



17372 - WFC3 Astrometric Scale Monitoring

Cycle: 31, Proposal Category: CAL/WFC3

(Availability Mode: RESTRICTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Ms. Catherine A Martlin (PI) (Contact)	Space Telescope Science Institute
Anne O'Connor (CoI) (Contact)	Space Telescope Science Institute
Varun Bajaj (CoI) (Contact)	Space Telescope Science Institute

VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) OMEGACEN	WFC3/UVIS	1	09-Jul-2024 17:00:34.0	yes
02	(1) OMEGACEN	WFC3/UVIS	1	09-Jul-2024 17:00:34.0	yes
03	(1) OMEGACEN	WFC3/UVIS	1	09-Jul-2024 17:00:34.0	yes
04	(1) OMEGACEN	WFC3/IR	1	09-Jul-2024 17:00:34.0	yes
05	(1) OMEGACEN	WFC3/IR	1	09-Jul-2024 17:00:35.0	yes
06	(1) OMEGACEN	WFC3/IR	1	09-Jul-2024 17:00:35.0	yes
07	(1) OMEGACEN	WFC3/UVIS	1	09-Jul-2024 17:00:35.0	yes
08	(1) OMEGACEN	WFC3/UVIS	1	09-Jul-2024 17:00:35.0	yes
09	(1) OMEGACEN	WFC3/UVIS	1	09-Jul-2024 17:00:36.0	yes
10	(1) OMEGACEN	WFC3/IR	1	09-Jul-2024 17:00:36.0	yes
11	(1) OMEGACEN	WFC3/IR	1	09-Jul-2024 17:00:36.0	yes
12	(1) OMEGACEN	WFC3/IR	1	09-Jul-2024 17:00:36.0	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>
13	(1) OMEGACEN	WFC3/UVIS	1	09-Jul-2024 17:00:37.0	yes
14	(1) OMEGACEN	WFC3/UVIS	1	09-Jul-2024 17:00:37.0	yes
15	(1) OMEGACEN	WFC3/UVIS	1	09-Jul-2024 17:00:37.0	yes
16	(1) OMEGACEN	WFC3/IR	1	09-Jul-2024 17:00:37.0	yes
17	(1) OMEGACEN	WFC3/IR	1	09-Jul-2024 17:00:38.0	yes
18	(1) OMEGACEN	WFC3/IR	1	09-Jul-2024 17:00:38.0	yes

18 Total Orbits Used

ABSTRACT

The standard astrometric catalog in the field of globular cluster Omega Cen has been used to examine the geometric distortion of WFC3 UVIS and IR as function of wavelength in multi-cycle calibration programs over last 11 years of WFC3 on HST board. All observations from these programs have been reduced and provided the multi-wavelength geometric distortion in UVIS and IR detector. The derived geometric distortion coefficients implemented in the IDCTAB format are used in the HST pipe-line to correct for a ~7% distortion in WFC3/UVIS and IR images down to <1%.

Additional to multi-wavelength WFC3 geometric distortion, all observations of Omega Cen taken through F606W and F160W UVIS and IR filters respectively during the last 11 years (all together 12 epochs) were used to look for time dependency of UVIS and IR geometric distortion and the effect of the scale change due to the thermal breathing. The results of the stability WFC3 geometric distortion published in WFC3-ISR-2015-02 (Kozhurina-Platais & Anderson, 2015), WFC3-ISR-2019-09 (Martlin, Kozhurina-Platais), have show that the UVIS geometric distortion is stable over 10 years on-orbit within 0.05 pixels or 2 mas in UVIS. The results of WFC3/IR published in WFC3-ISR-09-19 (M. McKay, Kozhurina-Platais, et al) have show that the IR geometric distortion is stable over 10 years on orbits within 0.1 pixel or 2 mas.

The same observations were used to examine the WFC3/UVIS and IR photometric changes with time (WFC3-ISR-2020-05, Kozhurina-Platais, Bagget).

The purpose of this calibration proposal is to continue the monitor of the WFC3 geometric distortion stability of over time. The observations of Omega Cen through the UVIS F606W filter and the F160W IR filter will be used to derive the skew and scale terms of the geometric distortion and look for any secular changes over time.

OBSERVING DESCRIPTION

The observation of Omega Cen through F606W and F160W is used as a standard filter in UVIS and IR, respectively. They are observed with the same pointing but with different roll-angle of the OTA in three time periods - between December 2023 and February 2024; between March 2024 and May 2024; and between June 2024 and October 2024.

The set of 6 exposures in F606W and F160W filters are the allowed full range of roll-angles at the ecliptic latitude of Omega Cen, and ranged approximately from 10 to 350 degree during the Cycle 31 from December 2023 to September 2024 timeframe.

Three UVIS exposures and IR 3 exposures in visits 1-6 will be observed in the range of U3 angle from 250-300 degree with the step of +/-5 degree from the nominal roll angle.

The next three UVIS exposures and 3 IR exposures in visits 7-12 orbits will be observed in the range of U3 from 300 - 350 degree with the step +/-5 degree from the nominal roll angle. The last three UVIS exposures and 3 IR exposures in 13-18 visits will be observed in the range of U3 between 0 to 120 degree with the step of +/-5 de

In order to improve the schedule, a small range of roll is allowed at each specific roll angle. The order of the exposures in each orbit is specified by a SEQUENTIAL Special Requirement and the order of the visits is specified by AFTER Special Requirements. To maintain accurate pointing control, 2-guide star acquisitions are used. If suitable guide stars can be found, the same pair of guide stars are used for all 18 exposures.

The geometric distortion of WFC3 in 13 UVIS and 8 IR filters were calibrated using the standard astrometric catalog of Omega Cen (Anderson & van der Martel, 2010). A more recent set of updated distortions were obtained for 20 UVIS filters using the same standard astrometric catalog of Omega Cen (Kozhurina-Platais, WFC3-ISR-2014-12; Martlin et al. WFC3-ISR-2018-11). The goal of this proposal is to monitor the geometric distortion of both the UVIS and IR detectors. The skew parameter in the ACS/WFC case, is changing with time in the level of 40 mas over 15 years on board of HST. The skew parameter is the non-perpendicularity of coordinate axes and is the major parameter in the geometric distortion model.

As it has shown by Kozhurina-Platais et al. (WFC3-ISR -2015-02), the skew in UVIS geometric distortion model during 7 years of WFC3 on board is stable and in the range of +/-4 mas which gives the offset at << +/-0.1 pixels at the far edges of UVIS frames. Thus, the goal of this calibration proposal is to continue to monitor the UVIS and IR skew as a function of time.

