



17747 - Tracing star cluster motions from their birth to dispersal in the barred spiral galaxy M83

Cycle: 32, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Jin Koda (PI) (Contact)	State University of New York at Stony Brook
Prof. Daniela Calzetti (CoI)	University of Massachusetts - Amherst
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Dr. David Thilker (CoI)	The Johns Hopkins University
Dr. Angela Adamo (CoI) (ESA Member)	Stockholm University

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>
19	(1) M83-MOS ANY	ACS/WFC WFC3/UVIS	1	19-Feb-2026 17:00:15.0	yes
20	(1) M83-MOS ANY	ACS/WFC WFC3/UVIS	1	19-Feb-2026 17:00:16.0	yes
21	(1) M83-MOS ANY	ACS/WFC WFC3/UVIS	1	19-Feb-2026 17:00:16.0	yes
22	(1) M83-MOS ANY	ACS/WFC WFC3/UVIS	1	19-Feb-2026 17:00:17.0	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>
23	(1) M83-MOS ANY	ACS/WFC WFC3/UVIS	1	19-Feb-2026 17:00:18.0	yes
24	(1) M83-MOS ANY	ACS/WFC WFC3/UVIS	1	19-Feb-2026 17:00:18.0	yes
25	(1) M83-MOS ANY	ACS/WFC WFC3/UVIS	1	19-Feb-2026 17:00:19.0	yes
26	(1) M83-MOS ANY	ACS/WFC WFC3/UVIS	1	19-Feb-2026 17:00:20.0	yes
27	(1) M83-MOS ANY	ACS/WFC WFC3/UVIS	1	19-Feb-2026 17:00:20.0	yes
28	(1) M83-MOS ANY	ACS/WFC WFC3/UVIS	1	19-Feb-2026 17:00:21.0	yes

10 Total Orbits Used

ABSTRACT

We propose to image the nearby barred spiral galaxy M83 with WFC3 in NUV (F275W; 3x3 tile). The new NUV imaging, in conjunction with the substantial archival coverage in multi-bands (U, B, V, I & H α), is an established tool to accurately measure star cluster ages and masses by overcoming the age-extinction degeneracy. In addition, new ALMA CO(1-0) data of the full galactic disk detected 5,724 molecular clouds to their lowest mass of $10^4 M_{\text{sun}}$, and set a stage for substantial statistical analyses at every subregion within the disk. Combined with this largest and most complete cloud catalog in any external galaxy, the cluster distribution, and their spread with age, will reveal the emergence of star clusters in molecular clouds -- where and which molecular clouds can form clusters, what the cloud-cluster mass relation is, whether young clusters disperse their parental clouds or they simply drift away from the clouds, and how they disperse and merge into large-scale galactic structures and dynamics. The last point will be analyzed in relation to the debate on the origin of spiral arms --whether spiral arms are steady, long-lived structures supported by the classic density-wave theory, or transient, short-lived structures continuously generated and dispersed by swing amplification.

OBSERVING DESCRIPTION

Primary WFC3: by adding mosaic imaging in F275W, this project aims to complete the HST/WFC3 multi-band photometric coverage of the closest, prototypical barred spiral galaxy M83. The proposed area (see Fig 1 yellow box) is covered by the archival data in F336W, F438W, F547M/F555W

Proposal 17747 (STScI Edit Number: 0, Created: Thursday, February 19, 2026, 5:00:21PM Eastern Standard Time) - Overview & F814W (see Fig 2 top). We aim to add F275W for the whole area (3x3 mosaic tiles, 1 visit per tile, 9 visits in total). Because of the irregular shape of the archival coverage, observing exactly the same area in F275W puts significant constraints in scheduling. We therefore request for a simple 3x3-tile for F275W, which covers a slightly larger area with some flexibility in scheduling. Each orbit consists of 4-point dither and provides 2105s exposure per pointing position.

Parallel ACS: M83 has an extended ultraviolet (XUV) disk outside the traditional optical disk (Thilker et al. 2005; Bigiel et al. 2010). Parallel ACS observations can cover some part of the XUV disk (Fig 5). The parallel ACS could be taken at any orientation, but the southern part (as shown in Figure 5) has more UV blobs and is scientifically most optimal. We will use F475W and F814W filters in each orbit.

