



14666 - Astrometric Light Deflection Test of General Relativity for Non-spherical Bodies: Close Approach to Jupiter

Cycle: 24, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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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-FIELD-1	WFC3/UVIS	1	26-Jul-2017 16:03:09.0	yes
02	(1) JUPITER-FIELD-1	WFC3/UVIS	1	26-Jul-2017 16:03:11.0	yes
03	(2) JUPITER-FIELD-2	WFC3/UVIS	1	26-Jul-2017 16:03:12.0	yes
04	(2) JUPITER-FIELD-2	WFC3/UVIS	1	26-Jul-2017 16:03:14.0	yes
05	(3) JUPITER-FIELD-3	WFC3/UVIS	1	26-Jul-2017 16:03:15.0	yes

<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>
06	(3) JUPITER-FIELD-3	WFC3/UVIS	1	26-Jul-2017 16:03:17.0	yes

6 Total Orbits Used

ABSTRACT

Einstein's theory of General Relativity is a key component of our understanding of cosmology, underlying the interpretation of cosmic acceleration in terms of Dark Energy. Gravitational lensing is a major element of modern observational cosmology, used both in reconstructing the mass distribution of galaxies and clusters of galaxies, and in predicting the magnification of sources behind massive clusters. An astrometric verification of gravitational lensing was historically the first experimental test of General Relativity, yet there has been to date no verification of the deflection predicted for a non-spherical source. We propose to use the astrometric capabilities of WFC3 in spatial scan mode to observe the apparent shift in position of several stars in three separate fields during their near-occultation by Jupiter. These measurements will provide two fundamental tests of General Relativity: (1) one of the most precise light-deflection tests ever conducted, and the most precise in the visible, verifying the GR prediction with a precision of 0.04%, and (2) the first measurement of the differential deflection due to the flattening of Jupiter's gravitational potential, verifying the GR prediction of deflection by a **non-spherical** mass with a precision of 5%.

OBSERVING DESCRIPTION

The proposed observations consist of WFC3/UVIS spatial scans of three target fields, each observed at two separate times: one (near-transit) when Jupiter is very close to the edge of the field, with at least one bright star as close to Jupiter's limb as possible; and the other (off-transit) a few days earlier or later, when Jupiter is several arcminutes away. At that time the light deflection due to Jupiter will be < 200 μ as, and can be predicted to much better than 1 μ as. Each observation will consist of one orbit, with four or five separate scans depending on available visibility, typically conducted in F606W, and as nearly perpendicular to Jupiter's motion as feasible at that time, taking into account the position and motion of the Galilean satellites, so that their trails do not interfere with the target stars. The pointing will be chosen so that Jupiter remains outside the field of view, at a distance of several arcseconds, but that bright target stars are as close as possible to Jupiter, taking into account Earth occultation, SAA passages, and other orbital constraints. Because of the

impact of HST's orbital position on the event timing, it is possible that as accurate HST ephemeris become available, some of the field selections might change.

The program also includes direct observations of the field in two filters, F547M and F467M, using 2x2 binning to reduce constraints due to buffer transfers. These observations will provide initial positions and colors for the stars in the field, and form the first step for the analysis of scan data (Riess et al. 2014, Casertano et al. 2016). The color information will also be useful to constrain the parallax of target stars; very red stars could be nearby, less than a few hundred parsecs from the Sun, in which case they would experience a significant parallactic motion during the observing period, and may need to be excluded from the analysis.

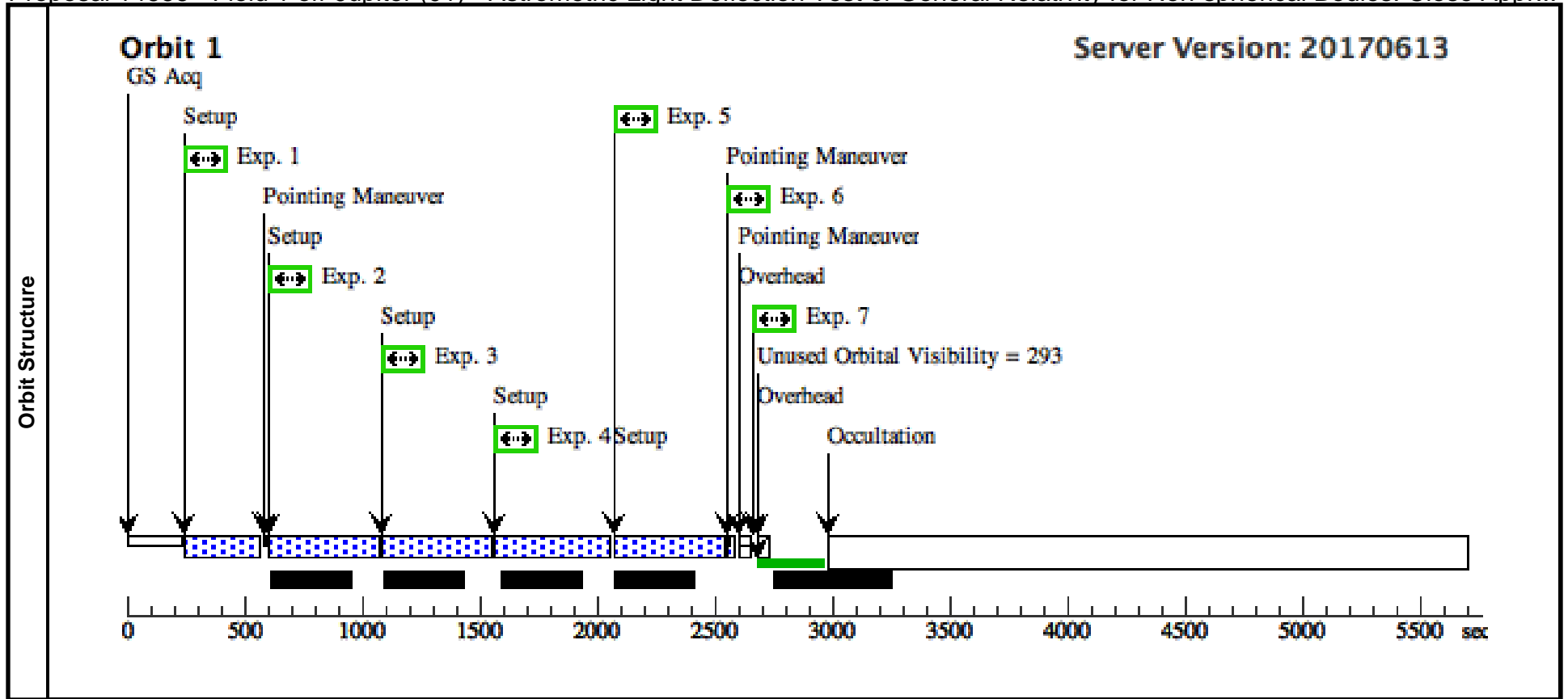
Proposal 14666 - Field 1 off-Jupiter (01) - Astrometric Light Deflection Test of General Relativity for Non-spherical Bodies: Close Appr...