The 3 exposures in UVIS with steps of roll-angles ± 5 degree of off-nominal roll-angles require 3 orbits, the same 3 exposures in IR with the steps of roll-angles ± 5 degree of nominal roll-angles, also require 3 orbits. However, APT requires each Visit to begin at the start of an orbit and therefore calculates that this proposal requires 18 orbits, which APT indicates is mostly unused. Accordingly, APT generates a Warning that the Visits will not fit within the required 2 orbits and 10 Warnings that the SEQUENTIAL sets cannot fit within one orbit. However, based upon known overheads for the moderate roll-slews used and overheads for full guide star acquisitions, these indicated VISITS (1,2,3, with UVIS and 4,5,6 with IR) should be scheduled in 2 orbits. The exposures with UVIS are: Orbit #1, Visits 1,2,3 off-nominal roll $\pm 5, \pm 5$ degree; Orbit #2, Visits 7,8,9 off-nominal roll $\pm 5, 0, \pm 5$ degree; Orbit #3, Visits 13,14,15 off-nominal roll $\pm 5, 0, \pm 5$ degree. The similar requirement for exposures with IR are: Orbit #1, Visits 3,4,5 off-nominal roll $\pm 5, 0, \pm 5$ degree; Orbit #2, Visits 10,11,12 off-nominal roll $\pm 5, 0, \pm 5$ degree; and Orbit #3, Visits 16,17,18 off-nominal roll $\pm 5, 0, \pm 5$ degree.

Proposal 17372 - Visit 03 F606W (03) - WFC3 Astrometric Scale Monitoring

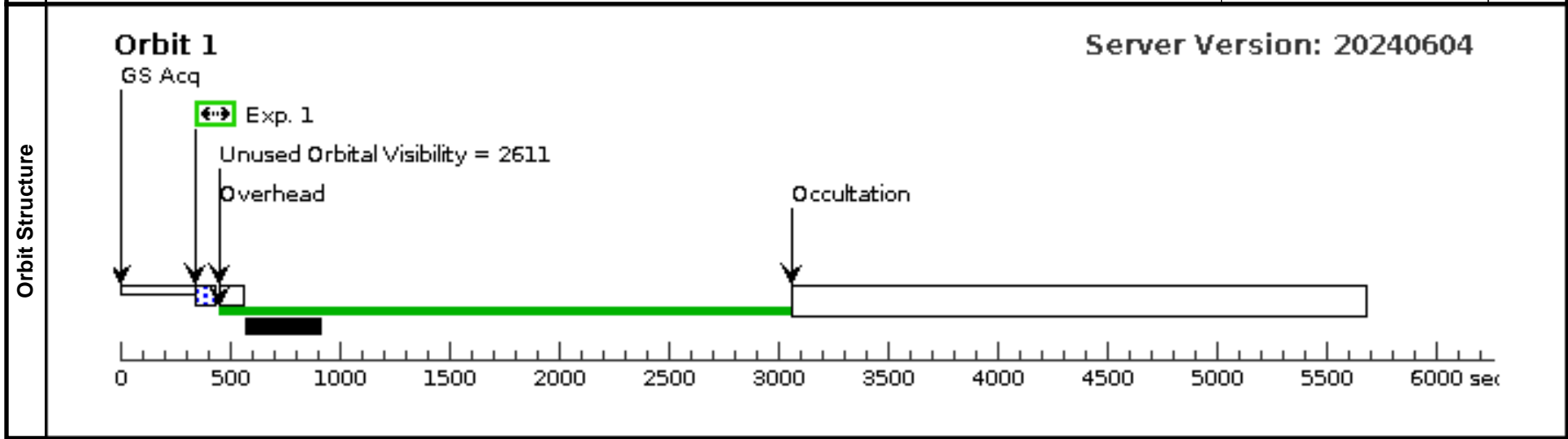
Tue Jul 09 21:00:38 GMT 2024

Visit	<p>Proposal 17372, Visit 03 F606W (03), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: ORIENT 287.4D TO 287.4 D; BETWEEN 01-DEC-2023:00:00:00 AND 15-FEB-2024:00:00:00; SEQ 01,02,03 WITHIN 1 Orbits</p>
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Diagnostics	<p>(Visit 03 F606W (03)) Warning (Orbit Planner): GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE</p> <p>(F606W (03.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F606W (03.001) special requirements) Warning (Form): The specified GS Acq Scenario is not in the current list of valid scenarios.</p>
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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>(1)</td> <td>OMEGACEN</td> <td>RA: 13 26 46.2800 (201.6928333d) Dec: -47 28 44.60 (-47.47906d) Equinox: J2000</td> <td></td> <td>V=16.8+/-0.1</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This is the same target (and coordinates) as used in CAL/WFC3 11911, UVIS L-Flats and Geometric Distortion and in other multi-cycles calibration proposals</i></p> <p>Category=CALIBRATION Description=[ASTROMETRIC, SPATIAL DISTORTION TEST]</p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	OMEGACEN	RA: 13 26 46.2800 (201.6928333d) Dec: -47 28 44.60 (-47.47906d) Equinox: J2000		V=16.8+/-0.1	Reference Frame: ICRS
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Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F606W</td> <td>(1) OMEGACEN</td> <td>WFC3/UVIS, ACCUM, UVIS</td> <td>F606W</td> <td>FLASH=12</td> <td>GS ACQ SCENARI O BASE1B3</td> <td></td> <td>60.0 Secs (60 Secs) [==>]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	F606W	(1) OMEGACEN	WFC3/UVIS, ACCUM, UVIS	F606W	FLASH=12	GS ACQ SCENARI O BASE1B3		60.0 Secs (60 Secs) [==>]	[1]
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1	F606W	(1) OMEGACEN	WFC3/UVIS, ACCUM, UVIS	F606W	FLASH=12	GS ACQ SCENARI O BASE1B3		60.0 Secs (60 Secs) [==>]	[1]												



