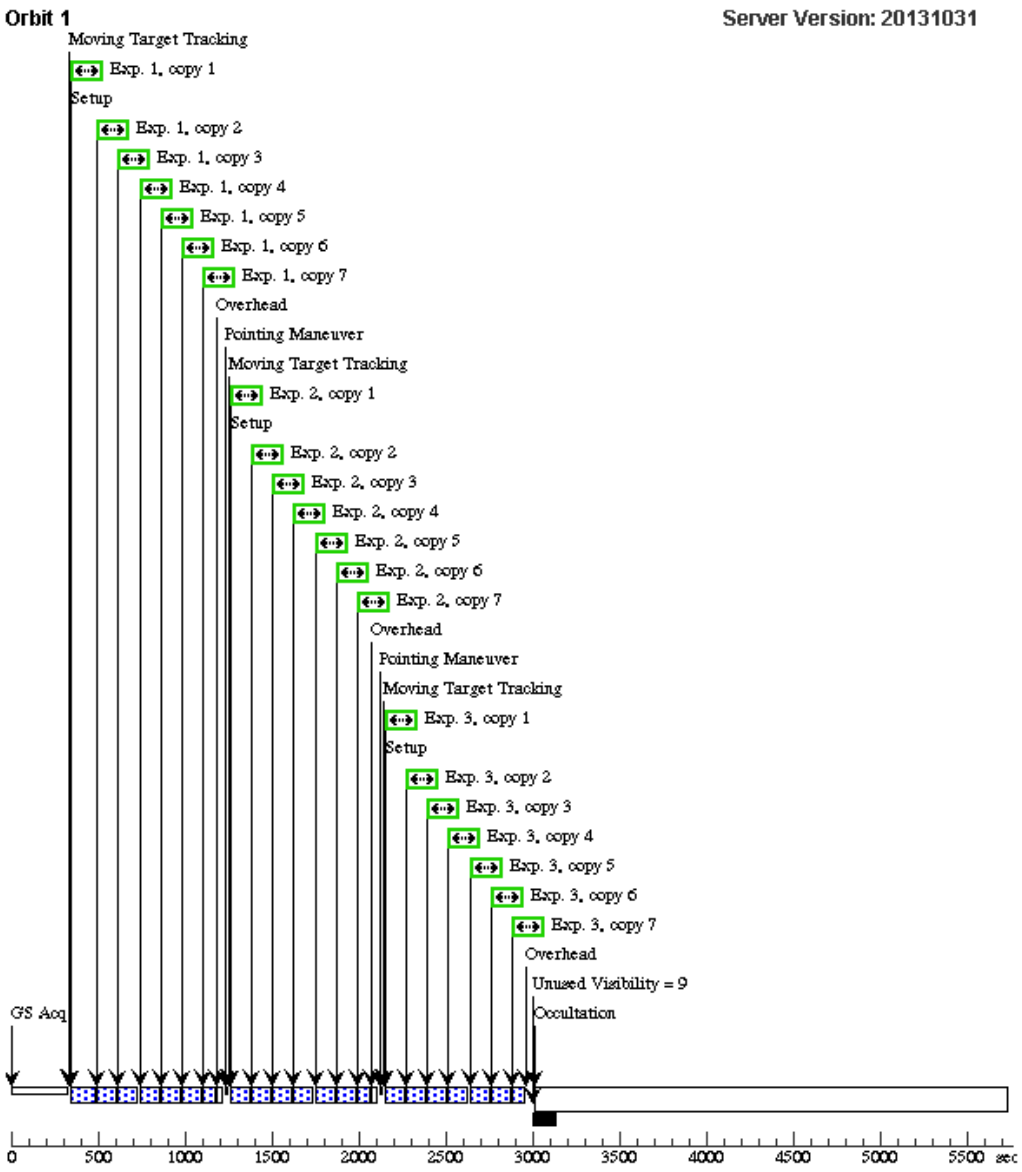
Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(2)	JUPITER-RING-WEST-ANSA	STD=JUPITER	TYPE=TORUS,LONG=90,LAT=0,RAD=126000		SEP OF JUPITER-RING-WEST-ANSA CALLISTO FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA IO FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA EUROPA FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA GANYMEDE FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA AMALTHEA FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA THEBE FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA ADRASTEA FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA METIS FROM EARTH GT 12" MOSS Planning Start: 27-OCT-2013 MOSS Planning End: 11-MAR-2014	EARTH

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	7 x 68 sec	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-3 Non-Int in Visit 26	68 Secs X 7 (476 Secs)	
								[==>(Copy 1)]	
								[==>(Copy 2)]	
								[==>(Copy 3)]	
								[==>(Copy 4)]	***[1]***
								[==>(Copy 5)]	
								[==>(Copy 6)]	
								[==>(Copy 7)]	
2	7 x 68 sec	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.171,0.184	Sequence 1-3 Non-Int in Visit 26	68 Secs X 7 (476 Secs)	
								[==>(Copy 1)]	
								[==>(Copy 2)]	
								[==>(Copy 3)]	
								[==>(Copy 4)]	***[1]***
								[==>(Copy 5)]	
								[==>(Copy 6)]	
								[==>(Copy 7)]	
3	7 x 68 sec	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG -0.171,-0.184	Sequence 1-3 Non-Int in Visit 26	68 Secs X 7 (476 Secs)	
								[==>(Copy 1)]	
								[==>(Copy 2)]	
								[==>(Copy 3)]	
								[==>(Copy 4)]	***[1]***
								[==>(Copy 5)]	
								[==>(Copy 6)]	
								[==>(Copy 7)]	

Orbit Structure



Visit

Proposal 13414, Visit 27, withdrawn Thu Dec 12 02:44:53 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 138D TO 142 D; BETWEEN 03-JAN-2014:00:00:00 AND 09-JAN-2014:00:00:00; ON HOLD

Comments: Jovian ring west ansa near opposition, oriented horizontally across the middle of the 512x512 UVIS2 subarray. Jupiter is positioned outside the CCD. Two dither steps of +/- 4.33 pixels along the x and y axes occur during the visit, potentially providing improved spatial resolution and relocating bad pixels relative to the target. The target is defined to avoid any nearby Jovian satellites. This visit is identical to Visit 25. WITHDRAWN--use Visits 30-37 instead.

On Hold Comments: Schedule three from any subset of visits 20-27 or 30-37. We hope to identify visits that sample three well-distributed sectors of the Jovian ring, which rotates in 7.1 hours. The difference between visits 20-27 and 30-37 is that the former position Jupiter outside the CCD, whereas the latter puts Jupiter inside the CCD. We will determine which of these options provides better data based on the results of the first visit.

WITHDRAWN. Use visits 30-37 instead.

