



# 15265 - MASSIVE+: The Growth Histories of MASSIVE Survey Galaxies from their Globular Cluster Colors

Cycle: 25, 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) NGC-57 ANY	ACS/WFC WFC3/UVIS	1	02-Apr-2019 09:00:20.0	yes
02	(2) NGC-410 ANY	ACS/WFC WFC3/UVIS	1	02-Apr-2019 09:00:21.0	yes
03	(3) NGC-533 ANY	ACS/WFC WFC3/UVIS	1	02-Apr-2019 09:00:22.0	yes

Proposal 15265 (STScI Edit Number: 0, Created: Tuesday, April 2, 2019 at 8:00:41 AM Eastern Standard Time) - Overview

<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>
04	(4) NGC-741 ANY	ACS/WFC WFC3/UVIS	1	02-Apr-2019 09:00:23.0	yes
05	(5) NGC-777 ANY	ACS/WFC WFC3/UVIS	1	02-Apr-2019 09:00:24.0	yes
06	(6) NGC-1016 ANY	ACS/WFC WFC3/UVIS	1	02-Apr-2019 09:00:25.0	yes
07	(7) NGC-1129 ANY	ACS/WFC WFC3/UVIS	1	02-Apr-2019 09:00:26.0	yes
08	(8) NGC-1600 ANY	ACS/WFC WFC3/UVIS	1	02-Apr-2019 09:00:27.0	yes
21	(9) NGC-2340 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	02-Apr-2019 09:00:29.0	yes
71	(9) NGC-2340 ANY	ACS/WFC WFC3/UVIS	1	02-Apr-2019 09:00:30.0	yes
16	(10) NGC-3158 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	02-Apr-2019 09:00:32.0	yes
19	(11) NGC-3842 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	02-Apr-2019 09:00:34.0	yes
17	(12) NGC-4073 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	02-Apr-2019 09:00:36.0	yes
18	(13) NGC-4839 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	02-Apr-2019 09:00:38.0	yes
14	(14) NGC-4914 ANY	ACS/WFC WFC3/UVIS	1	02-Apr-2019 09:00:39.0	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>
20	(15) NGC-7242 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	02-Apr-2019 09:00:41.0	yes

22 Total Orbits Used

### **ABSTRACT**

The MASSIVE survey is targeting the ~100 most massive galaxies within 108 Mpc that are visible in the northern sky. These most massive galaxies in the present-day universe reside in a surprisingly wide variety of environments, from rich clusters to fossil groups to near isolation. We propose to use WFC3/UVIS and ACS to carry out a deep imaging study of the globular cluster populations around a selected subset of the MASSIVE targets. Though much is known about GC systems of bright galaxies in rich clusters, we know surprisingly little about the effects of environment on these systems. The MASSIVE sample provides a golden opportunity to learn about the systematics of GC systems and what they can tell us about environmental drivers on the evolution of the highest mass galaxies. The most pressing questions to be addressed include: (1) Do isolated giants have the same constant mass fraction of GCs to total halo mass as BCGs of similar luminosity? (2) Do their GC systems show the same color (metallicity) distribution, which is an outcome of the mass spectrum of gas-rich halos during hierarchical growth? (3) Do the GCs in isolated high-mass galaxies follow the same radial distribution versus metallicity as in rich environments (a test of the relative importance of growth by accretion)? (4) Do the GCs of galaxies in sparse environments follow the same mass function? Our proposed second-band imaging will enable us to secure answers to these questions and add enormously to the legacy value of existing HST imaging of the highest mass galaxies in the universe.

### **OBSERVING DESCRIPTION**

WFC3/UVIS F475X imaging of a sample of 15 galaxies selected from the MASSIVE Survey.

9 galaxies have 1 orbit each [WFC3/UVIS/F475X prime + ACS/F475W par]

6 galaxies have 2 orbits each; [extra orbit is: WFC3/IR/F110W prime + ACS/F814 par]

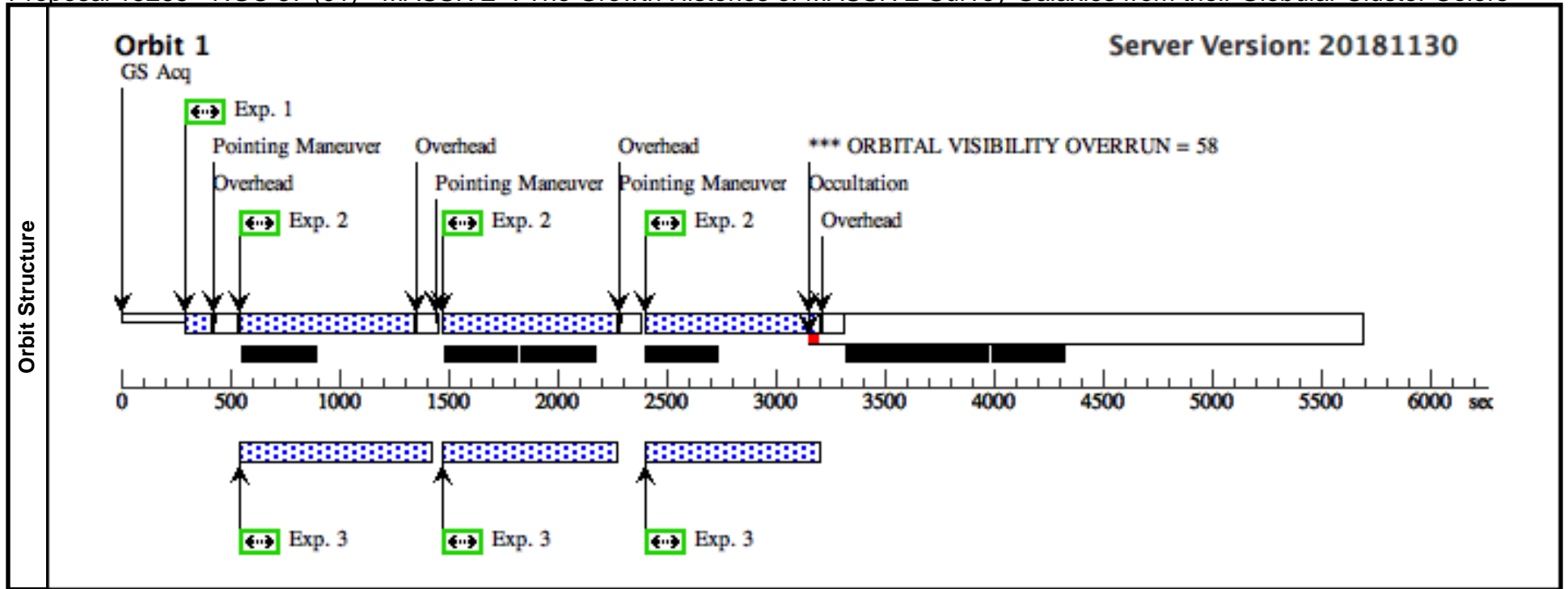
total of 21 orbits.

Thus, all orbits now have parallel imaging with ACS/WFC.

Proposal 15265 - NGC 57 (01) - MASSIVE+: The Growth Histories of MASSIVE Survey Galaxies from their Globular Cluster Colors

Tue Apr 02 13:00:42 GMT 2019

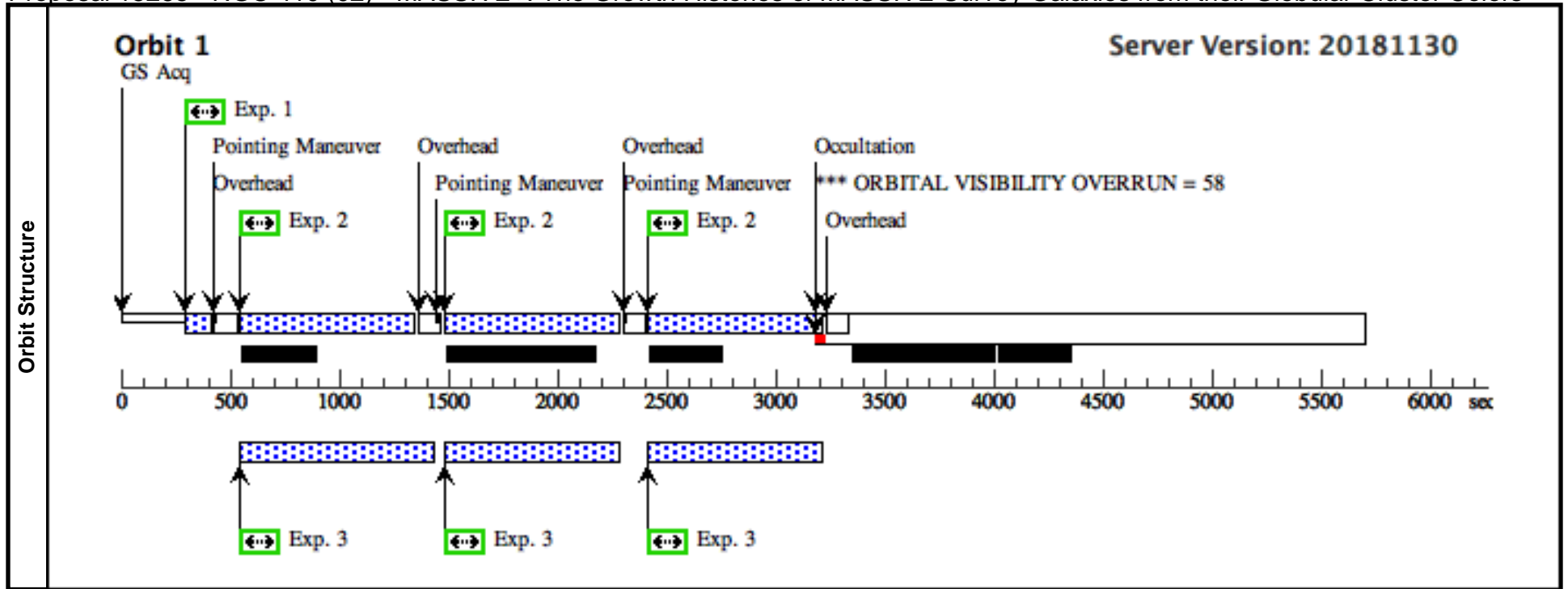
<b>Visit</b>	<b>Proposal 15265, NGC 57 (01), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none)										
	(NGC 57 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
<b>Diagnosics</b>											
<b>Patterns</b>	#	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=83.5 Number Of Points=3 Angle Between Sides= Point Spacing=1.414 Center Pattern=true Line Spacing=								(2-3)	
<b>Fixed Targets</b>	#	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>		<b>Miscellaneous</b>		
	(1)	NGC-57	RA: 00 15 30.8730 (3.8786375d) Dec: +17 19 42.22 (17.32839d) Equinox: J2000				V=11.62		Reference Frame: SIMBAD		
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[ELLIPTICAL]											
<b>Exposures</b>	#	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>		<b>Orbit</b>
	1	WFC3/F475 X - short exp (1012517)	(1) NGC-57	WFC3/UVIS, ACCUM, UVIS	F475X	FLASH=9			84 Secs (84 Secs)		
									[==>]		[1]
	2	WFC3/F475 X	(1) NGC-57	WFC3/UVIS, ACCUM, UVIS	F475X			Pattern 1, Exps 2-3 in NGC 57 (01) (1) Prime + Parallel Group 2-3 in Pattern 1, Exps 2-3 in NGC 57 (01)	798 Secs (2394 Secs)		
								[==>(Pattern 1)]			
								[==>(Pattern 2)]		[1]	
								[==>(Pattern 3)]			
3	ACS par	ANY	ACS/WFC, ACCUM, WFC	F475W				Pattern 1, Exps 2-3 in NGC 57 (01) (1) Prime + Parallel Group 2-3 in Pattern 1, Exps 2-3 in NGC 57 (01)	675 Secs (2025 Secs)		
								[==>(Pattern 1)]			
								[==>(Pattern 2)]		[1]	
								[==>(Pattern 3)]			



Proposal 15265 - NGC 410 (02) - MASSIVE+: The Growth Histories of MASSIVE Survey Galaxies from their Globular Cluster Colors