Proposal 17372 - Visit 04 F160W (04) - WFC3 Astrometric Scale Monitoring

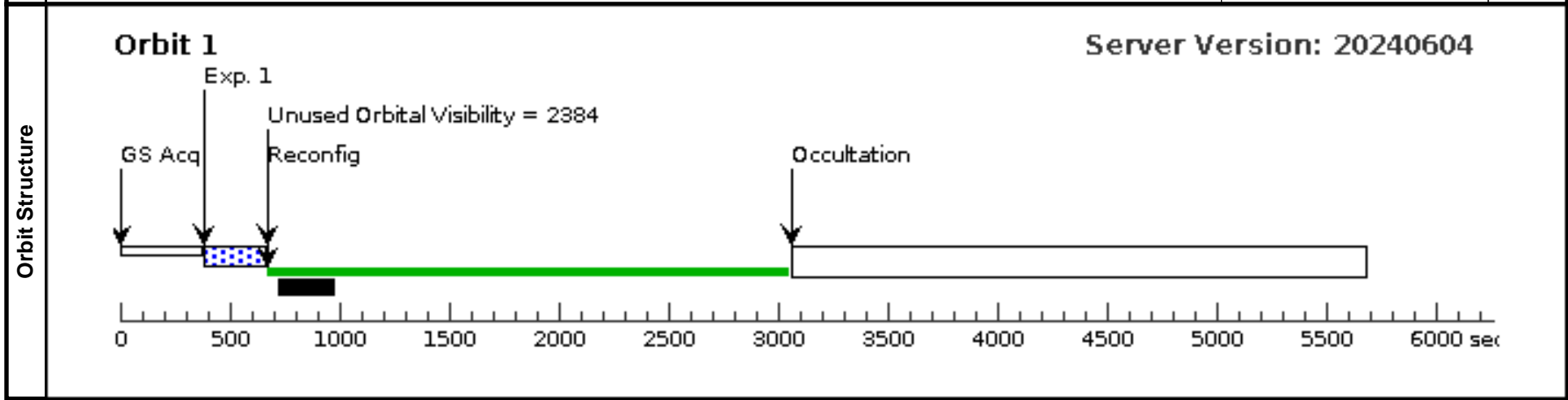
Tue Jul 09 21:00:38 GMT 2024

Visit	Proposal 17372, Visit 04 F160W (04), completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: PCS MODE FINE; ORIENT 291.5D TO 291.5 D; BETWEEN 01-DEC-2023:00:00:00 AND 15-FEB-2024:00:00:00; SEQ 04.05.06 WITHIN 1 Orbits
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Diagnostics	(Visit 04 F160W (04)) Warning (Orbit Planner): GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE (F160W (04.001) special requirements) Warning (Form): The specified GS Acq Scenario is not in the current list of valid scenarios.
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	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
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Comments: This is the same target (and coordinates) as used in CAL/WFC3 11911, UVIS L-Flats and Geometric Distortion and in other multi-cycles calibration proposals Category=CALIBRATION Description=[ASTROMETRIC, SPATIAL DISTORTION TEST]													

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1	F160W	(1) OMEGACEN	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	EXP PCS MODE FI NE; GS ACQ SCENARI O BASE1B3		252.937441 Secs (252.937 Secs) [==>]	[1]												



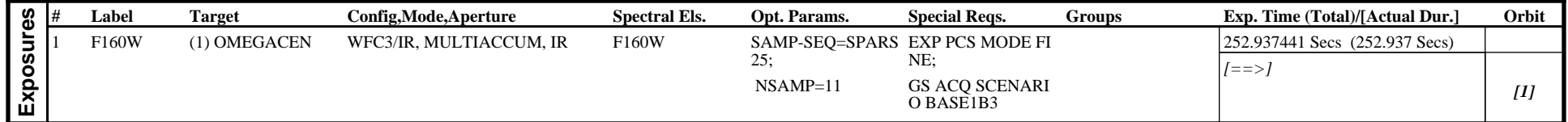
Proposal 17372 - Visit 05 F160W (05) - WFC3 Astrometric Scale Monitoring

Tue Jul 09 21:00:38 GMT 2024

Visit	<p>Proposal 17372, Visit 05 F160W (05), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/IR</p> <p>Special Requirements: PCS MODE FINE; ORIENT 293.0D TO 293.0 D; BETWEEN 01-DEC-2023:00:00:00 AND 15-FEB-2024:00:00:00; SEQ 04.05.06 WITHIN 1 Orbits</p>
	<p>(Visit 05 F160W (05)) Warning (Orbit Planner): GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE</p> <p>(F160W (05.001) special requirements) Warning (Form): The specified GS Acq Scenario is not in the current list of valid scenarios.</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>(1)</td> <td>OMEGACEN</td> <td>RA: 13 26 46.2800 (201.6928333d) Dec: -47 28 44.60 (-47.47906d) Equinox: J2000</td> <td></td> <td>V=16.8+/-0.1</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This is the same target (and coordinates) as used in CAL/WFC3 11911, UVIS L-Flats and Geometric Distortion and in other multi-cycles calibration proposals</i></p> <p>Category=CALIBRATION Description=[ASTROMETRIC, SPATIAL DISTORTION TEST]</p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	OMEGACEN	RA: 13 26 46.2800 (201.6928333d) Dec: -47 28 44.60 (-47.47906d) Equinox: J2000		V=16.8+/-0.1	Reference Frame: ICRS
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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F160W	(1) OMEGACEN	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	EXP PCS MODE FI NE; GS ACQ SCENARI O BASE1B3		252.937441 Secs (252.937 Secs) [==>]	[1]



Proposal 17372 - Visit 06 F160W (06) - WFC3 Astrometric Scale Monitoring

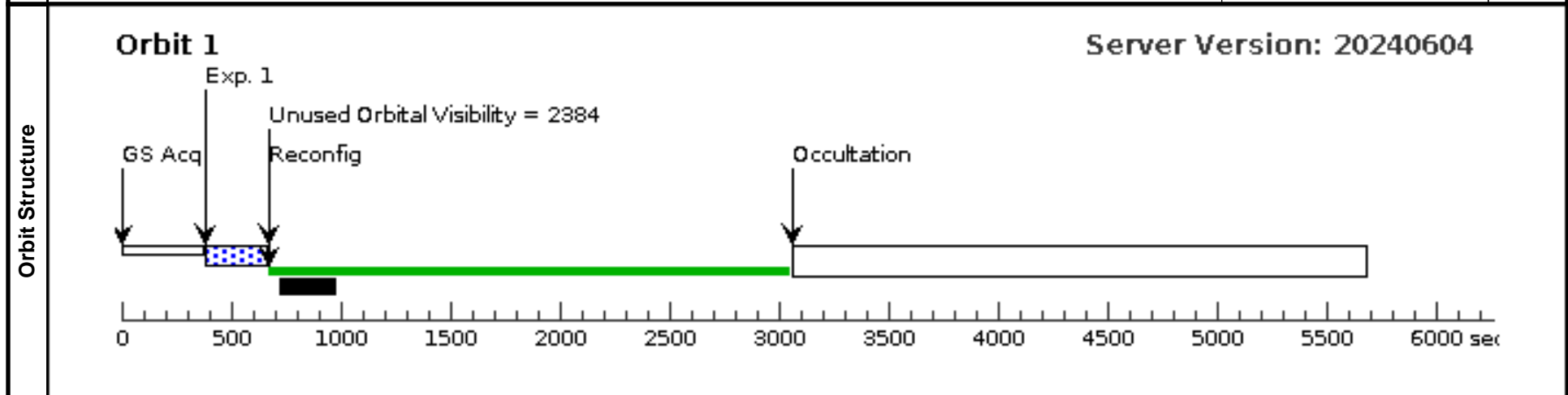
Tue Jul 09 21:00:39 GMT 2024

Visit	Proposal 17372, Visit 06 F160W (06), completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: PCS MODE FINE; ORIENT 294.5D TO 294.5 D; BETWEEN 01-DEC-2023:00:00:00 AND 15-FEB-2024:00:00:00; SEQ 04.05.06 WITHIN 1 Orbits
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Diagnostics	(Visit 06 F160W (06)) Warning (Orbit Planner): GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE (F160W (06.001) special requirements) Warning (Form): The specified GS Acq Scenario is not in the current list of valid scenarios.
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Proposal 17372 - Visit 10 F160W (10) - WFC3 Astrometric Scale Monitoring