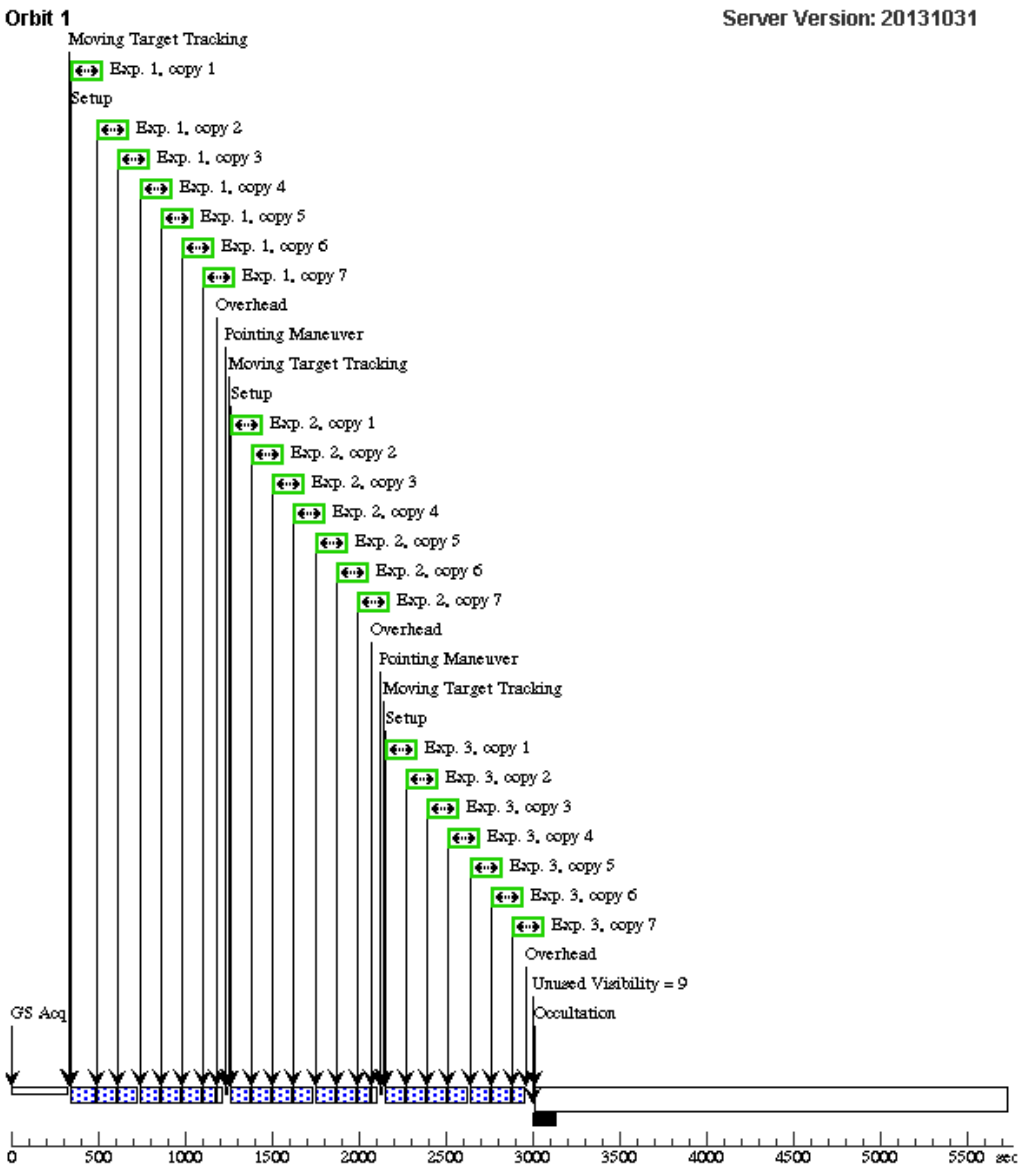
Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(2)	JUPITER-RING-WEST-ANSA	STD=JUPITER	TYPE=TORUS,LONG=90,LAT=0,RAD=126000		SEP OF JUPITER-RING-WEST-ANSA CALLISTO FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA IO FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA EUROPA FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA GANYMEDE FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA AMALTHEA FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA THEBE FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA ADRASTEA FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA METIS FROM EARTH GT 12" MOSS Planning Start: 27-OCT-2013 MOSS Planning End: 11-MAR-2014	EARTH

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	7 x 68 sec	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-3 Non-Int in Visit 27	68 Secs X 7 (476 Secs)	
								[==>(Copy 1)]	
								[==>(Copy 2)]	
								[==>(Copy 3)]	
								[==>(Copy 4)]	***[1]***
								[==>(Copy 5)]	
								[==>(Copy 6)]	
								[==>(Copy 7)]	
2	7 x 68 sec	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.171,0.184	Sequence 1-3 Non-Int in Visit 27	68 Secs X 7 (476 Secs)	
								[==>(Copy 1)]	
								[==>(Copy 2)]	
								[==>(Copy 3)]	
								[==>(Copy 4)]	***[1]***
								[==>(Copy 5)]	
								[==>(Copy 6)]	
								[==>(Copy 7)]	
3	7 x 68 sec	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG -0.171,-0.184	Sequence 1-3 Non-Int in Visit 27	68 Secs X 7 (476 Secs)	
								[==>(Copy 1)]	
								[==>(Copy 2)]	
								[==>(Copy 3)]	
								[==>(Copy 4)]	***[1]***
								[==>(Copy 5)]	
								[==>(Copy 6)]	
								[==>(Copy 7)]	

Orbit Structure



Proposal 13414 - Visit 30 - Reading the Record of Cometary Impacts into Jupiter's Rings

Visit

Proposal 13414, Visit 30, implementation Thu Dec 12 02:44:54 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 318D TO 322 D; BETWEEN 05-JAN-2014:02:00:00 AND 05-JAN-2014:03:00:00; ON HOLD

Comments: Jovian ring west ansa near opposition, oriented horizontally across the middle of the 512x512 UVIS2 subarray. Jupiter is positioned inside the CCD but outside the subarray. Two dither steps of +/- 4.33 pixels along the x and y axes occur during the visit, potentially providing improved spatial resolution and relocating bad pixels relative to the target. The target is defined to avoid any nearby Jovian satellites.

On Hold Comments: Schedule three from any subset of visits 30-37. We hope to identify visits that sample three well-distributed sectors of the Jovian ring, which rotates in 7.1 hours.