Tue Apr 02 13:00:42 GMT 2019

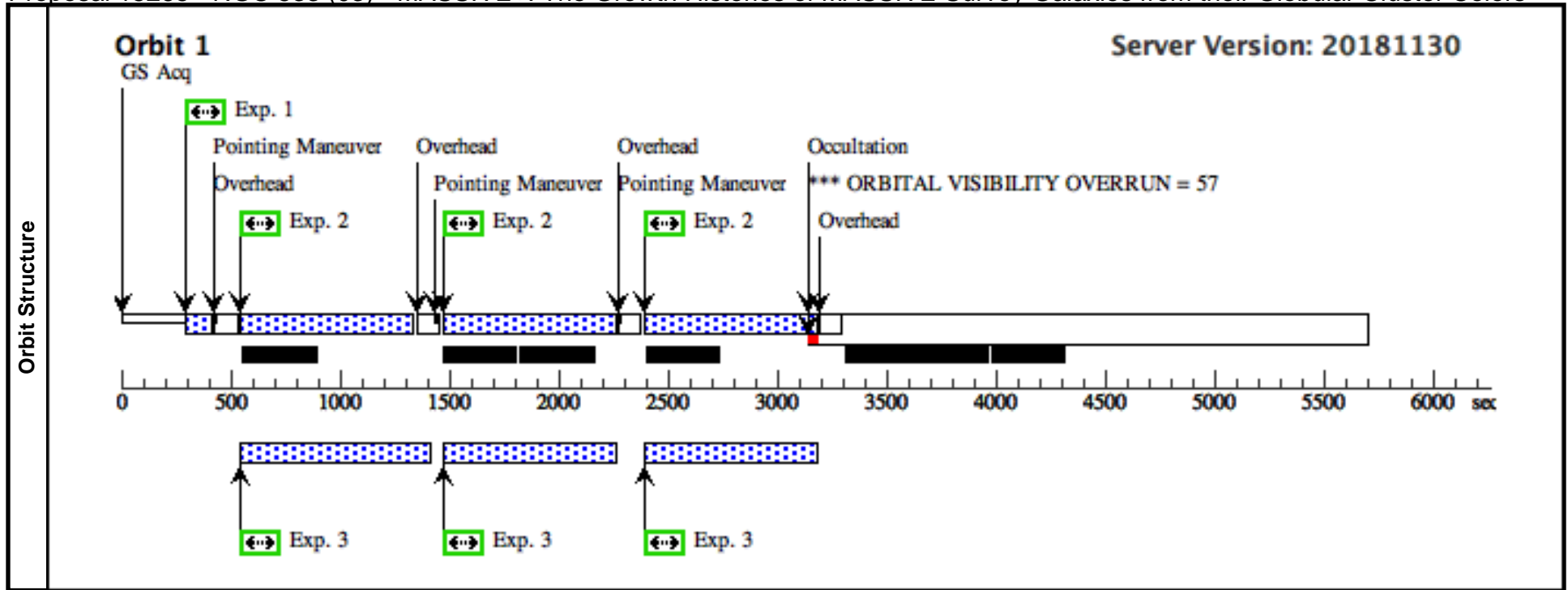
<b>Visit</b>	Proposal 15265, NGC 410 (02), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none)										
	(NGC 410 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
<b>Patterns</b>	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=83.5 Number Of Points=3 Angle Between Sides= Point Spacing=1.414 Center Pattern=true Line Spacing=								(2-3)	
<b>Fixed Targets</b>	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(2)	NGC-410	RA: 01 10 58.8720 (17.7453000d) Dec: +33 09 7.30 (33.15203d) Equinox: J2000				V=11.29		Reference Frame: SIMBAD		
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[ELLIPTICAL]											
<b>Exposures</b>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	WFC3/F475 X - short exp (1012517)	(2) NGC-410	WFC3/UVIS, ACCUM, UVIS	F475X	FLASH=9			84 Secs (84 Secs)		
									[==>]		[1]
	2	WFC3/F475 X	(2) NGC-410	WFC3/UVIS, ACCUM, UVIS	F475X			Pattern 1, Exps 2-3 in NGC 410 (02) (1) Prime + Parallel Group 2-3 in Pattern 1, Exps 2-3 in NGC 410 (02)	807 Secs (2421 Secs)		
								[==>(Pattern 1)]		[1]	
								[==>(Pattern 2)]			
								[==>(Pattern 3)]			
3	ACS par	ANY	ACS/WFC, ACCUM, WFC	F475W				Pattern 1, Exps 2-3 in NGC 410 (02) (1) Prime + Parallel Group 2-3 in Pattern 1, Exps 2-3 in NGC 410 (02)	680 Secs (2040 Secs)		
								[==>(Pattern 1)]		[1]	
								[==>(Pattern 2)]			
								[==>(Pattern 3)]			



Proposal 15265 - NGC 533 (03) - MASSIVE+: The Growth Histories of MASSIVE Survey Galaxies from their Globular Cluster Colors

Tue Apr 02 13:00:42 GMT 2019

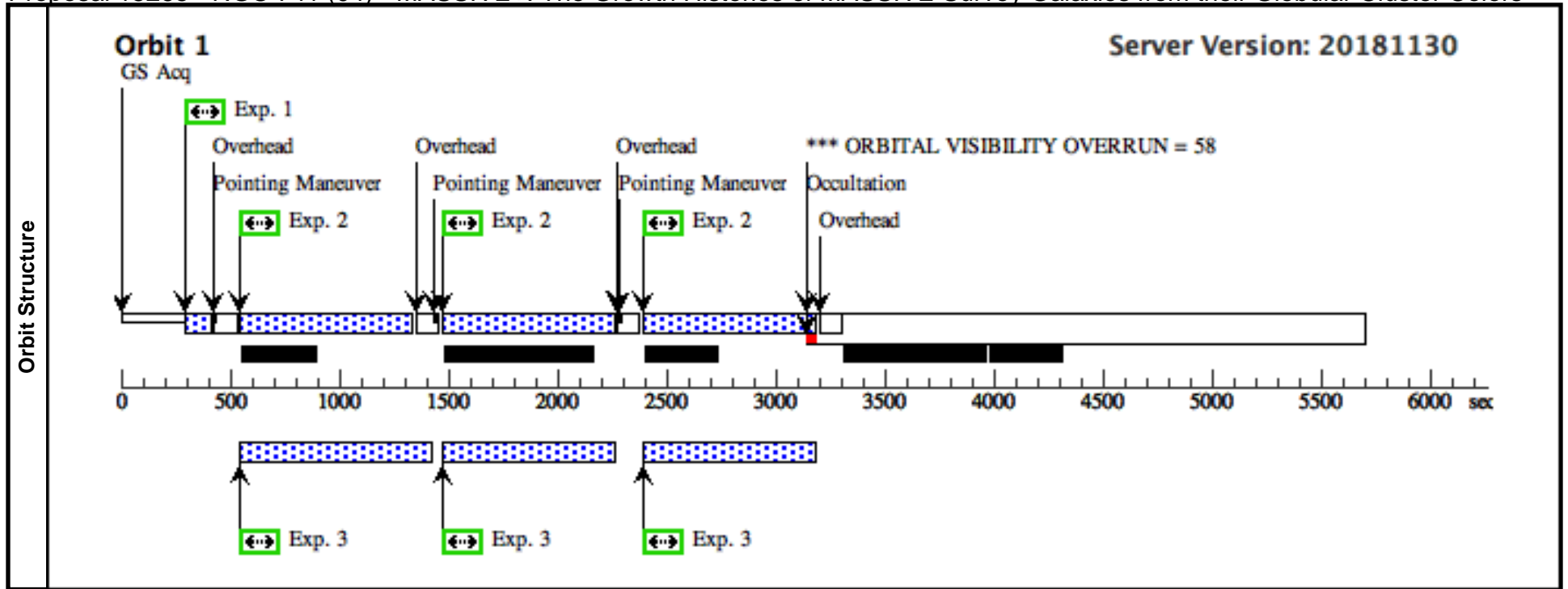
<b>Visit</b>	Proposal 15265, NGC 533 (03), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none)										
	(NGC 533 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
<b>Patterns</b>	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=83.5 Number Of Points=3 Angle Between Sides= Point Spacing=1.414 Center Pattern=true Line Spacing=								(2-3)	
<b>Fixed Targets</b>	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(3)	NGC-533	RA: 01 25 31.4320 (21.3809667d) Dec: +01 45 33.57 (1.75933d) Equinox: J2000				V=11.27		Reference Frame: SIMBAD		
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[ELLIPTICAL]											
<b>Exposures</b>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	WFC3/F475 X - short exp (1012517)	(3) NGC-533	WFC3/UVIS, ACCUM, UVIS	F475X	FLASH=9			84 Secs (84 Secs)		
									[==>]		[1]
	2	WFC3/F475 X	(3) NGC-533	WFC3/UVIS, ACCUM, UVIS	F475X			Pattern 1, Exps 2-3 in NGC 533 (03) (1) Prime + Parallel Group 2-3 in Pattern 1, Exps 2-3 in NGC 533 (03)	794 Secs (2382 Secs)		
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]		[1]	
3	ACS par	ANY	ACS/WFC, ACCUM, WFC	F475W				Pattern 1, Exps 2-3 in NGC 533 (03) (1) Prime + Parallel Group 2-3 in Pattern 1, Exps 2-3 in NGC 533 (03)	668 Secs (2004 Secs)		
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]		[1]	



Proposal 15265 - NGC 741 (04) - MASSIVE+: The Growth Histories of MASSIVE Survey Galaxies from their Globular Cluster Colors

Tue Apr 02 13:00:42 GMT 2019

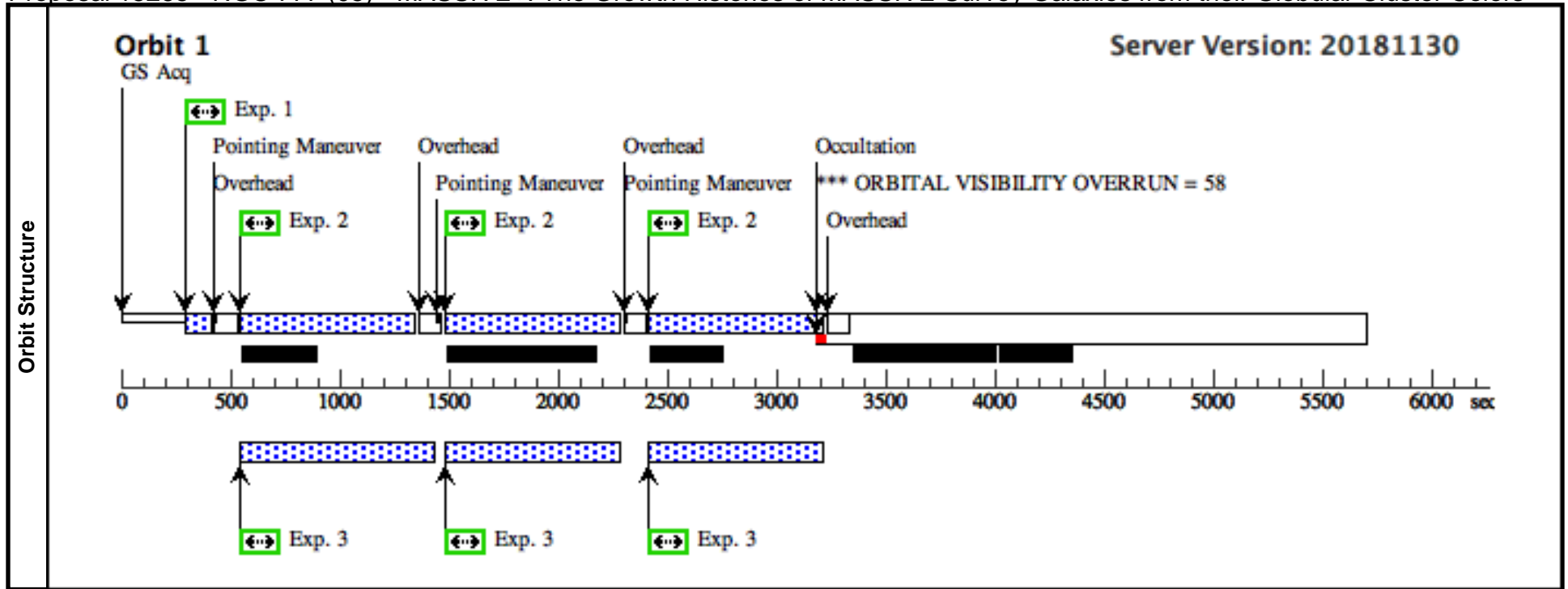
<b>Visit</b>	Proposal 15265, NGC 741 (04), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none)										
	(NGC 741 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
<b>Patterns</b>	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=83.5 Number Of Points=3 Angle Between Sides= Point Spacing=1.414 Center Pattern=true Line Spacing=								(2-3)	
<b>Fixed Targets</b>	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(4)	NGC-741	RA: 01 56 20.9590 (29.0873292d) Dec: +05 37 43.77 (5.62883d) Equinox: J2000				V=11.11		Reference Frame: SIMBAD		
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[ELLIPTICAL]											
<b>Exposures</b>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	WFC3/F475 X - short exp (1012517)	(4) NGC-741	WFC3/UVIS, ACCUM, UVIS	F475X	FLASH=9			84 Secs (84 Secs)		
									[==>]		[1]
	2	WFC3/F475 X	(4) NGC-741	WFC3/UVIS, ACCUM, UVIS	F475X			Pattern 1, Exps 2-3 in NGC 741 (04) (1) Prime + Parallel Group 2-3 in Pattern 1, Exps 2-3 in NGC 741 (04)	795 Secs (2385 Secs)		
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]		[1]	
3	ACS par	ANY	ACS/WFC, ACCUM, WFC	F475W				Pattern 1, Exps 2-3 in NGC 741 (04) (1) Prime + Parallel Group 2-3 in Pattern 1, Exps 2-3 in NGC 741 (04)	670 Secs (2010 Secs)		
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]		[1]	



Proposal 15265 - NGC 777 (05) - MASSIVE+: The Growth Histories of MASSIVE Survey Galaxies from their Globular Cluster Colors