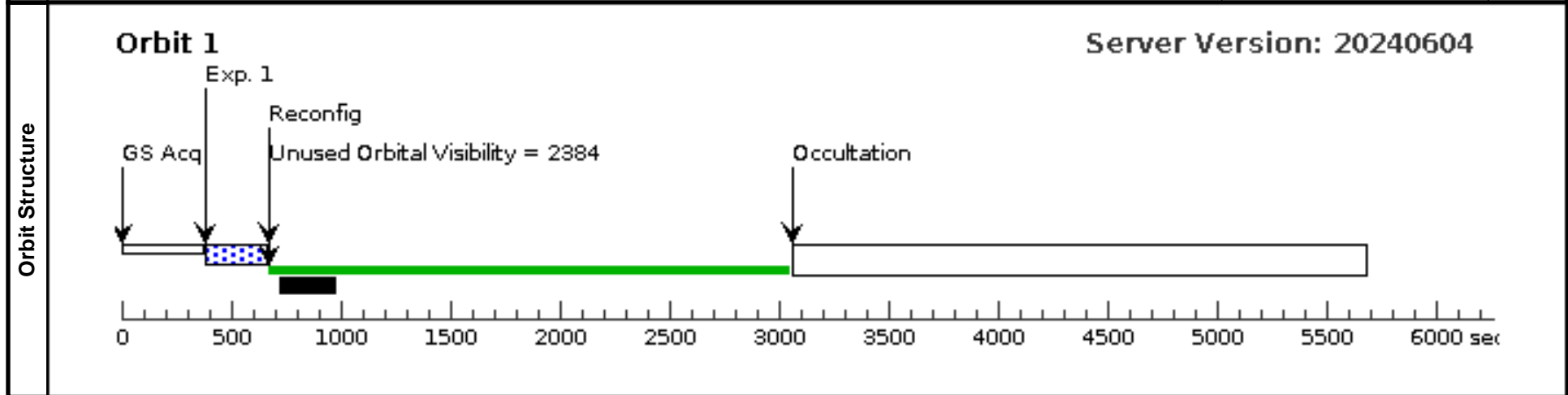
Tue Jul 09 21:00:39 GMT 2024

Visit	Proposal 17372, Visit 10 F160W (10), completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: PCS MODE FINE; ORIENT 344.5D TO 344.5 D; BETWEEN 15-MAR-2024:00:00:00 AND 01-MAY-2024:00:00:00; SEQ 10,11,12 WITHIN 1.1 Orbits
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Diagnostics	(Visit 10 F160W (10)) Warning (Orbit Planner): GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE (F160W (10.001) special requirements) Warning (Form): The specified GS Acq Scenario is not in the current list of valid scenarios.
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(1)	OMEGACEN	RA: 13 26 46.2800 (201.6928333d) Dec: -47 28 44.60 (-47.47906d) Equinox: J2000		V=16.8+/-0.1	Reference Frame: ICRS								
Comments: This is the same target (and coordinates) as used in CAL/WFC3 11911, UVIS L-Flats and Geometric Distortion and in other multi-cycles calibration proposals Category=CALIBRATION Description=[ASTROMETRIC, SPATIAL DISTORTION TEST]													

Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F160W</td> <td>(1) OMEGACEN</td> <td>WFC3/IR, MULTIACCUM, IR</td> <td>F160W</td> <td>SAMP-SEQ=SPARS 25; NSAMP=11</td> <td>EXP PCS MODE FI NE; GS ACQ SCENARI O BASE1B3</td> <td></td> <td>252.937441 Secs (252.937 Secs) [==>]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	F160W	(1) OMEGACEN	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	EXP PCS MODE FI NE; GS ACQ SCENARI O BASE1B3		252.937441 Secs (252.937 Secs) [==>]	[1]
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit											
1	F160W	(1) OMEGACEN	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	EXP PCS MODE FI NE; GS ACQ SCENARI O BASE1B3		252.937441 Secs (252.937 Secs) [==>]	[1]												



Proposal 17372 - Visit 11 F160W (11) - WFC3 Astrometric Scale Monitoring

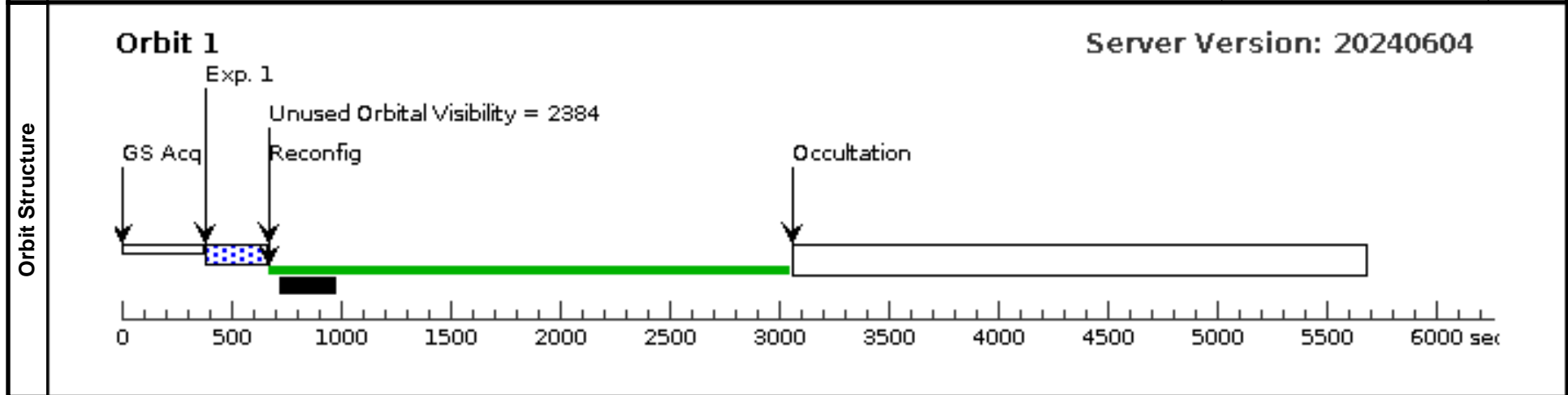
Tue Jul 09 21:00:39 GMT 2024

Visit	Proposal 17372, Visit 11 F160W (11), completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: PCS MODE FINE; ORIENT 346D TO 346 D; BETWEEN 15-MAR-2024:00:00:00 AND 01-MAY-2024:00:00:00; SEQ 10,11,12 WITHIN 1.1 Orbits
	(Visit 11 F160W (11)) Warning (Orbit Planner): GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE (F160W (11.001) special requirements) Warning (Form): The specified GS Acq Scenario is not in the current list of valid scenarios.

