



16743 - A High-accuracy, Geometric Calibration of the Tip of the Red Giant Branch in the Halo of NGC 4258

Cycle: 29, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Taylor J Hoyt (PI) (Contact)	Lawrence Berkeley National Laboratory
Prof. Wendy L. Freedman (CoI) (CoPI)	University of Chicago
Dr. Barry F. Madore (CoI)	Carnegie Institution of Washington
Dr. Rachael L Beaton (CoI)	Space Telescope Science Institute
Dr. Mark Seibert (CoI)	Carnegie Institution of Washington
Dr. Violet Athena Mager (CoI)	The Pennsylvania State University
Dr. In Sung Jang (CoI)	University of Chicago

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) M-106-HALO-E1 (2) M-106-HALO-E2	ACS/WFC WFC3/IR	2	08-Aug-2024 11:00:30.0	yes
02	(1) M-106-HALO-E1 (2) M-106-HALO-E2	ACS/WFC WFC3/IR	2	08-Aug-2024 11:00:31.0	yes
03	(1) M-106-HALO-E1 (2) M-106-HALO-E2	ACS/WFC WFC3/IR	2	08-Aug-2024 11:00:31.0	yes
04	(1) M-106-HALO-E1 (2) M-106-HALO-E2	ACS/WFC WFC3/IR	2	08-Aug-2024 11:00:32.0	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>
05	(3) M-106-HALO-W1 (4) M-106-HALO-W2	ACS/WFC WFC3/IR	2	08-Aug-2024 11:00:33.0	yes
41	(5) M-106-OUTER-S	ACS/WFC WFC3/UVIS	2	08-Aug-2024 11:00:34.0	yes
42	(5) M-106-OUTER-S	ACS/WFC WFC3/UVIS	1	08-Aug-2024 11:00:35.0	yes
31	(6) M-106-OUTER-N	ACS/WFC WFC3/UVIS	2	08-Aug-2024 11:00:36.0	yes
32	(6) M-106-OUTER-N	ACS/WFC WFC3/UVIS	1	08-Aug-2024 11:00:37.0	yes
06	(3) M-106-HALO-W1 (4) M-106-HALO-W2	ACS/WFC WFC3/IR	2	08-Aug-2024 11:00:38.0	yes
07	(3) M-106-HALO-W1 (4) M-106-HALO-W2	ACS/WFC WFC3/IR	2	08-Aug-2024 11:00:39.0	yes
08	(3) M-106-HALO-W1 (4) M-106-HALO-W2	ACS/WFC WFC3/IR	2	08-Aug-2024 11:00:39.0	yes

22 Total Orbits Used

ABSTRACT

Space-based observations are on the cusp of a near-infrared (NIR) revolution, with the imminent launch of the Webb telescope, and the planned launch of the Roman (formerly WFIRST) telescope. This program aims to bridge the gap between the current and coming eras by simultaneously providing (1) the most accurate zero-point calibration of the Tip of the Red Giant Branch (TRGB) in the ACS/WFC F606W and F814W bands to date, and (2) the first direct, geometric calibration of the TRGB zero-point in space-based near-infrared (NIR) bandpasses (all previous calibrations were indirectly calibrated). We will accomplish this in only 16 orbits, a small fraction of the HST time already invested into comparable calibrations (e.g., over 150 orbits dedicated to calibrating Cepheids in this galaxy), and at a much higher accuracy.

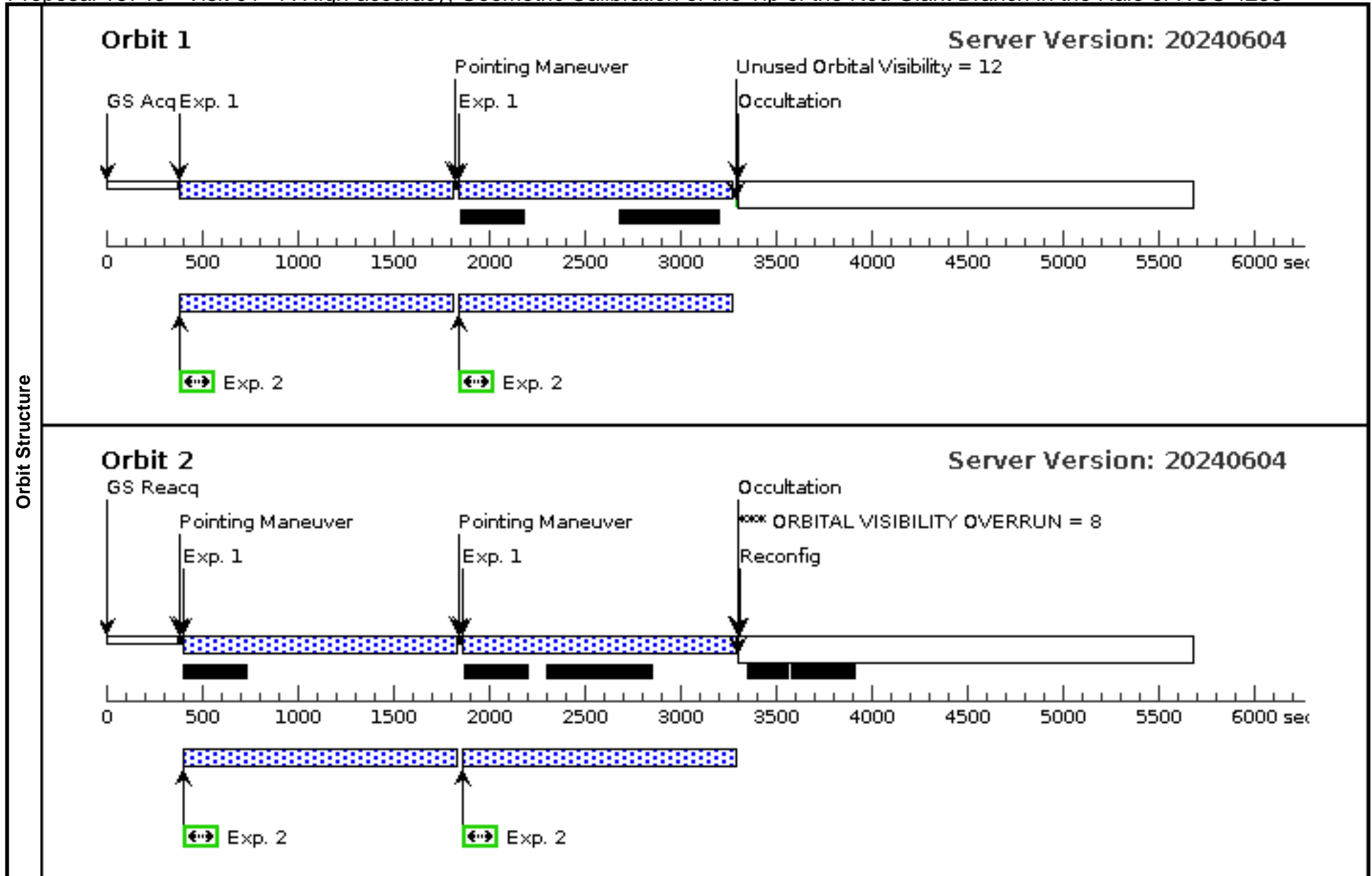
OBSERVING DESCRIPTION

Measurements in the halo of NGC 4258. The telescope is orientated so as to trace the boundary identified as a transition from disk- to halo- dominated stellar populations.

