



11435 - WFC3 IR Fine Alignment

Cycle: 17, Proposal Category: SM4/WFC3

(Availability Mode: RESTRICTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. George Hartig (PI)	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) NGC188-58 NONE	WFC3/IR	2	30-Jun-2009 21:12:22.0	yes
04	(1) NGC188-58 NONE	WFC3/IR	2	30-Jun-2009 21:12:40.0	yes
02	(1) NGC188-58 NONE	WFC3/IR	3	30-Jun-2009 21:12:53.0	yes
03	NONE	WFC3/IR	1	30-Jun-2009 21:13:01.0	yes

8 Total Orbits Used

ABSTRACT

The corrector mechanism will be used to bring the IR channel of WFC3 into optimal alignment with the OTA using analysis of star images over the field. Two visits are required; corrector offsets will be uplinked after each visit via realtime command.

This proposal is activity ID WFC3-22

OBSERVING DESCRIPTION

The IR corrector mechanism will be used to bring the instrument into optimal alignment with the OTA using analysis of star images over the field. Corrector mirror tip/tilt (inner/outer cylinders) will be adjusted to align the OTA and IR pupils, and the focus drive will be used to optimize image focus. The observed field must be sufficiently dense to provide good sampling over the FOV while providing enough isolated stars to permit accurate PSF measurement. If the field is astrometric and astrometric guide stars are used, the plate scale and image orientation may also be determined. NGC-188 star 58 meets these requirements, is available year-round and was used previously for ACS alignment. The F127M filter will be used to limit the passband at relatively short wavelength for improved PR accuracy. Full frame, 15 read RAPID images will be obtained at 9 focus positions. Two visits are required; corrector offsets will be uplinked after each visit via realtime command, no sooner than 24 hrs after receipt of full data set.

REAL TIME JUSTIFICATION

Realtime uplinks of the IR corrector settings needed to improve image quality are required after each visit and prior to the following observations, in order to iteratively progress to the optimized alignment. Uplinks should be scheduled no sooner than 24 hrs after receipt of data; requested corrector moves will be specified within 12 hrs after data receipt. Data should be fast-tracked through OPUS to permit timely analysis.

CALIBRATION JUSTIFICATION

The image quality of all WFC3 IR science data relies on these alignment adjustments.