Tue Apr 02 13:00:42 GMT 2019

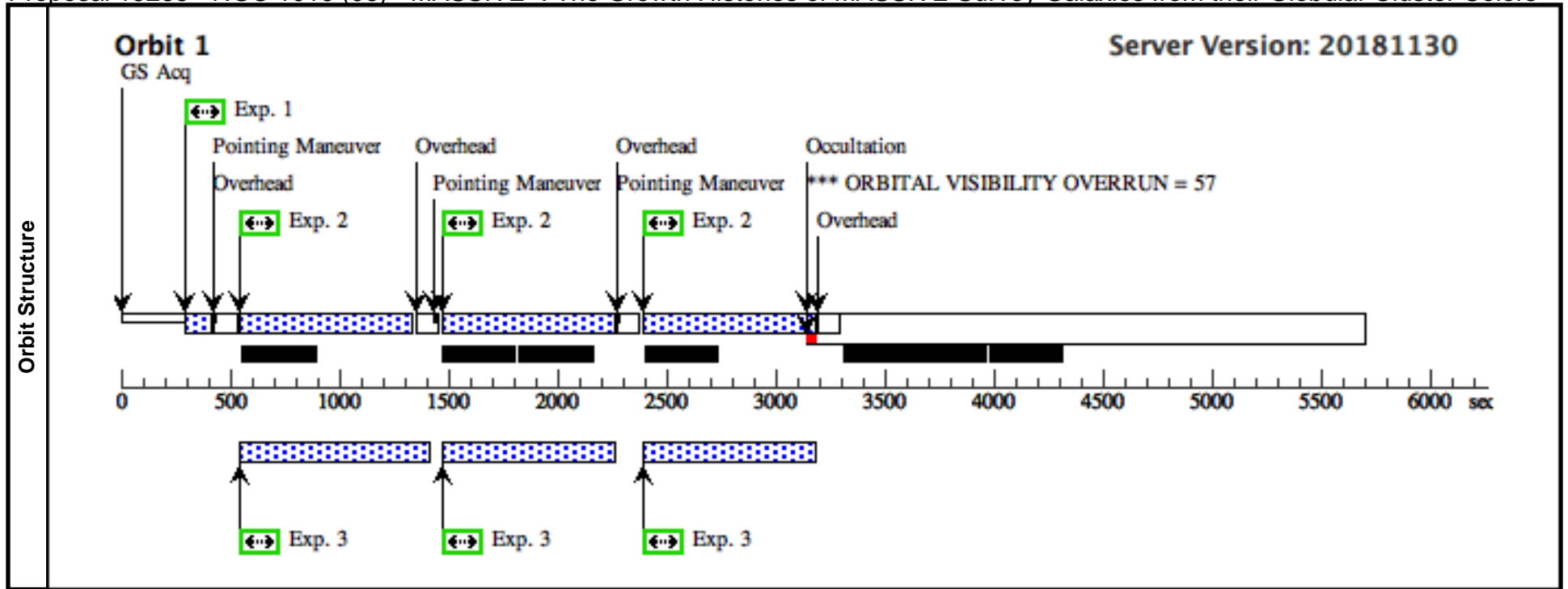
<b>Visit</b>	Proposal 15265, NGC 777 (05), completed <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none)											
	(NGC 777 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
<b>Diagnosics</b>												
<b>Patterns</b>	#	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>		
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=83.5 Number Of Points=3 Angle Between Sides= Point Spacing=1.414 Center Pattern=true Line Spacing=								(2-3)		
<b>Fixed Targets</b>	#	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>		<b>Miscellaneous</b>		
	(5)	NGC-777	RA: 02 00 14.9340 (30.0622250d) Dec: +31 25 45.78 (31.42938d) Equinox: J2000					V=11.21		Reference Frame: SIMBAD		
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[ELLIPTICAL]												
<b>Exposures</b>	#	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>		<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>		<b>Orbit</b>
	1	WFC3/F475 X - short exp (1012517)	(5) NGC-777	WFC3/UVIS, ACCUM, UVIS		F475X	FLASH=9			84 Secs (84 Secs)		
										[==>]		[1]
	2	WFC3/F475 X	(5) NGC-777	WFC3/UVIS, ACCUM, UVIS		F475X			Pattern 1, Exps 2-3 in NGC 777 (05) (1) Prime + Parallel Group 2-3 in Pattern 1, Exps 2-3 in NGC 777 (05)	807 Secs (2421 Secs)		
									[==>(Pattern 1)]		[1]	
									[==>(Pattern 2)]			
									[==>(Pattern 3)]			
3	ACS par	ANY	ACS/WFC, ACCUM, WFC		F475W				680 Secs (2040 Secs)			
									[==>(Pattern 1)]		[1]	
									[==>(Pattern 2)]			
									[==>(Pattern 3)]			



Proposal 15265 - NGC 1016 (06) - MASSIVE+: The Growth Histories of MASSIVE Survey Galaxies from their Globular Cluster Colors

Tue Apr 02 13:00:42 GMT 2019

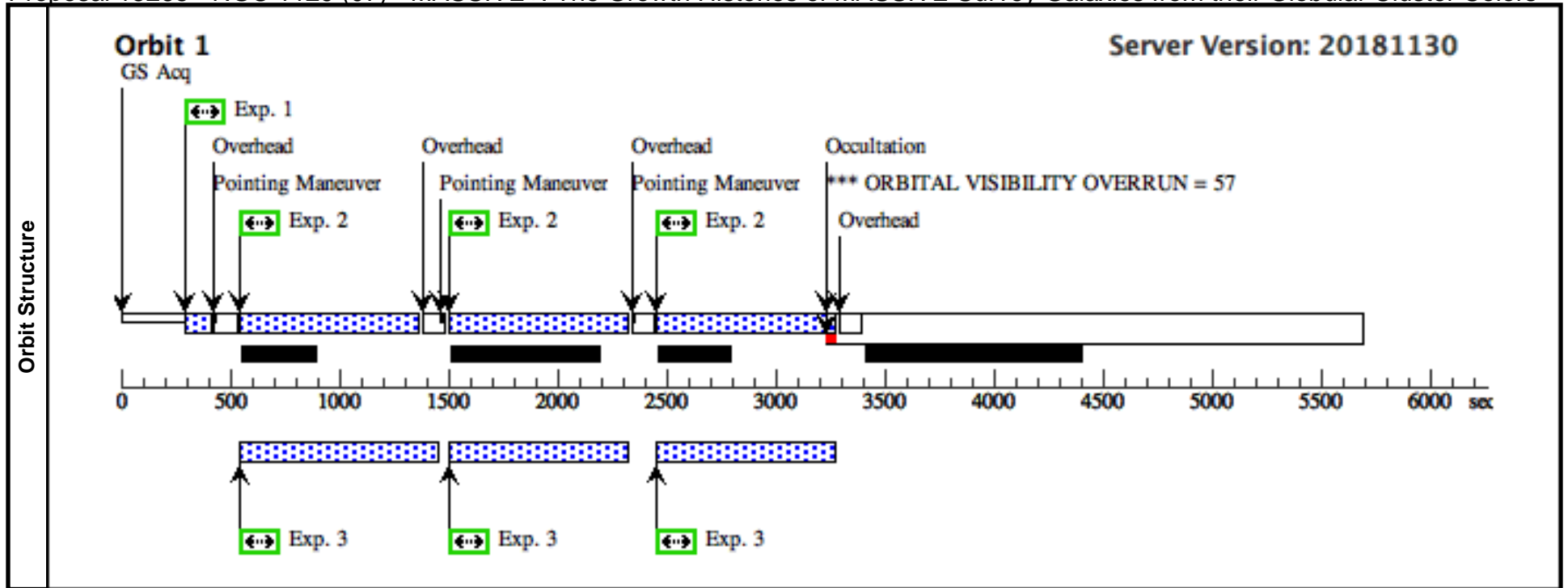
<b>Visit</b>	Proposal 15265, NGC 1016 (06), completed <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none)										
	(NGC 1016 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
<b>Diagnosics</b>											
<b>Patterns</b>	#	<b>Primary Pattern</b>				<b>Secondary Pattern</b>			<b>Exposures</b>		
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=83.5 Number Of Points=3 Angle Between Sides= Point Spacing=1.414 Center Pattern=true Line Spacing=							(2-3)		
<b>Fixed Targets</b>	#	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(6)	NGC-1016	RA: 02 38 19.5510 (39.5814625d) Dec: +02 07 9.12 (2.11920d) Equinox: J2000				V=11.60	Reference Frame: SIMBAD			
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[ELLIPTICAL]											
<b>Exposures</b>	#	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>		<b>Orbit</b>
	1	WFC3/F475 X - short exp (1012517)	(6) NGC-1016	WFC3/UVIS, ACCUM, UVIS	F475X	FLASH=9			84 Secs (84 Secs)	[==>]	[1]
	2	WFC3/F475 X	(6) NGC-1016	WFC3/UVIS, ACCUM, UVIS	F475X			Pattern 1, Exps 2-3 in NGC 1016 (06) (1) Prime + Parallel Group 2-3 in Pattern 1, Exps 2-3 in NGC 1016 (06)	794 Secs (2382 Secs)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	3	ACS par	ANY	ACS/WFC, ACCUM, WFC	F475W			Pattern 1, Exps 2-3 in NGC 1016 (06) (1) Prime + Parallel Group 2-3 in Pattern 1, Exps 2-3 in NGC 1016 (06)	668 Secs (2004 Secs)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]



Proposal 15265 - NGC 1129 (07) - MASSIVE+: The Growth Histories of MASSIVE Survey Galaxies from their Globular Cluster Colors

Tue Apr 02 13:00:42 GMT 2019

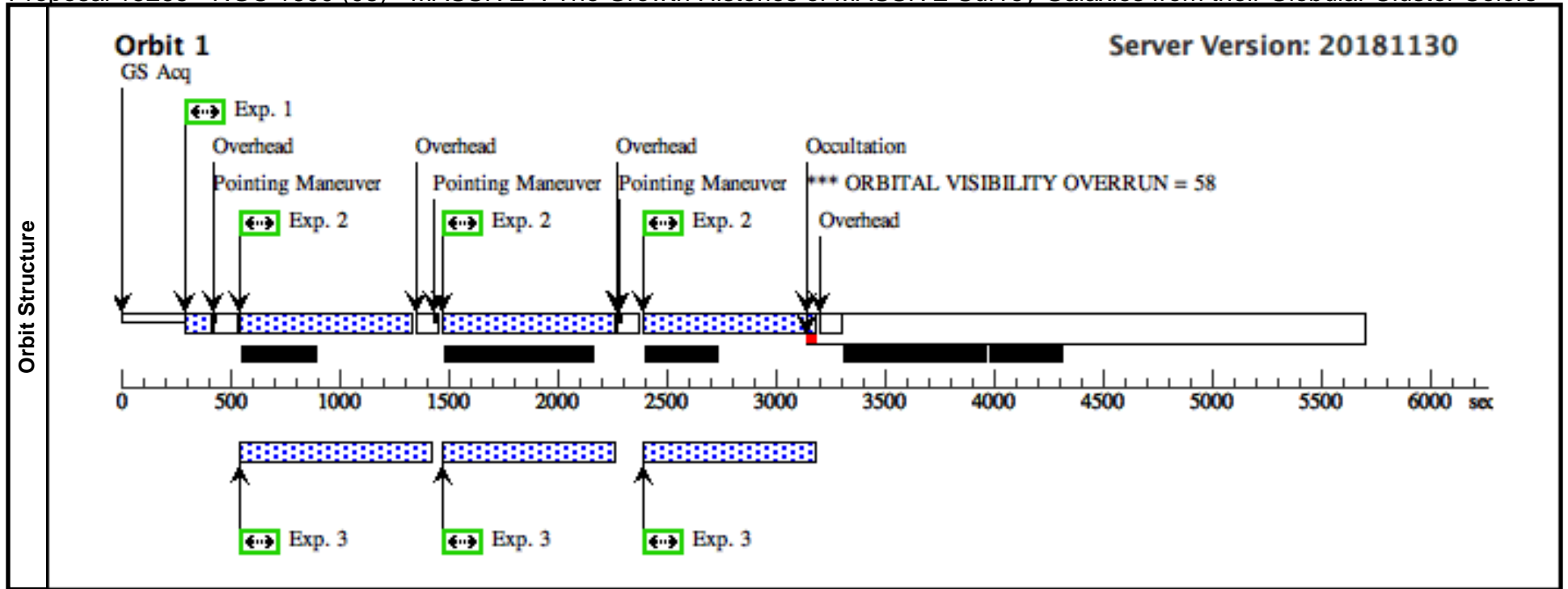
<b>Visit</b>	Proposal 15265, NGC 1129 (07), completed <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none)										
	(NGC 1129 (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
<b>Diagnosics</b>											
<b>Patterns</b>	#	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=83.5 Number Of Points=3 Angle Between Sides= Point Spacing=1.414 Center Pattern=true Line Spacing=								(2-3)	
<b>Fixed Targets</b>	#	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(7)	NGC-1129	RA: 02 54 27.4000 (43.6141667d) Dec: +41 34 46.70 (41.57964d) Equinox: J2000				V=12.0	Reference Frame: SIMBAD			
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[ELLIPTICAL]											
<b>Exposures</b>	#	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>		<b>Orbit</b>
	1	WFC3/F475 X - short exp (1012517)	(7) NGC-1129	WFC3/UVIS, ACCUM, UVIS	F475X	FLASH=9			84 Secs (84 Secs)	[==>]	[1]
	2	WFC3/F475 X	(7) NGC-1129	WFC3/UVIS, ACCUM, UVIS	F475X			Pattern 1, Exps 2-3 in NGC 1129 (07) (1) Prime + Parallel Group 2-3 in Pattern 1, Exps 2-3 in NGC 1129 (07)	826 Secs (2478 Secs)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	3	ACS par	ANY	ACS/WFC, ACCUM, WFC	F475W			Pattern 1, Exps 2-3 in NGC 1129 (07) (1) Prime + Parallel Group 2-3 in Pattern 1, Exps 2-3 in NGC 1129 (07)	700 Secs (2100 Secs)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]