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>(1)</td> <td>OMEGACEN</td> <td>RA: 13 26 46.2800 (201.6928333d) Dec: -47 28 44.60 (-47.47906d) Equinox: J2000</td> <td></td> <td>V=16.8+/-0.1</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	OMEGACEN	RA: 13 26 46.2800 (201.6928333d) Dec: -47 28 44.60 (-47.47906d) Equinox: J2000		V=16.8+/-0.1	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(1)	OMEGACEN	RA: 13 26 46.2800 (201.6928333d) Dec: -47 28 44.60 (-47.47906d) Equinox: J2000		V=16.8+/-0.1	Reference Frame: ICRS								
Comments: This is the same target (and coordinates) as used in CAL/WFC3 11911, UVIS L-Flats and Geometric Distortion and in other multi-cycles calibration proposals Category=CALIBRATION Description=[ASTROMETRIC, SPATIAL DISTORTION TEST]													

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F160W	(1) OMEGACEN	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	EXP PCS MODE FI NE; GS ACQ SCENARI O BASE1B3		252.937441 Secs (252.937 Secs) [==>]	[1]

Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F160W</td> <td>(1) OMEGACEN</td> <td>WFC3/IR, MULTIACCUM, IR</td> <td>F160W</td> <td>SAMP-SEQ=SPARS 25; NSAMP=11</td> <td>EXP PCS MODE FI NE; GS ACQ SCENARI O BASE1B3</td> <td></td> <td>252.937441 Secs (252.937 Secs) [==>]</td> <td>[1]</td> </tr> </tbody> </table>									#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	F160W	(1) OMEGACEN	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	EXP PCS MODE FI NE; GS ACQ SCENARI O BASE1B3		252.937441 Secs (252.937 Secs) [==>]	[1]
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																			
1	F160W	(1) OMEGACEN	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	EXP PCS MODE FI NE; GS ACQ SCENARI O BASE1B3		252.937441 Secs (252.937 Secs) [==>]	[1]																				



Proposal 17372 - Visit 12 F160W (12) - WFC3 Astrometric Scale Monitoring

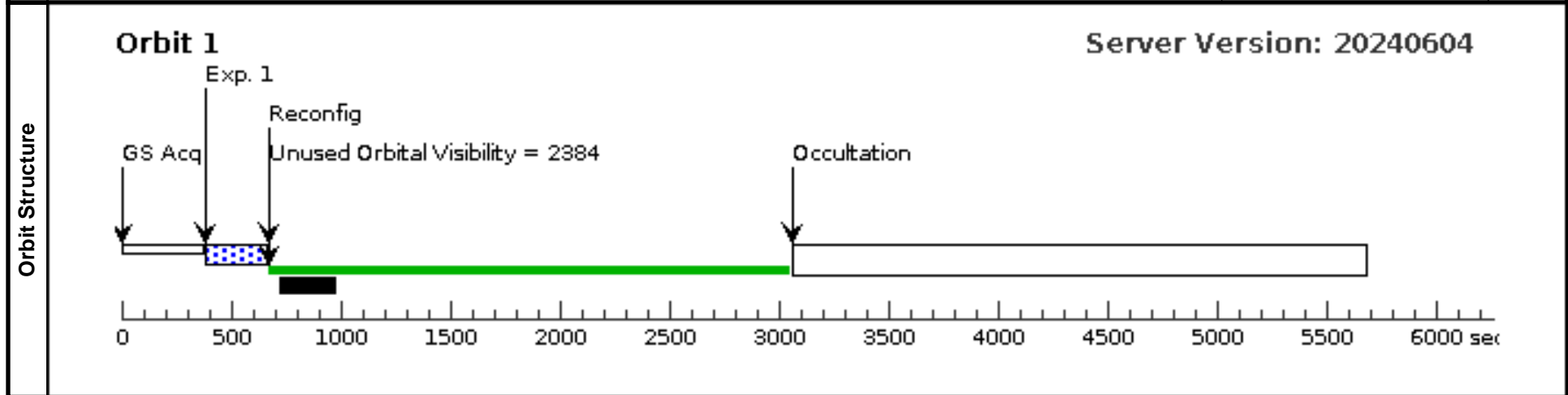
Tue Jul 09 21:00:39 GMT 2024

Visit	Proposal 17372, Visit 12 F160W (12), completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: PCS MODE FINE; ORIENT 347D TO 347 D; BETWEEN 15-MAR-2024:00:00:00 AND 01-MAY-2024:00:00:00; SEQ 10,11,12 WITHIN 1.1 Orbits
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Diagnostics	(Visit 12 F160W (12)) Warning (Orbit Planner): GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE (F160W (12.001) special requirements) Warning (Form): The specified GS Acq Scenario is not in the current list of valid scenarios.
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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>(1)</td> <td>OMEGACEN</td> <td>RA: 13 26 46.2800 (201.6928333d) Dec: -47 28 44.60 (-47.47906d) Equinox: J2000</td> <td></td> <td>V=16.8+/-0.1</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	OMEGACEN	RA: 13 26 46.2800 (201.6928333d) Dec: -47 28 44.60 (-47.47906d) Equinox: J2000		V=16.8+/-0.1	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(1)	OMEGACEN	RA: 13 26 46.2800 (201.6928333d) Dec: -47 28 44.60 (-47.47906d) Equinox: J2000		V=16.8+/-0.1	Reference Frame: ICRS								
Comments: This is the same target (and coordinates) as used in CAL/WFC3 11911, UVIS L-Flats and Geometric Distortion and in other multi-cycles calibration proposals Category=CALIBRATION Description=[ASTROMETRIC, SPATIAL DISTORTION TEST]													

Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F160W</td> <td>(1) OMEGACEN</td> <td>WFC3/IR, MULTIACCUM, IR</td> <td>F160W</td> <td>SAMP-SEQ=SPARS 25; NSAMP=11</td> <td>EXP PCS MODE FI NE; GS ACQ SCENARI O BASE1B3</td> <td></td> <td>252.937441 Secs (252.937 Secs) [==>]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	F160W	(1) OMEGACEN	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	EXP PCS MODE FI NE; GS ACQ SCENARI O BASE1B3		252.937441 Secs (252.937 Secs) [==>]	[1]
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit											
1	F160W	(1) OMEGACEN	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	EXP PCS MODE FI NE; GS ACQ SCENARI O BASE1B3		252.937441 Secs (252.937 Secs) [==>]	[1]												