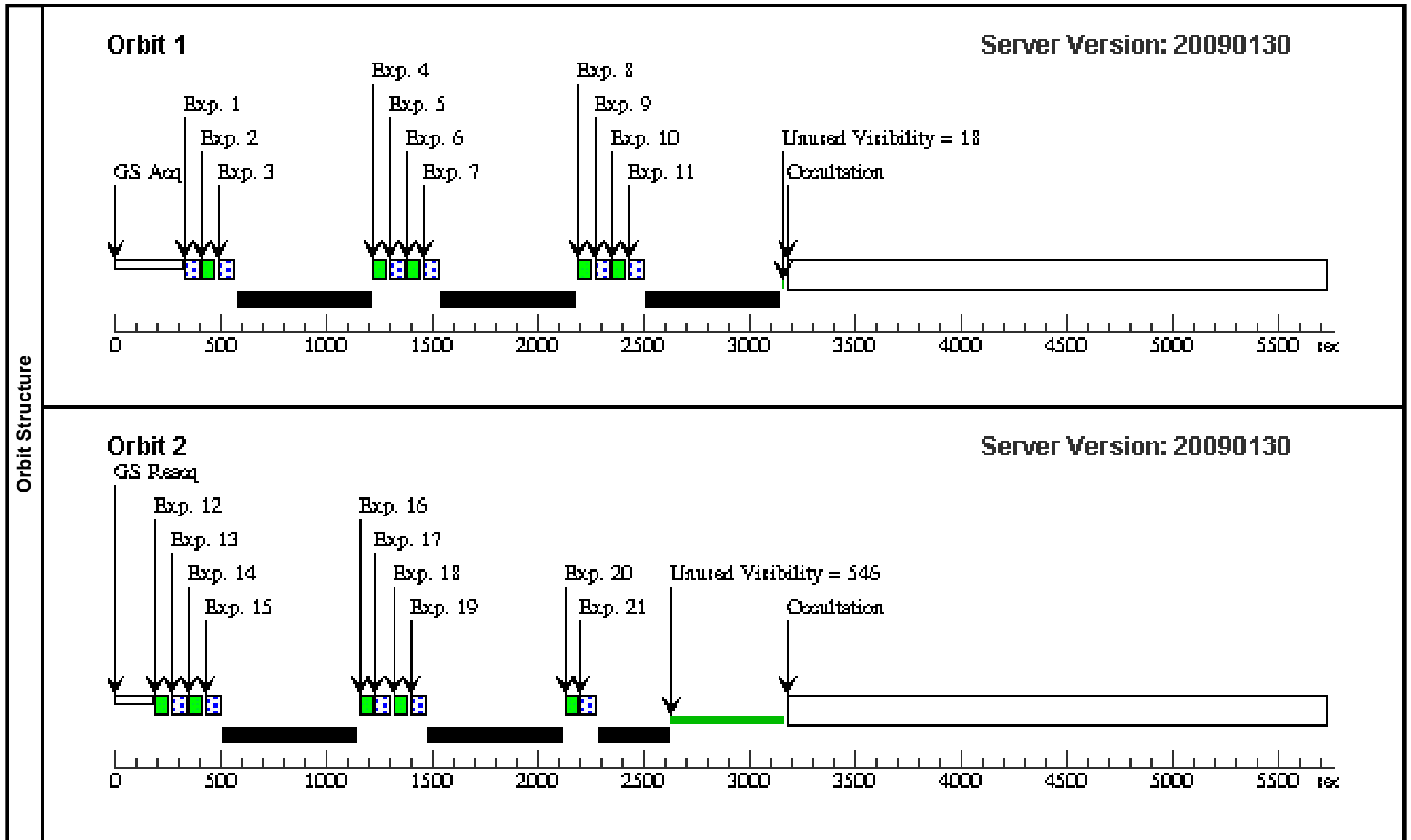
Proposal 11435 - Visit 01 - WFC3 IR Fine Alignment

Wed Jul 01 01:13:04 GMT 2009

Visit	Proposal 11435, Visit 01, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: Execute after uplink to set focus and cylinder positions of IR corrector per results of prop 11425, visit 3.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NGC188-58	RA: 00 47 4.4540 (11.7685583d) Dec: +85 16 32.70 (85.27575d) Equinox: J2000 Plate Id: ZZZZ	Proper Motion RA: -0.00257s/yr Proper Motion Dec: -0.0112"/yr Parallax: 0.0" Epoch of Position: 2000.0	V=14.65+/-0.05	Reference Frame: GSC1				
	<i>Comments: Use guide stars from the NGC188 Astrometric Catalog (Plate-ID ZZZZ)</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=RAPID ; NSAMP=15			[==>]	[1]
	2		NONE	WFC3/IR, ALIGN			FOCUS=-500		10.0 Secs [==>]	[1]
	3		(1) NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=RAPID ; NSAMP=15			[==>]	[1]
	4		NONE	WFC3/IR, ALIGN			FOCUS=-375		10.0 Secs [==>]	[1]
	5		(1) NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=RAPID ; NSAMP=15			[==>]	[1]
	6		NONE	WFC3/IR, ALIGN			FOCUS=-250		10.0 Secs [==>]	[1]
	7		(1) NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=RAPID ; NSAMP=15			[==>]	[1]
	8		NONE	WFC3/IR, ALIGN			FOCUS=-125		10.0 Secs [==>]	[1]
	9		(1) NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=RAPID ; NSAMP=15			[==>]	[1]
	10		NONE	WFC3/IR, ALIGN			FOCUS=0		10.0 Secs [==>]	[1]
11		(1) NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=RAPID ; NSAMP=15			[==>]	[1]	