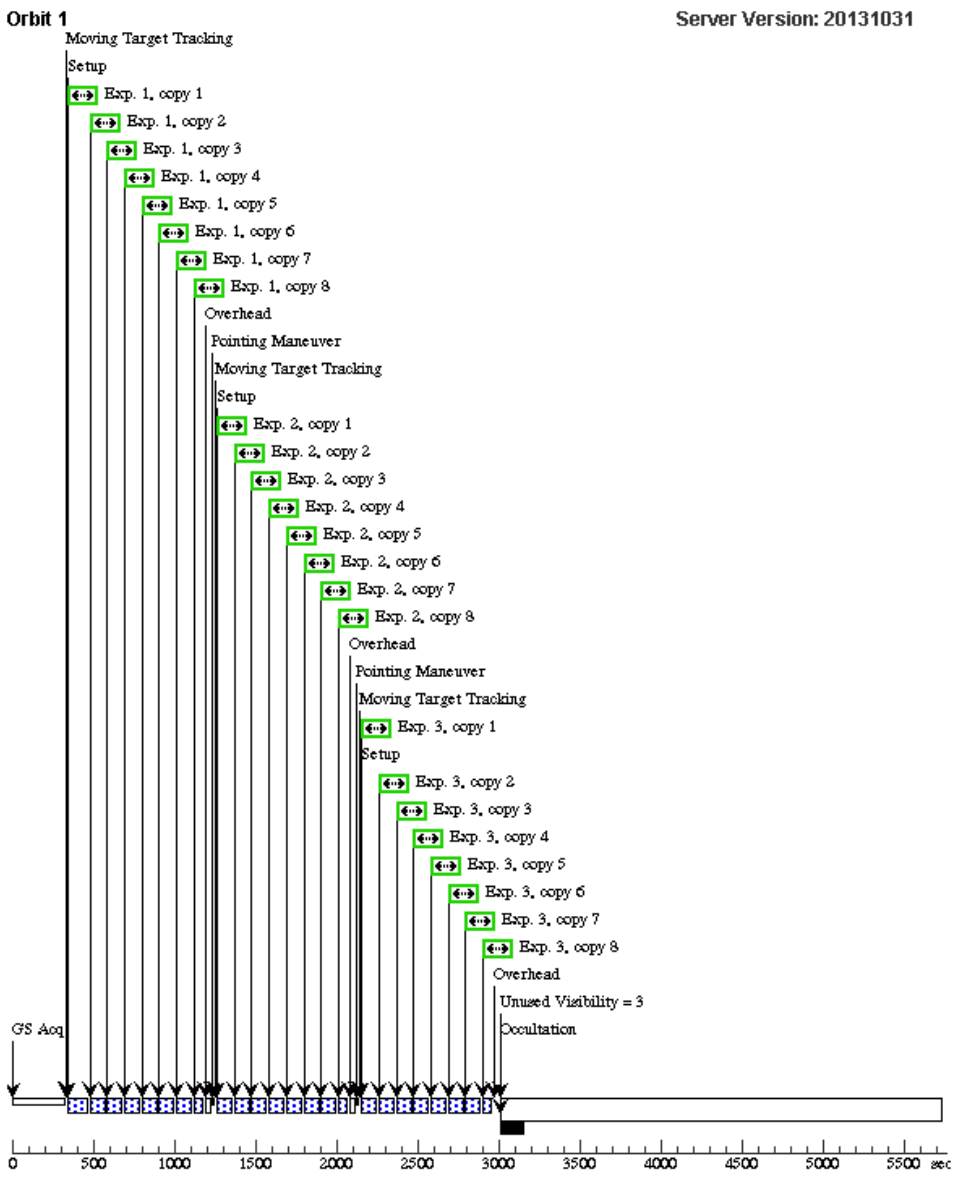
Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(2)	JUPITER-RING-WEST-ANSA	STD=JUPITER	TYPE=TORUS,LONG=90,LAT=0,RAD=126000		SEP OF JUPITER-RING-WEST-ANSA CALLISTO FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA IO FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA EUROPA FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA GANYMEDE FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA AMALTHEA FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA THEBE FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA ADRASTEA FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA METIS FROM EARTH GT 12" MOSS Planning Start: 27-OCT-2013 MOSS Planning End: 11-MAR-2014	EARTH

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	8 x 53 sec	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-3 Non-Int in Visit 30	53 Secs X 8 (424 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	***[1]***
2	8 x 53 sec	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.171,0.184	Sequence 1-3 Non-Int in Visit 30	53 Secs X 8 (424 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	***[1]***
3	8 x 53 sec	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG -0.171,-0.184	Sequence 1-3 Non-Int in Visit 30	53 Secs X 8 (424 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	***[1]***

Orbit Structure



Proposal 13414 - Visit 31 - Reading the Record of Cometary Impacts into Jupiter's Rings

Visit

Proposal 13414, Visit 31, implementation Thu Dec 12 02:44:55 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 318D TO 322 D; BETWEEN 03-JAN-2014:00:00:00 AND 09-JAN-2014:00:00:00; ON HOLD

Comments: Jovian ring west ansa near opposition, oriented horizontally across the middle of the 512x512 UVIS2 subarray. Jupiter is positioned inside the CCD but outside the subarray. Two dither steps of +/- 4.33 pixels along the x and y axes occur during the visit, potentially providing improved spatial resolution and relocating bad pixels relative to the target. The target is defined to avoid any nearby Jovian satellites. This visit is identical to Visit 30.

On Hold Comments: Schedule three from any subset of visits 30-37. We hope to identify visits that sample three well-distributed sectors of the Jovian ring, which rotates in 7.1 hours.