Proposal 16743 - Visit 01 - A High-accuracy, Geometric Calibration of the Tip of the Red Giant Branch in the Halo of NGC 4258

Thu Aug 08 15:00:40 GMT 2024

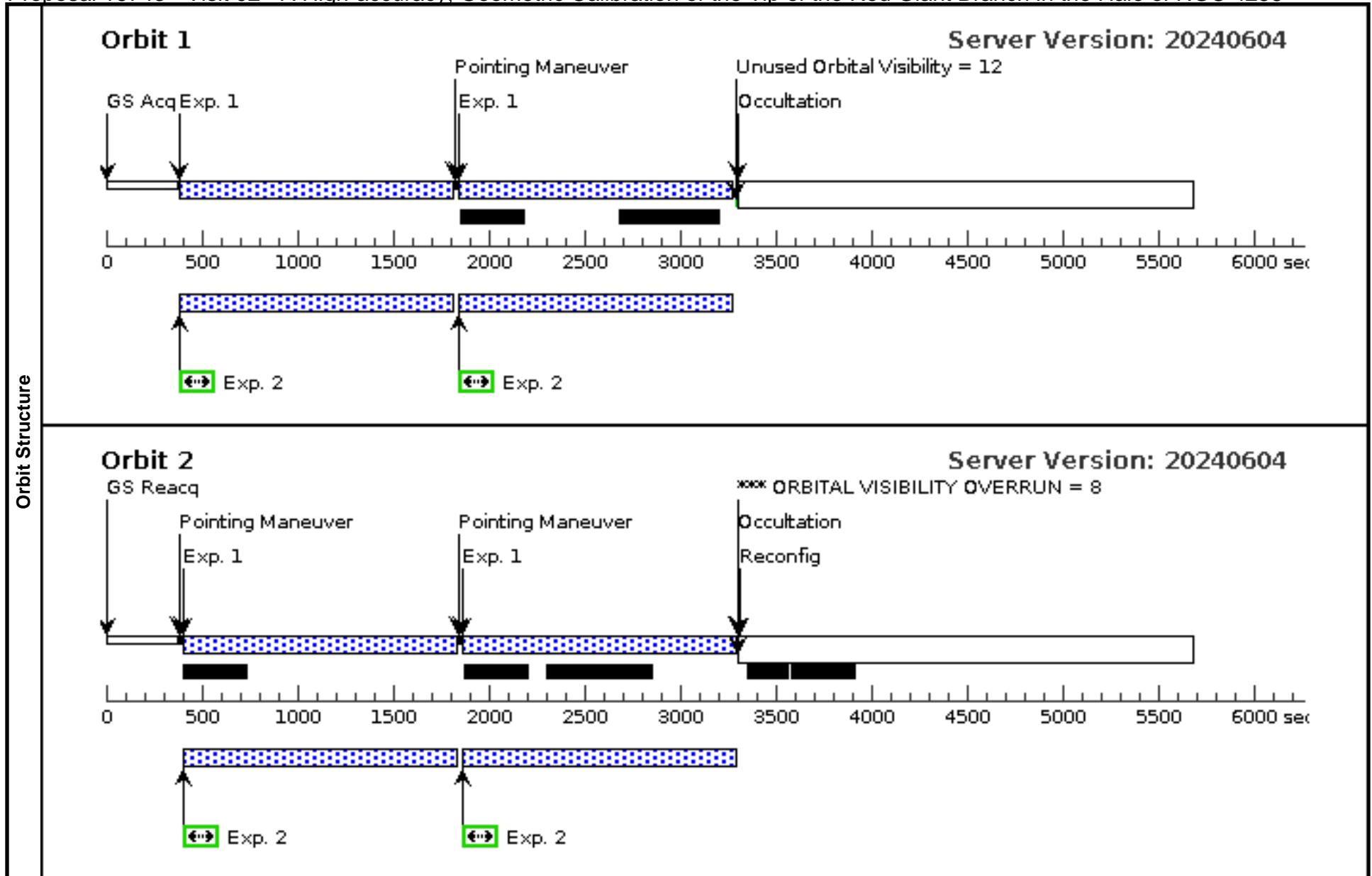
Visit	Proposal 16743, Visit 01, failed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: ORIENT 129.5D TO 136.5 D; VISIBILITY INTERVAL 3302 S										
	(Visit 01) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365				Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false				(1-2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(1)	M-106-HALO-E1	RA: 12 19 56.3182 (184.9846592d) Dec: +47 14 3.22 (47.23423d) Equinox: J2000		Epoch of Position: 2015.5		V=(?) muB_BKG = 29 mag/arcsec2		Reference Frame: SIMBAD		
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[HALO]										
	(2)	M-106-HALO-E2	RA: 12 19 54.7795 (184.9782479d) Dec: +47 20 6.59 (47.33516d) Equinox: J2000		Epoch of Position: 2015.5		V=(?) muB_BKG = 29 mag/arcsec2		Reference Frame: SIMBAD		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[HALO]											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(1) M-106-HALO-E1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPAR S100	POS TARG 0,null	Pattern 1, Exps 1-2 in Visit 01 (1)	1402.936813 Secs (5611.747 Secs)		
								Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 01	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1] [2]
	2	ACS Paralle 11	(2) M-106-HALO-E2	ACS/WFC, ACCUM, WFC-FIX	F814W	CR-SPLIT=NO		Pattern 1, Exps 1-2 in Visit 01 (1)	1275 Secs (5146 Secs)		
							Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 01	[==>1225.0 Secs (Pattern 1)] [==>1307.0 Secs (Pattern 2)] [==>1307.0 Secs (Pattern 3)] [==>1307.0 Secs (Pattern 4)]		[1] [2]	



Proposal 16743 - Visit 02 - A High-accuracy, Geometric Calibration of the Tip of the Red Giant Branch in the Halo of NGC 4258

Thu Aug 08 15:00:40 GMT 2024

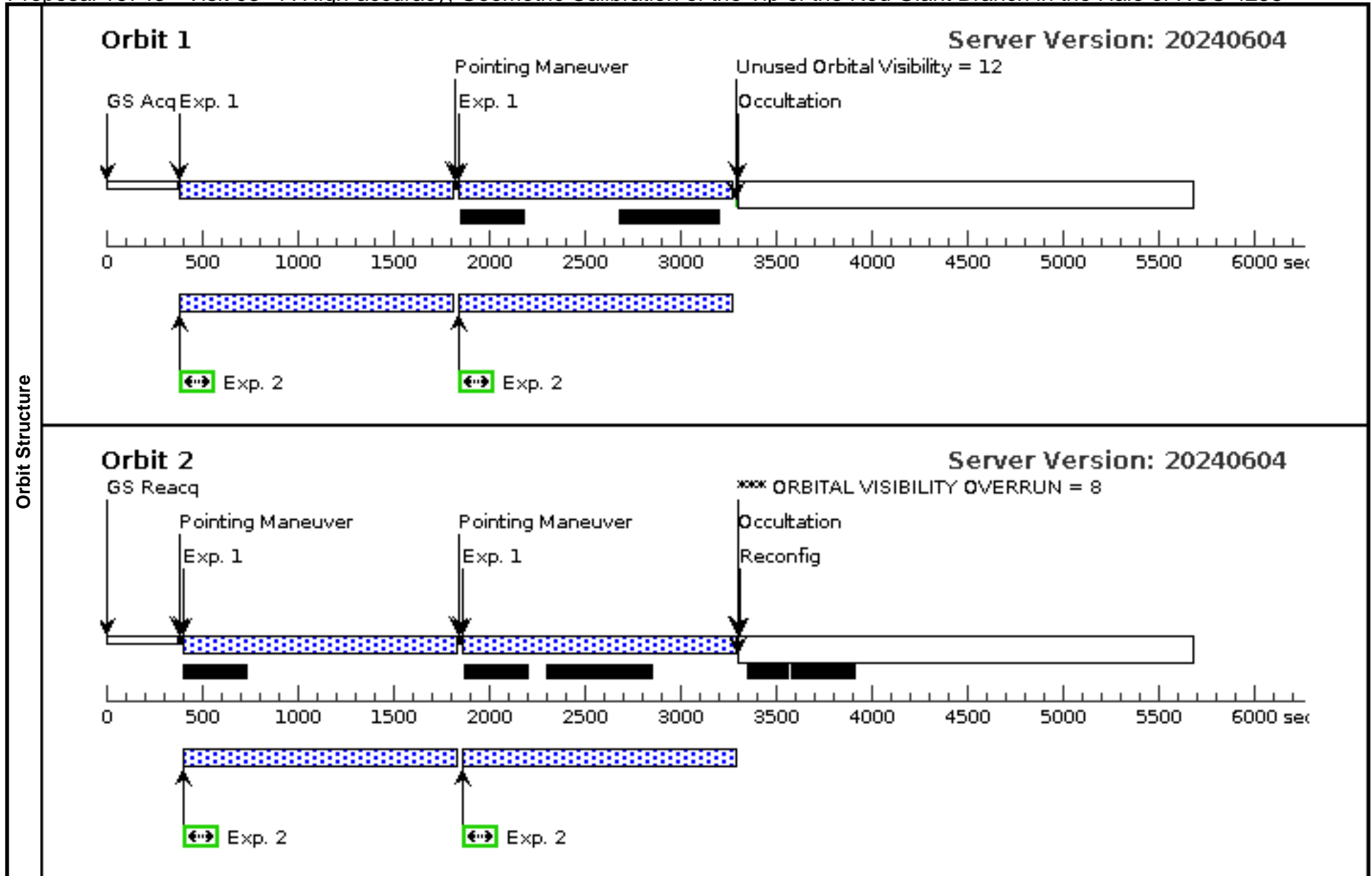
Visit	Proposal 16743, Visit 02, completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: ORIENT 313D TO 313 D; VISIBILITY INTERVAL 3302 S										
	(Visit 02) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365				Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false				(1-2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(1)	M-106-HALO-E1	RA: 12 19 56.3182 (184.9846592d) Dec: +47 14 3.22 (47.23423d) Equinox: J2000		Epoch of Position: 2015.5		V=(?) muB_BKG = 29 mag/arcsec2		Reference Frame: SIMBAD		
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[HALO]										
	(2)	M-106-HALO-E2	RA: 12 19 54.7795 (184.9782479d) Dec: +47 20 6.59 (47.33516d) Equinox: J2000		Epoch of Position: 2015.5		V=(?) muB_BKG = 29 mag/arcsec2		Reference Frame: SIMBAD		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[HALO]											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(2) M-106-HALO-E2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPAR S100		Pattern 1, Exps 1-2 in Visit 02 (1)	1402.936813 Secs (5611.747 Secs)		
								Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 02	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1] [2]
	2	ACS Parallel 1	(1) M-106-HALO-E1	ACS/WFC, ACCUM, WFC-FIX	F814W	CR-SPLIT=NO		Pattern 1, Exps 1-2 in Visit 02 (1)	2550 Secs (5146 Secs)		
							Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 02	[==>1225.0 Secs (Pattern 1)] [==>1307.0 Secs (Pattern 2)] [==>1307.0 Secs (Pattern 3)] [==>1307.0 Secs (Pattern 4)]		[1] [2]	