Wed Jul 26 20:03:18 GMT 2017

Visit	<p>Proposal 14666, Field 1 off-Jupiter (01), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: SCHED 100%; ORIENT 300D TO 300 D; BETWEEN 27-MAR-2017:00:00:00 AND 29-MAR-2017:00:00:00; BETWEEN 03-APR-2017:00:00:00 AND 05-APR-2017:00:00:00</p> <p><i>Comments: Visit coordinates updated to match Visit 2 (on-Jupiter) which will execute shortly after Jupiter occultation. ORIENT 300 is chosen for schedulability reasons. The goal is to stay as far away from jupiter as possible, while including the bright stars closest to Jupiter. Execution in the first of the two windows is preferred if possible.</i></p>						
	Diagnostics	<p>(Field 1 off-Jupiter (01)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 1 off-Jupiter (01)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 1 off-Jupiter (01)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 1 off-Jupiter (01)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 1 off-Jupiter (01)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 1 off-Jupiter (01)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 1 off-Jupiter (01)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 1 off-Jupiter (01)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE</p> <p>(Exposure 1 (Same Obset in Sequence 1-7 Non-Int in Field 1 off-Jupiter (01))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 2 (Same Obset in Sequence 1-7 Non-Int in Field 1 off-Jupiter (01))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 3 (Same Obset in Sequence 1-7 Non-Int in Field 1 off-Jupiter (01))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 6 (Same Obset in Sequence 1-7 Non-Int in Field 1 off-Jupiter (01))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 7 (Same Obset in Sequence 1-7 Non-Int in Field 1 off-Jupiter (01))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>					
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)		JUPITER-FIELD-1	RA: 13 12 10.1793 (198.0424137d) Dec: -05 55 58.55 (-5.93293d) Equinox: J2000		V=13+/-1	Reference Frame: ICRS	

Proposal 14666 - Field 1 off-Jupiter (01) - Astrometric Light Deflection Test of General Relativity for Non-spherical Bodies: Close Appr...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(1) JUPITER-FIELD -1	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W		POS TARG -8,-120; SPATIAL SCAN 0.8 ,90.05 Degrees,Forward; MAX DUR 175.0 S; GS ACQ SCENARIO SINGLE	Sequence 1-7 Non-Int in Field 1 off-Jupiter (01) Same Obset in Sequence 1-7 Non-Int in Field 1 off-Jupiter (01)	175 Secs (175 Secs) [==>]	[1]
	2	(1) JUPITER-FIELD -1	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W		POS TARG -8,-120; SPATIAL SCAN 0.4 ,90.05 Degrees,Reverse; MAX DUR 350.0 S	Sequence 1-7 Non-Int in Field 1 off-Jupiter (01) Same Obset in Sequence 1-7 Non-Int in Field 1 off-Jupiter (01)	350 Secs (350 Secs) [==>]	[1]
	3	(1) JUPITER-FIELD -1	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W		POS TARG -8,-120; SPATIAL SCAN 0.4 ,90.05 Degrees,Forward; MAX DUR 350.0 S	Sequence 1-7 Non-Int in Field 1 off-Jupiter (01) Same Obset in Sequence 1-7 Non-Int in Field 1 off-Jupiter (01)	350 Secs (350 Secs) [==>]	[1]
	4	(1) JUPITER-FIELD -1	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W		POS TARG -8,-120; SPATIAL SCAN 0.4 ,90.05 Degrees,Reverse; MAX DUR 350.0 S	Sequence 1-7 Non-Int in Field 1 off-Jupiter (01) Same Obset in Sequence 1-7 Non-Int in Field 1 off-Jupiter (01)	350 Secs (350 Secs) [==>]	[1]
	5	(1) JUPITER-FIELD -1	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W		POS TARG -8,-120; SPATIAL SCAN 0.4 ,90.05 Degrees,Forward; MAX DUR 350.0 S	Sequence 1-7 Non-Int in Field 1 off-Jupiter (01) Same Obset in Sequence 1-7 Non-Int in Field 1 off-Jupiter (01)	350 Secs (350 Secs) [==>]	[1]
	6	(1) JUPITER-FIELD -1	WFC3/UVIS, ACCUM, UVIS-CENTER	F547M	BIN=2	POS TARG -8,+20; MAX DUR 15.0 S	Sequence 1-7 Non-Int in Field 1 off-Jupiter (01) Same Obset in Sequence 1-7 Non-Int in Field 1 off-Jupiter (01)	10 Secs (10 Secs) [==>]	[1]
	7	(1) JUPITER-FIELD -1	WFC3/UVIS, ACCUM, UVIS-CENTER	F547M	BIN=2	POS TARG -8,-120; MAX DUR 15.0 S	Sequence 1-7 Non-Int in Field 1 off-Jupiter (01) Same Obset in Sequence 1-7 Non-Int in Field 1 off-Jupiter (01)	10 Secs (10 Secs) [==>]	[1]