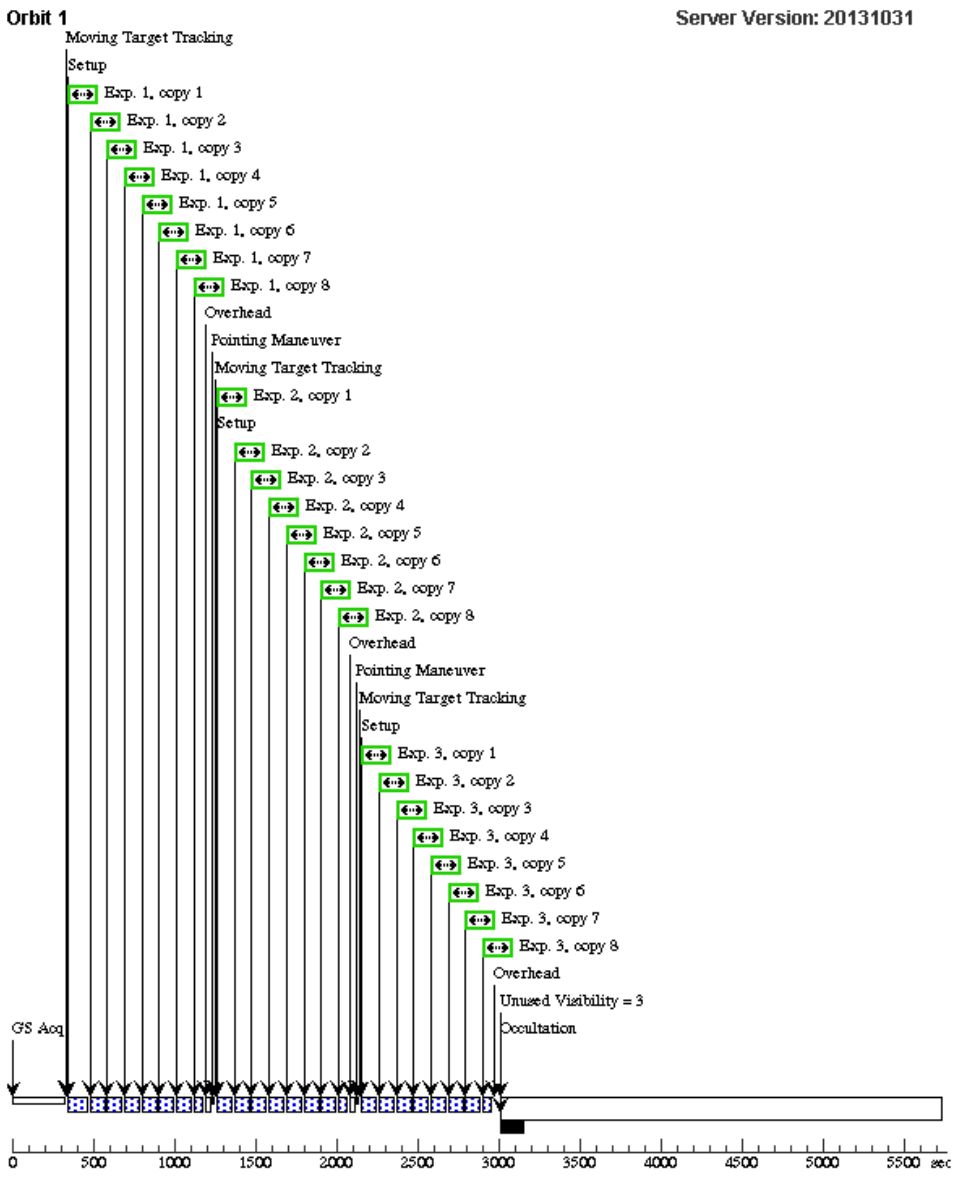
Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(2)	JUPITER-RING-WEST-ANSA	STD=JUPITER	TYPE=TORUS,LONG=90,LAT=0,RAD=126000		SEP OF JUPITER-RING-WEST-ANSA CALLISTO FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA IO FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA EUROPA FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA GANYMEDE FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA AMALTHEA FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA THEBE FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA ADRASTEA FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA METIS FROM EARTH GT 12" MOSS Planning Start: 27-OCT-2013 MOSS Planning End: 11-MAR-2014	EARTH

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	8 x 53 sec	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-3 Non-Int in Visit 31	53 Secs X 8 (424 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	***[1]***
2	8 x 53 sec	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.171,0.184	Sequence 1-3 Non-Int in Visit 31	53 Secs X 8 (424 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	***[1]***
3	8 x 53 sec	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG -0.171,-0.184	Sequence 1-3 Non-Int in Visit 31	53 Secs X 8 (424 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	***[1]***

Orbit Structure



Proposal 13414 - Visit 32 - Reading the Record of Cometary Impacts into Jupiter's Rings

Visit

Proposal 13414, Visit 32, implementation Thu Dec 12 02:44:56 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 318D TO 322 D; BETWEEN 03-JAN-2014:00:00:00 AND 09-JAN-2014:00:00:00; ON HOLD

Comments: Jovian ring west ansa near opposition, oriented horizontally across the middle of the 512x512 UVIS2 subarray. Jupiter is positioned inside the CCD but outside the subarray. Two dither steps of +/- 4.33 pixels along the x and y axes occur during the visit, potentially providing improved spatial resolution and relocating bad pixels relative to the target. The target is defined to avoid any nearby Jovian satellites. This visit is identical to Visit 30.

On Hold Comments: Schedule three from any subset of visits 30-37. We hope to identify visits that sample three well-distributed sectors of the Jovian ring, which rotates in 7.1 hours.

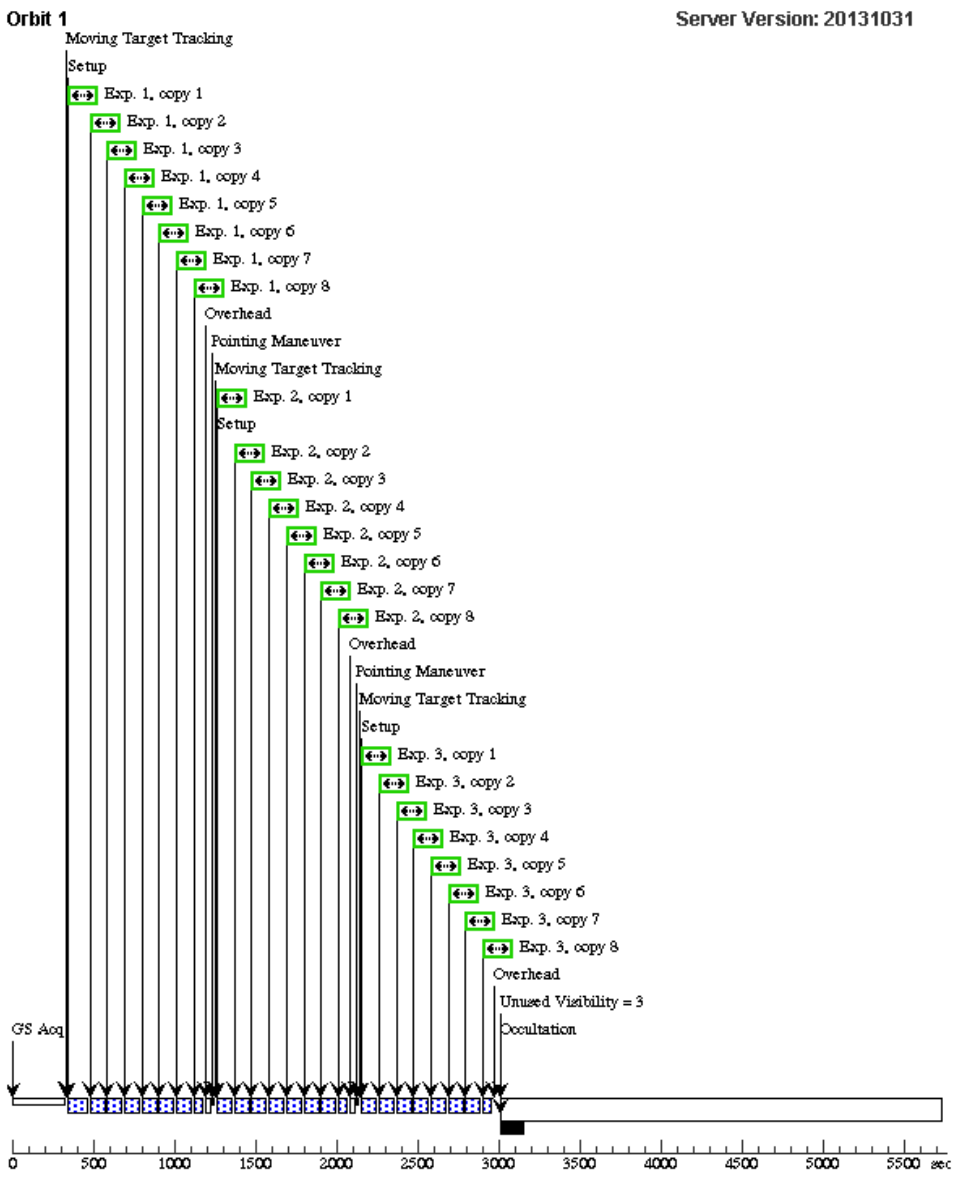
Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(2)	JUPITER-RING-WEST-ANSA	STD=JUPITER	TYPE=TORUS,LONG=90,LAT=0,RAD=126000		SEP OF JUPITER-RING-WEST-ANSA CALLISTO FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA IO FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA EUROPA FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA GANYMEDE FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA AMALTHEA FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA THEBE FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA ADRASTEA FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA METIS FROM EARTH GT 12" MOSS Planning Start: 27-OCT-2013 MOSS Planning End: 11-MAR-2014	EARTH