Proposal 16743 - Visit 03 - A High-accuracy, Geometric Calibration of the Tip of the Red Giant Branch in the Halo of NGC 4258

Thu Aug 08 15:00:40 GMT 2024

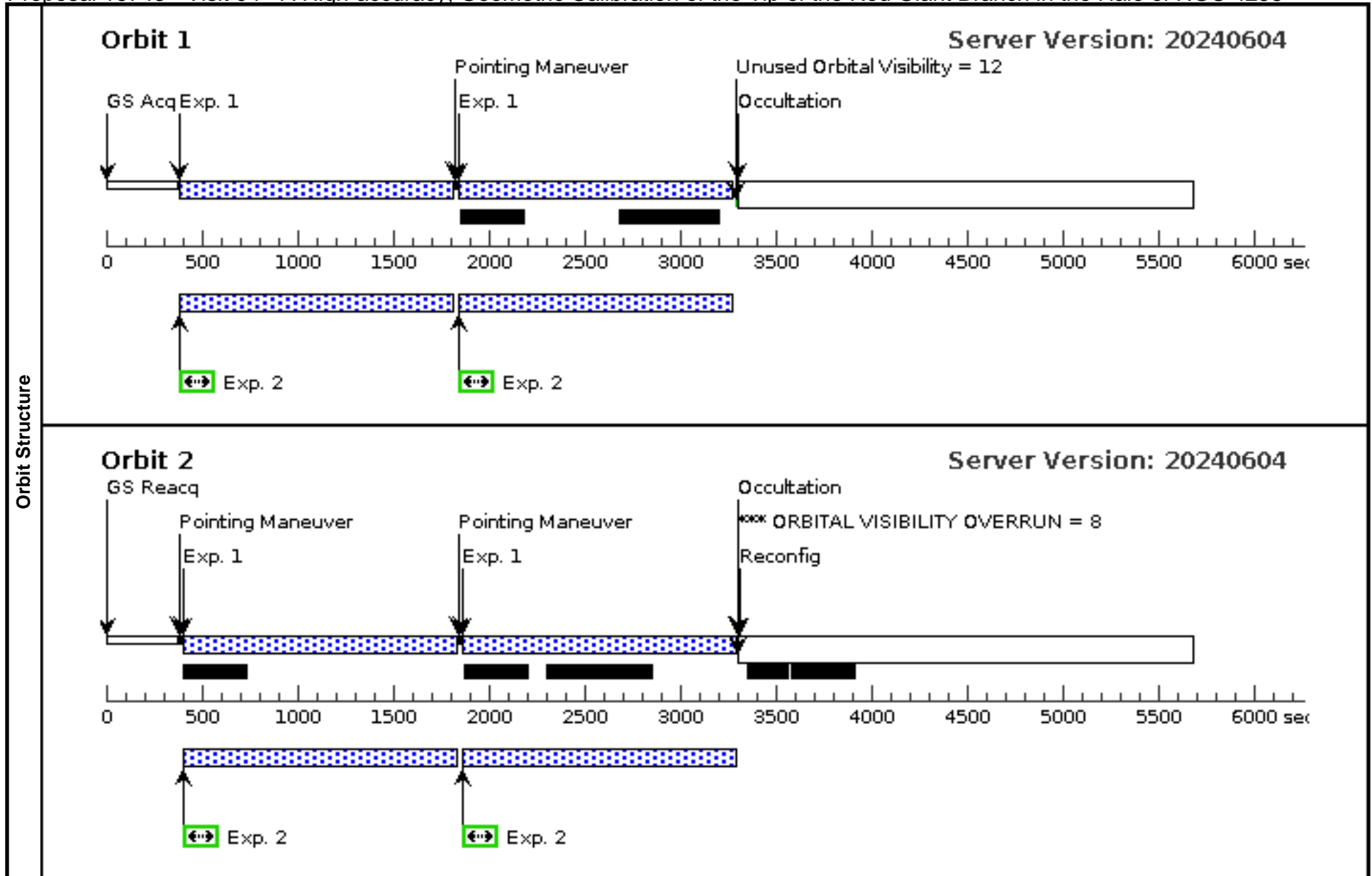
Visit	Proposal 16743, Visit 03, completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: ORIENT 129D TO 137 D; VISIBILITY INTERVAL 3302 S										
	(Visit 03) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365				Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false				(1-2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(1)	M-106-HALO-E1	RA: 12 19 56.3182 (184.9846592d) Dec: +47 14 3.22 (47.23423d) Equinox: J2000		Epoch of Position: 2015.5		V=(?) muB_BKG = 29 mag/arcsec2		Reference Frame: SIMBAD		
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[HALO]											
(2)	M-106-HALO-E2	RA: 12 19 54.7795 (184.9782479d) Dec: +47 20 6.59 (47.33516d) Equinox: J2000		Epoch of Position: 2015.5		V=(?) muB_BKG = 29 mag/arcsec2		Reference Frame: SIMBAD			
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[HALO]											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(1) M-106-HALO-E1	WFC3/IR, MULTIACCUM, IR-FIX	F110W	NSAMP=15; SAMP-SEQ=SPAR S100		Pattern 1, Exps 1-2 in Visit 03 (1)	1402.936813 Secs (5611.747 Secs)		
								Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 03	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1] [2]
	2	ACS Parallel 1	(2) M-106-HALO-E2	ACS/WFC, ACCUM, WFC-FIX	F606W	CR-SPLIT=NO		Pattern 1, Exps 1-2 in Visit 03 (1)	2550 Secs (5146 Secs)		
							Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 03	[==>1225.0 Secs (Pattern 1)] [==>1307.0 Secs (Pattern 2)] [==>1307.0 Secs (Pattern 3)] [==>1307.0 Secs (Pattern 4)]		[1] [2]	



Proposal 16743 - Visit 04 - A High-accuracy, Geometric Calibration of the Tip of the Red Giant Branch in the Halo of NGC 4258