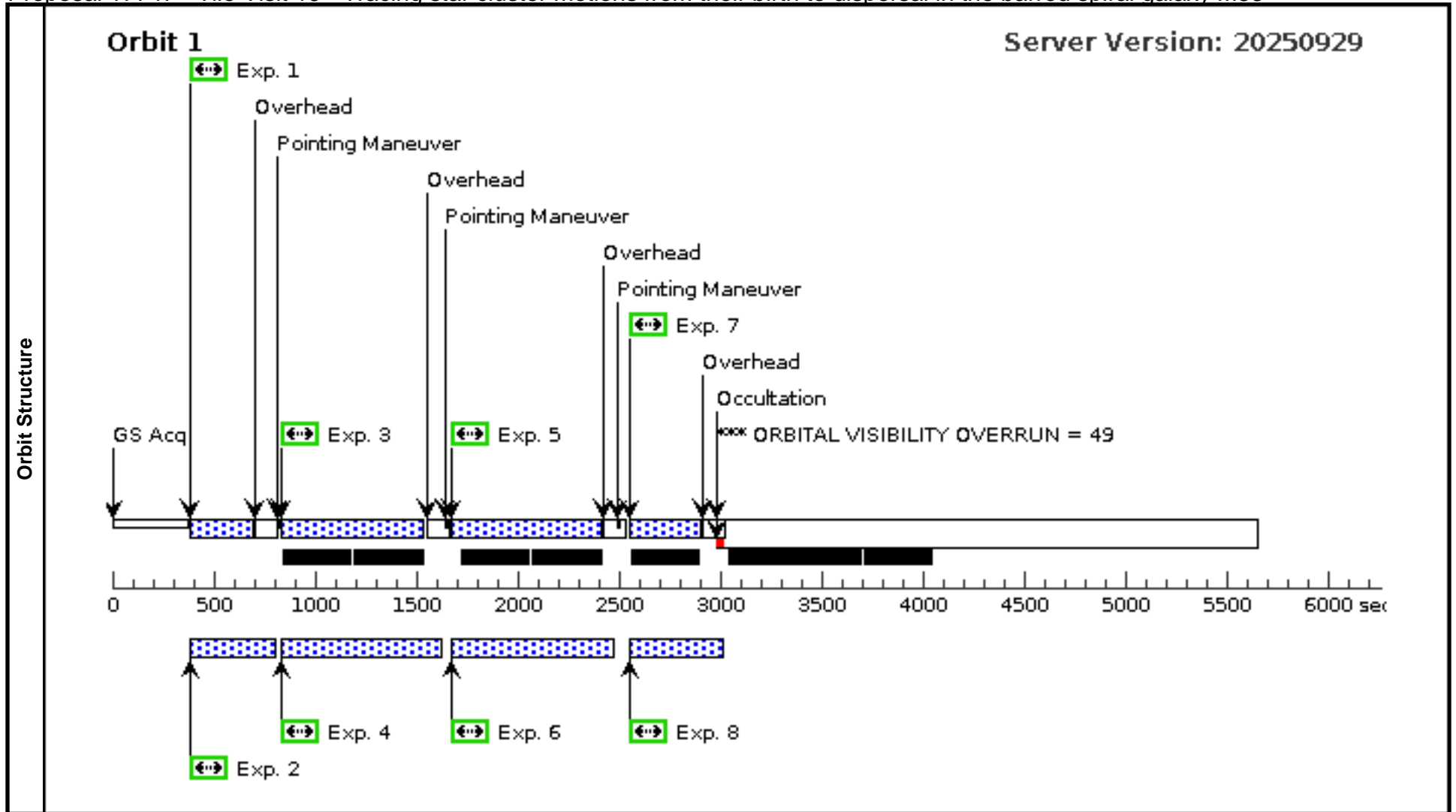
For the 4-point dither pattern, we follow the recommendation in the report by Jay Anderson and Norman Grogan "Dithering for ACS and WFC3 Primes and Parallels" (issued Oct 18, 2023).

We fiddled the exposure time at each dither position to minimize the overheads in both Primary and Parallel observations. In each visit (mosaic tile), the current setup provides 305, 700, 750, and 350 sec exposures in F275W (Primary), and 225 and 670 sec in F814W (Parallel) and 670 and 340 sec in F475W (Parallel).

Proposal 17747 - Tile Visit 19 - Tracing star cluster motions from their birth to dispersal in the barred spiral galaxy M83

Thu Feb 19 22:00:21 GMT 2026

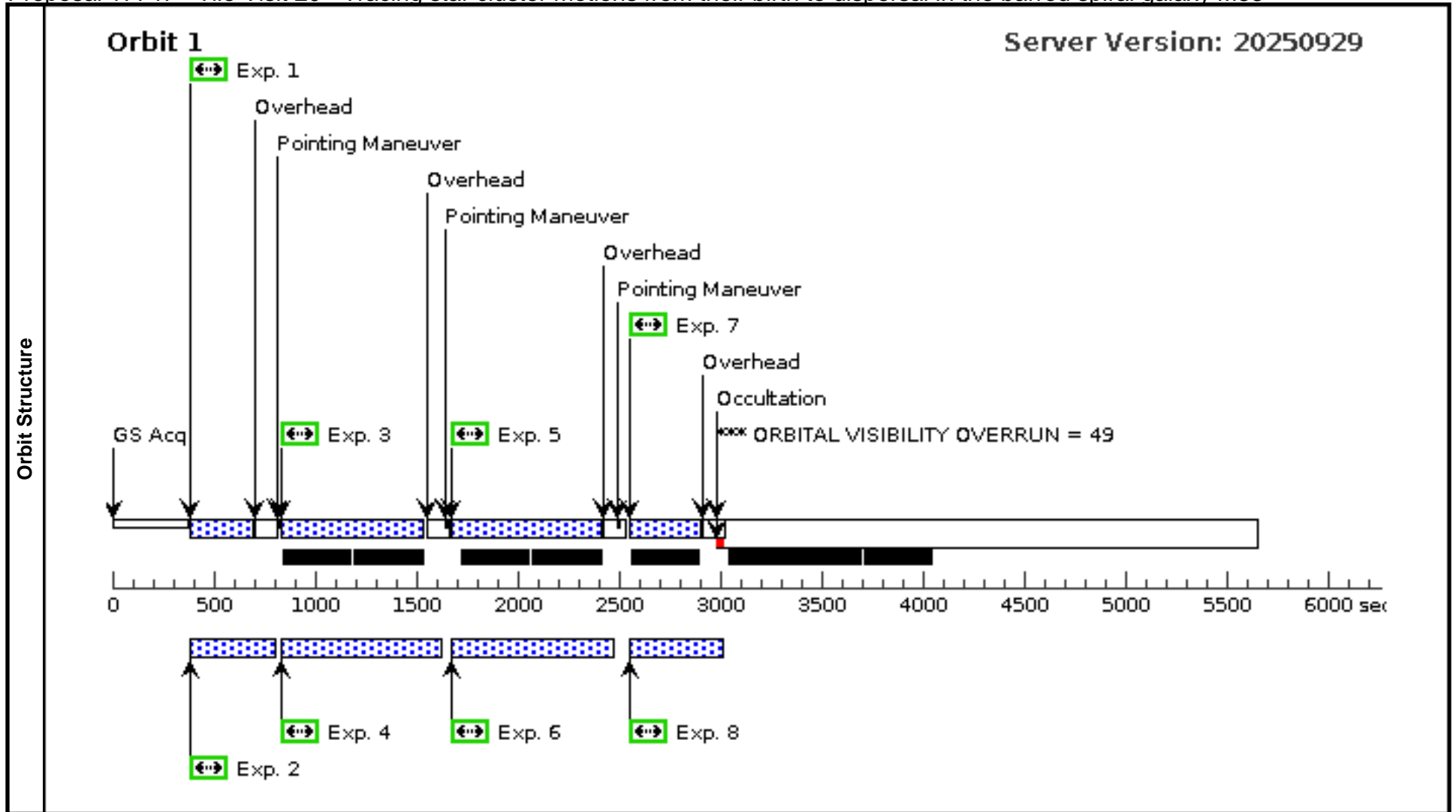
Visit	Proposal 17747, Tile Visit 19, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: ORIENT 301D TO 309 D; ORIENT 318D TO 324 D									
	(Tile Visit 19) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(1)	M83-MOS	RA: 13 37 2.5658 (204.2606908d) Dec: -29 51 59.49 (-29.86653d) Equinox: J2000		V=7.52	Reference Frame: ICRS			
	<i>Comments:</i> Category=GALAXY Description=[DISK, SPIRAL, SPIRAL ARM]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=20	POS TARG -139.07 898754918654,-159. 46005158199512	Prime + Parallel Group 1-2 in Tile Visit 19	280 Secs (280 Secs) [==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 1-2 in Tile Visit 19	215 Secs (215 Secs) [==>]	[1]
	3		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=18	POS TARG -138.90 069754918653,-157. 0630415819951	Prime + Parallel Group 3-4 in Tile Visit 19	700 Secs (700 Secs) [==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 3-4 in Tile Visit 19	670 Secs (670 Secs) [==>]	[1]
	5		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=18	POS TARG -139.17 803754918654,-159. 5591015819951	Prime + Parallel Group 5-6 in Tile Visit 19	740 Secs (740 Secs) [==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Group 5-6 in Tile Visit 19	640 Secs (640 Secs) [==>]	[1]
	7		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=19	POS TARG -138.80 164754918653,-156. 96399158199512	Prime + Parallel Group 7-8 in Tile Visit 19	350 Secs (350 Secs) [==>]	[1]
	8		ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Group 7-8 in Tile Visit 19	340 Secs (340 Secs) [==>]	[1]