Proposal 11435 - Visit 01 - WFC3 IR Fine Alignment

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures (continued)	12	NONE	WFC3/IR, ALIGN		FOCUS=125			10.0 Secs [==>]	[2]
	13	(1) NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=RAPID ; NSAMP=15			[==>]	[2]
	14	NONE	WFC3/IR, ALIGN		FOCUS=250			10.0 Secs [==>]	[2]
	15	(1) NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=RAPID ; NSAMP=15			[==>]	[2]
	16	NONE	WFC3/IR, ALIGN		FOCUS=375			10.0 Secs [==>]	[2]
	17	(1) NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=RAPID ; NSAMP=15			[==>]	[2]
	18	NONE	WFC3/IR, ALIGN		FOCUS=500			10.0 Secs [==>]	[2]
	19	(1) NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=RAPID ; NSAMP=15			[==>]	[2]
	20	NONE	WFC3/IR, ALIGN		FOCUS=0			10.0 Secs [==>]	[2]
	<i>Comments: Return to original focus setting.</i>								
21	(1) NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=RAPID ; NSAMP=15			[==>]	[2]	



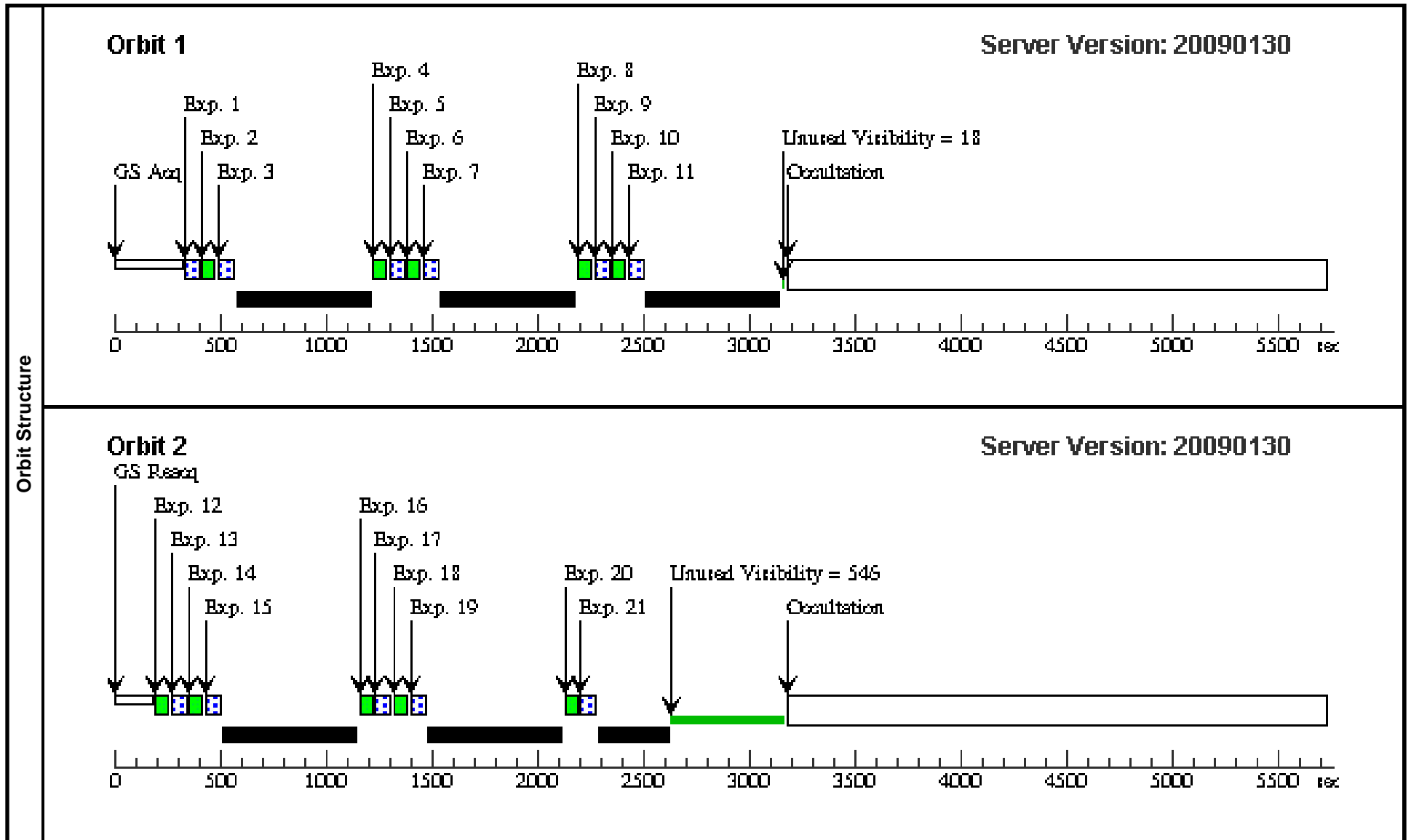
Proposal 11435 - Visit 04 - WFC3 IR Fine Alignment