Proposal 17372 - Visit 13 F606W (13) - WFC3 Astrometric Scale Monitoring

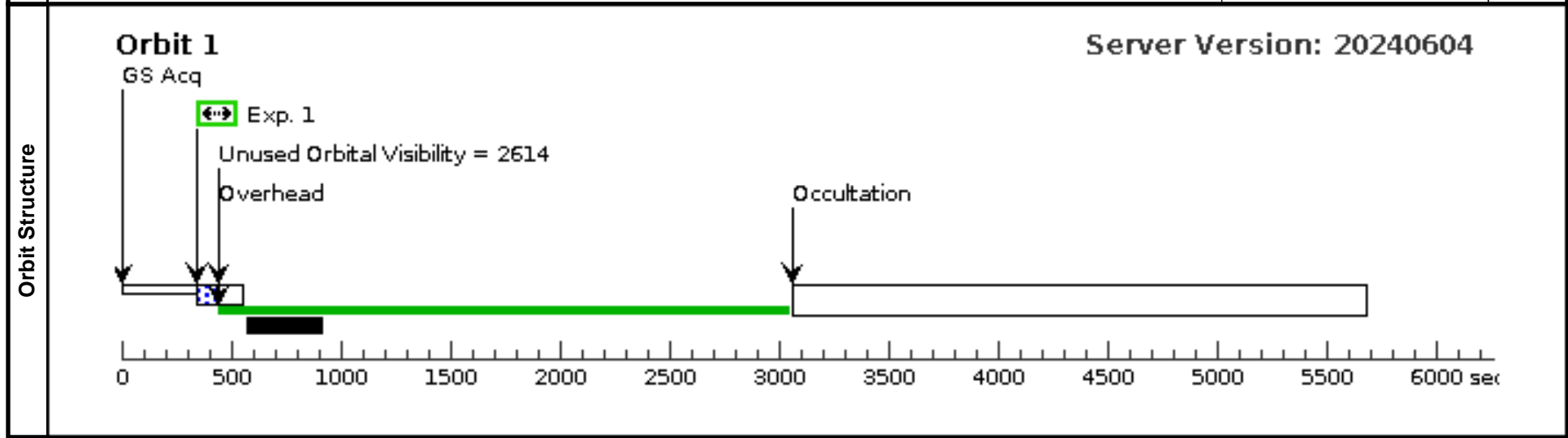
Tue Jul 09 21:00:39 GMT 2024

Visit	Proposal 17372, Visit 13 F606W (13), pi Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 120D TO 120 D; BETWEEN 01-JUN-2024:00:00:00 AND 01-OCT-2024:00:00:00; SEQ 13,14,15 WITHIN 5 D

Diagnostics	(F606W (13.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
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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>(1)</td> <td>OMEGACEN</td> <td>RA: 13 26 46.2800 (201.6928333d) Dec: -47 28 44.60 (-47.47906d) Equinox: J2000</td> <td></td> <td>V=16.8+/-0.1</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This is the same target (and coordinates) as used in CAL/WFC3 11911, UVIS L-Flats and Geometric Distortion and in other multi-cycles calibration proposals</i> Category=CALIBRATION Description=[ASTROMETRIC, SPATIAL DISTORTION TEST]</p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	OMEGACEN	RA: 13 26 46.2800 (201.6928333d) Dec: -47 28 44.60 (-47.47906d) Equinox: J2000		V=16.8+/-0.1	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(1)	OMEGACEN	RA: 13 26 46.2800 (201.6928333d) Dec: -47 28 44.60 (-47.47906d) Equinox: J2000		V=16.8+/-0.1	Reference Frame: ICRS								

Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F606W</td> <td>(1) OMEGACEN</td> <td>WFC3/UVIS, ACCUM, UVIS</td> <td>F606W</td> <td>FLASH=12</td> <td>GS ACQ SCENARI O BASE103</td> <td></td> <td>60.0 Secs (60 Secs) [==>]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	F606W	(1) OMEGACEN	WFC3/UVIS, ACCUM, UVIS	F606W	FLASH=12	GS ACQ SCENARI O BASE103		60.0 Secs (60 Secs) [==>]	[1]
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit											
1	F606W	(1) OMEGACEN	WFC3/UVIS, ACCUM, UVIS	F606W	FLASH=12	GS ACQ SCENARI O BASE103		60.0 Secs (60 Secs) [==>]	[1]												



Proposal 17372 - Visit 14 F606W (14) - WFC3 Astrometric Scale Monitoring

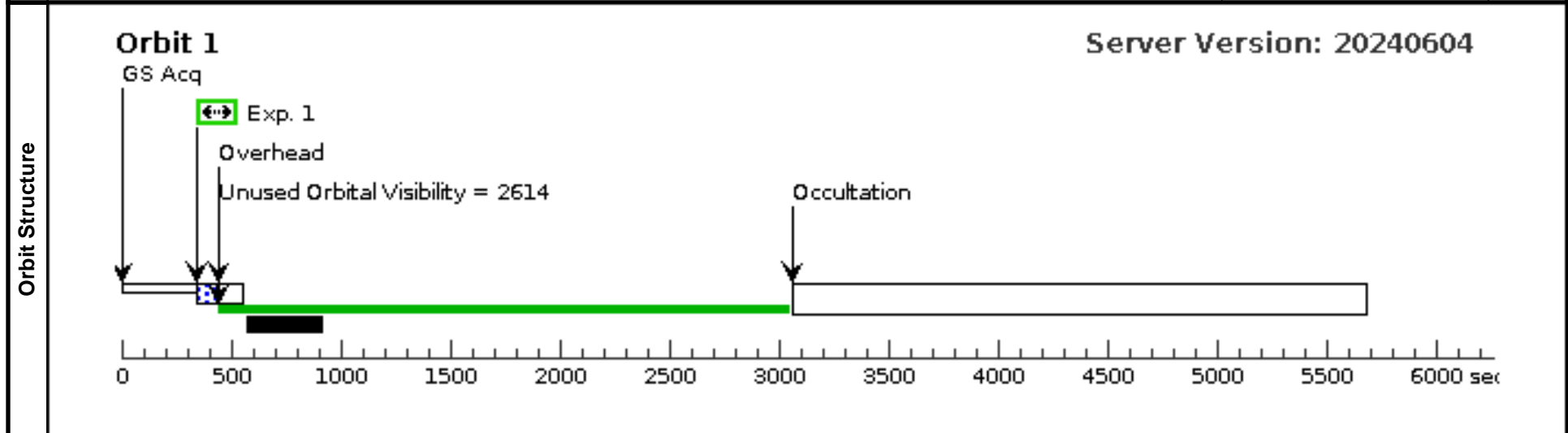
Tue Jul 09 21:00:39 GMT 2024

Visit	Proposal 17372, Visit 14 F606W (14), pi Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 121D TO 121 D; BETWEEN 01-JUN-2024:00:00:00 AND 01-OCT-2024:00:00:00; SEQ 13,14,15 WITHIN 5 D
	(F606W (14.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