Proposal 17747 - Tile Visit 20 - Tracing star cluster motions from their birth to dispersal in the barred spiral galaxy M83

Thu Feb 19 22:00:21 GMT 2026

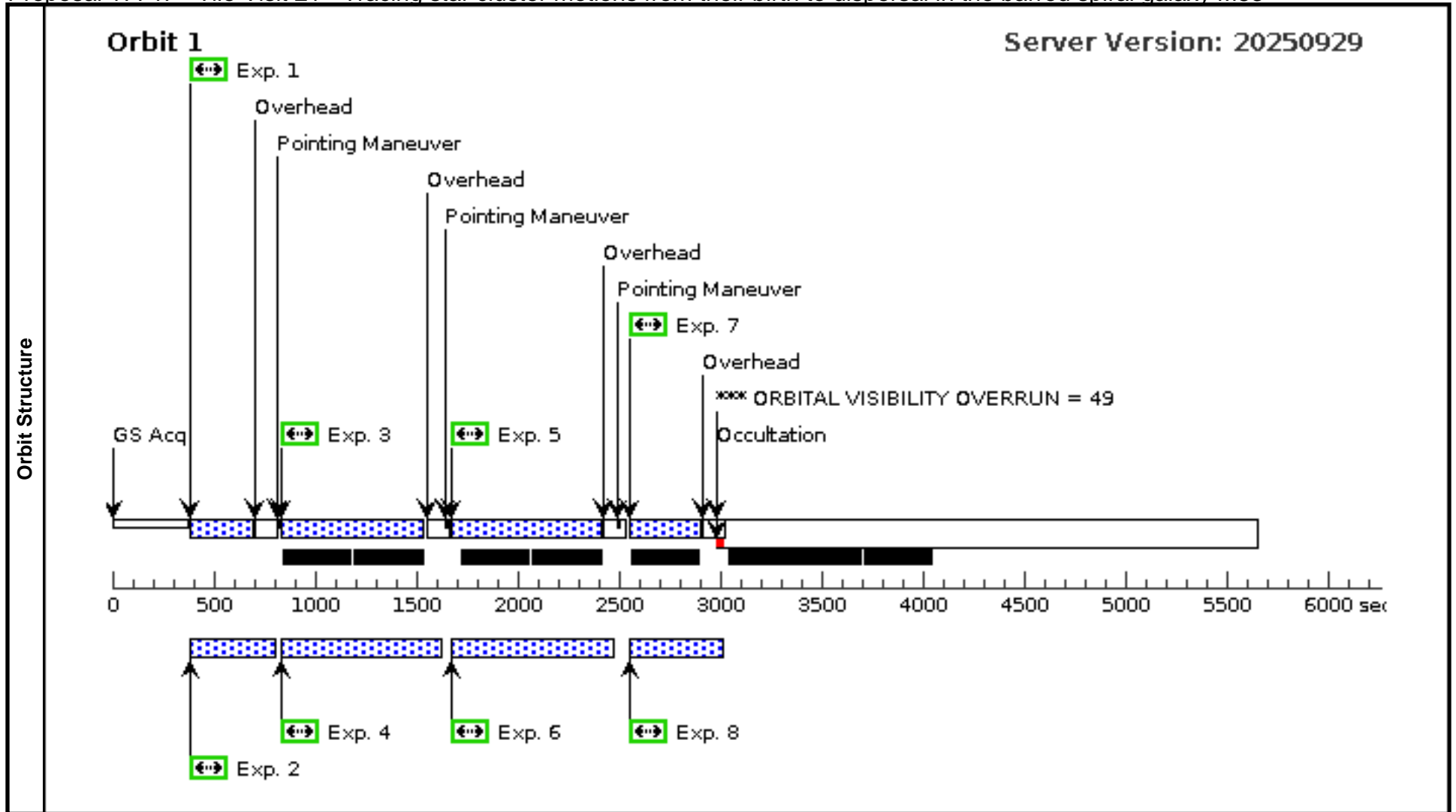
Visit	Proposal 17747, Tile Visit 20, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 19									
	(Tile Visit 20) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(1)	M83-MOS	RA: 13 37 2.5658 (204.2606908d) Dec: -29 51 59.49 (-29.86653d) Equinox: J2000		V=7.52	Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[DISK, SPIRAL, SPIRAL ARM]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=20	POS TARG -0.089145,-149.7409350000004	Prime + Parallel Group 1-2 in Tile Visit 20	280 Secs (280 Secs) [==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 1-2 in Tile Visit 20	215 Secs (215 Secs) [==>]	[1]
	3		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=18	POS TARG 0.089145,-147.343925	Prime + Parallel Group 3-4 in Tile Visit 20	700 Secs (700 Secs) [==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 3-4 in Tile Visit 20	670 Secs (670 Secs) [==>]	[1]
	5		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=18	POS TARG -0.188195,-149.839985	Prime + Parallel Group 5-6 in Tile Visit 20	740 Secs (740 Secs) [==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Group 5-6 in Tile Visit 20	640 Secs (640 Secs) [==>]	[1]
	7		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=19	POS TARG 0.188195,-147.2448750000004	Prime + Parallel Group 7-8 in Tile Visit 20	350 Secs (350 Secs) [==>]	[1]
	8		ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Group 7-8 in Tile Visit 20	340 Secs (340 Secs) [==>]	[1]