Proposal 15265 - NGC 1600 (08) - MASSIVE+: The Growth Histories of MASSIVE Survey Galaxies from their Globular Cluster Colors

Tue Apr 02 13:00:42 GMT 2019

<b>Visit</b>	Proposal 15265, NGC 1600 (08), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none)									
	(NGC 1600 (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Diagnosics</b>										
<b>Patterns</b>	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=83.5 Number Of Points=3 Angle Between Sides= Point Spacing=1.414 Center Pattern=true Line Spacing=							(2-3)	
<b>Fixed Targets</b>	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous		
	(8)	NGC-1600	RA: 04 31 39.8580 (67.9160750d) Dec: -05 05 9.97 (-5.08610d) Equinox: J2000				V=10.88	Reference Frame: SIMBAD		
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[ELLIPTICAL]										
<b>Exposures</b>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	WFC3/F475 X - short exp (1012517)	(8) NGC-1600	WFC3/UVIS, ACCUM, UVIS	F475X	FLASH=9			84 Secs (84 Secs) [==>]	[1]
	2	WFC3/F475 X	(8) NGC-1600	WFC3/UVIS, ACCUM, UVIS	F475X			Pattern 1, Exps 2-3 in NGC 1600 (08) (1) Prime + Parallel Group 2-3 in Pattern 1, Exps 2-3 in NGC 1600 (08)	795 Secs (2385 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	3	ACS par	ANY	ACS/WFC, ACCUM, WFC	F475W			Pattern 1, Exps 2-3 in NGC 1600 (08) (1) Prime + Parallel Group 2-3 in Pattern 1, Exps 2-3 in NGC 1600 (08)	670 Secs (2010 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]



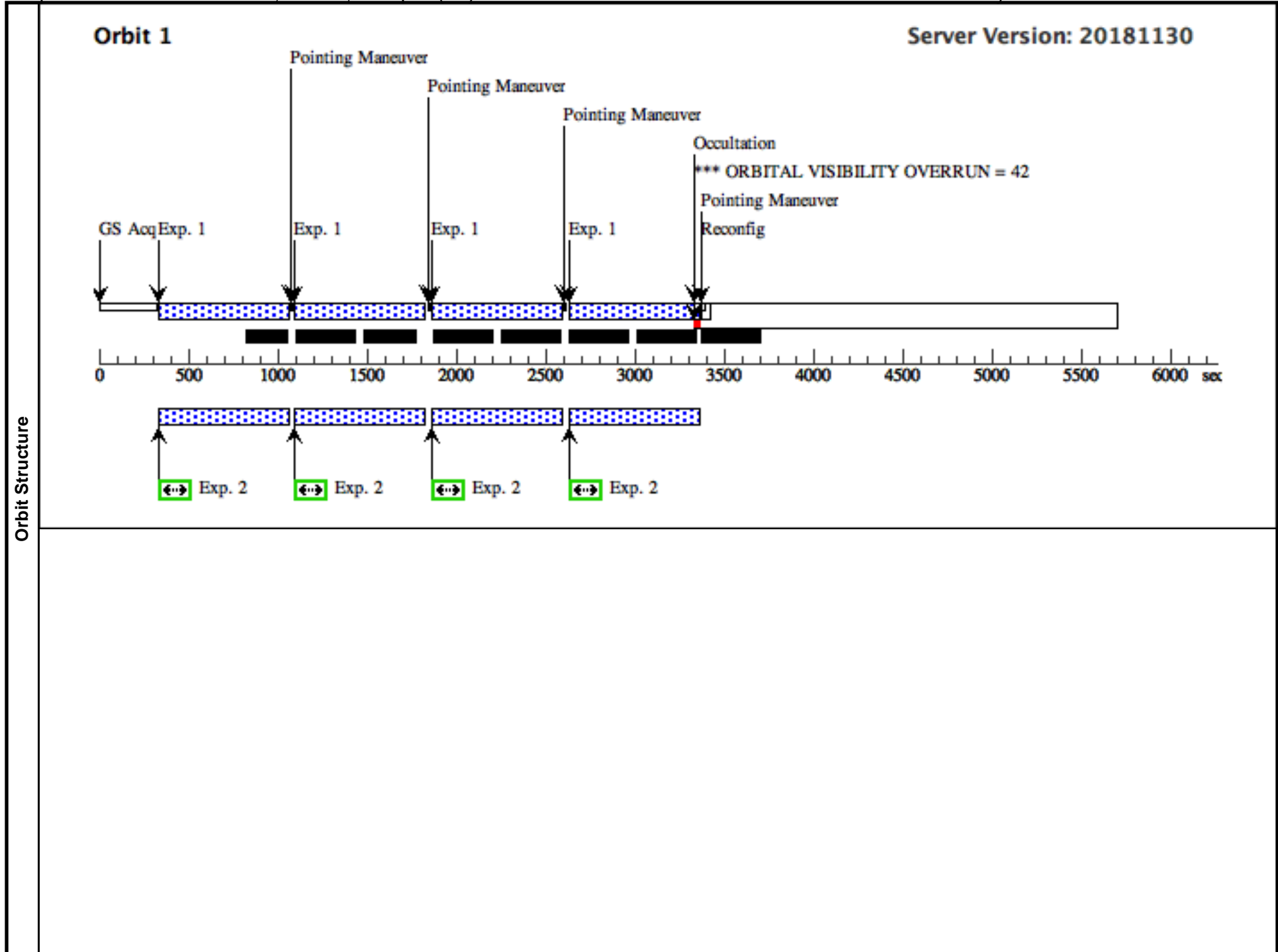
Proposal 15265 - NGC 2340, 2-orbit, with par (21) - MASSIVE+: The Growth Histories of MASSIVE Survey Galaxies from their Globul...

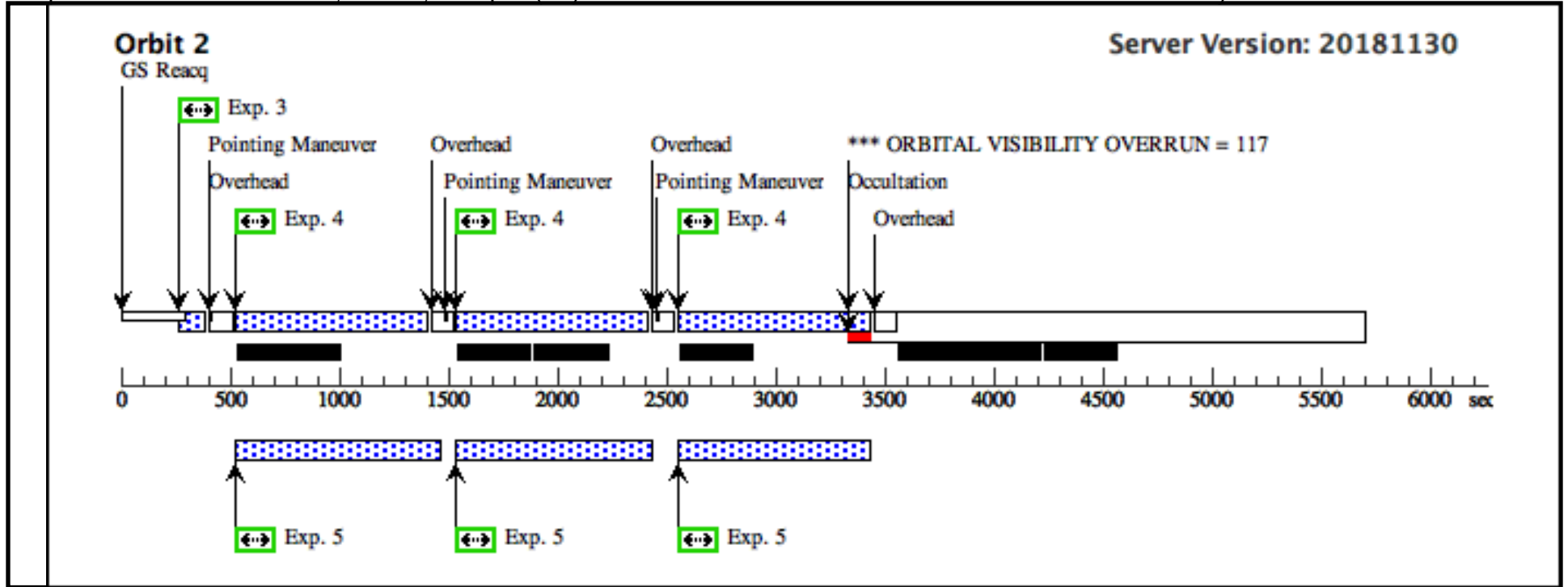
Tue Apr 02 13:00:42 GMT 2019

<b>Visit</b>	<b>Proposal 15265, NGC 2340, 2-orbit, with par (21), failed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: (none)					
	<b>Diagnosics</b> (NGC 2340, 2-orbit, with par (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (NGC 2340, 2-orbit, with par (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>		
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=DITHER                            Pattern Orientation=83.5 Number Of Points=3                        Angle Between Sides= Point Spacing=1.414                        Center Pattern=true Line Spacing=		(4-5)		
(2)	Pattern Type=WFC3-IR-DITHER-BOX-MIN    Coordinate Frame=POS-TARG Purpose=DITHER                            Pattern Orientation=19.6865 Number Of Points=4                        Angle Between Sides=72.9884 Point Spacing=1.44                        Center Pattern=true Line Spacing=0.907		(1-2)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(9)	NGC-2340	RA: 07 11 10.8050 (107.7950208d) Dec: +50 10 28.90 (50.17469d) Equinox: J2000		V=11.69	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[ELLIPTICAL]						

Proposal 15265 - NGC 2340, 2-orbit, with par (21) - MASSIVE+: The Growth Histories of MASSIVE Survey Galaxies from their Globul...

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	WFC3/F110 W	(9) NGC-2340	WFC3/IR, MULTIACCUM, IR	F110W	SAMP-SEQ=SPARS 50; NSAMP=15	Pattern 2, Exps 1-2 in NGC 2340, 2-orbit, with par (21) (2)  Prime + Parallel Group 1-2 in Pattern 2, Exps 1-2 in NGC 2340, 2-orbit, with par (21)	702.938605 Secs (2811.754 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	ACS par, 2nd orbit	ANY	ACS/WFC, ACCUM, WFC	F814W		Pattern 2, Exps 1-2 in NGC 2340, 2-orbit, with par (21) (2)  Prime + Parallel Group 1-2 in Pattern 2, Exps 1-2 in NGC 2340, 2-orbit, with par (21)	530 Secs (2340 Secs) [==>525.0 Secs (Pattern 1)] [==>605.0 Secs (Pattern 2)] [==>605.0 Secs (Pattern 3)] [==>605.0 Secs (Pattern 4)]	[1]
	3	WFC3/F475 X - short exp (1012517)	(9) NGC-2340	WFC3/UVIS, ACCUM, UVIS	F475X	FLASH=9		90 Secs (90 Secs) [==>]	[2]
	4	WFC3/F475 X	(9) NGC-2340	WFC3/UVIS, ACCUM, UVIS	F475X		Pattern 1, Exps 4-5 in NGC 2340, 2-orbit, with par (21) (1)  Prime + Parallel Group 4-5 in Pattern 1, Exps 4-5 in NGC 2340, 2-orbit, with par (21)	886 Secs (2658 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[2]
	5	ACS par	ANY	ACS/WFC, ACCUM, WFC	F475W		Pattern 1, Exps 4-5 in NGC 2340, 2-orbit, with par (21) (1)  Prime + Parallel Group 4-5 in Pattern 1, Exps 4-5 in NGC 2340, 2-orbit, with par (21)	760 Secs (2320 Secs) [==>780.0 Secs (Pattern 1)] [==>780.0 Secs (Pattern 2)] [==>760.0 Secs (Pattern 3)]	[2]