Wed Jul 01 01:13:05 GMT 2009

Visit	Proposal 11435, Visit 04, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: Execute approximately 48 hours after visit 03.</i>																																																																																																									
	Diagnosics (Exposure 1 (Visit 04) 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>NGC188-58</td> <td>RA: 00 47 4.4540 (11.7685583d) Dec: +85 16 32.70 (85.27575d) Equinox: J2000 Plate Id: ZZZZ</td> <td>Proper Motion RA: -0.00257s/yr Proper Motion Dec: -0.0112"/yr Parallax: 0.0" Epoch of Position: 2000.0</td> <td>V=14.65+/-0.05</td> <td>Reference Frame: GSC1</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	NGC188-58	RA: 00 47 4.4540 (11.7685583d) Dec: +85 16 32.70 (85.27575d) Equinox: J2000 Plate Id: ZZZZ	Proper Motion RA: -0.00257s/yr Proper Motion Dec: -0.0112"/yr Parallax: 0.0" Epoch of Position: 2000.0	V=14.65+/-0.05	Reference Frame: GSC1	<i>Comments: Use guide stars from the NGC188 Astrometric Catalog (Plate-ID ZZZZ)</i>																																																																																												
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Proposal 11435 - Visit 04 - WFC3 IR Fine Alignment

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures (continued)	10	NONE	WFC3/IR, ALIGN		FOCUS=0			10.0 Secs	
								[==>]	[1]
	11	(1) NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=RAPID ;			[==>]	[1]
					NSAMP=15				
	12	NONE	WFC3/IR, ALIGN		FOCUS=125			10.0 Secs	
								[==>]	[2]
	13	(1) NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=RAPID ;			[==>]	[2]
					NSAMP=15				
	14	NONE	WFC3/IR, ALIGN		FOCUS=250			10.0 Secs	
								[==>]	[2]
	15	(1) NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=RAPID ;			[==>]	[2]
					NSAMP=15				
	16	NONE	WFC3/IR, ALIGN		FOCUS=375			10.0 Secs	
								[==>]	[2]
	17	(1) NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=RAPID ;			[==>]	[2]
					NSAMP=15				
	18	NONE	WFC3/IR, ALIGN		FOCUS=500			10.0 Secs	
								[==>]	[2]
	19	(1) NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=RAPID ;			[==>]	[2]
					NSAMP=15				
	20	NONE	WFC3/IR, ALIGN		FOCUS=0			10.0 Secs	
							[==>]	[2]	
<i>Comments: Return to original focus setting.</i>									
21	(1) NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=RAPID ;			[==>]	[2]	
				NSAMP=15					