Proposal 17747 - Tile Visit 21 - Tracing star cluster motions from their birth to dispersal in the barred spiral galaxy M83

Thu Feb 19 22:00:22 GMT 2026

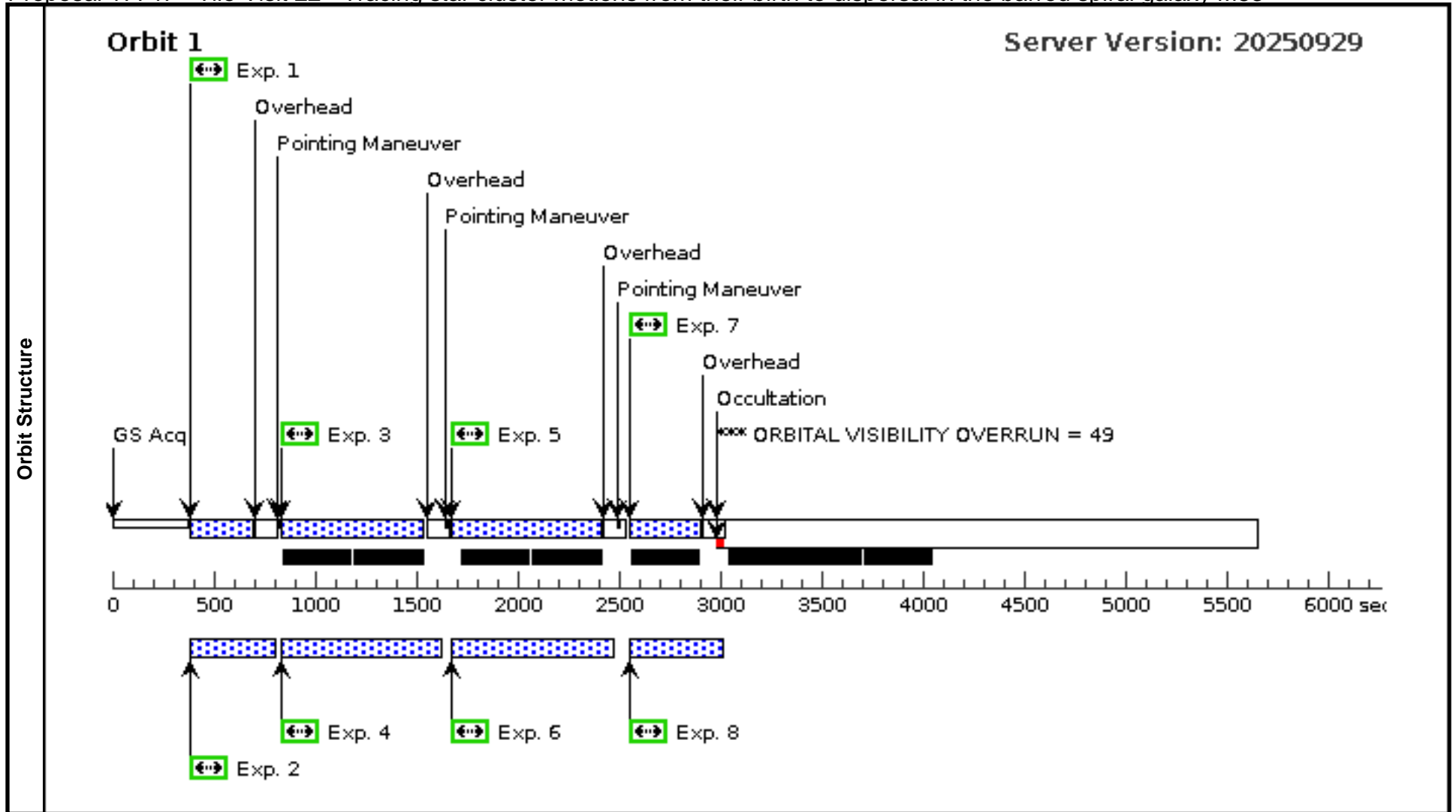
Visit	Proposal 17747, Tile Visit 21, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 19									
	(Tile Visit 21) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(1)	M83-MOS	RA: 13 37 2.5658 (204.2606908d) Dec: -29 51 59.49 (-29.86653d) Equinox: J2000		V=7.52	Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[DISK, SPIRAL, SPIRAL ARM]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=20	POS TARG 138.900 69754918653,-140.0 2181841800495	Prime + Parallel Group 1-2 in Tile Visit 21	280 Secs (280 Secs) [==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 1-2 in Tile Visit 21	215 Secs (215 Secs) [==>]	[1]
	3		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=18	POS TARG 139.078 98754918654,-137.6 2480841800493	Prime + Parallel Group 3-4 in Tile Visit 21	700 Secs (700 Secs) [==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 3-4 in Tile Visit 21	670 Secs (670 Secs) [==>]	[1]
	5		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=18	POS TARG 138.801 64754918653,-140.1 2086841800493	Prime + Parallel Group 5-6 in Tile Visit 21	740 Secs (740 Secs) [==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Group 5-6 in Tile Visit 21	640 Secs (640 Secs) [==>]	[1]
	7		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=19	POS TARG 139.178 03754918654,-137.5 2575841800495	Prime + Parallel Group 7-8 in Tile Visit 21	350 Secs (350 Secs) [==>]	[1]
	8		ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Group 7-8 in Tile Visit 21	340 Secs (340 Secs) [==>]	[1]