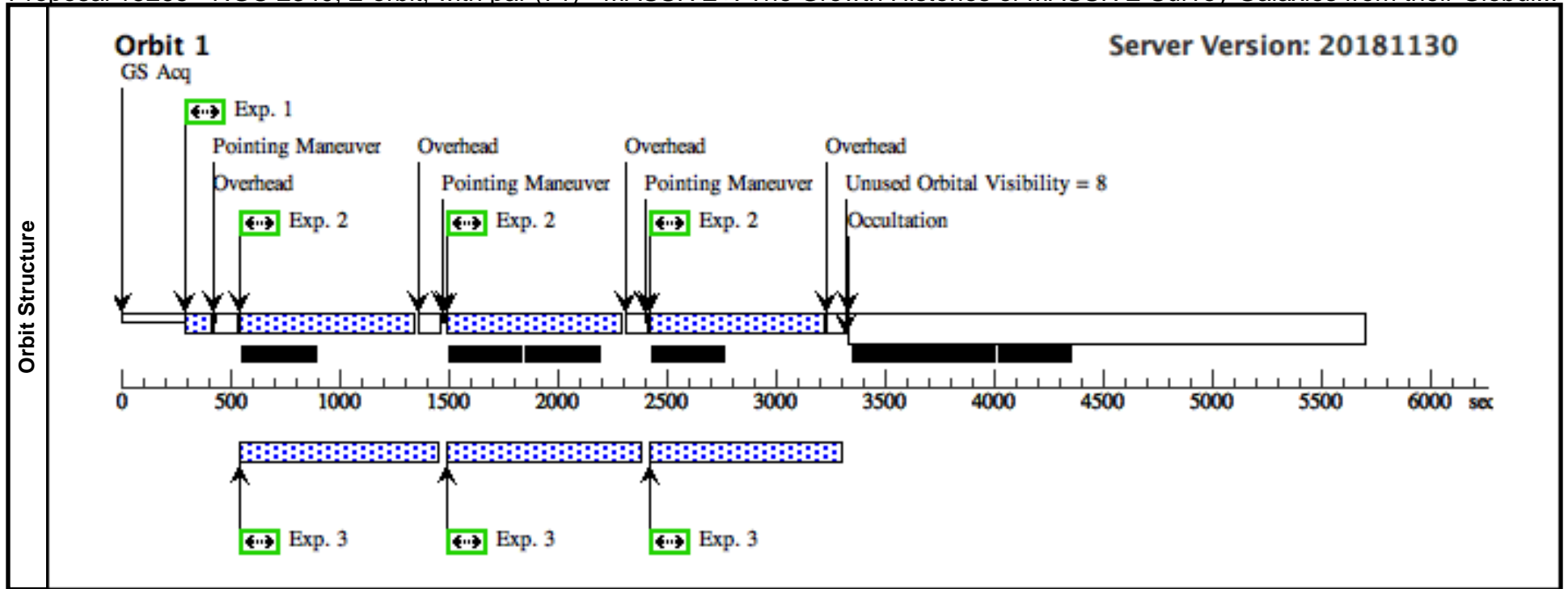




Proposal 15265 - NGC 2340, 2-orbit, with par (71) - MASSIVE+: The Growth Histories of MASSIVE Survey Galaxies from their Globul...

Tue Apr 02 13:00:42 GMT 2019

Visit	<b>Proposal 15265, NGC 2340, 2-orbit, with par (71), implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: ORIENT 115D TO 125 D Comments: This is a re-do of 2nd orbit of Visit 21.									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=83.5 Number Of Points=3 Angle Between Sides= Point Spacing=1.414 Center Pattern=true Line Spacing=						(2-3)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(9)	NGC-2340	RA: 07 11 10.8050 (107.7950208d) Dec: +50 10 28.90 (50.17469d) Equinox: J2000				V=11.69		Reference Frame: SIMBAD	
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[ELLIPTICAL]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	WFC3/F475 X - short exp (1012517)	(9) NGC-2340	WFC3/UVIS, ACCUM, UVIS	F475X	FLASH=9			90 Secs (84 Secs) [=>84.0 Secs ]	[1]
	2	WFC3/F475 X	(9) NGC-2340	WFC3/UVIS, ACCUM, UVIS	F475X			Pattern 1, Exps 2-3 in NGC 2340, 2-orbit, with par (71) (1) Prime + Parallel Group 2-3 in Pattern 1, Exps 2-3 in NGC 2340, 2-orbit, with par (71)	886 Secs (2400 Secs) [=>800.0 Secs (Pattern 1)] [=>800.0 Secs (Pattern 2)] [=>800.0 Secs (Pattern 3)]	[1]
	3	ACS par	ANY	ACS/WFC, ACCUM, WFC	F475W			Pattern 1, Exps 2-3 in NGC 2340, 2-orbit, with par (71) (1) Prime + Parallel Group 2-3 in Pattern 1, Exps 2-3 in NGC 2340, 2-orbit, with par (71)	760 Secs (2238 Secs) [=>708.0 Secs (Pattern 1)] [=>770.0 Secs (Pattern 2)] [=>760.0 Secs (Pattern 3)]	[1]

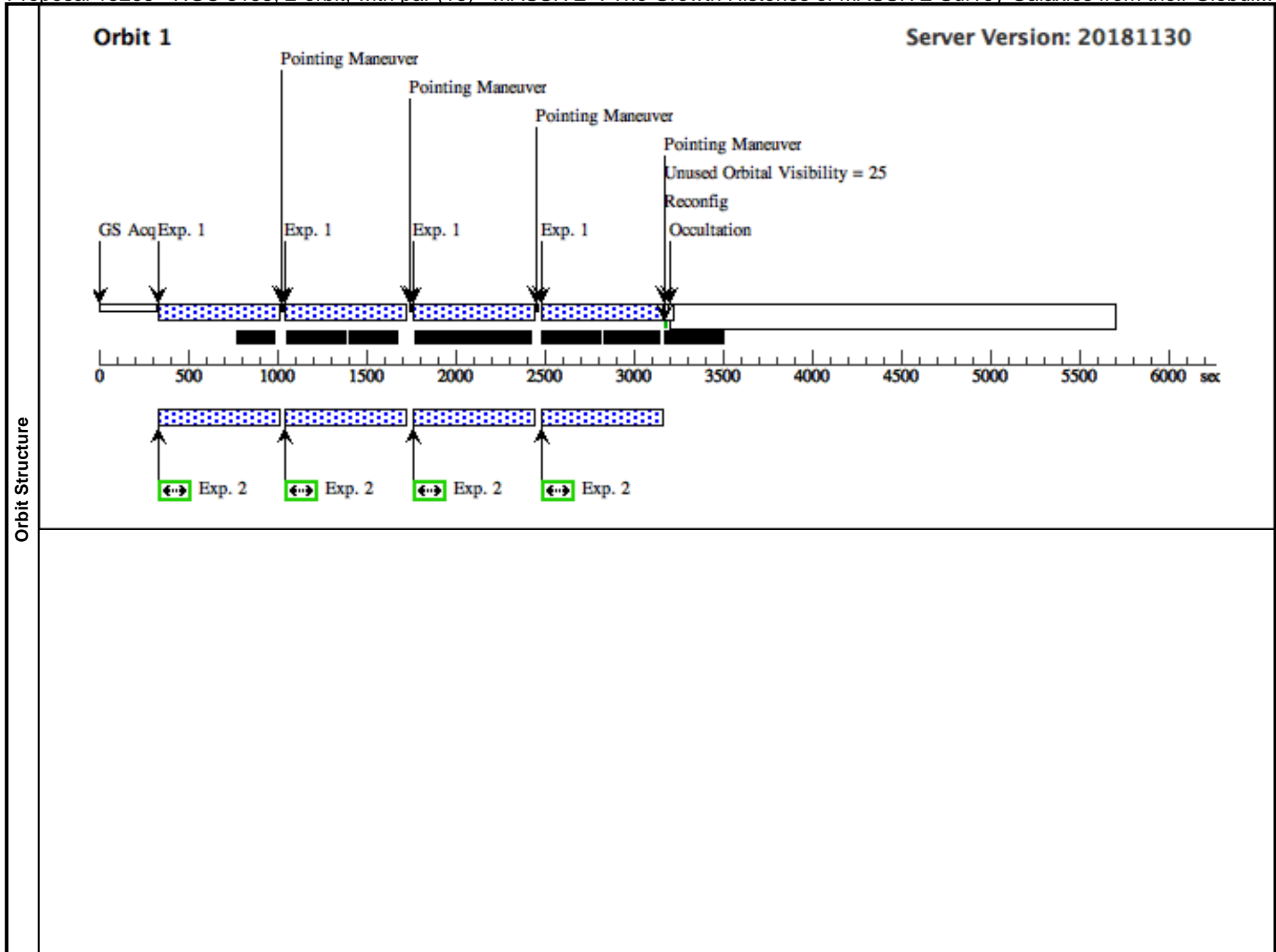


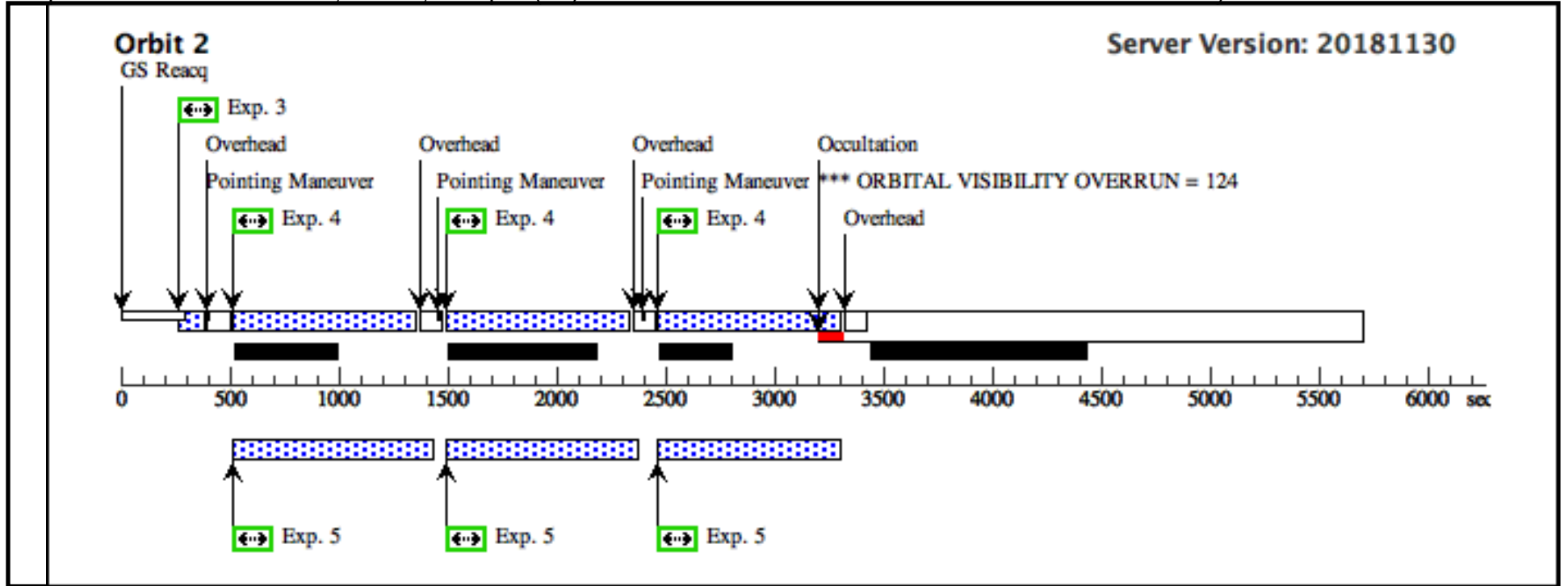
Proposal 15265 - NGC 3158, 2-orbit, with par (16) - MASSIVE+: The Growth Histories of MASSIVE Survey Galaxies from their Globul...

<b>Visit</b>	Proposal 15265, NGC 3158, 2-orbit, with par (16), completed <span style="float: right;">Tue Apr 02 13:00:42 GMT 2019</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: (none)					
	<b>Diagnosics</b> (NGC 3158, 2-orbit, with par (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>		
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=DITHER                            Pattern Orientation=83.5 Number Of Points=3                        Angle Between Sides= Point Spacing=1.414                        Center Pattern=true Line Spacing=		(4-5)		
(2)	Pattern Type=WFC3-IR-DITHER-    Coordinate Frame=POS-TARG BOX-MIN                                    Pattern Orientation=19.6865 Purpose=DITHER                            Angle Between Sides=72.9884 Number Of Points=4                        Center Pattern=true Point Spacing=1.44 Line Spacing=0.907		(1-2)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(10)	NGC-3158	RA: 10 13 50.4930 (153.4603875d) Dec: +38 45 53.68 (38.76491d) Equinox: J2000		V=11.9	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[ELLIPTICAL]						

Proposal 15265 - NGC 3158, 2-orbit, with par (16) - MASSIVE+: The Growth Histories of MASSIVE Survey Galaxies from their Globul...