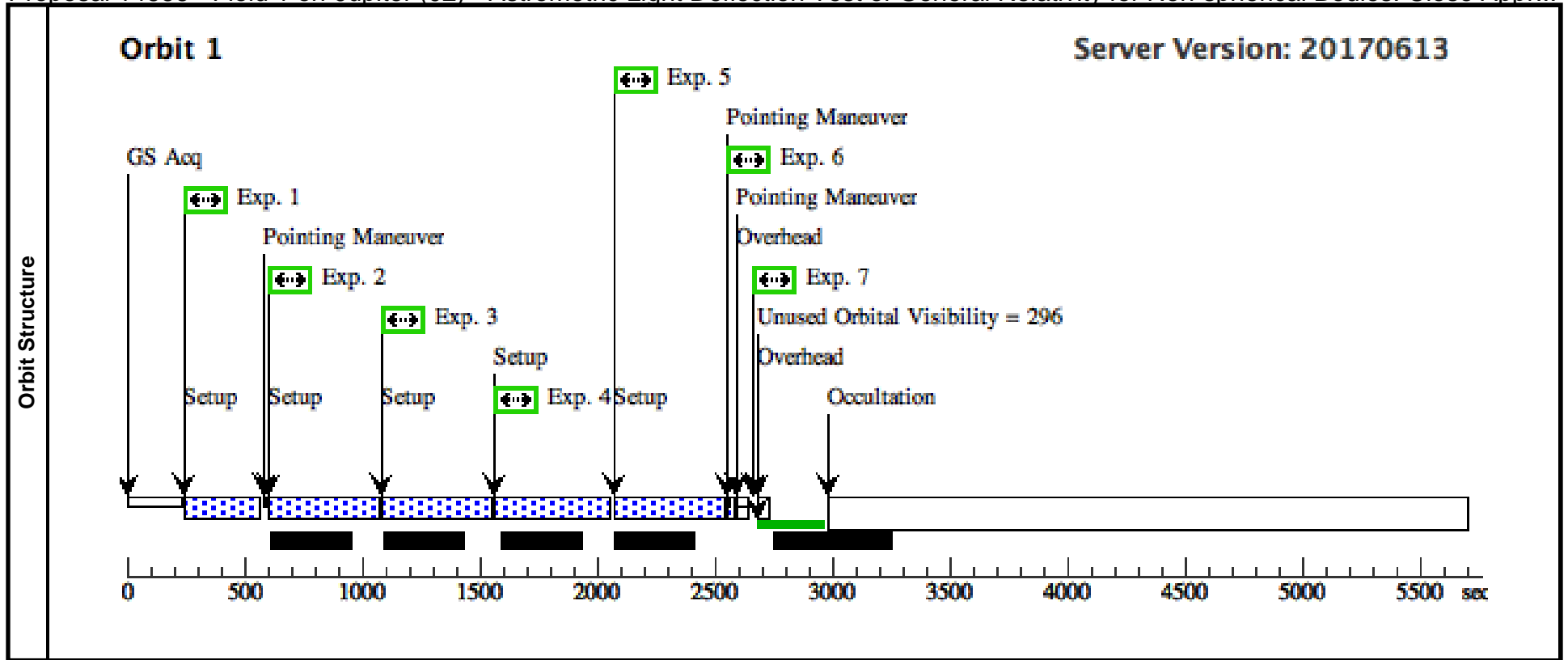
Proposal 14666 - Field 1 on-Jupiter (02) - Astrometric Light Deflection Test of General Relativity for Non-spherical Bodies: Close Appr...

Wed Jul 26 20:03:19 GMT 2017

Visit	<p>Proposal 14666, Field 1 on-Jupiter (02), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: SCHED 100%; SAME ORIENT AS 01; BETWEEN 01-APR-2017:04:00:00 AND 01-APR-2017:06:00:00</p> <p><i>Comments: This visit is expected to occur in the visibility period 2017.091:04:33:58- 2017.091:05:32:29. This is shortly after Jupiter crosses the target area. Jupiter center at 2017.091:04:35:00 is 13 12 02.88 -05 55 37.8 (from the JPL Ephemeris) with an angular diameter of 44.2 arcsec.</i></p> <p><i>With the current settings, it is expected that the edge of Jupiter will be approximately 8 arcsec off the field of view at the beginning of the visibility period, increasing by an additional 15 arcsec by the end of the exposure. These settings are chosen to reduce light contamination, raised as a potential issue during proposal review. The orient of 300 is chosen for schedulability considerations; only single GS is available at the selected ORIENT and POS TARGs. Coordinates may be slightly updated if HST ephemeris changes visibility period by more than 2 minutes.</i></p>						
	Diagnostics	<p>(Field 1 on-Jupiter (02)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 1 on-Jupiter (02)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 1 on-Jupiter (02)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 1 on-Jupiter (02)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 1 on-Jupiter (02)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 1 on-Jupiter (02)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 1 on-Jupiter (02)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 1 on-Jupiter (02)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE</p> <p>(Exposure 1 (Same Obset in Sequence 1-7 Non-Int in Field 1 on-Jupiter (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 2 (Same Obset in Sequence 1-7 Non-Int in Field 1 on-Jupiter (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 3 (Same Obset in Sequence 1-7 Non-Int in Field 1 on-Jupiter (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 6 (Same Obset in Sequence 1-7 Non-Int in Field 1 on-Jupiter (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 7 (Same Obset in Sequence 1-7 Non-Int in Field 1 on-Jupiter (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>					
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(1) JUPITER-FIELD -1	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W		POS TARG -8,-120; SPATIAL SCAN 0.8 ,90.05 Degrees,Forward; MAX DUR 175.0 S; GS ACQ SCENARIO SINGLE	Sequence 1-7 Non-Int in Field 1 on-Jupiter (02) Same Obset in Sequence 1-7 Non-Int in Field 1 on-Jupiter (02)	175 Secs (175 Secs) [==>]	[1]
	2	(1) JUPITER-FIELD -1	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W		POS TARG -8,-120; SPATIAL SCAN 0.4 ,90.05 Degrees,Reverse; MAX DUR 350.0 S	Sequence 1-7 Non-Int in Field 1 on-Jupiter (02) Same Obset in Sequence 1-7 Non-Int in Field 1 on-Jupiter (02)	350 Secs (350 Secs) [==>]	[1]
	3	(1) JUPITER-FIELD -1	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W		POS TARG -8,-120; SPATIAL SCAN 0.4 ,90.05 Degrees,Forward; MAX DUR 350.0 S	Sequence 1-7 Non-Int in Field 1 on-Jupiter (02) Same Obset in Sequence 1-7 Non-Int in Field 1 on-Jupiter (02)	350 Secs (350 Secs) [==>]	[1]
	4	(1) JUPITER-FIELD -1	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W		POS TARG -8,-120; SPATIAL SCAN 0.4 ,90.05 Degrees,Reverse; MAX DUR 350.0 S	Sequence 1-7 Non-Int in Field 1 on-Jupiter (02) Same Obset in Sequence 1-7 Non-Int in Field 1 on-Jupiter (02)	350 Secs (350 Secs) [==>]	[1]
	5	(1) JUPITER-FIELD -1	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W		POS TARG -8,-120; SPATIAL SCAN 0.4 ,90.05 Degrees,Forward; MAX DUR 350.0 S	Sequence 1-7 Non-Int in Field 1 on-Jupiter (02) Same Obset in Sequence 1-7 Non-Int in Field 1 on-Jupiter (02)	350 Secs (350 Secs) [==>]	[1]
	6	(1) JUPITER-FIELD -1	WFC3/UVIS, ACCUM, UVIS-CENTER	F467M	BIN=2	POS TARG -8,+20; MAX DUR 15.0 S	Sequence 1-7 Non-Int in Field 1 on-Jupiter (02) Same Obset in Sequence 1-7 Non-Int in Field 1 on-Jupiter (02)	10 Secs (10 Secs) [==>]	[1]
	7	(1) JUPITER-FIELD -1	WFC3/UVIS, ACCUM, UVIS-CENTER	F467M	BIN=2	POS TARG -8,-120; MAX DUR 15.0 S	Sequence 1-7 Non-Int in Field 1 on-Jupiter (02) Same Obset in Sequence 1-7 Non-Int in Field 1 on-Jupiter (02)	10 Secs (10 Secs) [==>]	[1]