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	8 x 53 sec	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-3 Non-Int in Visit 32	53 Secs X 8 (424 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	***[1]***
2	8 x 53 sec	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.171,0.184	Sequence 1-3 Non-Int in Visit 32	53 Secs X 8 (424 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	***[1]***
3	8 x 53 sec	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG -0.171,-0.184	Sequence 1-3 Non-Int in Visit 32	53 Secs X 8 (424 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	***[1]***

Orbit Structure



Proposal 13414 - Visit 35 - Reading the Record of Cometary Impacts into Jupiter's Rings

Visit

Proposal 13414, Visit 35, implementation Thu Dec 12 02:44:57 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 138D TO 142 D; BETWEEN 06-JAN-2014:06:45:00 AND 06-JAN-2014:07:45:00; ON HOLD

Comments: Jovian ring east ansa near opposition, oriented horizontally across the middle of the 512x512 UVIS2 subarray. Jupiter is positioned inside the CCD but outside the subarray. Two dither steps of +/- 4.33 pixels along the x and y axes occur during the visit, potentially providing improved spatial resolution and relocating bad pixels relative to the target. The target is defined to avoid any nearby Jovian satellites.

On Hold Comments: Schedule three from any subset of visits 30-37. We hope to identify visits that sample three well-distributed sectors of the Jovian ring, which rotates in 7.1 hours.

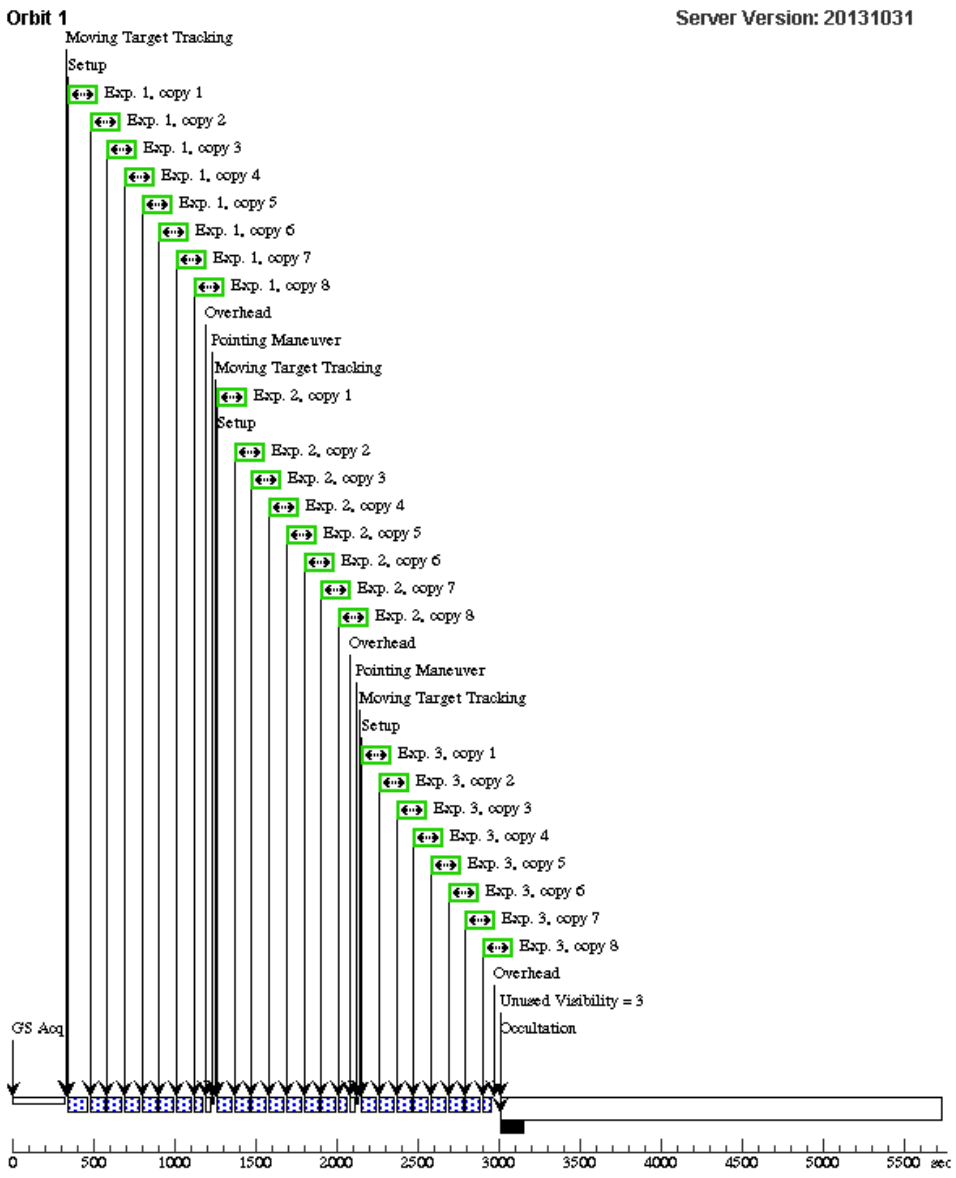
Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	JUPITER-RING-EAST-ANSA	STD=JUPITER	TYPE=TORUS,LONG=270,LAT=0,RAD=126000		SEP OF JUPITER-RING-EAST-ANSA CALLISTO FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA IO FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA EUROPA FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA GANYMEDE FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA AMALTHEA FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA THEBE FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA ADRASTEA FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA METIS FROM EARTH GT 12" MOSS Planning Start: 27-OCT-2013:00:00:00 MOSS Planning End: 11-MAR-2014:00:00:00	EARTH