Proposal 11435 - Visit 02 - WFC3 IR Fine Alignment

Wed Jul 01 01:13:07 GMT 2009

Visit	Proposal 11435, Visit 02, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: AFTER 01 BY 48.0 H TO 96.0 H <i>Comments: Begin with uplink to set focus and cylinder positions for UVIS corrector per visit 1 results.</i>										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC188-58	RA: 00 47 4.4540 (11.7685583d) Dec: +85 16 32.70 (85.27575d) Equinox: J2000 Plate Id: ZZZZ	Proper Motion RA: -0.00257s/yr Proper Motion Dec: -0.0112"/yr Parallax: 0.0" Epoch of Position: 2000.0	V=14.65+/-0.05	Reference Frame: GSC1					
	<i>Comments: Use guide stars from the NGC188 Astrometric Catalog (Plate-ID ZZZZ)</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		NONE	WFC3/IR, ALIGN			REQ UPLINK		0 Secs [==>]	[1]	
	<i>Comments: Begin with uplink to set IR corrector focus and cylinder positions determined in visit 1 with ICORREL commands.</i>										
	2	(1)	NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M		SAMP-SEQ=RAPID ; NSAMP=15			[==>]	[1]
	3		NONE	WFC3/IR, ALIGN			TILT=YES	QESIPARM ISTEPS -12; QESIPARM OSTEP S -12; QELOGSHEET SP_ 2 -12; QELOGSHEET SP_ 3 -12		10.0 Secs [==>]	[1]
	<i>Comments: INNER=-12, OUTER=-12; ISTEPS=-12, OSTEPS=-12</i>										
	4	(1)	NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M		SAMP-SEQ=RAPID ; NSAMP=15			[==>]	[1]
5		NONE	WFC3/IR, ALIGN			TILT=YES	QESIPARM ISTEPS 0; QESIPARM OSTEP S 12; QELOGSHEET SP_ 2 -12; QELOGSHEET SP_ 3 0		10.0 Secs [==>]	[1]	
<i>Comments: INNER=-12, OUTER=0; ISTEPS=0, OSTEPS=12</i>											
6	(1)	NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M		SAMP-SEQ=RAPID ; NSAMP=15			[==>]	[1]	

Proposal 11435 - Visit 02 - WFC3 IR Fine Alignment

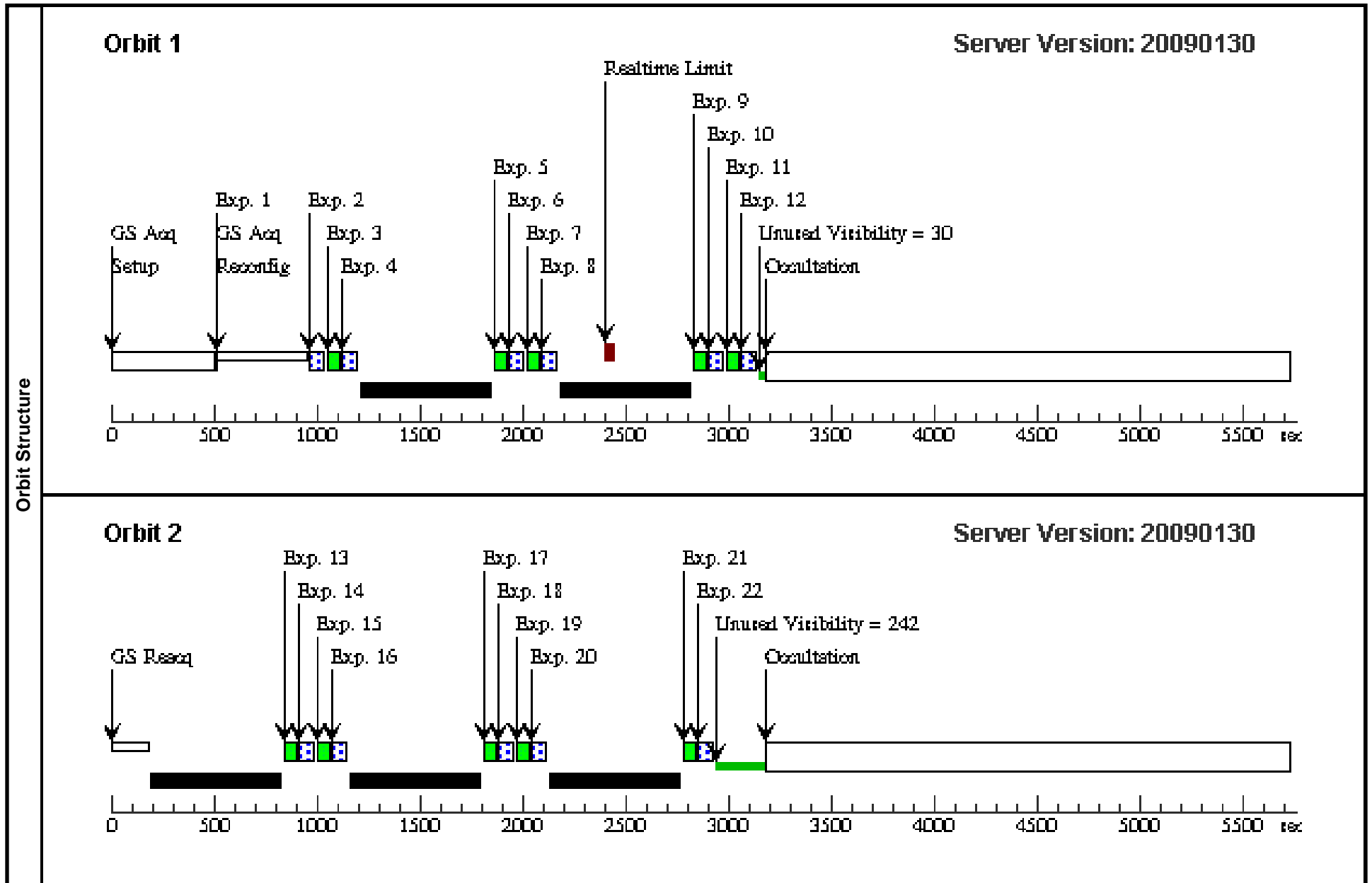
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
Exposures (continued)	7	NONE	WFC3/IR, ALIGN		TILT=YES	QESIPARM ISTEPS 0; QESIPARM OSTEP S 12; QELOGSHEET SP_ 2 -12; QELOGSHEET SP_ 3 12		10.0 Secs [==>]	[1]	
	<i>Comments: INNER=-12, OUTER=12; ISTEPS=0, OSTEPS=12</i>									
	8	(1) NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=RAPID ; NSAMP=15			[==>]	[1]	
	9	NONE	WFC3/IR, ALIGN		TILT=YES	QESIPARM ISTEPS 12; QESIPARM OSTEP S -24; QELOGSHEET SP_ 2 0; QELOGSHEET SP_ 3 -12		10.0 Secs [==>]	[1]	
	<i>Comments: INNER=0, OUTER=-12; ISTEPS=12, OSTEPS=-24</i>									
	10	(1) NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=RAPID ; NSAMP=15			[==>]	[1]	
11	NONE	WFC3/IR, ALIGN		TILT=YES	QESIPARM ISTEPS 0; QESIPARM OSTEP S 12; QELOGSHEET SP_ 2 0; QELOGSHEET SP_ 3 0		10.0 Secs [==>]	[1]		
<i>Comments: INNER=0, OUTER=0; ISTEPS=0, OSTEPS=12</i>										
12	(1) NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=RAPID ; NSAMP=15			[==>]	[1]		