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	WFC3/F110 W	(10) NGC-3158	WFC3/IR, MULTIACCUM, IR	F110W	SAMP-SEQ=SPARS 50; NSAMP=14		Pattern 2, Exps 1-2 in NGC 3158, 2-orbit, with par (16) (2)  Prime + Parallel Gro up 1-2 in Pattern 2, E xps 1-2 in NGC 3158 , 2-orbit, with par (16 )	652.938154 Secs (2611.753 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	ACS par, 2n d orbit	ANY	ACS/WFC, ACCUM, WFC	F814W			Pattern 2, Exps 1-2 in NGC 3158, 2-orbit, with par (16) (2)  Prime + Parallel Gro up 1-2 in Pattern 2, E xps 1-2 in NGC 3158 , 2-orbit, with par (16 )	450 Secs (2146 Secs) [==>475.0 Secs (Pattern 1)] [==>557.0 Secs (Pattern 2)] [==>557.0 Secs (Pattern 3)] [==>557.0 Secs (Pattern 4)]	[1]
	3	WFC3/F475 X - short ex p (1012517)	(10) NGC-3158	WFC3/UVIS, ACCUM, UVIS	F475X	FLASH=9			84 Secs (84 Secs) [==>]	[2]
	4	WFC3/F475 X	(10) NGC-3158	WFC3/UVIS, ACCUM, UVIS	F475X			Pattern 1, Exps 4-5 in NGC 3158, 2-orbit, with par (16) (1)  Prime + Parallel Gro up 4-5 in Pattern 1, E xps 4-5 in NGC 3158 , 2-orbit, with par (16 )	846 Secs (2538 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[2]
	5	ACS par	ANY	ACS/WFC, ACCUM, WFC	F475W			Pattern 1, Exps 4-5 in NGC 3158, 2-orbit, with par (16) (1)  Prime + Parallel Gro up 4-5 in Pattern 1, E xps 4-5 in NGC 3158 , 2-orbit, with par (16 )	500 Secs (2240 Secs) [==>760.0 Secs (Pattern 1)] [==>760.0 Secs (Pattern 2)] [==>720.0 Secs (Pattern 3)]	[2]



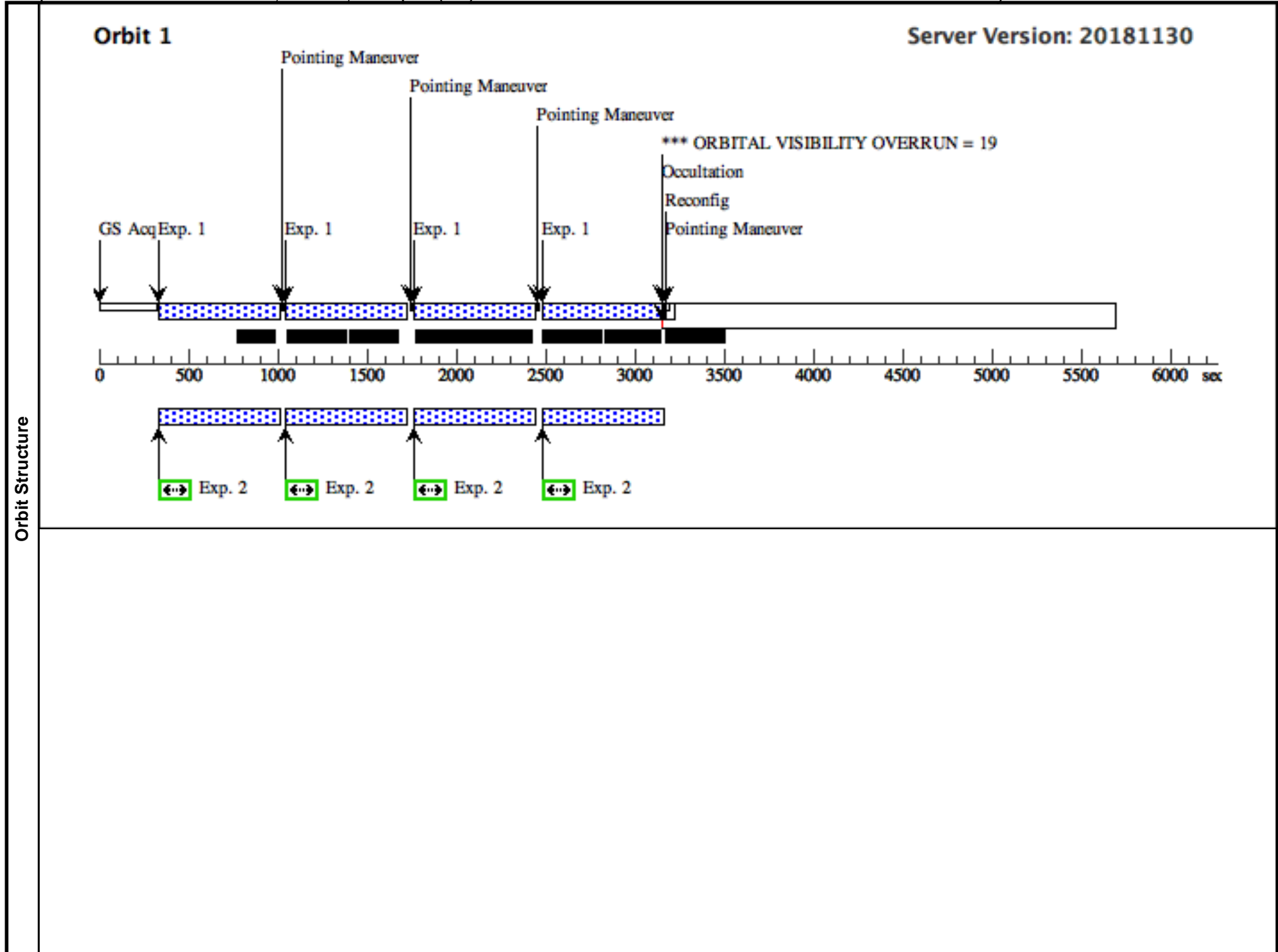


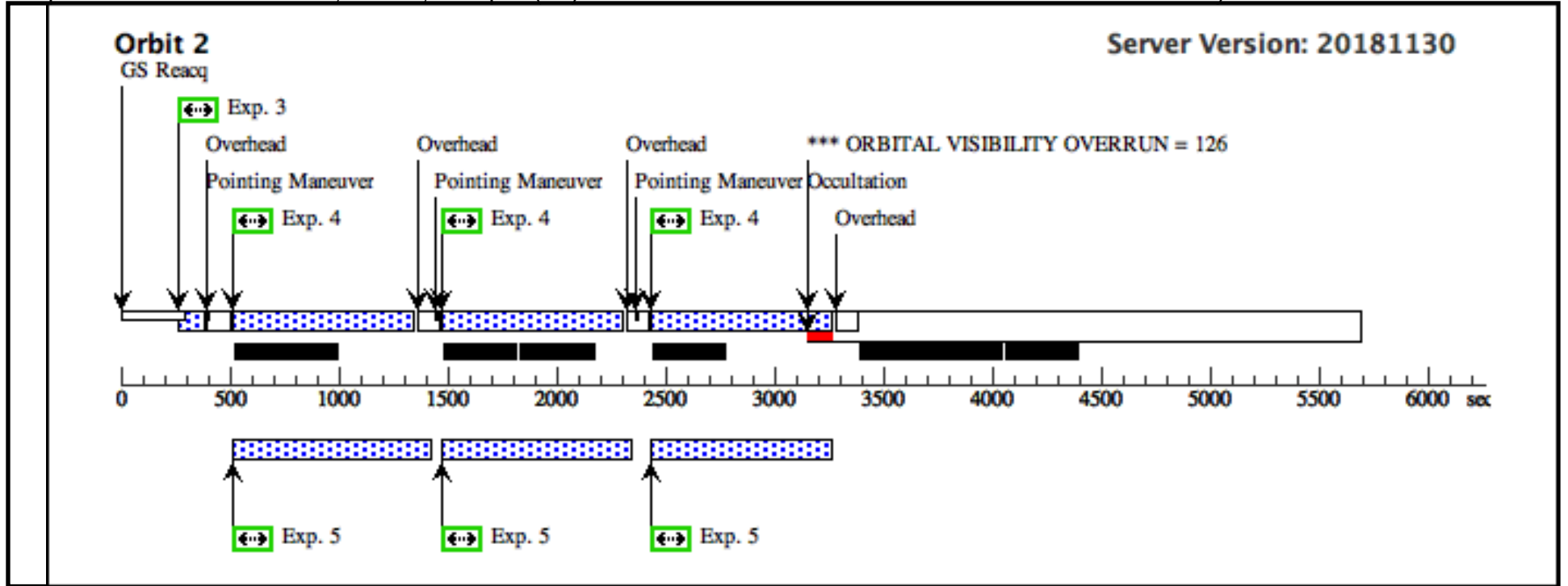
Proposal 15265 - NGC 3842, 2-orbit, with par (19) - MASSIVE+: The Growth Histories of MASSIVE Survey Galaxies from their Globul...

<b>Visit</b>	Proposal 15265, NGC 3842, 2-orbit, with par (19), completed <span style="float: right;">Tue Apr 02 13:00:43 GMT 2019</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: (none)					
	<b>Diagnosics</b> (NGC 3842, 2-orbit, with par (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (NGC 3842, 2-orbit, with par (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>		
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=DITHER                            Pattern Orientation=83.5 Number Of Points=3                        Angle Between Sides= Point Spacing=1.414                        Center Pattern=true Line Spacing=		(4-5)		
(2)	Pattern Type=WFC3-IR-DITHER-BOX-MIN    Coordinate Frame=POS-TARG Purpose=DITHER                            Pattern Orientation=19.6865 Number Of Points=4                        Angle Between Sides=72.9884 Point Spacing=1.44                        Center Pattern=true Line Spacing=0.907		(1-2)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(11)	NGC-3842	RA: 11 44 2.1720 (176.0090500d) Dec: +19 56 59.35 (19.94982d) Equinox: J2000		V=11.7	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[ELLIPTICAL]						

Proposal 15265 - NGC 3842, 2-orbit, with par (19) - MASSIVE+: The Growth Histories of MASSIVE Survey Galaxies from their Globul...

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	WFC3/F110 W	(11) NGC-3842	WFC3/IR, MULTIACCUM, IR	F110W	SAMP-SEQ=SPARS 50; NSAMP=14		Pattern 2, Exps 1-2 in NGC 3842, 2-orbit, with par (19) (2)  Prime + Parallel Gro up 1-2 in Pattern 2, E xps 1-2 in NGC 3842 , 2-orbit, with par (19) )	652.938154 Secs (2611.753 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	ACS par, 2n d orbit	ANY	ACS/WFC, ACCUM, WFC	F814W			Pattern 2, Exps 1-2 in NGC 3842, 2-orbit, with par (19) (2)  Prime + Parallel Gro up 1-2 in Pattern 2, E xps 1-2 in NGC 3842 , 2-orbit, with par (19) )	450 Secs (2146 Secs) [==>475.0 Secs (Pattern 1)] [==>557.0 Secs (Pattern 2)] [==>557.0 Secs (Pattern 3)] [==>557.0 Secs (Pattern 4)]	[1]
	3	WFC3/F475 X - short ex p (1012517)	(11) NGC-3842	WFC3/UVIS, ACCUM, UVIS	F475X	FLASH=9			84 Secs (84 Secs) [==>]	[2]
	4	WFC3/F475 X	(11) NGC-3842	WFC3/UVIS, ACCUM, UVIS	F475X			Pattern 1, Exps 4-5 in NGC 3842, 2-orbit, with par (19) (1)  Prime + Parallel Gro up 4-5 in Pattern 1, E xps 4-5 in NGC 3842 , 2-orbit, with par (19) )	832 Secs (2496 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[2]
	5	ACS par	ANY	ACS/WFC, ACCUM, WFC	F475W			Pattern 1, Exps 4-5 in NGC 3842, 2-orbit, with par (19) (1)  Prime + Parallel Gro up 4-5 in Pattern 1, E xps 4-5 in NGC 3842 , 2-orbit, with par (19) )	675 Secs (2206 Secs) [==>750.0 Secs (Pattern 1)] [==>750.0 Secs (Pattern 2)] [==>706.0 Secs (Pattern 3)]	[2]