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	8 x 53 sec	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-3 Non-Int in Visit 35	53 Secs X 8 (424 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	***[1]***
2	8 x 53 sec	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.171,0.184	Sequence 1-3 Non-Int in Visit 35	53 Secs X 8 (424 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	***[1]***
3	8 x 53 sec	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG -0.171,-0.184	Sequence 1-3 Non-Int in Visit 35	53 Secs X 8 (424 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	***[1]***

Orbit Structure



Proposal 13414 - Visit 36 - Reading the Record of Cometary Impacts into Jupiter's Rings

Visit

Proposal 13414, Visit 36, implementation Thu Dec 12 02:44:58 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 138D TO 142 D; BETWEEN 06-JAN-2014:18:00:00 AND 06-JAN-2014:19:00:00; ON HOLD

Comments: Jovian ring east ansa near opposition, oriented horizontally across the middle of the 512x512 UVIS2 subarray. Jupiter is positioned inside the CCD but outside the subarray. Two dither steps of +/- 4.33 pixels along the x and y axes occur during the visit, potentially providing improved spatial resolution and relocating bad pixels relative to the target. The target is defined to avoid any nearby Jovian satellites. This visit is identical to Visit 35.

On Hold Comments: Schedule three from any subset of visits 30-37. We hope to identify visits that sample three well-distributed sectors of the Jovian ring, which rotates in 7.1 hours.

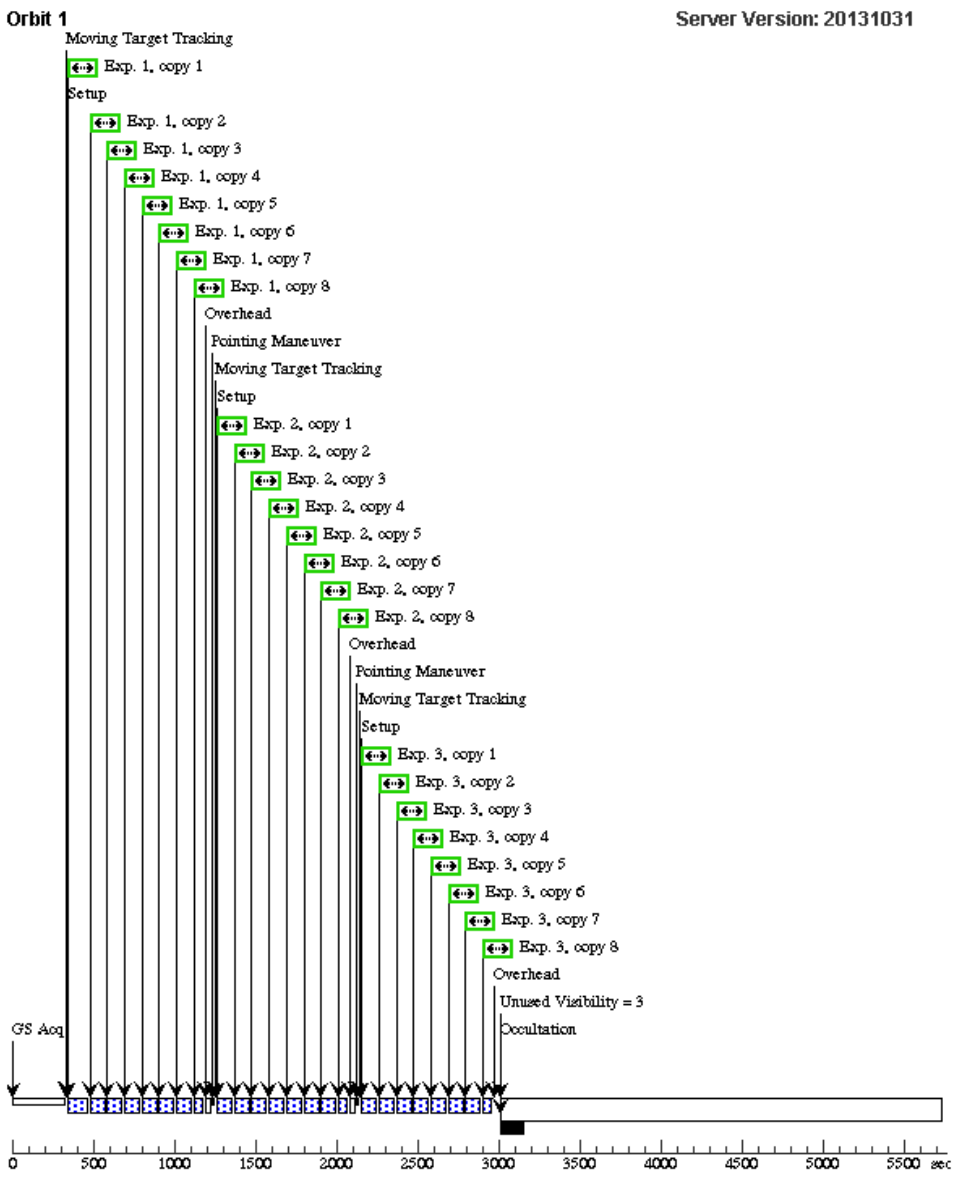
Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	JUPITER-RING-EAST-ANSA	STD=JUPITER	TYPE=TORUS,LONG=270,LAT=0,RAD=126000		SEP OF JUPITER-RING-EAST-ANSA CALLISTO FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA IO FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA EUROPA FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA GANYMEDE FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA AMALTHEA FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA THEBE FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA ADRASTEA FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA METIS FROM EARTH GT 12" MOSS Planning Start: 27-OCT-2013:00:00:00 MOSS Planning End: 11-MAR-2014:00:00:00	EARTH

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	8 x 53 sec	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-3 Non-Int in Visit 36	53 Secs X 8 (424 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	***[1]***
2	8 x 53 sec	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.171,0.184	Sequence 1-3 Non-Int in Visit 36	53 Secs X 8 (424 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	***[1]***
3	8 x 53 sec	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG -0.171,-0.184	Sequence 1-3 Non-Int in Visit 36	53 Secs X 8 (424 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	***[1]***

Orbit Structure



Proposal 13414 - Visit 37 - Reading the Record of Cometary Impacts into Jupiter's Rings

Visit

Proposal 13414, Visit 37, implementation Thu Dec 12 02:44:59 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 138D TO 142 D; BETWEEN 03-JAN-2014:00:00:00 AND 09-JAN-2014:00:00:00; ON HOLD

Comments: Jovian ring east ansa near opposition, oriented horizontally across the middle of the 512x512 UVIS2 subarray. Jupiter is positioned inside the CCD but outside the subarray. Two dither steps of +/- 4.33 pixels along the x and y axes occur during the visit, potentially providing improved spatial resolution and relocating bad pixels relative to the target. The target is defined to avoid any nearby Jovian satellites. This visit is identical to Visit 35.