Thu Aug 08 15:00:40 GMT 2024

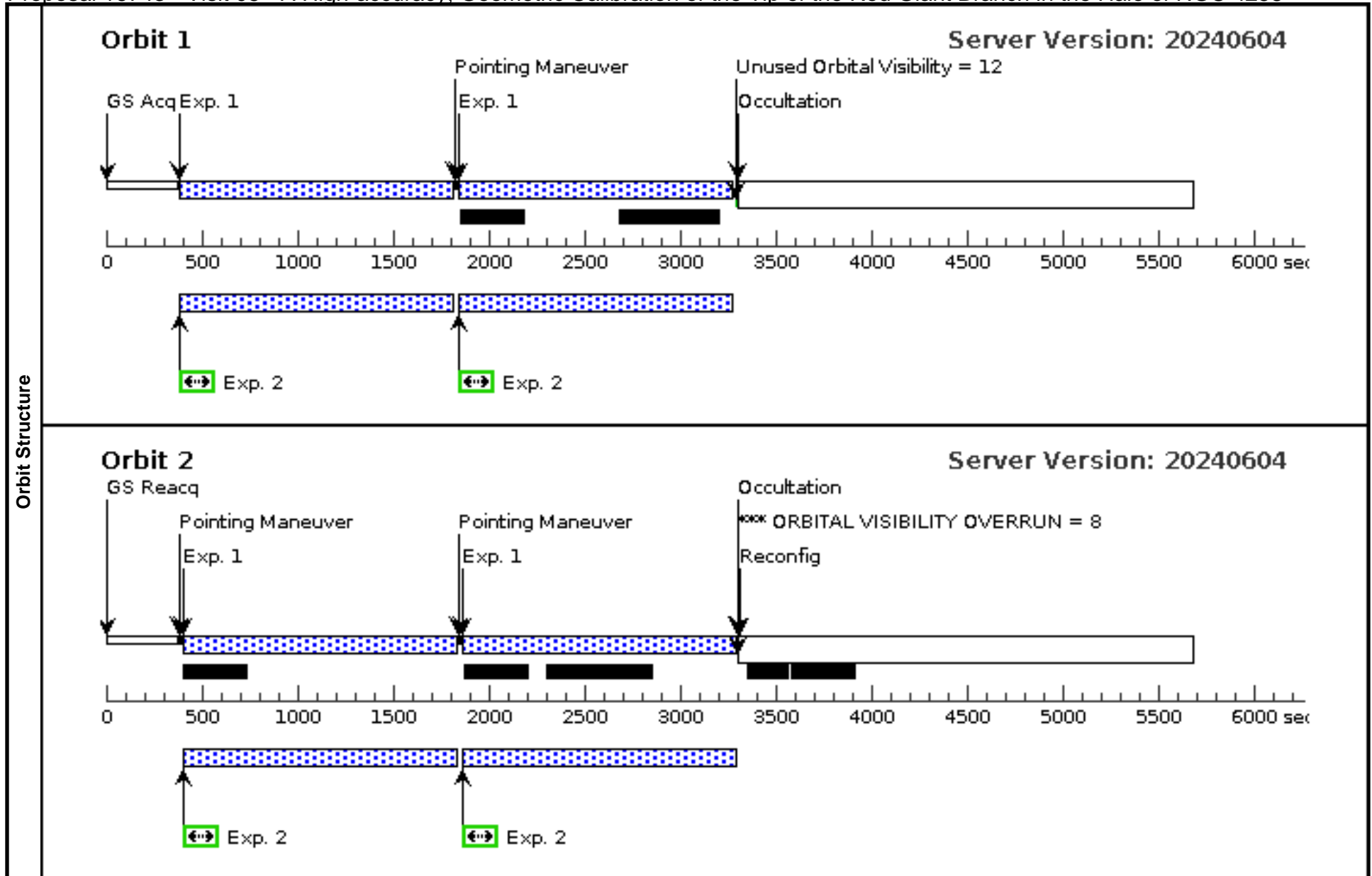
Visit	Proposal 16743, Visit 04, completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: ORIENT 313D TO 313 D; VISIBILITY INTERVAL 3302 S										
	(Visit 04) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365				Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false				(1-2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(1)	M-106-HALO-E1	RA: 12 19 56.3182 (184.9846592d) Dec: +47 14 3.22 (47.23423d) Equinox: J2000		Epoch of Position: 2015.5		V=(?) muB_BKG = 29 mag/arcsec2		Reference Frame: SIMBAD		
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[HALO]</i>										
(2)	M-106-HALO-E2	RA: 12 19 54.7795 (184.9782479d) Dec: +47 20 6.59 (47.33516d) Equinox: J2000		Epoch of Position: 2015.5		V=(?) muB_BKG = 29 mag/arcsec2		Reference Frame: SIMBAD			
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[HALO]</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(2) M-106-HALO-E2	WFC3/IR, MULTIACCUM, IR-FIX	F110W	NSAMP=15; SAMP-SEQ=SPAR S100		Pattern 1, Exps 1-2 in Visit 04 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 04	1402.936813 Secs (5611.747 Secs)		
									[==>(Pattern 1)]		[1]
									[==>(Pattern 2)]		
									[==>(Pattern 3)]		[2]
								[==>(Pattern 4)]			
2	ACS Parallel 11	(1) M-106-HALO-E1	ACS/WFC, ACCUM, WFC-FIX	F606W	CR-SPLIT=NO			Pattern 1, Exps 1-2 in Visit 04 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 04	2550 Secs (5146 Secs)		
								[==>1225.0 Secs (Pattern 1)]		[1]	
								[==>1307.0 Secs (Pattern 2)]			
								[==>1307.0 Secs (Pattern 3)]		[2]	
								[==>1307.0 Secs (Pattern 4)]			



Proposal 16743 - Visit 05 - A High-accuracy, Geometric Calibration of the Tip of the Red Giant Branch in the Halo of NGC 4258