Proposal 17747 - Tile Visit 22 - Tracing star cluster motions from their birth to dispersal in the barred spiral galaxy M83

Thu Feb 19 22:00:22 GMT 2026

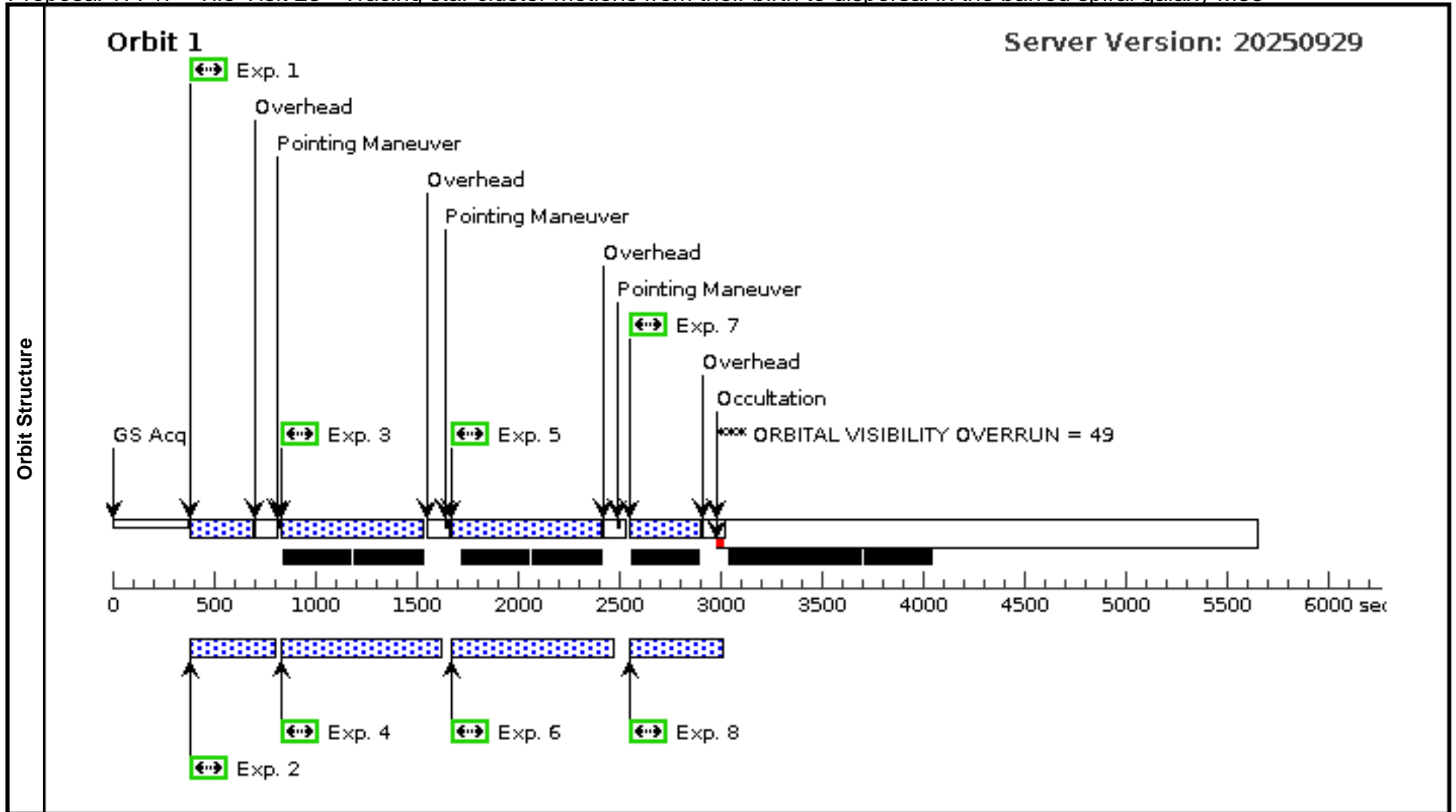
Visit	Proposal 17747, Tile Visit 22, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 19									
	(Tile Visit 22) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(1)	M83-MOS	RA: 13 37 2.5658 (204.2606908d) Dec: -29 51 59.49 (-29.86653d) Equinox: J2000		V=7.52	Reference Frame: ICRS			
	<i>Comments:</i> Category=GALAXY Description=[DISK, SPIRAL, SPIRAL ARM]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=20	POS TARG -139.07 898754918654,-10.9 17621581995082	Prime + Parallel Group 1-2 in Tile Visit 2	280 Secs (280 Secs) [==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 1-2 in Tile Visit 2	215 Secs (215 Secs) [==>]	[1]
	3		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=18	POS TARG -138.90 069754918653,-8.52 061158199508	Prime + Parallel Group 3-4 in Tile Visit 2	700 Secs (700 Secs) [==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 3-4 in Tile Visit 2	670 Secs (670 Secs) [==>]	[1]
	5		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=18	POS TARG -139.17 803754918654,-11.0 1667158199508	Prime + Parallel Group 5-6 in Tile Visit 2	740 Secs (740 Secs) [==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Group 5-6 in Tile Visit 2	640 Secs (640 Secs) [==>]	[1]
	7		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=19	POS TARG -138.80 164754918653,-8.42 1561581995082	Prime + Parallel Group 7-8 in Tile Visit 2	350 Secs (350 Secs) [==>]	[1]
	8		ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Group 7-8 in Tile Visit 2	340 Secs (340 Secs) [==>]	[1]