On Hold Comments: Schedule three from any subset of visits 30-37. We hope to identify visits that sample three well-distributed sectors of the Jovian ring, which rotates in 7.1 hours.

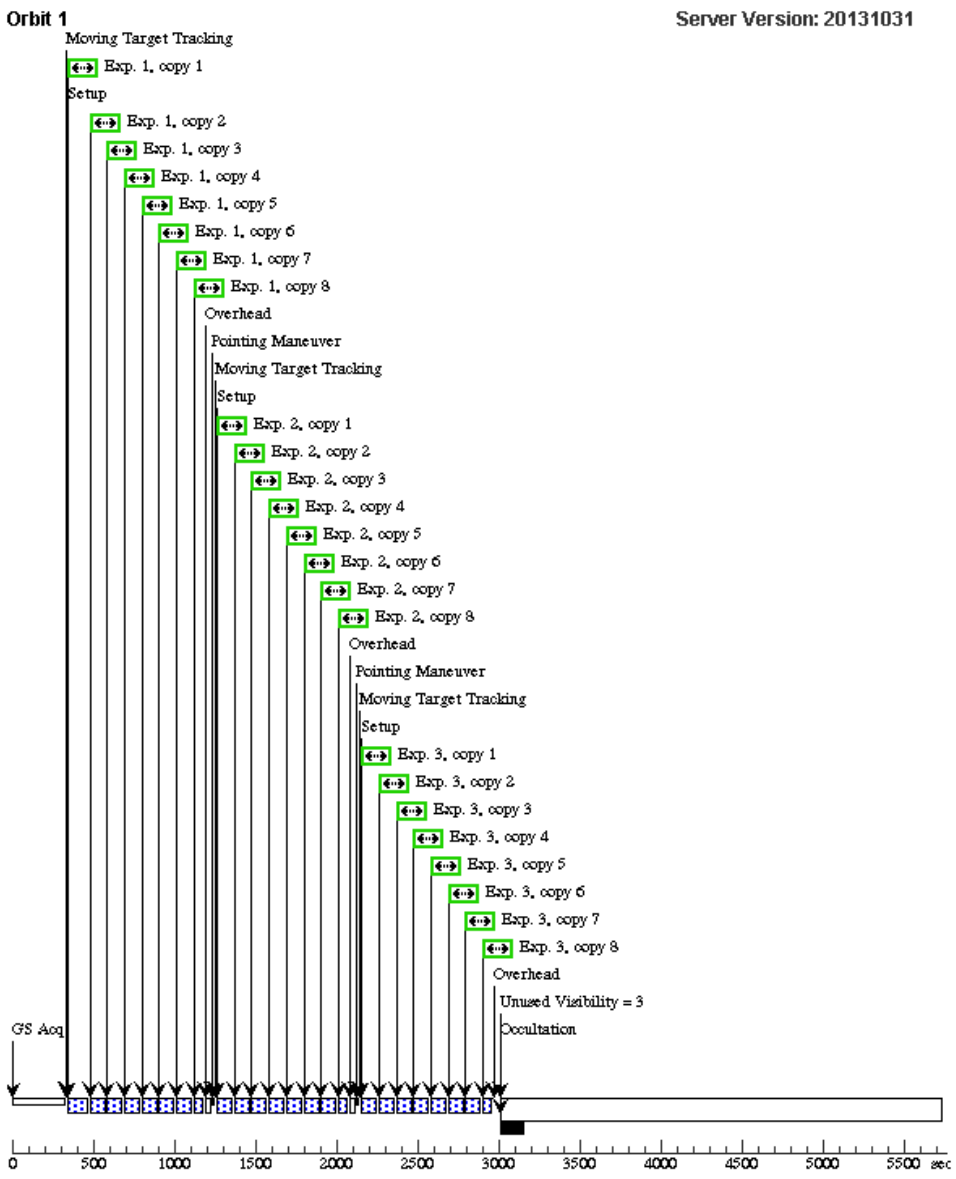
Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	JUPITER-RING-EAST-ANSA	STD=JUPITER	TYPE=TORUS,LONG=270,LAT=0,RAD=126000		SEP OF JUPITER-RING-EAST-ANSA CALLISTO FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA IO FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA EUROPA FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA GANYMEDE FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA AMALTHEA FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA THEBE FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA ADRASTEA FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA METIS FROM EARTH GT 12" MOSS Planning Start: 27-OCT-2013:00:00:00 MOSS Planning End: 11-MAR-2014:00:00:00	EARTH

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	8 x 53 sec	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-3 Non-Int in Visit 37	53 Secs X 8 (424 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	***[1]***
2	8 x 53 sec	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.171,0.184	Sequence 1-3 Non-Int in Visit 37	53 Secs X 8 (424 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	***[1]***
3	8 x 53 sec	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG -0.171,-0.184	Sequence 1-3 Non-Int in Visit 37	53 Secs X 8 (424 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	***[1]***

Orbit Structure



Visit

Proposal 13414, Visit 40, withdrawn Thu Dec 12 02:45:00 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 114D TO 140 D; BETWEEN 24-FEB-2014:00:00:00 AND 07-MAR-2014:00:00:00; ON HOLD

Comments: Jovian ring west ansa about two months after opposition, oriented as close as possible to horizontally across the middle of the 512x512 UVIS2 subarray. Jupiter is positioned outside the CCD. Two dither steps of +/- 4.33 pixels along the x and y axes occur during the visit, potentially providing improved spatial resolution and relocating bad pixels relative to the target. The target is defined to avoid any nearby Jovian satellites.

On Hold Comments: The difference between visits 40 and 41 is that the former position Jupiter outside the CCD, whereas the latter puts Jupiter inside the CCD. We will determine which of these options provides better data based on the results of the first visit.