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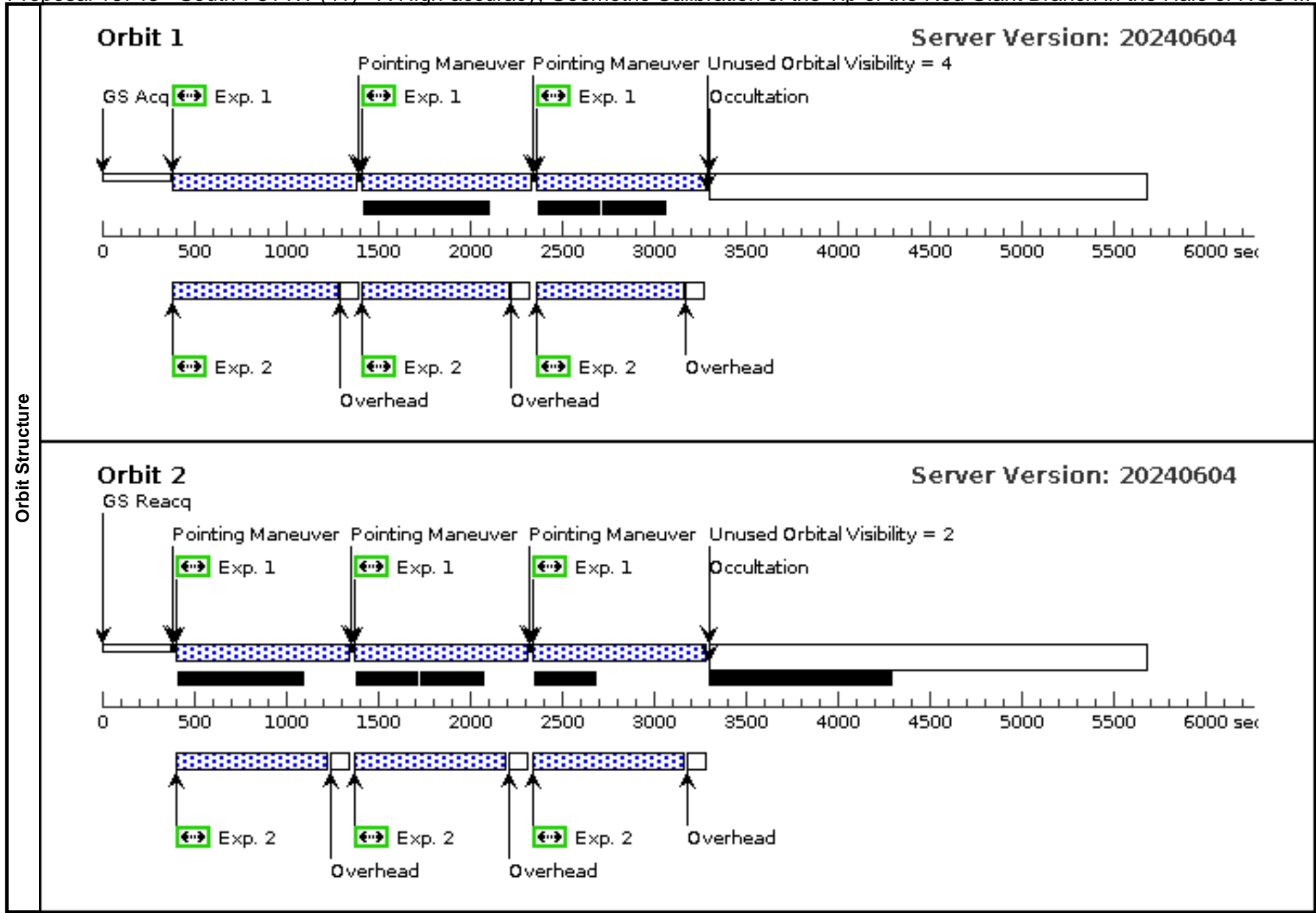
Visit	Proposal 16743, Visit 05, failed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: ORIENT 103.5D TO 108.5 D; VISIBILITY INTERVAL 3302 S										
	(Visit 05) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365				Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false				(1-2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(3)	M-106-HALO-W1	RA: 12 18 22.5848 (184.5941033d) Dec: +47 12 0.13 (47.20004d) Equinox: J2000		Epoch of Position: 2015.5		V=(?) muB_BKG = 29 mag/arcsec2		Reference Frame: SIMBAD		
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[HALO]										
	(4)	M-106-HALO-W2	RA: 12 18 8.3109 (184.5346287d) Dec: +47 17 35.67 (47.29324d) Equinox: J2000		Epoch of Position: 2015.5		V=(?) muB_BKG = 29 mag/arcsec2		Reference Frame: SIMBAD		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[HALO]											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(3) M-106-HALO-W1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPAR S100		Pattern 1, Exps 1-2 in Visit 05 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 05	1402.936813 Secs (5611.747 Secs)		
										[==>(Pattern 1)]	[1]
										[==>(Pattern 2)]	[2]
2	ACS Parallel 1	(4) M-106-HALO-W2	ACS/WFC, ACCUM, WFC-FIX	F814W	CR-SPLIT=NO			Pattern 1, Exps 1-2 in Visit 05 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 05	2550 Secs (5146 Secs)		
									[==>1225.0 Secs (Pattern 1)]	[1]	
									[==>1307.0 Secs (Pattern 2)]	[2]	
									[==>1307.0 Secs (Pattern 3)]	[2]	
									[==>1307.0 Secs (Pattern 4)]	[2]	



Proposal 16743 - South-F814W (41) - A High-accuracy, Geometric Calibration of the Tip of the Red Giant Branch in the Halo of NGC ...

Thu Aug 08 15:00:40 GMT 2024

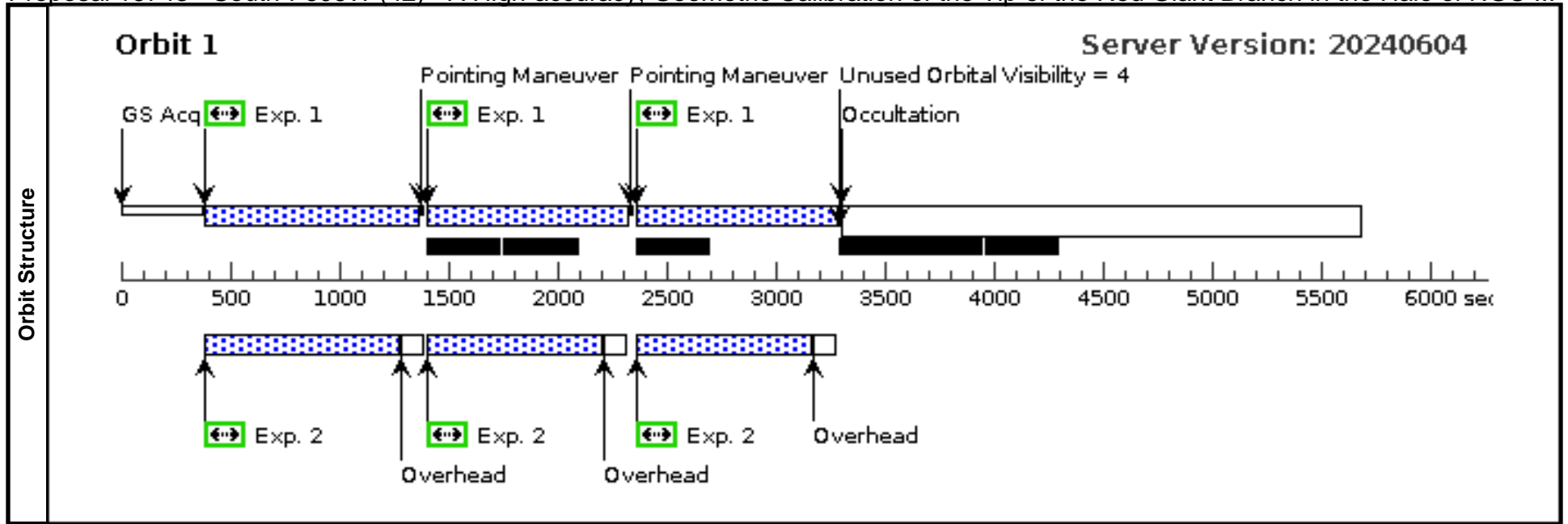
Visit	Proposal 16743, South-F814W (41) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 100%; ORIENT 230D TO 280 D; VISIBILITY INTERVAL 3302 S Comments: Southern Field; ORIENT Tier2; 814 2 orbits									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(7)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=true	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.170 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.23 Angle Between Sides= Center Pattern=false	(1-2)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	M-106-OUTER-S	RA: 12 18 50.8374 (184.7118225d) Dec: +47 08 59.69 (47.14991d) Equinox: J2000	Epoch of Position: 2015.5	V=(?) muB_BKG = 29 mag/arcsec2	Reference Frame: SIMBAD				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[HALO]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(5) M-106-OUTER-S	ACS/WFC, ACCUM, WFC-FIX	F814W			Pattern 7, Exps 1-2 in South-F814W (41) (7) Prime + Parallel Group 1-2 in Pattern 7, Exps 1-2 in South-F814W (41)	1200 Secs (4824 Secs) [==>794.0 Secs (Pattern 1,1)] [==>794.0 Secs (Pattern 1,2)] [==>794.0 Secs (Pattern 1,3)] [==>814.0 Secs (Pattern 2,1)] [==>814.0 Secs (Pattern 2,2)] [==>814.0 Secs (Pattern 2,3)]	[1] [2]
2		(5) M-106-OUTER-S	WFC3/UVIS, ACCUM, UVIS-FIX	F814W			Pattern 7, Exps 1-2 in South-F814W (41) (7) Prime + Parallel Group 1-2 in Pattern 7, Exps 1-2 in South-F814W (41)	2550 Secs (4942 Secs) [==>870.0 Secs (Pattern 1,1)] [==>800 Secs (Pattern 1,2)] [==>800 Secs (Pattern 1,3)] [==>824.0 Secs (Pattern 2,1)] [==>824.0 Secs (Pattern 2,2)] [==>824.0 Secs (Pattern 2,3)]	[1] [2]	



Proposal 16743 - South-F606W (42) - A High-accuracy, Geometric Calibration of the Tip of the Red Giant Branch in the Halo of NGC ...