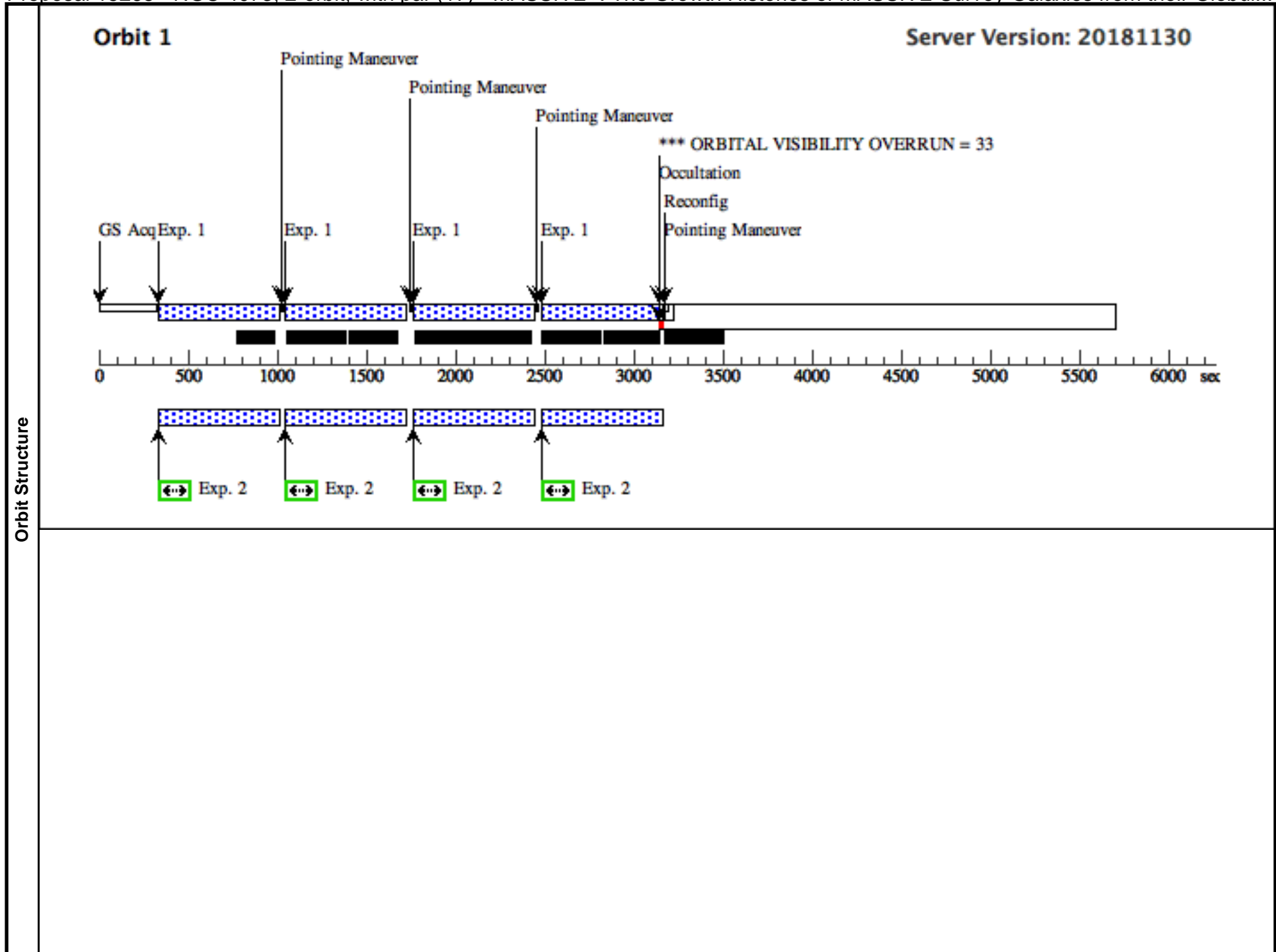
Proposal 15265 - NGC 4073, 2-orbit, with par (17) - MASSIVE+: The Growth Histories of MASSIVE Survey Galaxies from their Globul...

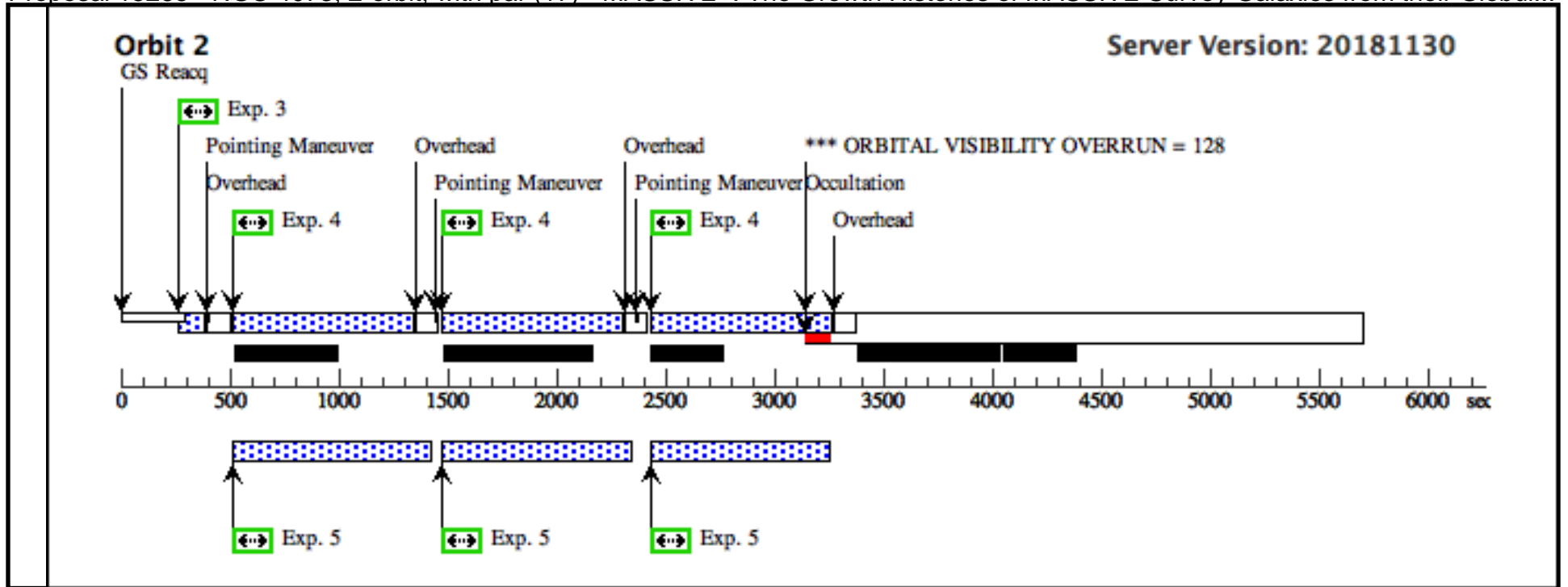
Tue Apr 02 13:00:43 GMT 2019

<b>Visit</b>	<b>Proposal 15265, NGC 4073, 2-orbit, with par (17), scheduling</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: (none)					
	<b>Diagnosics</b> (NGC 4073, 2-orbit, with par (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (NGC 4073, 2-orbit, with par (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>		
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=DITHER                            Pattern Orientation=83.5 Number Of Points=3                        Angle Between Sides= Point Spacing=1.414                        Center Pattern=true Line Spacing=		(4-5)		
(2)	Pattern Type=WFC3-IR-DITHER-BOX-MIN    Coordinate Frame=POS-TARG Purpose=DITHER                            Pattern Orientation=19.6865 Number Of Points=4                        Angle Between Sides=72.9884 Point Spacing=1.44                        Center Pattern=true Line Spacing=0.907		(1-2)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(12)	NGC-4073	RA: 12 04 27.0590 (181.1127458d) Dec: +01 53 45.65 (1.89601d) Equinox: J2000		V=11.4	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[ELLIPTICAL]						

Proposal 15265 - NGC 4073, 2-orbit, with par (17) - MASSIVE+: The Growth Histories of MASSIVE Survey Galaxies from their Globul...

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	WFC3/F110 W	(12) NGC-4073	WFC3/IR, MULTIACCUM, IR	F110W	SAMP-SEQ=SPARS 50; NSAMP=14		Pattern 2, Exps 1-2 in NGC 4073, 2-orbit, with par (17) (2)  Prime + Parallel Gro up 1-2 in Pattern 2, E xps 1-2 in NGC 4073 , 2-orbit, with par (17 )	652.938154 Secs (2611.753 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	ACS par, 2n d orbit	ANY	ACS/WFC, ACCUM, WFC	F814W			Pattern 2, Exps 1-2 in NGC 4073, 2-orbit, with par (17) (2)  Prime + Parallel Gro up 1-2 in Pattern 2, E xps 1-2 in NGC 4073 , 2-orbit, with par (17 )	450 Secs (2146 Secs) [==>475.0 Secs (Pattern 1)] [==>557.0 Secs (Pattern 2)] [==>557.0 Secs (Pattern 3)] [==>557.0 Secs (Pattern 4)]	[1]
	3	WFC3/F475 X - short ex p (1012517)	(12) NGC-4073	WFC3/UVIS, ACCUM, UVIS	F475X	FLASH=9			84 Secs (84 Secs) [==>]	[2]
	4	WFC3/F475 X	(12) NGC-4073	WFC3/UVIS, ACCUM, UVIS	F475X			Pattern 1, Exps 4-5 in NGC 4073, 2-orbit, with par (17) (1)  Prime + Parallel Gro up 4-5 in Pattern 1, E xps 4-5 in NGC 4073 , 2-orbit, with par (17 )	828 Secs (2484 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[2]
	5	ACS par	ANY	ACS/WFC, ACCUM, WFC	F475W			Pattern 1, Exps 4-5 in NGC 4073, 2-orbit, with par (17) (1)  Prime + Parallel Gro up 4-5 in Pattern 1, E xps 4-5 in NGC 4073 , 2-orbit, with par (17 )	710 Secs (2200 Secs) [==>750.0 Secs (Pattern 1)] [==>750.0 Secs (Pattern 2)] [==>700.0 Secs (Pattern 3)]	[2]





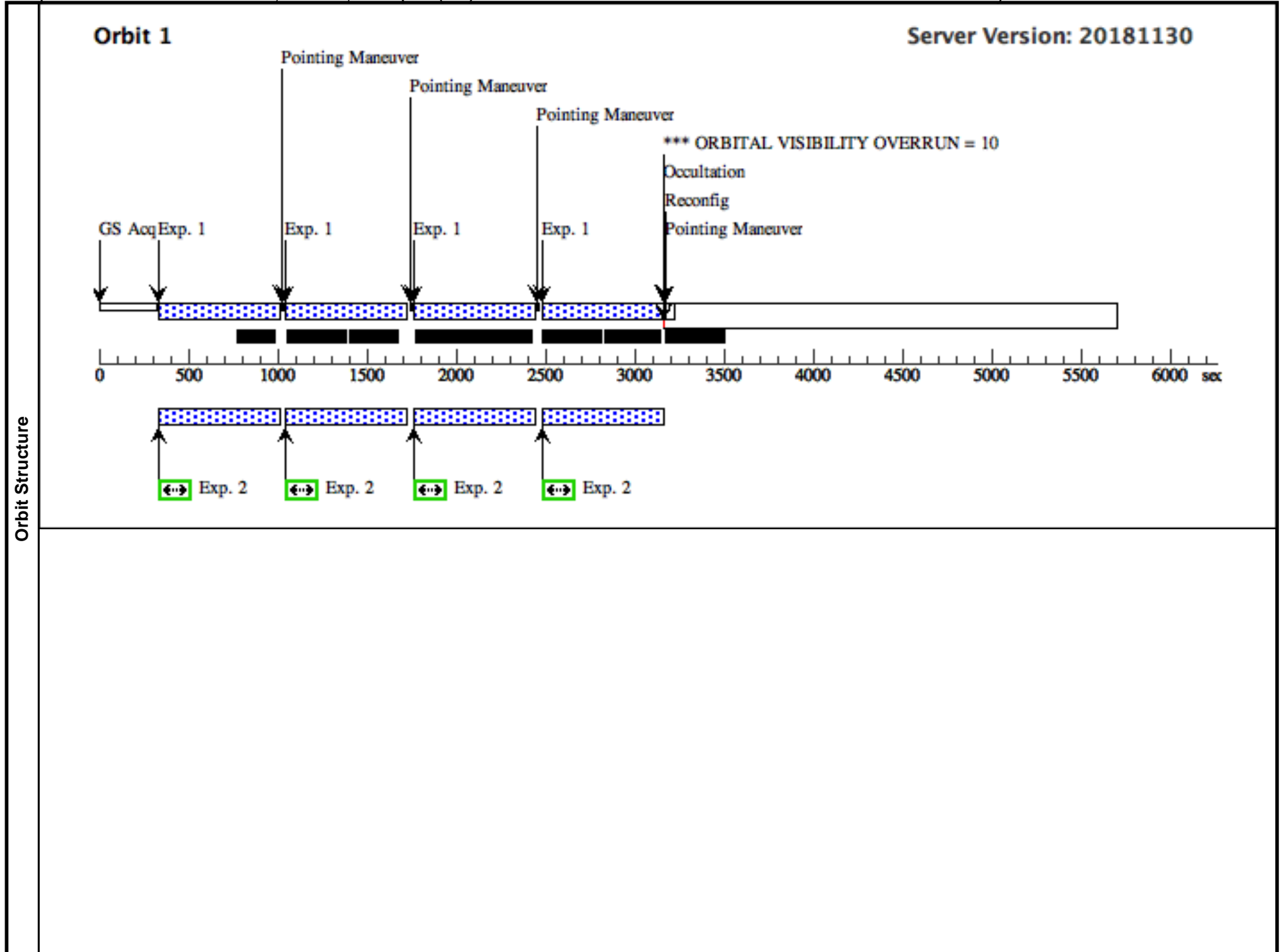
Proposal 15265 - NGC 4839, 2-orbit, with par (18) - MASSIVE+: The Growth Histories of MASSIVE Survey Galaxies from their Globul...