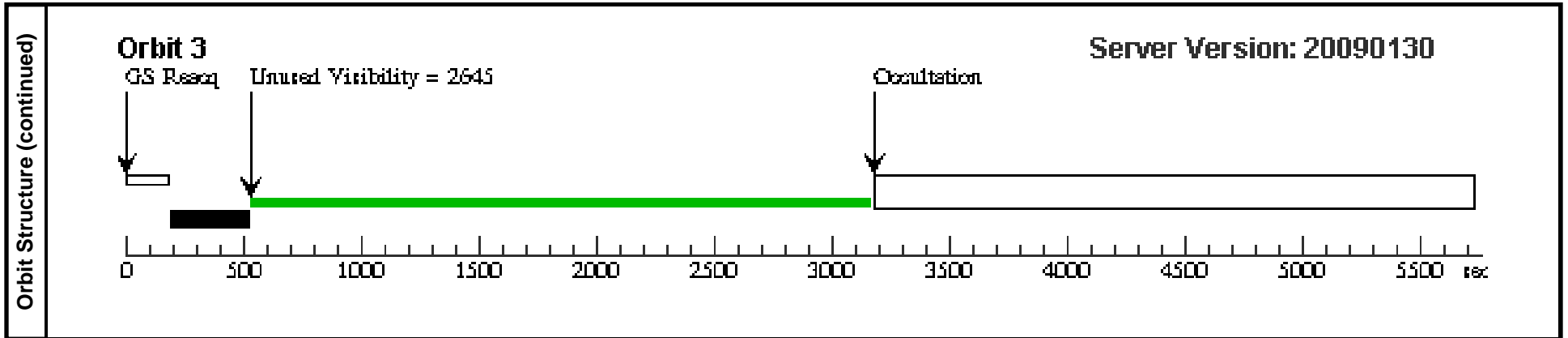
Proposal 11435 - Visit 02 - WFC3 IR Fine Alignment