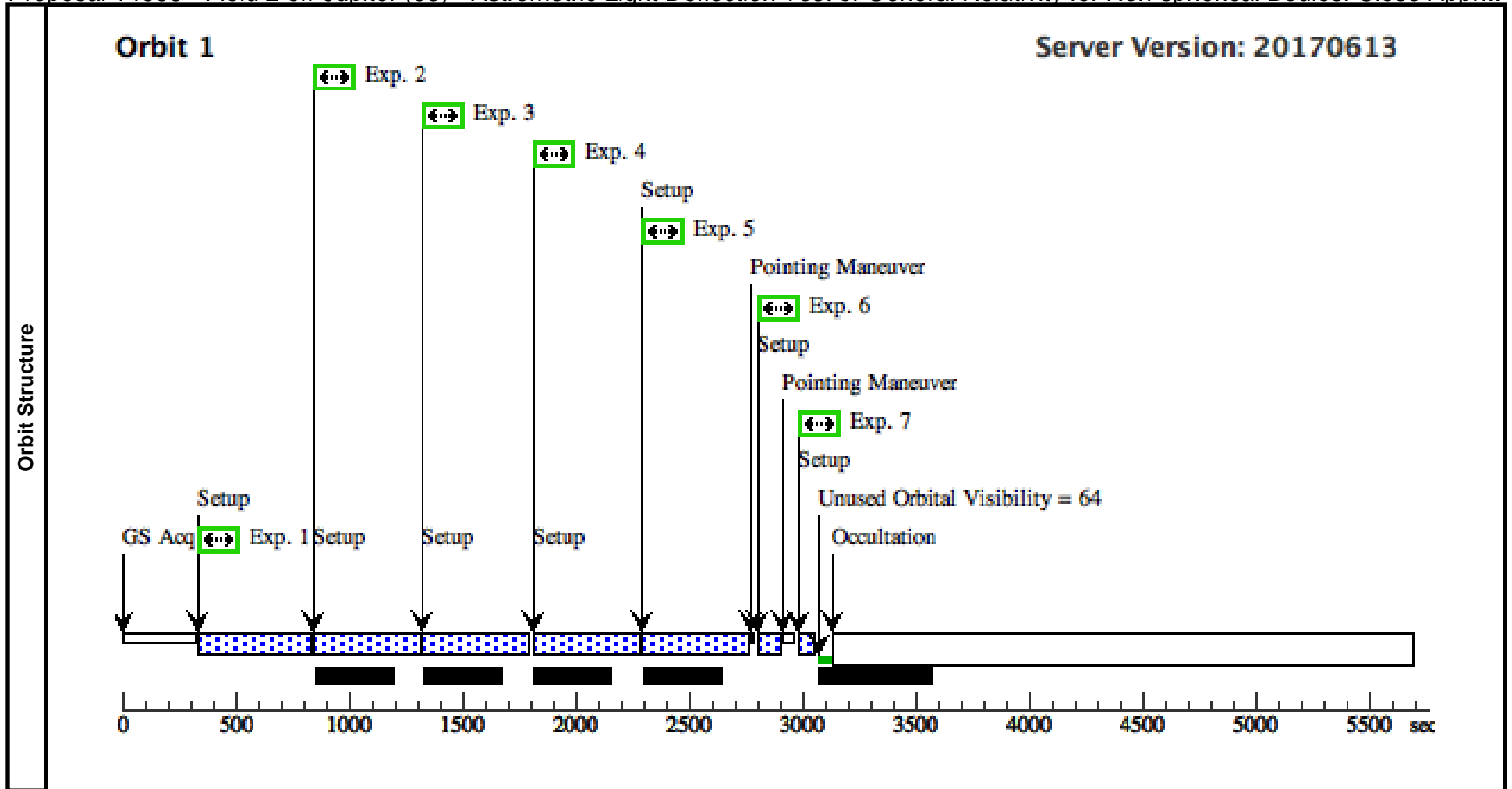
Proposal 14666 - Field 2 off-Jupiter (03) - Astrometric Light Deflection Test of General Relativity for Non-spherical Bodies: Close Appr...

Wed Jul 26 20:03:19 GMT 2017

Visit	<p>Proposal 14666, Field 2 off-Jupiter (03), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: SCHED 50%; SAME ORIENT AS 04; BETWEEN 21-MAY-2017:00:00:00 AND 24-MAY-2017:00:00:00; BETWEEN 13-MAY-2017:00:00:00 AND 15-MAY-2017:00:00:00</p> <p><i>Comments: This visit targets the same field as Visit 4, but a few days before or after Jupiter crosses the star field. It needs to occur at least 2 days before or after Visit 4, as given in the Between requirements. and at the same Orient, as specified in the visit orientation requirements.</i></p>																
	Diagnostics	<p>(Field 2 off-Jupiter (03)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 2 off-Jupiter (03)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 2 off-Jupiter (03)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 2 off-Jupiter (03)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 2 off-Jupiter (03)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 2 off-Jupiter (03)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 2 off-Jupiter (03)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Exposure 6 (Same Obset in Sequence 1-7 Non-Int in Field 2 off-Jupiter (03))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 7 (Same Obset in Sequence 1-7 Non-Int in Field 2 off-Jupiter (03))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>															
Fixed Targets		<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>JUPITER-FIELD-2</td> <td>RA: 12 52 45.8000 (193.1908333d) Dec: -04 02 14.60 (-4.03739d) Equinox: J2000</td> <td></td> <td>V=12+/-1</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Magnitude of brightest star in the field</i></p>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	JUPITER-FIELD-2	RA: 12 52 45.8000 (193.1908333d) Dec: -04 02 14.60 (-4.03739d) Equinox: J2000		V=12+/-1
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(2)	JUPITER-FIELD-2	RA: 12 52 45.8000 (193.1908333d) Dec: -04 02 14.60 (-4.03739d) Equinox: J2000		V=12+/-1	Reference Frame: ICRS												