Proposal 17747 - Tile Visit 23 - Tracing star cluster motions from their birth to dispersal in the barred spiral galaxy M83

Thu Feb 19 22:00:22 GMT 2026

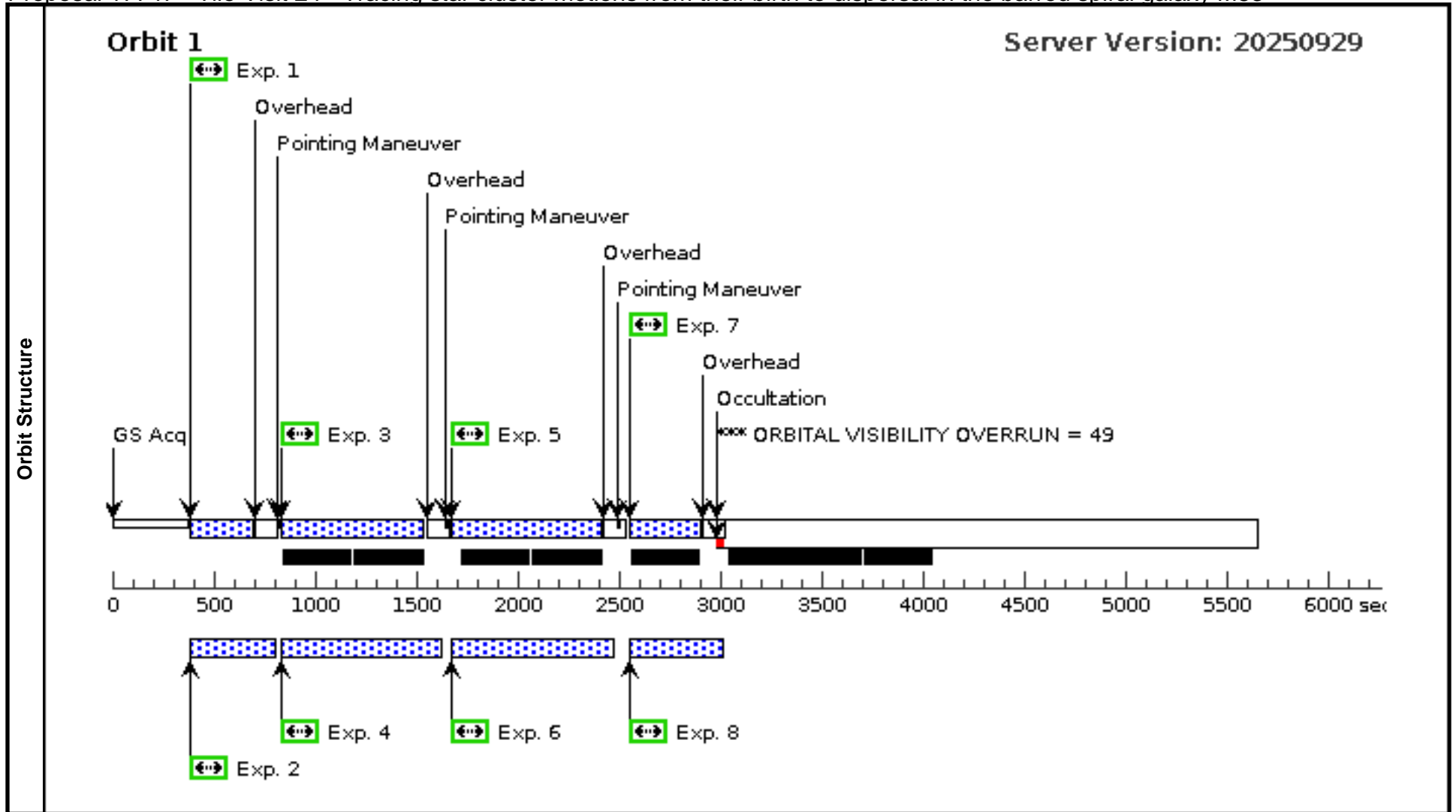
Visit	Proposal 17747, Tile Visit 23, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 19									
	(Tile Visit 23) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(1)	M83-MOS	RA: 13 37 2.5658 (204.2606908d) Dec: -29 51 59.49 (-29.86653d) Equinox: J2000		V=7.52	Reference Frame: ICRS			
	<i>Comments:</i> Category=GALAXY Description=[DISK, SPIRAL, SPIRAL ARM]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=20	POS TARG -0.0891 45,-1.198504999999 9928	Prime + Parallel Group 1-2 in Tile Visit 23	280 Secs (280 Secs) [==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 1-2 in Tile Visit 23	215 Secs (215 Secs) [==>]	[1]
	3		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=18	POS TARG 0.08914 5,1.1985050000000 7	Prime + Parallel Group 3-4 in Tile Visit 23	700 Secs (700 Secs) [==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 3-4 in Tile Visit 23	670 Secs (670 Secs) [==>]	[1]
	5		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=18	POS TARG -0.1881 95,-1.297554999999 993	Prime + Parallel Group 5-6 in Tile Visit 23	740 Secs (740 Secs) [==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Group 5-6 in Tile Visit 23	640 Secs (640 Secs) [==>]	[1]
	7		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=19	POS TARG 0.18819 5,1.2975550000000 71	Prime + Parallel Group 7-8 in Tile Visit 23	350 Secs (350 Secs) [==>]	[1]
	8		ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Group 7-8 in Tile Visit 23	340 Secs (340 Secs) [==>]	[1]