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
Exposures (continued)	13	NONE	WFC3/IR, ALIGN		TILT=YES	QESIPARM ISTEPS 0; QESIPARM OSTEP S 12; QELOGSHEET SP_ 2 0; QELOGSHEET SP_ 3 12		10.0 Secs [==>]	[2]	
	<i>Comments: INNER=0, OUTER=12; ISTEPS=0, OSTEPS=12</i>									
	14	(1) NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=RAPID ; NSAMP=15			[==>]	[2]	
	15	NONE	WFC3/IR, ALIGN		TILT=YES	QESIPARM ISTEPS 12; QESIPARM OSTEP S -24; QELOGSHEET SP_ 2 12; QELOGSHEET SP_ 3 -12		10.0 Secs [==>]	[2]	
	<i>Comments: INNER=12, OUTER=-12; ISTEPS=12, OSTEPS=-24</i>									
	16	(1) NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=RAPID ; NSAMP=15			[==>]	[2]	
17	NONE	WFC3/IR, ALIGN		TILT=YES	QESIPARM ISTEPS 0; QESIPARM OSTEP S 12; QELOGSHEET SP_ 2 12; QELOGSHEET SP_ 3 0		10.0 Secs [==>]	[2]		
<i>Comments: INNER=12, OUTER=0; ISTEPS=0, OSTEPS=12</i>										
18	(1) NGC188-58	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=RAPID ; NSAMP=15			[==>]	[2]		

Proposal 11435 - Visit 02 - WFC3 IR Fine Alignment

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	19		NONE	WFC3/IR, ALIGN		TILT=YES	QESIPARM ISTEPS 0; QESIPARM OSTEP S 12; QELOGSHEET SP_ 2 12; QELOGSHEET SP_ 3 12		10.0 Secs [==>]	[2]	
	<i>Comments: INNER=12, OUTER=12; ISTEPS=0, OSTEPS=12</i>										
	20	(1) NGC188-58		WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=RAPID ; NSAMP=15			[==>]	[2]	
	21		NONE	WFC3/IR, ALIGN		TILT=YES	QESIPARM ISTEPS -12; QESIPARM OSTEP S -12; QELOGSHEET SP_ 2 0; QELOGSHEET SP_ 3 0		10.0 Secs [==>]	[2]	
<i>Comments: INNER=0, OUTER=0; ISTEPS=-12, OSTEPS=-12</i>											
22	(1) NGC188-58		WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=RAPID ; NSAMP=15			[==>]	[2]		





Visit	Proposal 11435, Visit 03, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: AFTER 02 BY 48 H TO 96 H <i>Comments: Uplink offsets to focus and cylinder settings per visit 2 analysis.</i>																																
	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/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>NONE</td> <td>WFC3/IR, ALIGN</td> <td></td> <td></td> <td>REQ UPLINK</td> <td></td> <td>0 Secs</td> <td></td> </tr> <tr> <td colspan="8"></td> <td>[==>]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1		NONE	WFC3/IR, ALIGN			REQ UPLINK		0 Secs										[==>]	[1]	<i>Comments: Uplink to set IR corrector focus and cylinder positions determined in visit 2 with ICORREL commands.</i>
#		Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																							
1		NONE	WFC3/IR, ALIGN			REQ UPLINK		0 Secs																									
								[==>]	[1]																								
Orbit Structure	<div style="display: flex; justify-content: space-between;"> <div> <p>Orbit 1</p> <p>GS Acq</p> <p>Unused Visibility = 3025</p> <p>Setup</p> <p>Exp. 1</p> </div> <div style="text-align: right;"> <p>Server Version: 20090130</p> </div> </div> <p>The timeline shows a green bar from 0 to 3000 seconds. A red bar is present at 2400 seconds. A white bar extends from 3000 to 5500 seconds. Arrows point to 'Setup' at 0s, 'Exp. 1' at 500s, 'Realtime Limit' at 2400s, and 'Occultation' at 3000s.</p>																																