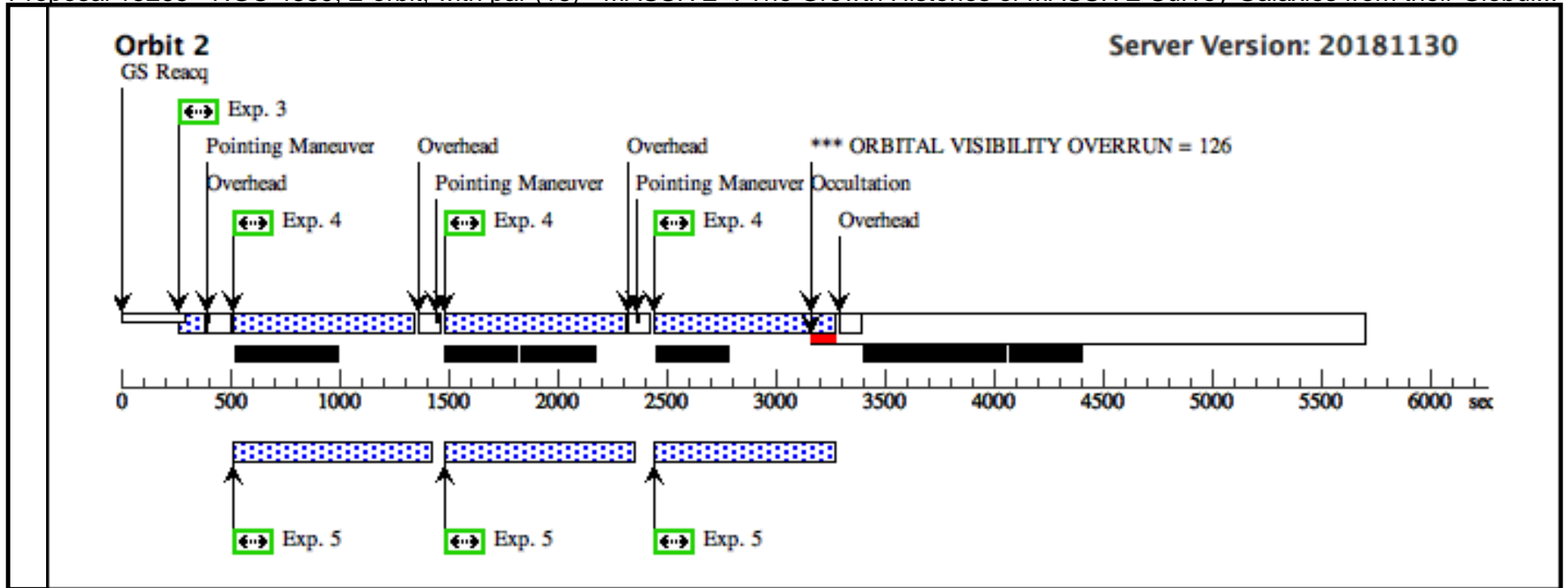
Tue Apr 02 13:00:43 GMT 2019

<b>Visit</b>	<b>Proposal 15265, NGC 4839, 2-orbit, with par (18), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: (none)					
	<b>Diagnosics</b> (NGC 4839, 2-orbit, with par (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (NGC 4839, 2-orbit, with par (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>		
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=DITHER                            Pattern Orientation=83.5 Number Of Points=3                        Angle Between Sides= Point Spacing=1.414                        Center Pattern=true Line Spacing=		(4-5)		
(2)	Pattern Type=WFC3-IR-DITHER-BOX-MIN    Coordinate Frame=POS-TARG Purpose=DITHER                            Pattern Orientation=19.6865 Number Of Points=4                        Angle Between Sides=72.9884 Point Spacing=1.44                        Center Pattern=true Line Spacing=0.907		(1-2)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(13)	NGC-4839	RA: 12 57 24.3530 (194.3514708d) Dec: +27 29 51.80 (27.49772d) Equinox: J2000		V=12.06	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[ELLIPTICAL]						

Proposal 15265 - NGC 4839, 2-orbit, with par (18) - MASSIVE+: The Growth Histories of MASSIVE Survey Galaxies from their Globul...

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	WFC3/F110 W	(13) NGC-4839	WFC3/IR, MULTIACCUM, IR	F110W	SAMP-SEQ=SPARS 50; NSAMP=14		Pattern 2, Exps 1-2 in NGC 4839, 2-orbit, with par (18) (2)  Prime + Parallel Gro up 1-2 in Pattern 2, E xps 1-2 in NGC 4839 , 2-orbit, with par (18 )	652.938154 Secs (2611.753 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	ACS par, 2n d orbit	ANY	ACS/WFC, ACCUM, WFC	F814W			Pattern 2, Exps 1-2 i n NGC 4839, 2-orbit, with par (18) (2)  Prime + Parallel Gro up 1-2 in Pattern 2, E xps 1-2 in NGC 4839 , 2-orbit, with par (18 )	450 Secs (2146 Secs) [==>475.0 Secs (Pattern 1)] [==>557.0 Secs (Pattern 2)] [==>557.0 Secs (Pattern 3)] [==>557.0 Secs (Pattern 4)]	[1]
	3	WFC3/F475 X - short ex p (1012517)	(13) NGC-4839	WFC3/UVIS, ACCUM, UVIS	F475X	FLASH=9			84 Secs (84 Secs) [==>]	[2]
	4	WFC3/F475 X	(13) NGC-4839	WFC3/UVIS, ACCUM, UVIS	F475X			Pattern 1, Exps 4-5 i n NGC 4839, 2-orbit, with par (18) (1)  Prime + Parallel Gro up 4-5 in Pattern 1, E xps 4-5 in NGC 4839 , 2-orbit, with par (18 )	835 Secs (2505 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[2]
	5	ACS par	ANY	ACS/WFC, ACCUM, WFC	F475W			Pattern 1, Exps 4-5 i n NGC 4839, 2-orbit, with par (18) (1)  Prime + Parallel Gro up 4-5 in Pattern 1, E xps 4-5 in NGC 4839 , 2-orbit, with par (18 )	670 Secs (2206 Secs) [==>750.0 Secs (Pattern 1)] [==>750.0 Secs (Pattern 2)] [==>706.0 Secs (Pattern 3)]	[2]

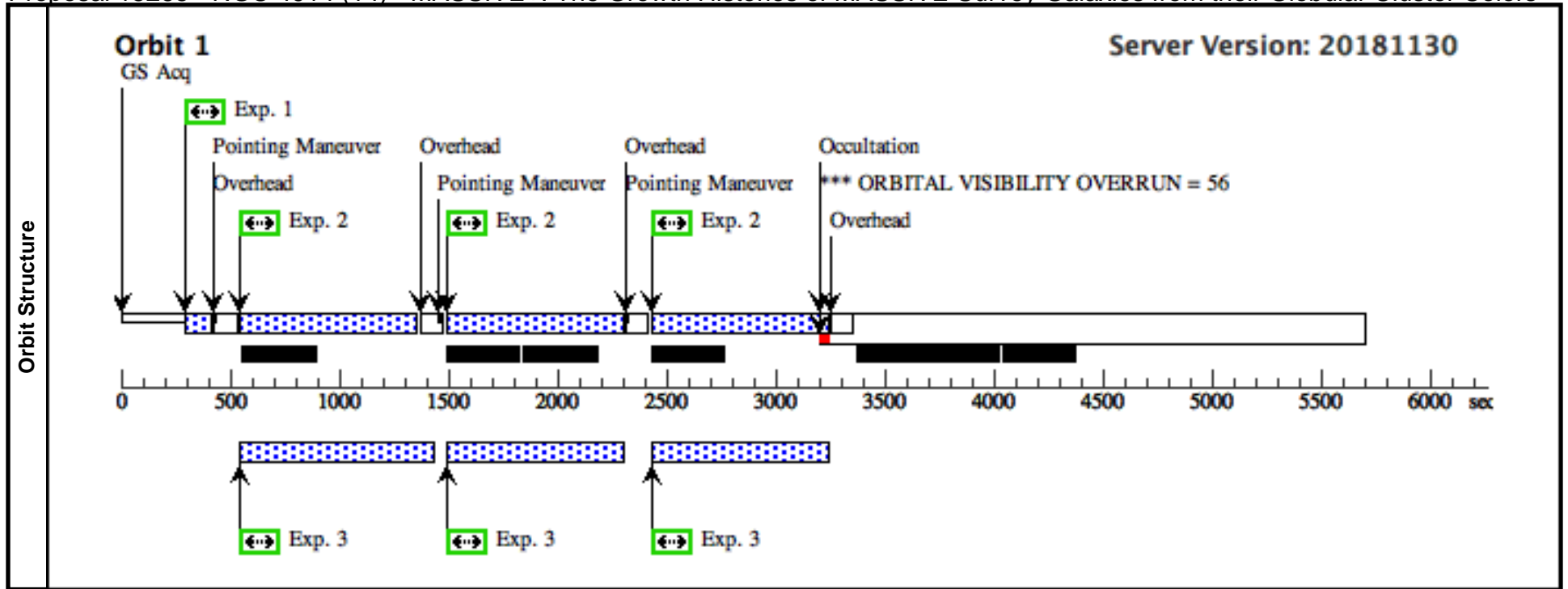




Proposal 15265 - NGC 4914 (14) - MASSIVE+: The Growth Histories of MASSIVE Survey Galaxies from their Globular Cluster Colors

Tue Apr 02 13:00:43 GMT 2019

<b>Visit</b>	Proposal 15265, NGC 4914 (14), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none)										
	(NGC 4914 (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
<b>Patterns</b>	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=83.5 Number Of Points=3 Angle Between Sides= Point Spacing=1.414 Center Pattern=true Line Spacing=								(2-3)	
<b>Fixed Targets</b>	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(14)	NGC-4914	RA: 13 00 42.9670 (195.1790292d) Dec: +37 18 55.20 (37.31533d) Equinox: J2000				V=11.6		Reference Frame: SIMBAD		
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[ELLIPTICAL]											
<b>Exposures</b>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	WFC3/F475 X - short exp (1012517)	(14) NGC-4914	WFC3/UVIS, ACCUM, UVIS	F475X	FLASH=9			84 Secs (84 Secs)		
									[==>]		[1]
	2	WFC3/F475 X	(14) NGC-4914	WFC3/UVIS, ACCUM, UVIS	F475X			Pattern 1, Exps 2-3 in NGC 4914 (14) (1)	813 Secs (2439 Secs)		
							Prime + Parallel Group 2-3 in Pattern 1, Exps 2-3 in NGC 4914 (14)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]		[1]	
3	ACS par	ANY	ACS/WFC, ACCUM, WFC	F475W				Pattern 1, Exps 2-3 in NGC 4914 (14) (1)	687 Secs (2061 Secs)		
								Prime + Parallel Group 2-3 in Pattern 1, Exps 2-3 in NGC 4914 (14)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]		[1]



Proposal 15265 - NGC 7242, 2-orbit, with par (20) - MASSIVE+: The Growth Histories of MASSIVE Survey Galaxies from their Globul...

Tue Apr 02 13:00:43 GMT 2019

<b>Visit</b>	<b>Proposal 15265, NGC 7242, 2-orbit, with par (20), scheduling</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: (none)					
	<b>Diagnosics</b> (NGC 7242, 2-orbit, with par (20)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>		
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE    Coordinate Frame=POS-TARG Purpose=DITHER                            Pattern Orientation=83.5 Number Of Points=3                        Angle Between Sides= Point Spacing=1.414                        Center Pattern=true Line Spacing=		(4-5)		
(2)	Pattern Type=WFC3-IR-DITHER-        Coordinate Frame=POS-TARG BOX-MIN                                    Pattern Orientation=19.6865 Purpose=DITHER                            Angle Between Sides=72.9884 Number Of Points=4                        Center Pattern=true Point Spacing=1.44 Line Spacing=0.907		(1-2)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(15)	NGC-7242	RA: 22 15 39.5070 (333.9146125d) Dec: +37 17 55.48 (37.29874d) Equinox: J2000		V=12.6	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[ELLIPTICAL]						

Proposal 15265 - NGC 7242, 2-orbit, with par (20) - MASSIVE+: The Growth Histories of MASSIVE Survey Galaxies from their Globul...

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	WFC3/F110 W	(15) NGC-7242	WFC3/IR, MULTIACCUM, IR	F110W	SAMP-SEQ=SPARS 50; NSAMP=14		Pattern 2, Exps 1-2 in NGC 7242, 2-orbit, with par (20) (2)  Prime + Parallel Gro up 1-2 in Pattern 2, E xps 1-2 in NGC 7242 , 2-orbit, with par (20 )	652.938154 Secs (2611.753 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	ACS par, 2n d orbit	ANY	ACS/WFC, ACCUM, WFC	F814W			Pattern 2, Exps 1-2 in NGC 7242, 2-orbit, with par (20) (2)  Prime + Parallel Gro up 1-2 in Pattern 2, E xps 1-2 in NGC 7242 , 2-orbit, with par (20 )	450 Secs (2146 Secs) [==>475.0 Secs (Pattern 1)] [==>557.0 Secs (Pattern 2)] [==>557.0 Secs (Pattern 3)] [==>557.0 Secs (Pattern 4)]	[1]
	3	WFC3/F475 X - short ex p (1012517)	(15) NGC-7242	WFC3/UVIS, ACCUM, UVIS	F475X	FLASH=9			84 Secs (84 Secs) [==>]	[2]
	4	WFC3/F475 X	(15) NGC-7242	WFC3/UVIS, ACCUM, UVIS	F475X			Pattern 1, Exps 4-5 in NGC 7242, 2-orbit, with par (20) (1)  Prime + Parallel Gro up 4-5 in Pattern 1, E xps 4-5 in NGC 7242 , 2-orbit, with par (20 )	846 Secs (2538 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[2]
	5	ACS par	ANY	ACS/WFC, ACCUM, WFC	F475W			Pattern 1, Exps 4-5 in NGC 7242, 2-orbit, with par (20) (1)  Prime + Parallel Gro up 4-5 in Pattern 1, E xps 4-5 in NGC 7242 , 2-orbit, with par (20 )	688 Secs (2240 Secs) [==>760.0 Secs (Pattern 1)] [==>760.0 Secs (Pattern 2)] [==>720.0 Secs (Pattern 3)]	[2]