Thu Aug 08 15:00:40 GMT 2024

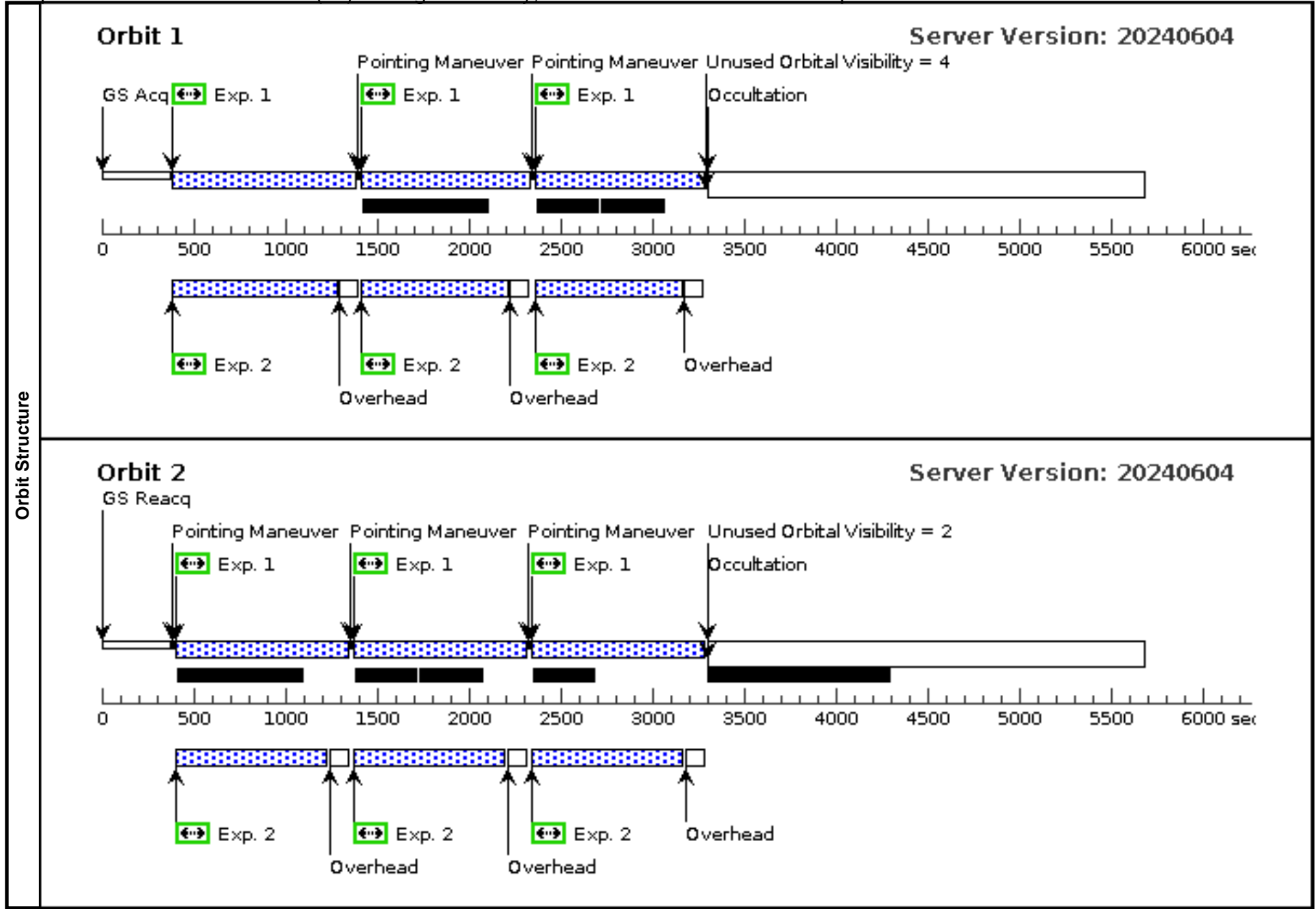
Visit	Proposal 16743, South-F606W (42) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 100%; SAME ORIENT AS 41; VISIBILITY INTERVAL 3302 S <i>Comments: Southern Field; ORIENT Tier2; 606 1 orbit</i>									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
(6)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false				(1-2)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(5)	M-106-OUTER-S	RA: 12 18 50.8374 (184.7118225d) Dec: +47 08 59.69 (47.14991d) Equinox: J2000	Epoch of Position: 2015.5		V=(?) muB_BKG = 29 mag/arcsec2	Reference Frame: SIMBAD			
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[HALO]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(5) M-106-OUTER-S	ACS/WFC, ACCUM, WFC-FIX	F606W			Pattern 6, Exps 1-2 in South-F606W (42) (6) Prime + Parallel Group 1-2 in Pattern 6, Exps 1-2 in South-F606W (42)	1200 Secs (2373 Secs) [==>775.0 Secs (Pattern 1)] [==>799.0 Secs (Pattern 2)] [==>799.0 Secs (Pattern 3)]	[1]
	2		(5) M-106-OUTER-S	WFC3/UVIS, ACCUM, UVIS-FIX	F606W			Pattern 6, Exps 1-2 in South-F606W (42) (6) Prime + Parallel Group 1-2 in Pattern 6, Exps 1-2 in South-F606W (42)	2550 Secs (2460 Secs) [==>860.0 Secs (Pattern 1)] [==>800.0 Secs (Pattern 2)] [==>800 Secs (Pattern 3)]	[1]



Proposal 16743 - North-F814W (31) - A High-accuracy, Geometric Calibration of the Tip of the Red Giant Branch in the Halo of NGC 4...

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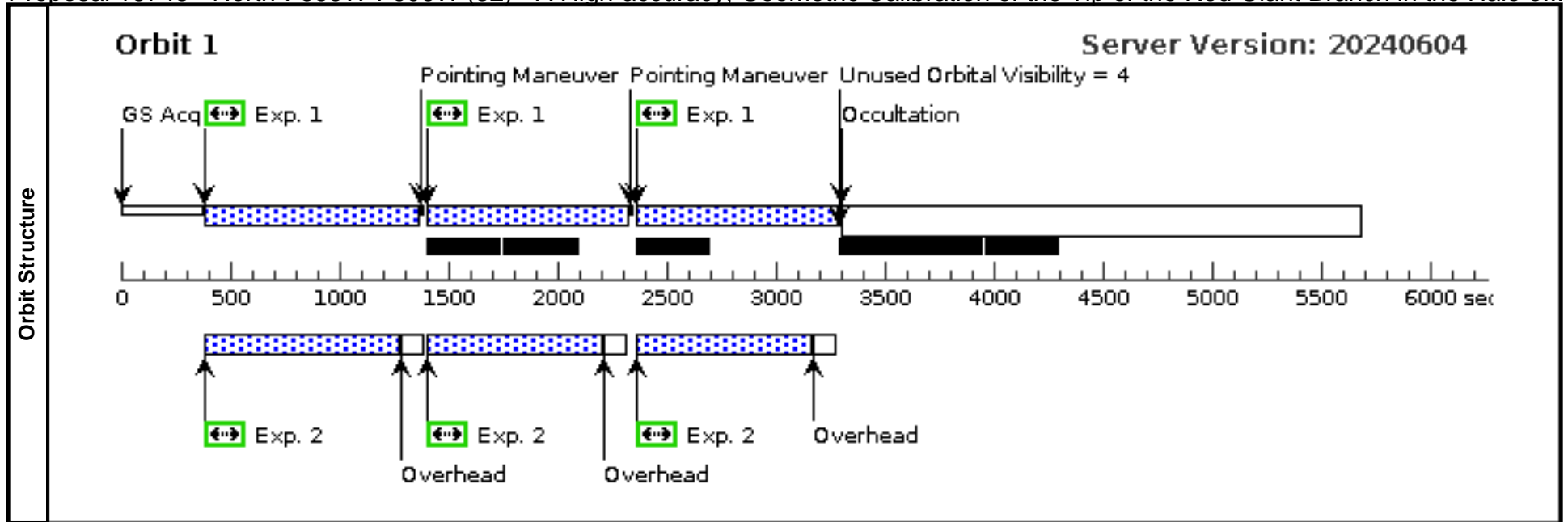
Visit	Proposal 16743, North-F814W (31) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 100%; ORIENT 25D TO 80 D; ORIENT 275D TO 345 D; VISIBILITY INTERVAL 3302 S Comments: Rescheduled Field North -- F814W; 2 orbits									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(7)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=true	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.170 Line Spacing=	(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	M-106-OUTER-N	RA: 12 19 5.7299 (184.7738746d) Dec: +47 23 37.45 (47.39374d) Equinox: J2000	Epoch of Position: 2015.5	V=? muB_BKG = 29 mag/arcsec2	Reference Frame: SIMBAD				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[HALO]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(6) M-106-OUTER-N	ACS/WFC, ACCUM, WFC-FIX	F814W				Pattern 7, Exps 1-2 in North-F814W (31) (7) Prime + Parallel Group 1-2 in Pattern 7, Exps 1-2 in North-F814W (31)	1200 Secs (4824 Secs) [==>794.0 Secs (Pattern 1,1)] [==>794.0 Secs (Pattern 1,2)] [==>794.0 Secs (Pattern 1,3)] [==>814.0 Secs (Pattern 2,1)] [==>814.0 Secs (Pattern 2,2)] [==>814.0 Secs (Pattern 2,3)]
2		(6) M-106-OUTER-N	WFC3/UVIS, ACCUM, UVIS-FIX	F814W				Pattern 7, Exps 1-2 in North-F814W (31) (7) Prime + Parallel Group 1-2 in Pattern 7, Exps 1-2 in North-F814W (31)	2550 Secs (4942 Secs) [==>870.0 Secs (Pattern 1,1)] [==>800 Secs (Pattern 1,2)] [==>800 Secs (Pattern 1,3)] [==>824.0 Secs (Pattern 2,1)] [==>824.0 Secs (Pattern 2,2)] [==>824.0 Secs (Pattern 2,3)]	[1] [2]