Proposal 14666 - Field 2 off-Jupiter (03) - Astrometric Light Deflection Test of General Relativity for Non-spherical Bodies: Close Appr...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(2) JUPITER-FIELD -2	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W		POS TARG -3,-72; SPATIAL SCAN 0.4 ,90.05 Degrees,Forward	Sequence 1-7 Non-Int in Field 2 off-Jupiter (03) Same Obset in Sequence 1-7 Non-Int in Field 2 off-Jupiter (03)	350 Secs (350 Secs) [==>]	[1]
	2	(2) JUPITER-FIELD -2	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W		POS TARG -3,-72; SPATIAL SCAN 0.4 ,90.05 Degrees,Reverse	Sequence 1-7 Non-Int in Field 2 off-Jupiter (03) Same Obset in Sequence 1-7 Non-Int in Field 2 off-Jupiter (03)	350 Secs (350 Secs) [==>]	[1]
	3	(2) JUPITER-FIELD -2	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W		POS TARG -3,-72; SPATIAL SCAN 0.4 ,90.05 Degrees,Forward	Sequence 1-7 Non-Int in Field 2 off-Jupiter (03) Same Obset in Sequence 1-7 Non-Int in Field 2 off-Jupiter (03)	350 Secs (350 Secs) [==>]	[1]
	4	(2) JUPITER-FIELD -2	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W		POS TARG -3,-72; SPATIAL SCAN 0.4 ,90.05 Degrees,Reverse	Sequence 1-7 Non-Int in Field 2 off-Jupiter (03) Same Obset in Sequence 1-7 Non-Int in Field 2 off-Jupiter (03)	350 Secs (350 Secs) [==>]	[1]
	5	(2) JUPITER-FIELD -2	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W		POS TARG -3,-72; SPATIAL SCAN 0.4 ,90.05 Degrees,Forward	Sequence 1-7 Non-Int in Field 2 off-Jupiter (03) Same Obset in Sequence 1-7 Non-Int in Field 2 off-Jupiter (03)	350 Secs (350 Secs) [==>]	[1]
	6	(2) JUPITER-FIELD -2	WFC3/UVIS, ACCUM, UVIS-CENTER	F547M	BIN=2	POS TARG -3,+72; SPATIAL SCAN 0.4 ,90.05 Degrees,Reverse	Sequence 1-7 Non-Int in Field 2 off-Jupiter (03) Same Obset in Sequence 1-7 Non-Int in Field 2 off-Jupiter (03)	10 Secs (10 Secs) [==>]	[1]
	7	(2) JUPITER-FIELD -2	WFC3/UVIS, ACCUM, UVIS-CENTER	F547M	BIN=2	POS TARG -3,-72; SPATIAL SCAN 0.4 ,90.05 Degrees,Reverse	Sequence 1-7 Non-Int in Field 2 off-Jupiter (03) Same Obset in Sequence 1-7 Non-Int in Field 2 off-Jupiter (03)	10 Secs (10 Secs) [==>]	[1]



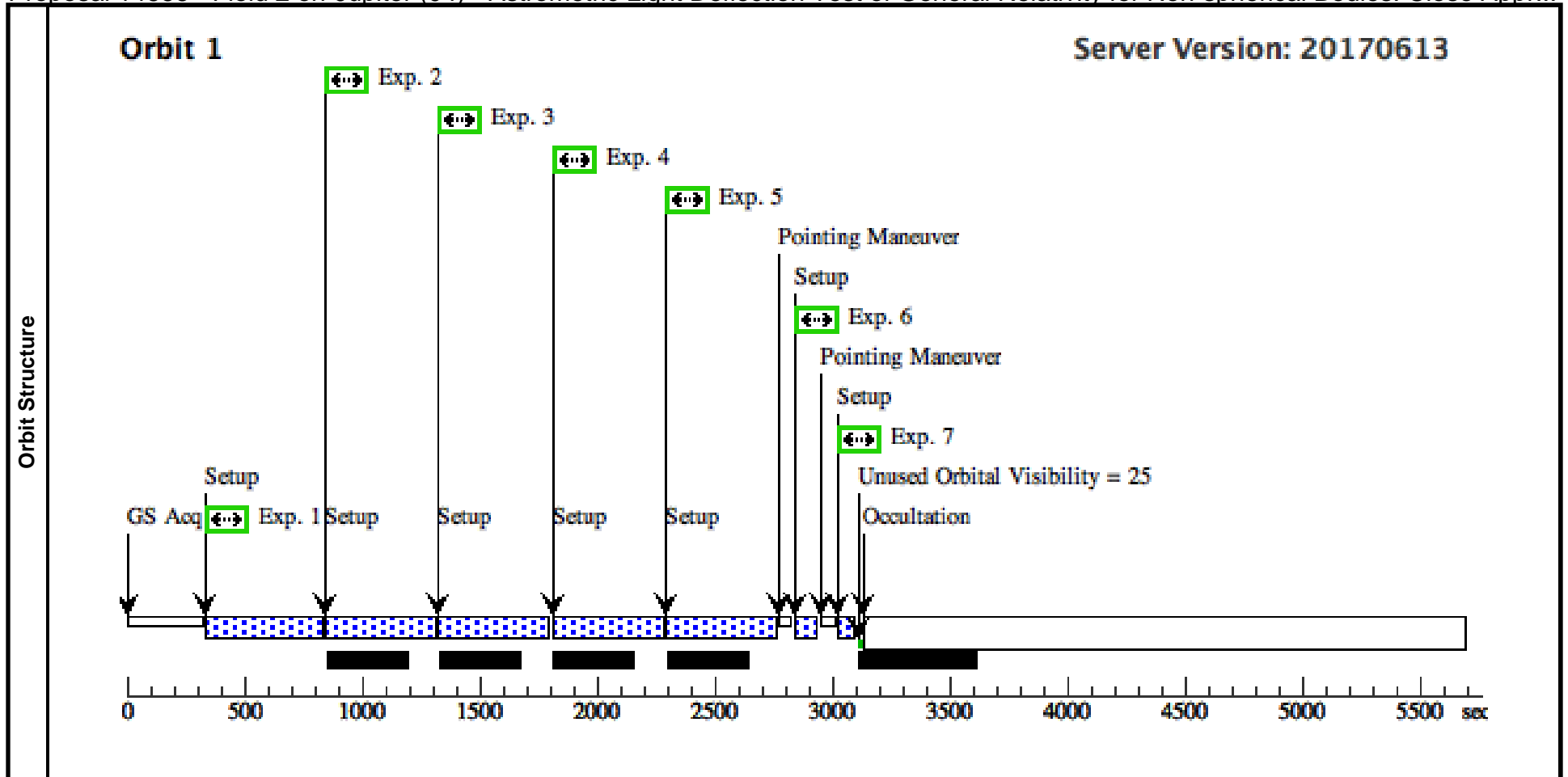
Proposal 14666 - Field 2 on-Jupiter (04) - Astrometric Light Deflection Test of General Relativity for Non-spherical Bodies: Close Appr...