Proposal 17747 - Tile Visit 24 - Tracing star cluster motions from their birth to dispersal in the barred spiral galaxy M83

Thu Feb 19 22:00:22 GMT 2026

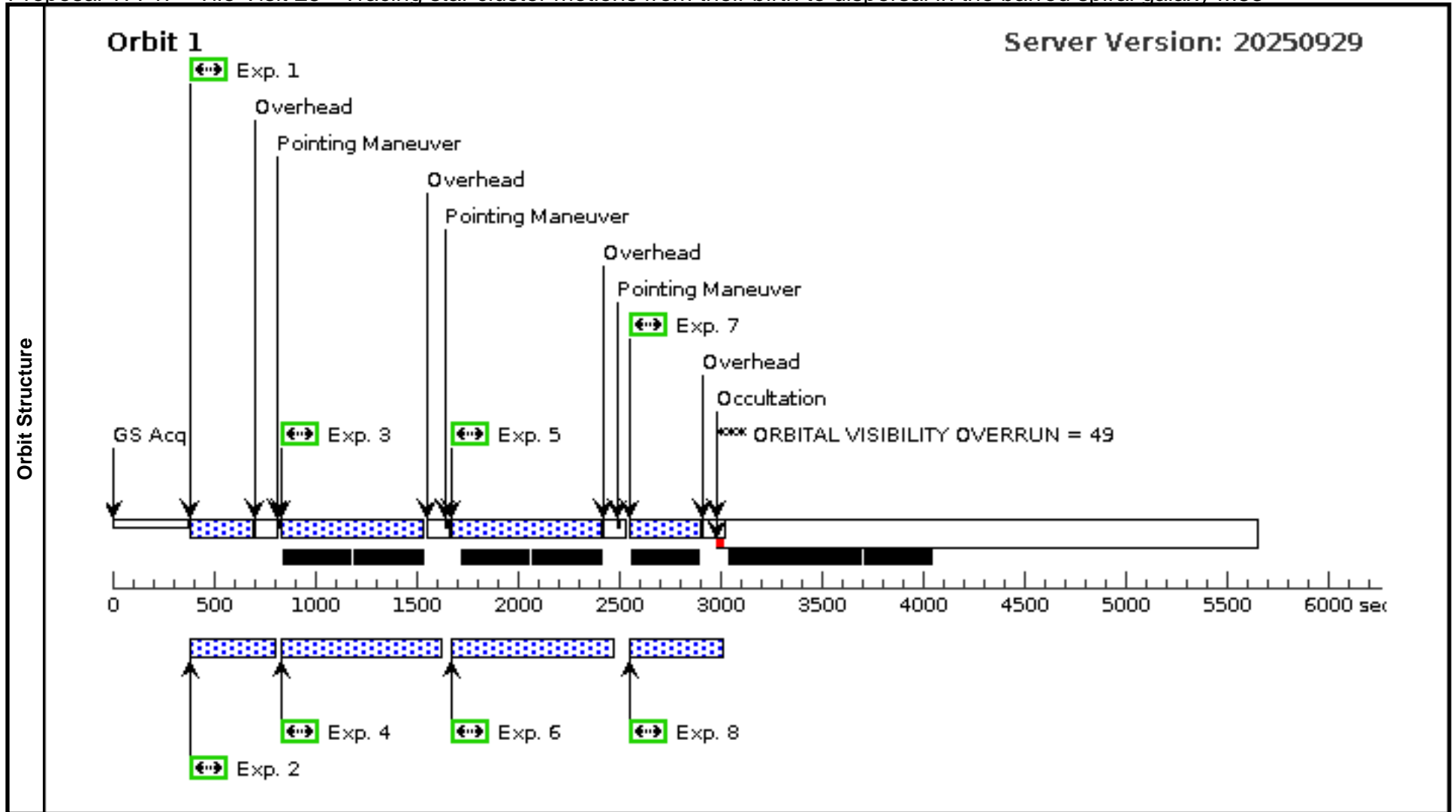
Visit	Proposal 17747, Tile Visit 24, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 19									
	(Tile Visit 24) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(1)	M83-MOS	RA: 13 37 2.5658 (204.2606908d) Dec: -29 51 59.49 (-29.86653d) Equinox: J2000		V=7.52	Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[DISK, SPIRAL, SPIRAL ARM]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=20	POS TARG 138.900 69754918653,8.5206 11581995094	Prime + Parallel Group 1-2 in Tile Visit 24	280 Secs (280 Secs) [==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 1-2 in Tile Visit 24	215 Secs (215 Secs) [==>]	[1]
	3		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=18	POS TARG 139.078 98754918654,10.917 621581995096	Prime + Parallel Group 3-4 in Tile Visit 24	700 Secs (700 Secs) [==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 3-4 in Tile Visit 24	670 Secs (670 Secs) [==>]	[1]
	5		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=18	POS TARG 138.801 64754918653,8.4215 61581995096	Prime + Parallel Group 5-6 in Tile Visit 24	740 Secs (740 Secs) [==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Group 5-6 in Tile Visit 24	640 Secs (640 Secs) [==>]	[1]
	7		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=19	POS TARG 139.178 03754918654,11.016 671581995094	Prime + Parallel Group 7-8 in Tile Visit 24	350 Secs (350 Secs) [==>]	[1]
	8		ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Group 7-8 in Tile Visit 24	340 Secs (340 Secs) [==>]	[1]