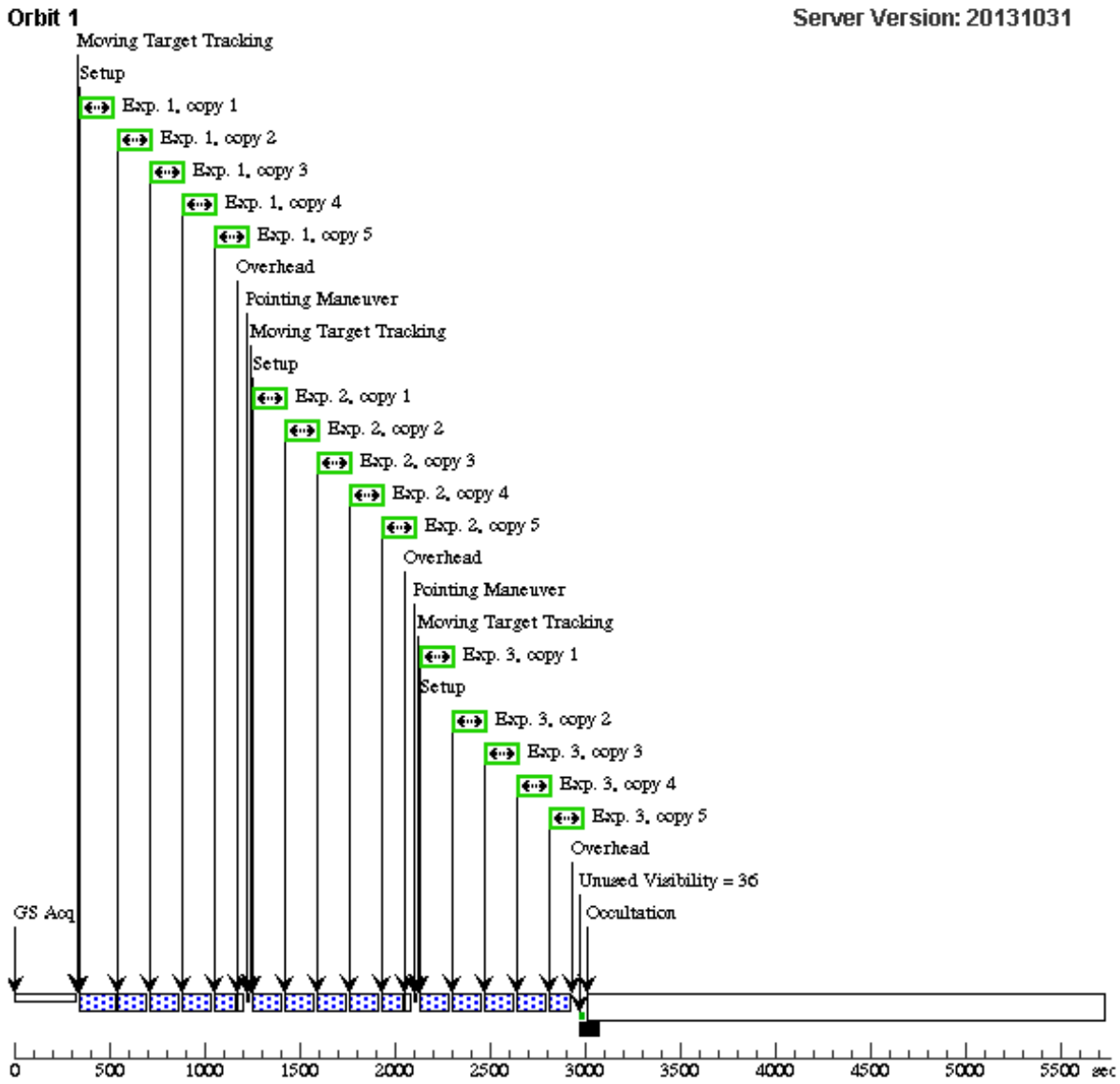
Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(2)	JUPITER-RING-WEST-ANSA	STD=JUPITER	TYPE=TORUS,LONG=90,LAT=0,RAD=126000		SEP OF JUPITER-RING-WEST-ANSA CALLISTO FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA IO FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA EUROPA FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA GANYMEDE FROM EARTH GT 20", SEP OF JUPITER-RING-WEST-ANSA AMALTHEA FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA THEBE FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA ADRASTEA FROM EARTH GT 12", SEP OF JUPITER-RING-WEST-ANSA METIS FROM EARTH GT 12" MOSS Planning Start: 27-OCT-2013 MOSS Planning End: 11-MAR-2014	EARTH

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	5 x 115 sec	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-3 Non-Int in Visit 40	115 Secs X 5 (575 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]*	***[1]***
2	5 x 115 sec	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.171,0.184	Sequence 1-3 Non-Int in Visit 40	115 Secs X 5 (575 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]*	***[1]***
3	5 x 115 sec	(2) JUPITER-RING-WEST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG -0.171,-0.184	Sequence 1-3 Non-Int in Visit 40	115 Secs X 5 (575 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]*	***[1]***

Orbit Structure



Proposal 13414 - Visit 41 - Reading the Record of Cometary Impacts into Jupiter's Rings

Visit

Proposal 13414, Visit 41, withdrawn Thu Dec 12 02:45:01 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 114D TO 140 D; BETWEEN 24-FEB-2014:00:00:00 AND 07-MAR-2014:00:00:00; ON HOLD

Comments: Jovian ring west ansa about two months after opposition, oriented as close as possible to horizontally across the middle of the 512x512 UVIS2 subarray. Jupiter is positioned inside the CCD but outside the subarray. Two dither steps of +/- 4.33 pixels along the x and y axes occur during the visit, potentially providing improved spatial resolution and relocating bad pixels relative to the target. The target is defined to avoid any nearby Jovian satellites.

On Hold Comments: The difference between visits 40 and 41 is that the former position Jupiter outside the CCD, whereas the latter puts Jupiter inside the CCD. We will determine which of these options provides better data based on the results of the first visit.

Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	JUPITER-RING-EAST-ANSA	STD=JUPITER	TYPE=TORUS,LONG=270,LAT=0,RAD=126000		SEP OF JUPITER-RING-EAST-ANSA CALLISTO FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA IO FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA EUROPA FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA GANYMEDE FROM EARTH GT 20", SEP OF JUPITER-RING-EAST-ANSA AMALTHEA FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA THEBE FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA ADRASTEA FROM EARTH GT 12", SEP OF JUPITER-RING-EAST-ANSA METIS FROM EARTH GT 12" MOSS Planning Start: 27-OCT-2013:00:00:00 MOSS Planning End: 11-MAR-2014:00:00:00	EARTH

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	5 x 115 sec	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-3 Non-Int in Visit 41	115 Secs X 5 (575 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]*	 ***[1]***
2	5 x 115 sec	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.171,0.184	Sequence 1-3 Non-Int in Visit 41	115 Secs X 5 (575 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]*	 ***[1]***
3	5 x 115 sec	(1) JUPITER-RING-EAST-ANSA	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG -0.171,-0.184	Sequence 1-3 Non-Int in Visit 41	115 Secs X 5 (575 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]*	 ***[1]***

Orbit Structure