Wed Jul 26 20:03:19 GMT 2017

Visit	<p>Proposal 14666, Field 2 on-Jupiter (04), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: SCHED 50%; ORIENT 130D TO 130 D; BETWEEN 17-MAY-2017:00:12:30 AND 17-MAY-2017:16:00:00</p> <p><i>Comments: This visit targets a star field just before Jupiter crosses it, on May 17, 2017. The visit will optimally be executed on May 17 in the last visibility period available before the SAA impact, ending about 15:52 UT (this is an SAA hider). If necessary, it can execute the previous orbit. It cannot execute any later than May 17 at 18:00 UT, otherwise Jupiter will be too close to the field of view. The ORIENT has been chosen to optimize the placement of the bright stars in the field on the detector.</i></p>																
	Diagnostics	<p>(Field 2 on-Jupiter (04)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 2 on-Jupiter (04)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 2 on-Jupiter (04)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 2 on-Jupiter (04)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 2 on-Jupiter (04)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 2 on-Jupiter (04)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 2 on-Jupiter (04)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Exposure 6 (Same Obset in Sequence 1-7 Non-Int in Field 2 on-Jupiter (04))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 7 (Same Obset in Sequence 1-7 Non-Int in Field 2 on-Jupiter (04))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>															
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	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
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Proposal 14666 - Field 2 on-Jupiter (04) - Astrometric Light Deflection Test of General Relativity for Non-spherical Bodies: Close Appr...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) JUPITER-FIELD-2	(2) JUPITER-FIELD-2	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W		POS TARG -3,-72; SPATIAL SCAN 0.4 ,90.05 Degrees,Forward	Sequence 1-7 Non-Int in Field 2 on-Jupiter (04) Same Obset in Sequence 1-7 Non-Int in Field 2 on-Jupiter (04)	350 Secs (350 Secs) [==>]	[1]
	2	(2) JUPITER-FIELD-2	(2) JUPITER-FIELD-2	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W		POS TARG -3,-72; SPATIAL SCAN 0.4 ,90.05 Degrees,Reverse	Sequence 1-7 Non-Int in Field 2 on-Jupiter (04) Same Obset in Sequence 1-7 Non-Int in Field 2 on-Jupiter (04)	350 Secs (350 Secs) [==>]	[1]
	3	(2) JUPITER-FIELD-2	(2) JUPITER-FIELD-2	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W		POS TARG -3,-72; SPATIAL SCAN 0.4 ,90.05 Degrees,Forward	Sequence 1-7 Non-Int in Field 2 on-Jupiter (04) Same Obset in Sequence 1-7 Non-Int in Field 2 on-Jupiter (04)	350 Secs (350 Secs) [==>]	[1]
	4	(2) JUPITER-FIELD-2	(2) JUPITER-FIELD-2	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W		POS TARG -3,-72; SPATIAL SCAN 0.4 ,90.05 Degrees,Reverse	Sequence 1-7 Non-Int in Field 2 on-Jupiter (04) Same Obset in Sequence 1-7 Non-Int in Field 2 on-Jupiter (04)	350 Secs (350 Secs) [==>]	[1]
	5	(2) JUPITER-FIELD-2	(2) JUPITER-FIELD-2	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W		POS TARG -3,-72; SPATIAL SCAN 0.4 ,90.05 Degrees,Forward	Sequence 1-7 Non-Int in Field 2 on-Jupiter (04) Same Obset in Sequence 1-7 Non-Int in Field 2 on-Jupiter (04)	350 Secs (350 Secs) [==>]	[1]
	6	(2) JUPITER-FIELD-2	(2) JUPITER-FIELD-2	WFC3/UVIS, ACCUM, UVIS-CENTER	F467M	BIN=2	POS TARG -3,-72; SPATIAL SCAN 0.4 ,90.05 Degrees,Reverse	Sequence 1-7 Non-Int in Field 2 on-Jupiter (04) Same Obset in Sequence 1-7 Non-Int in Field 2 on-Jupiter (04)	10 Secs (10 Secs) [==>]	[1]
	7	(2) JUPITER-FIELD-2	(2) JUPITER-FIELD-2	WFC3/UVIS, ACCUM, UVIS-CENTER	F467M	BIN=2	POS TARG -3,+72; SPATIAL SCAN 0.4 ,90.05 Degrees,Reverse	Sequence 1-7 Non-Int in Field 2 on-Jupiter (04) Same Obset in Sequence 1-7 Non-Int in Field 2 on-Jupiter (04)	10 Secs (10 Secs) [==>]	[1]



Proposal 14666 - Field 3 off-Jupiter (05) - Astrometric Light Deflection Test of General Relativity for Non-spherical Bodies: Close Appr...

Wed Jul 26 20:03:19 GMT 2017

Visit	<p>Proposal 14666, Field 3 off-Jupiter (05), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: SCHED 50%; ORIENT 110D TO 112 D; BETWEEN 19-AUG-2017:00:00:00 AND 20-AUG-2017:00:00:00; BETWEEN 14-AUG-2017:00:00:00 AND 15-AUG-2017:00:00:00; ON HOLD</p> <p><i>Comments: Update to Visit 5 based on SAA passages. Impacted time on 2017.228 (August 16) starts at 15:00. This is the Jupiter off-visit, thus can execute before or after that time.</i></p> <p><i>On Hold Comments: Requires updated HST ephemeris with better than 5 min knowledge of start and end of visibility period in order to optimize timing and orientation of observations.</i></p>																
	<p>(Field 3 off-Jupiter (05)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 3 off-Jupiter (05)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 3 off-Jupiter (05)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 3 off-Jupiter (05)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 3 off-Jupiter (05)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 3 off-Jupiter (05)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 3 off-Jupiter (05)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Exposure 6 (Same Obset in Sequence 1-9 Non-Int in Field 3 off-Jupiter (05))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 7 (Same Obset in Sequence 1-9 Non-Int in Field 3 off-Jupiter (05))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 8 (Same Obset in Sequence 1-9 Non-Int in Field 3 off-Jupiter (05))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 9 (Same Obset in Sequence 1-9 Non-Int in Field 3 off-Jupiter (05))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>																
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	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(3)	JUPITER-FIELD-3	RA: 13 12 18.9600 (198.0790000d) Dec: -06 25 12.00 (-6.42000d) Equinox: J2000		V=13+/-1	Reference Frame: ICRS												