Proposal 16743 - North-F555W-F606W (32) - A High-accuracy, Geometric Calibration of the Tip of the Red Giant Branch in the Halo o...

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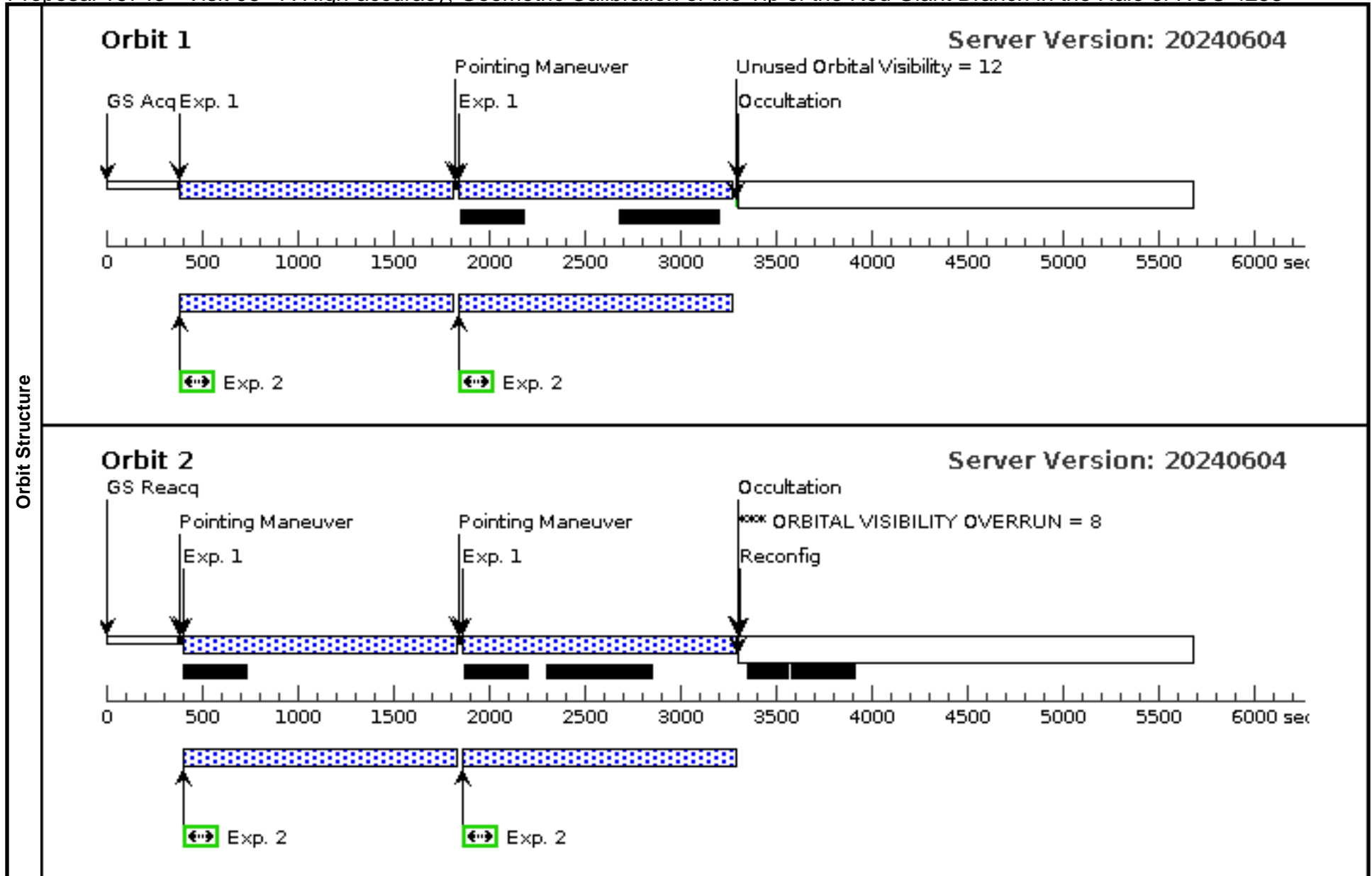
Visit	Proposal 16743, North-F555W-F606W (32) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 100%; SAME ORIENT AS 31; VISIBILITY INTERVAL 3302 S Comments: Rescheduled Field North -- F555W in primary and F606W in parallel; 1 orbit									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(6)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false		(1-2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	M-106-OUTER-N	RA: 12 19 5.7299 (184.7738746d) Dec: +47 23 37.45 (47.39374d) Equinox: J2000	Epoch of Position: 2015.5	V=(?) muB_BKG = 29 mag/arcsec2	Reference Frame: SIMBAD				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[HALO]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(6) M-106-OUTER-N	ACS/WFC, ACCUM, WFC-FIX	F555W			Pattern 6, Exps 1-2 in North-F555W-F606W (32) (6) Prime + Parallel Group 1-2 in Pattern 6, Exps 1-2 in North-F555W-F606W (32)	1200 Secs (2373 Secs) [==>775.0 Secs (Pattern 1)] [==>799.0 Secs (Pattern 2)] [==>799.0 Secs (Pattern 3)]	[1]
	2		(6) M-106-OUTER-N	WFC3/UVIS, ACCUM, UVIS-FIX	F606W			Pattern 6, Exps 1-2 in North-F555W-F606W (32) (6) Prime + Parallel Group 1-2 in Pattern 6, Exps 1-2 in North-F555W-F606W (32)	2550 Secs (2460 Secs) [==>860.0 Secs (Pattern 1)] [==>800.0 Secs (Pattern 2)] [==>800 Secs (Pattern 3)]	[1]



Proposal 16743 - Visit 06 - A High-accuracy, Geometric Calibration of the Tip of the Red Giant Branch in the Halo of NGC 4258