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>(1)</td> <td>OMEGACEN</td> <td>RA: 13 26 46.2800 (201.6928333d) Dec: -47 28 44.60 (-47.47906d) Equinox: J2000</td> <td></td> <td>V=16.8+/-0.1</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This is the same target (and coordinates) as used in CAL/WFC3 11911, UVIS L-Flats and Geometric Distortion and in other multi-cycles calibration proposals</i> Category=CALIBRATION Description=[ASTROMETRIC, SPATIAL DISTORTION TEST]</p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	OMEGACEN	RA: 13 26 46.2800 (201.6928333d) Dec: -47 28 44.60 (-47.47906d) Equinox: J2000		V=16.8+/-0.1	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(1)	OMEGACEN	RA: 13 26 46.2800 (201.6928333d) Dec: -47 28 44.60 (-47.47906d) Equinox: J2000		V=16.8+/-0.1	Reference Frame: ICRS								

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F606W	(1) OMEGACEN	WFC3/UVIS, ACCUM, UVIS	F606W	FLASH=12	GS ACQ SCENARI O BASE103		60.0 Secs (60 Secs) [==>]	[1]

Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F606W</td> <td>(1) OMEGACEN</td> <td>WFC3/UVIS, ACCUM, UVIS</td> <td>F606W</td> <td>FLASH=12</td> <td>GS ACQ SCENARI O BASE103</td> <td></td> <td>60.0 Secs (60 Secs) [==>]</td> <td>[1]</td> </tr> </tbody> </table>									#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	F606W	(1) OMEGACEN	WFC3/UVIS, ACCUM, UVIS	F606W	FLASH=12	GS ACQ SCENARI O BASE103		60.0 Secs (60 Secs) [==>]	[1]
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																			
1	F606W	(1) OMEGACEN	WFC3/UVIS, ACCUM, UVIS	F606W	FLASH=12	GS ACQ SCENARI O BASE103		60.0 Secs (60 Secs) [==>]	[1]																				



Proposal 17372 - Visit 15 F606W (15) - WFC3 Astrometric Scale Monitoring

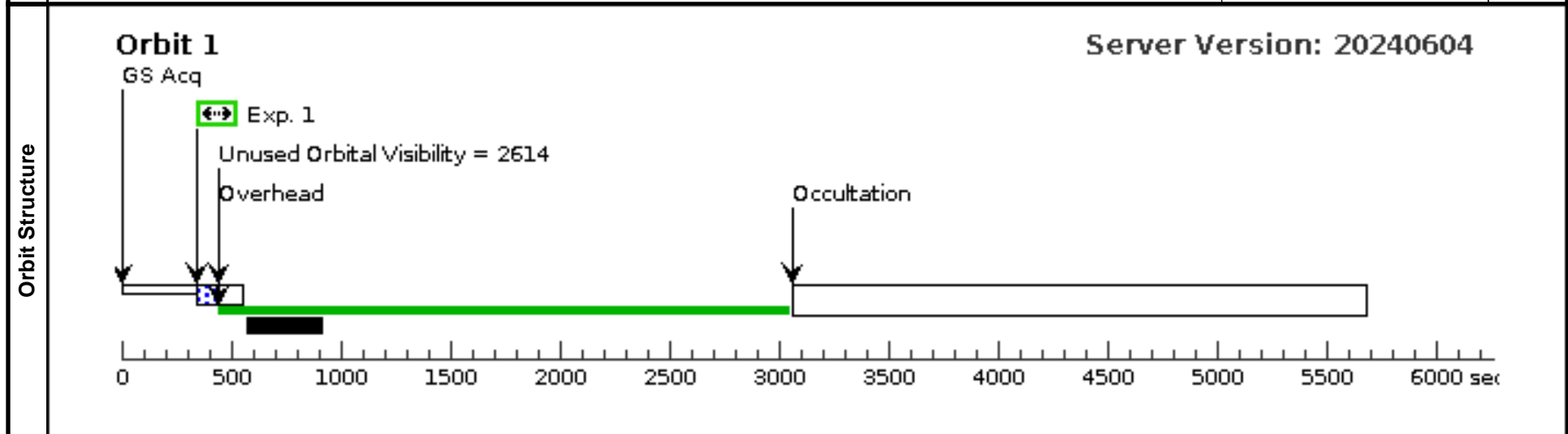
Tue Jul 09 21:00:39 GMT 2024

Visit	Proposal 17372, Visit 15 F606W (15), pi Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 122D TO 122 D; BETWEEN 01-JUN-2024:00:00:00 AND 01-OCT-2024:00:00:00; SEQ 13,14,15 WITHIN 5 D

Diagnostics	(F606W (15.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
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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>(1)</td> <td>OMEGACEN</td> <td>RA: 13 26 46.2800 (201.6928333d) Dec: -47 28 44.60 (-47.47906d) Equinox: J2000</td> <td></td> <td>V=16.8+/-0.1</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This is the same target (and coordinates) as used in CAL/WFC3 11911, UVIS L-Flats and Geometric Distortion and in other multi-cycles calibration proposals</i> Category=CALIBRATION Description=[ASTROMETRIC, SPATIAL DISTORTION TEST]</p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	OMEGACEN	RA: 13 26 46.2800 (201.6928333d) Dec: -47 28 44.60 (-47.47906d) Equinox: J2000		V=16.8+/-0.1	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(1)	OMEGACEN	RA: 13 26 46.2800 (201.6928333d) Dec: -47 28 44.60 (-47.47906d) Equinox: J2000		V=16.8+/-0.1	Reference Frame: ICRS								

Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F606W</td> <td>(1) OMEGACEN</td> <td>WFC3/UVIS, ACCUM, UVIS</td> <td>F606W</td> <td>FLASH=12</td> <td>GS ACQ SCENARI O BASE103</td> <td></td> <td>60.0 Secs (60 Secs) [==>]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	F606W	(1) OMEGACEN	WFC3/UVIS, ACCUM, UVIS	F606W	FLASH=12	GS ACQ SCENARI O BASE103		60.0 Secs (60 Secs) [==>]	[1]
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit											
1	F606W	(1) OMEGACEN	WFC3/UVIS, ACCUM, UVIS	F606W	FLASH=12	GS ACQ SCENARI O BASE103		60.0 Secs (60 Secs) [==>]	[1]												