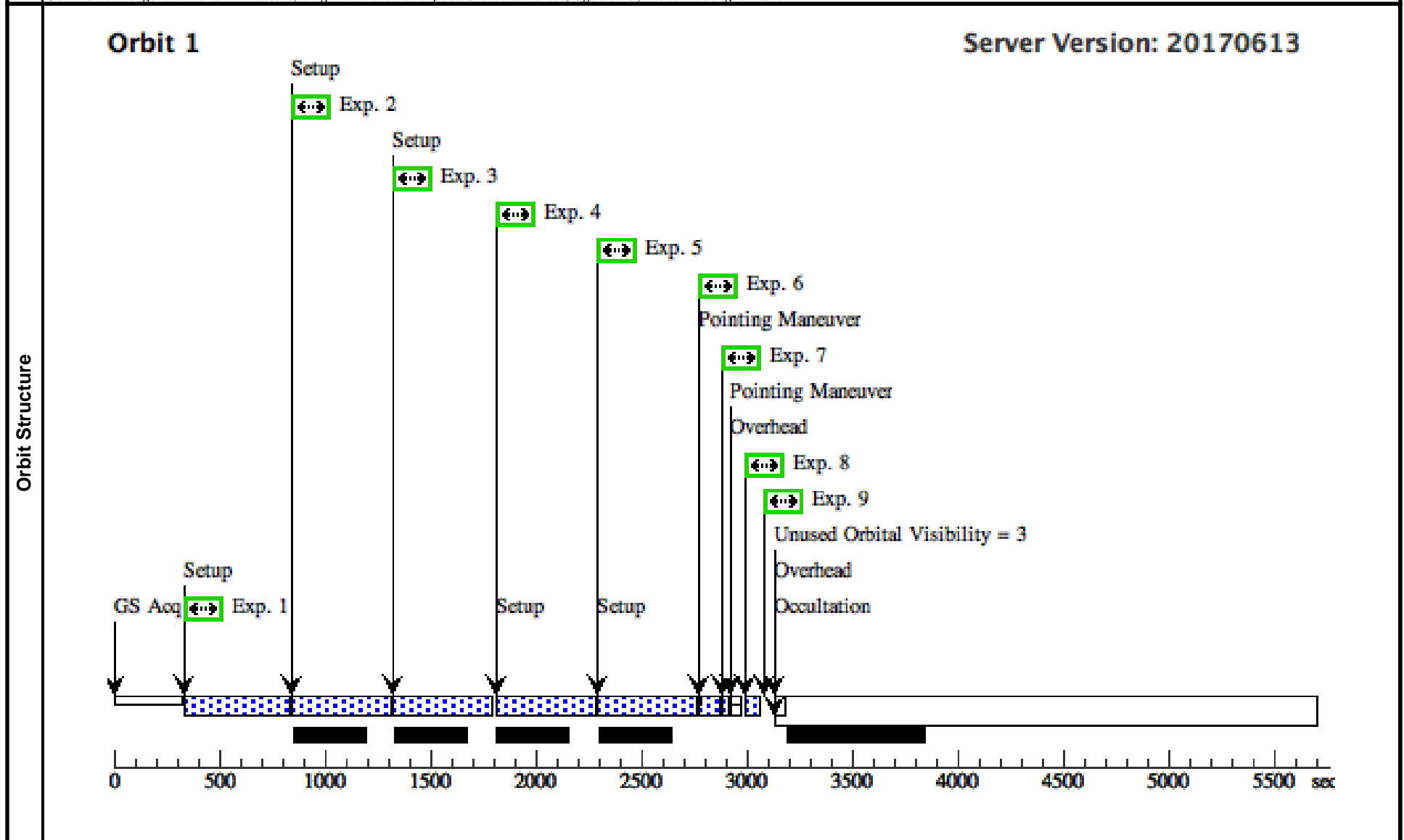
Proposal 14666 - Field 3 off-Jupiter (05) - Astrometric Light Deflection Test of General Relativity for Non-spherical Bodies: Close Appr...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	(3) JUPITER-FIELD -3	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W		POS TARG -3,-72; SPATIAL SCAN 0.4 ,90.05 Degrees,Forward	Sequence 1-9 Non-Int in Field 3 off-Jupiter (05) Same Obset in Sequence 1-9 Non-Int in Field 3 off-Jupiter (05)	350 Secs (350 Secs) [==>]	[1]	
	2	(3) JUPITER-FIELD -3	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W		POS TARG -3,-72; SPATIAL SCAN 0.4 ,90.05 Degrees,Reverse	Sequence 1-9 Non-Int in Field 3 off-Jupiter (05) Same Obset in Sequence 1-9 Non-Int in Field 3 off-Jupiter (05)	350 Secs (350 Secs) [==>]	[1]	
	3	(3) JUPITER-FIELD -3	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W		POS TARG -3,-72; SPATIAL SCAN 0.4 ,90.05 Degrees,Forward	Sequence 1-9 Non-Int in Field 3 off-Jupiter (05) Same Obset in Sequence 1-9 Non-Int in Field 3 off-Jupiter (05)	350 Secs (350 Secs) [==>]	[1]	
	4	(3) JUPITER-FIELD -3	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W		POS TARG -3,-72; SPATIAL SCAN 0.4 ,90.05 Degrees,Reverse	Sequence 1-9 Non-Int in Field 3 off-Jupiter (05) Same Obset in Sequence 1-9 Non-Int in Field 3 off-Jupiter (05)	350 Secs (350 Secs) [==>]	[1]	
	5	(3) JUPITER-FIELD -3	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W		POS TARG -3,-72; SPATIAL SCAN 0.4 ,90.05 Degrees,Forward	Sequence 1-9 Non-Int in Field 3 off-Jupiter (05) Same Obset in Sequence 1-9 Non-Int in Field 3 off-Jupiter (05)	350 Secs (350 Secs) [==>]	[1]	
	6	(3) JUPITER-FIELD -3	WFC3/UVIS, ACCUM, UVIS-CENTER	F547M	BIN=2	POS TARG -3,+72	Sequence 1-9 Non-Int in Field 3 off-Jupiter (05) Same Obset in Sequence 1-9 Non-Int in Field 3 off-Jupiter (05)	8 Secs (8 Secs) [==>]	[1]	
	<i>Comments: Target stars are intrinsically bright and are not expected to be adversely affected by the low background level.</i>									
	7	(3) JUPITER-FIELD -3	WFC3/UVIS, ACCUM, UVIS-CENTER	F467M	BIN=2	POS TARG -3,+72	Sequence 1-9 Non-Int in Field 3 off-Jupiter (05) Same Obset in Sequence 1-9 Non-Int in Field 3 off-Jupiter (05)	10 Secs (10 Secs) [==>]	[1]	
<i>Comments: Target stars are intrinsically bright and are not expected to be adversely affected by the low background level.</i>										
8	(3) JUPITER-FIELD -3	WFC3/UVIS, ACCUM, UVIS-CENTER	F467M	BIN=2	POS TARG -3,-72	Sequence 1-9 Non-Int in Field 3 off-Jupiter (05) Same Obset in Sequence 1-9 Non-Int in Field 3 off-Jupiter (05)	10 Secs (10 Secs) [==>]	[1]		
<i>Comments: Target stars are intrinsically bright and are not expected to be adversely affected by the low background level.</i>										

Proposal 14666 - Field 3 off-Jupiter (05) - Astrometric Light Deflection Test of General Relativity for Non-spherical Bodies: Close Appr...