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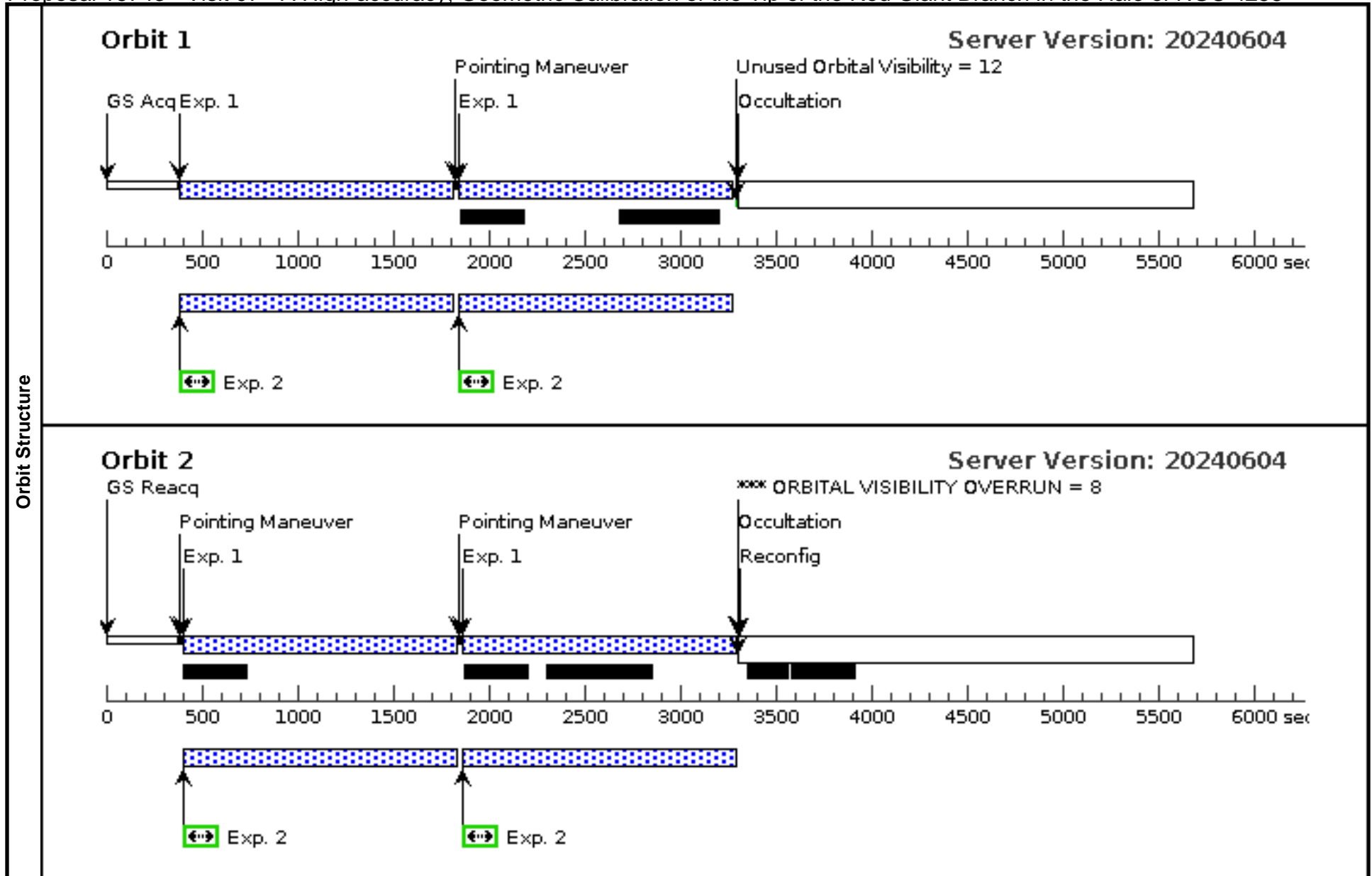
Visit	Proposal 16743, Visit 06, completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: ORIENT 282.5D TO 293.5 D; VISIBILITY INTERVAL 3302 S										
	(Visit 06) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365				Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false				(1-2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(3)	M-106-HALO-W1	RA: 12 18 22.5848 (184.5941033d) Dec: +47 12 0.13 (47.20004d) Equinox: J2000		Epoch of Position: 2015.5		V=(?) muB_BKG = 29 mag/arcsec2		Reference Frame: SIMBAD		
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[HALO]										
	(4)	M-106-HALO-W2	RA: 12 18 8.3109 (184.5346287d) Dec: +47 17 35.67 (47.29324d) Equinox: J2000		Epoch of Position: 2015.5		V=(?) muB_BKG = 29 mag/arcsec2		Reference Frame: SIMBAD		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[HALO]											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(4) M-106-HALO-W2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPAR S100		Pattern 1, Exps 1-2 in Visit 06 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 06	1402.936813 Secs (5611.747 Secs)		
										[==>(Pattern 1)]	[1]
										[==>(Pattern 2)]	[2]
2	ACS Parallel 1	(3) M-106-HALO-W1	ACS/WFC, ACCUM, WFC-FIX	F814W	CR-SPLIT=NO			Pattern 1, Exps 1-2 in Visit 06 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 06	2550 Secs (5146 Secs)		
									[==>1225.0 Secs (Pattern 1)]	[1]	
									[==>1307.0 Secs (Pattern 2)]	[2]	
									[==>1307.0 Secs (Pattern 3)]	[2]	
									[==>1307.0 Secs (Pattern 4)]	[2]	



Proposal 16743 - Visit 07 - A High-accuracy, Geometric Calibration of the Tip of the Red Giant Branch in the Halo of NGC 4258

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Visit	Proposal 16743, Visit 07, failed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: ORIENT 103.5D TO 108.5 D; VISIBILITY INTERVAL 3302 S										
	(Visit 07) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365				Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false				(1-2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(3)	M-106-HALO-W1	RA: 12 18 22.5848 (184.5941033d) Dec: +47 12 0.13 (47.20004d) Equinox: J2000		Epoch of Position: 2015.5		V=(?) muB_BKG = 29 mag/arcsec2		Reference Frame: SIMBAD		
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[HALO]										
	(4)	M-106-HALO-W2	RA: 12 18 8.3109 (184.5346287d) Dec: +47 17 35.67 (47.29324d) Equinox: J2000		Epoch of Position: 2015.5		V=(?) muB_BKG = 29 mag/arcsec2		Reference Frame: SIMBAD		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[HALO]											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(3) M-106-HALO-W1	WFC3/IR, MULTIACCUM, IR-FIX	F110W	NSAMP=15; SAMP-SEQ=SPAR S100		Pattern 1, Exps 1-2 in Visit 07 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 07	1402.936813 Secs (5611.747 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1] [2]
	2	ACS Parallel 11	(4) M-106-HALO-W2	ACS/WFC, ACCUM, WFC-FIX	F606W	CR-SPLIT=NO		Pattern 1, Exps 1-2 in Visit 07 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 07	2550 Secs (5146 Secs) [==>1225.0 Secs (Pattern 1)] [==>1307.0 Secs (Pattern 2)] [==>1307.0 Secs (Pattern 3)] [==>1307.0 Secs (Pattern 4)]		[1] [2]



Proposal 16743 - Visit 08 - A High-accuracy, Geometric Calibration of the Tip of the Red Giant Branch in the Halo of NGC 4258

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Visit	Proposal 16743, Visit 08, completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: ORIENT 282.5D TO 293.5 D; VISIBILITY INTERVAL 3302 S										
	(Visit 08) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365				Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false				(1-2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(3)	M-106-HALO-W1	RA: 12 18 22.5848 (184.5941033d) Dec: +47 12 0.13 (47.20004d) Equinox: J2000		Epoch of Position: 2015.5		V=(?) muB_BKG = 29 mag/arcsec2		Reference Frame: SIMBAD		
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[HALO]										
	(4)	M-106-HALO-W2	RA: 12 18 8.3109 (184.5346287d) Dec: +47 17 35.67 (47.29324d) Equinox: J2000		Epoch of Position: 2015.5		V=(?) muB_BKG = 29 mag/arcsec2		Reference Frame: SIMBAD		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[HALO]											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(4) M-106-HALO-W 2	WFC3/IR, MULTIACCUM, IR-FIX	F110W	NSAMP=15; SAMP-SEQ=SPAR S100		Pattern 1, Exps 1-2 in Visit 08 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 08	1402.936813 Secs (5611.747 Secs)		
										[==>(Pattern 1)]	[1]
										[==>(Pattern 2)]	[2]
2	ACS Paralle 11	(3) M-106-HALO-W 1	ACS/WFC, ACCUM, WFC-FIX	F606W	CR-SPLIT=NO			Pattern 1, Exps 1-2 in Visit 08 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 08	2550 Secs (5146 Secs)		
									[==>1225.0 Secs (Pattern 1)]	[1]	
									[==>1307.0 Secs (Pattern 2)]	[2]	
									[==>1307.0 Secs (Pattern 3)]	[2]	
									[==>1307.0 Secs (Pattern 4)]	[2]	