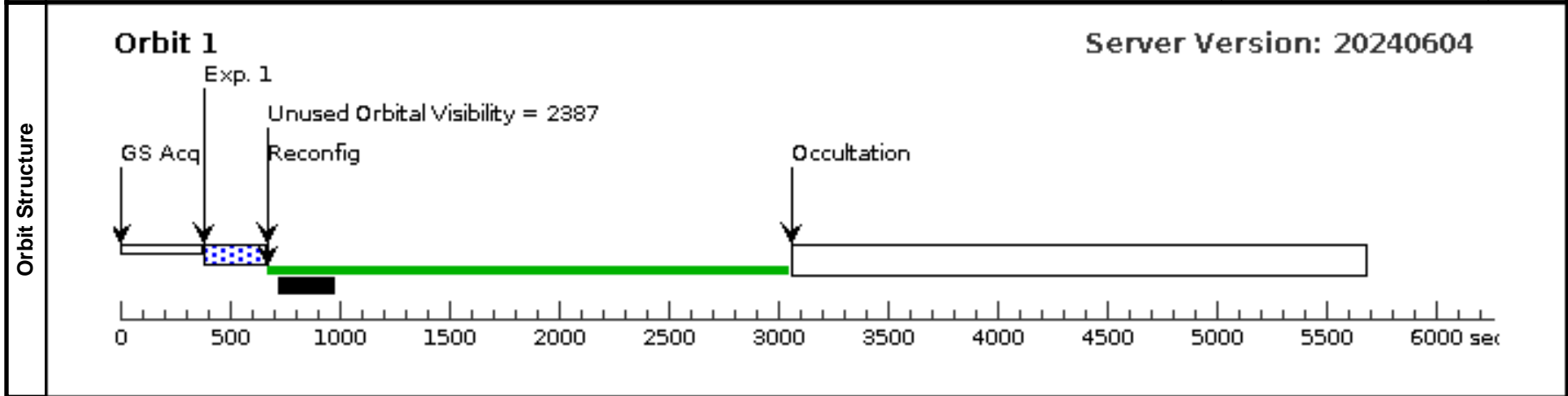
Proposal 17372 - Visit 16 F160W (16) - WFC3 Astrometric Scale Monitoring

Tue Jul 09 21:00:39 GMT 2024

Visit	Proposal 17372, Visit 16 F160W (16), pi				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: PCS MODE FINE; ORIENT 120D TO 120 D; BETWEEN 01-JUL-2024:00:00:00 AND 01-OCT-2024:00:00:00; SEQ 16,17,18 WITHIN 5 D				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	OMEGACEN	RA: 13 26 46.2800 (201.6928333d) Dec: -47 28 44.60 (-47.47906d) Equinox: J2000		V=16.8+/-0.1	Reference Frame: ICRS
	<i>Comments: This is the same target (and coordinates) as used in CAL/WFC3 11911, UVIS L-Flats and Geometric Distortion and in other multi-cycles calibration proposals</i> Category=CALIBRATION Description=[ASTROMETRIC, SPATIAL DISTORTION TEST]					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F160W	(1) OMEGACEN	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	EXP PCS MODE FI NE; GS ACQ SCENARI O BASE103		252.937441 Secs (252.937 Secs) [==>]	[1]



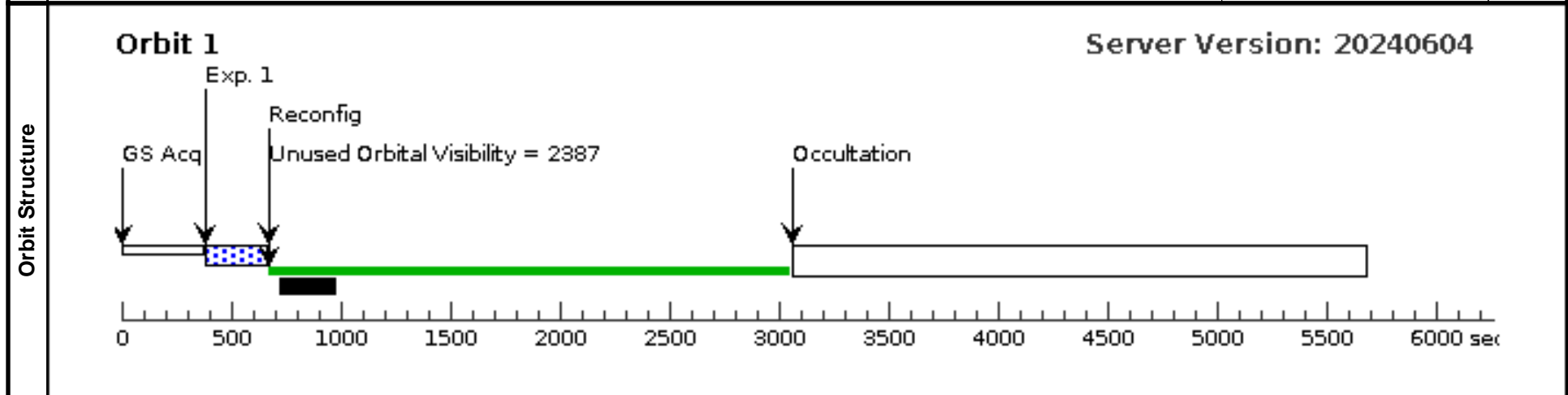
Proposal 17372 - Visit 17 F160W (17) - WFC3 Astrometric Scale Monitoring

Tue Jul 09 21:00:39 GMT 2024

Visit	Proposal 17372, Visit 17 F160W (17), pi Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: PCS MODE FINE; ORIENT 121D TO 121 D; BETWEEN 01-JUL-2024:00:00:00 AND 01-OCT-2024:00:00:00; SEQ 16,17,18 WITHIN 5 D				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	OMEGACEN	RA: 13 26 46.2800 (201.6928333d) Dec: -47 28 44.60 (-47.47906d) Equinox: J2000		V=16.8+/-0.1	Reference Frame: ICRS
Comments: This is the same target (and coordinates) as used in CAL/WFC3 11911, UVIS L-Flats and Geometric Distortion and in other multi-cycles calibration proposals Category=CALIBRATION Description=[ASTROMETRIC, SPATIAL DISTORTION TEST]						

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F160W	(1) OMEGACEN	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	EXP PCS MODE FI NE; GS ACQ SCENARI O BASE103			252.937441 Secs (252.937 Secs) [==>]



Proposal 17372 - Visit 18 F160W (18) - WFC3 Astrometric Scale Monitoring

Tue Jul 09 21:00:39 GMT 2024

Visit	Proposal 17372, Visit 18 F160W (18), pi				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: PCS MODE FINE; ORIENT 122D TO 122 D; BETWEEN 01-JUL-2024:00:00:00 AND 01-OCT-2024:00:00:00; SEQ 16,17,18 WITHIN 5 D				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	OMEGACEN	RA: 13 26 46.2800 (201.6928333d) Dec: -47 28 44.60 (-47.47906d) Equinox: J2000		V=16.8+/-0.1	Reference Frame: ICRS
<i>Comments: This is the same target (and coordinates) as used in CAL/WFC3 11911, UVIS L-Flats and Geometric Distortion and in other multi-cycles calibration proposals</i> Category=CALIBRATION Description=[ASTROMETRIC, SPATIAL DISTORTION TEST]						

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F160W	(1) OMEGACEN	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	EXP PCS MODE FI NE; GS ACQ SCENARI O BASE103			252.937441 Secs (252.937 Secs) [==>]