9	(3) JUPITER-FIELD -3	WFC3/UVIS, ACCUM, UVIS-CENTER	F547M	BIN=2	POS TARG -3,-72	Sequence 1-9 Non-Int in Field 3 off-Jupite r (05) Same Obset in Seque nce 1-9 Non-Int in Fi eld 3 off-Jupiter (05)	8 Secs (8 Secs) [==>]	[1]
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Comments: Target stars are intrinsically bright and are not expected to be adversely affected by the low background level.



Proposal 14666 - Field 3 on-Jupiter (06) - Astrometric Light Deflection Test of General Relativity for Non-spherical Bodies: Close Appr...

Wed Jul 26 20:03:19 GMT 2017

Visit	<p>Proposal 14666, Field 3 on-Jupiter (06), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: SCHED 50%; SAME ORIENT AS 05; BETWEEN 16-AUG-2017:12:00:00 AND 16-AUG-2017:14:20:00; ON HOLD</p> <p><i>Comments: Update to Visit 6 based on SAA passages. Impacted time on 2017.228 (August 16) starts at 15:00. This is the Jupiter on-visit, thus must execute at the specified time.</i></p> <p><i>On Hold Comments: Requires updated HST ephemeris with better than 5 min knowledge of start and end of visibility period in order to optimize timing and orientation of observations.</i></p>					
	<p>(Field 3 on-Jupiter (06)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 3 on-Jupiter (06)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 3 on-Jupiter (06)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 3 on-Jupiter (06)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 3 on-Jupiter (06)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 3 on-Jupiter (06)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Field 3 on-Jupiter (06)) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Exposure 6 (Same Obset in Sequence 1-9 Non-Int in Field 3 on-Jupiter (06))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 7 (Same Obset in Sequence 1-9 Non-Int in Field 3 on-Jupiter (06))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 8 (Same Obset in Sequence 1-9 Non-Int in Field 3 on-Jupiter (06))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 9 (Same Obset in Sequence 1-9 Non-Int in Field 3 on-Jupiter (06))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	JUPITER-FIELD-3	RA: 13 12 18.9600 (198.0790000d) Dec: -06 25 12.00 (-6.42000d) Equinox: J2000		V=13+/-1	Reference Frame: ICRS

Proposal 14666 - Field 3 on-Jupiter (06) - Astrometric Light Deflection Test of General Relativity for Non-spherical Bodies: Close Appr...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	(3) JUPITER-FIELD -3	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W		POS TARG -3,-72; SPATIAL SCAN 0.4 ,90.05 Degrees,Forward	Sequence 1-9 Non-Int in Field 3 on-Jupiter (06) Same Obset in Sequence 1-9 Non-Int in Field 3 on-Jupiter (06)	350 Secs (350 Secs) [==>]	[1]	
	2	(3) JUPITER-FIELD -3	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W		POS TARG -3,-72; SPATIAL SCAN 0.4 ,90.05 Degrees,Reverse	Sequence 1-9 Non-Int in Field 3 on-Jupiter (06) Same Obset in Sequence 1-9 Non-Int in Field 3 on-Jupiter (06)	350 Secs (350 Secs) [==>]	[1]	
	3	(3) JUPITER-FIELD -3	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W		POS TARG -3,-72; SPATIAL SCAN 0.4 ,90.05 Degrees,Forward	Sequence 1-9 Non-Int in Field 3 on-Jupiter (06) Same Obset in Sequence 1-9 Non-Int in Field 3 on-Jupiter (06)	350 Secs (350 Secs) [==>]	[1]	
	4	(3) JUPITER-FIELD -3	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W		POS TARG -3,-72; SPATIAL SCAN 0.4 ,90.05 Degrees,Reverse	Sequence 1-9 Non-Int in Field 3 on-Jupiter (06) Same Obset in Sequence 1-9 Non-Int in Field 3 on-Jupiter (06)	350 Secs (350 Secs) [==>]	[1]	
	5	(3) JUPITER-FIELD -3	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W		POS TARG -3,-72; SPATIAL SCAN 0.4 ,90.05 Degrees,Forward	Sequence 1-9 Non-Int in Field 3 on-Jupiter (06) Same Obset in Sequence 1-9 Non-Int in Field 3 on-Jupiter (06)	350 Secs (350 Secs) [==>]	[1]	
	6	(3) JUPITER-FIELD -3	WFC3/UVIS, ACCUM, UVIS-CENTER	F467M	BIN=2	POS TARG -3,+72	Sequence 1-9 Non-Int in Field 3 on-Jupiter (06) Same Obset in Sequence 1-9 Non-Int in Field 3 on-Jupiter (06)	10 Secs (10 Secs) [==>]	[1]	
	<i>Comments: Target stars are intrinsically bright and are not expected to be adversely affected by the low background level. The background in this image will actually be abnormally high because of the proximity of Jupiter.</i>									
	7	(3) JUPITER-FIELD -3	WFC3/UVIS, ACCUM, UVIS-CENTER	F547M	BIN=2	POS TARG -3,+72	Sequence 1-9 Non-Int in Field 3 on-Jupiter (06) Same Obset in Sequence 1-9 Non-Int in Field 3 on-Jupiter (06)	8 Secs (8 Secs) [==>]	[1]	
<i>Comments: Target stars are intrinsically bright and are not expected to be adversely affected by the low background level. The background in this image will actually be abnormally high because of the proximity of Jupiter.</i>										
8	(3) JUPITER-FIELD -3	WFC3/UVIS, ACCUM, UVIS-CENTER	F547M	BIN=2	POS TARG -3,-72	Sequence 1-9 Non-Int in Field 3 on-Jupiter (06) Same Obset in Sequence 1-9 Non-Int in Field 3 on-Jupiter (06)	8 Secs (8 Secs) [==>]	[1]		
<i>Comments: Target stars are intrinsically bright and are not expected to be adversely affected by the low background level. The background in this image will actually be abnormally high because of the proximity of Jupiter.</i>										

Proposal 14666 - Field 3 on-Jupiter (06) - Astrometric Light Deflection Test of General Relativity for Non-spherical Bodies: Close Appr...

9	(3) JUPITER-FIELD -3	WFC3/UVIS, ACCUM, UVIS-CENTER	F467M	BIN=2	POS TARG -3,-72	Sequence 1-9 Non-Int in Field 3 on-Jupite r (06) Same Obset in Seque nce 1-9 Non-Int in Fi eld 3 on-Jupiter (06)	10 Secs (10 Secs) [==>]	[1]
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