Proposal 17747 - Tile Visit 25 - Tracing star cluster motions from their birth to dispersal in the barred spiral galaxy M83

Thu Feb 19 22:00:22 GMT 2026

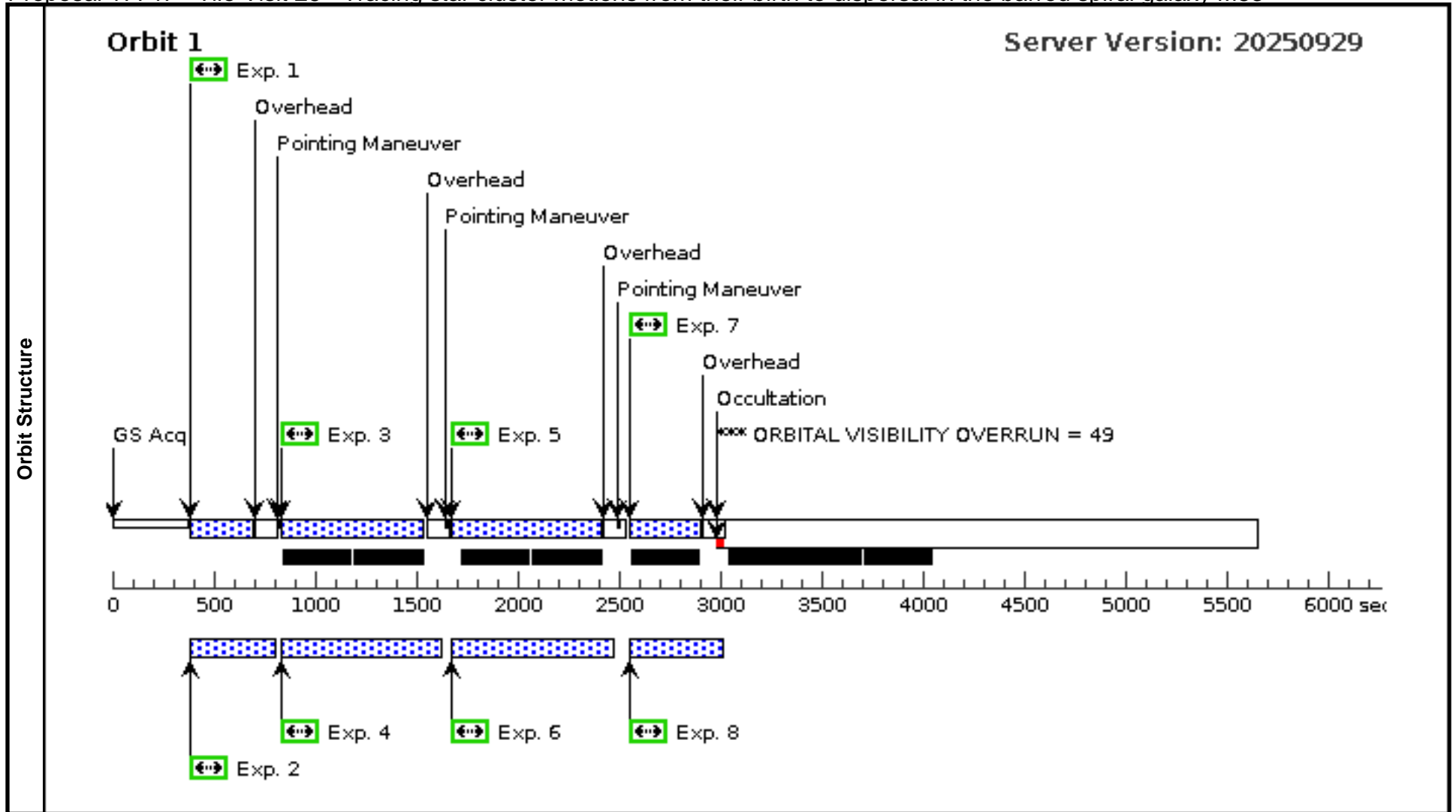
Visit	Proposal 17747, Tile Visit 25, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 19									
	(Tile Visit 25) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(1)	M83-MOS	RA: 13 37 2.5658 (204.2606908d) Dec: -29 51 59.49 (-29.86653d) Equinox: J2000		V=7.52	Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[DISK, SPIRAL, SPIRAL ARM]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=20	POS TARG -139.07 898754918654,137.6 2480841800493	Prime + Parallel Group 1-2 in Tile Visit 25	280 Secs (280 Secs) [==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 1-2 in Tile Visit 25	215 Secs (215 Secs) [==>]	[1]
	3		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=18	POS TARG -138.90 069754918653,140.0 2181841800495	Prime + Parallel Group 3-4 in Tile Visit 25	700 Secs (700 Secs) [==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 3-4 in Tile Visit 25	670 Secs (670 Secs) [==>]	[1]
	5		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=18	POS TARG -139.17 803754918654,137.5 2575841800495	Prime + Parallel Group 5-6 in Tile Visit 25	740 Secs (740 Secs) [==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Group 5-6 in Tile Visit 25	640 Secs (640 Secs) [==>]	[1]
	7		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=19	POS TARG -138.80 164754918653,140.1 2086841800493	Prime + Parallel Group 7-8 in Tile Visit 25	350 Secs (350 Secs) [==>]	[1]
	8		ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Group 7-8 in Tile Visit 25	340 Secs (340 Secs) [==>]	[1]



Proposal 17747 - Tile Visit 26 - Tracing star cluster motions from their birth to dispersal in the barred spiral galaxy M83

Thu Feb 19 22:00:22 GMT 2026

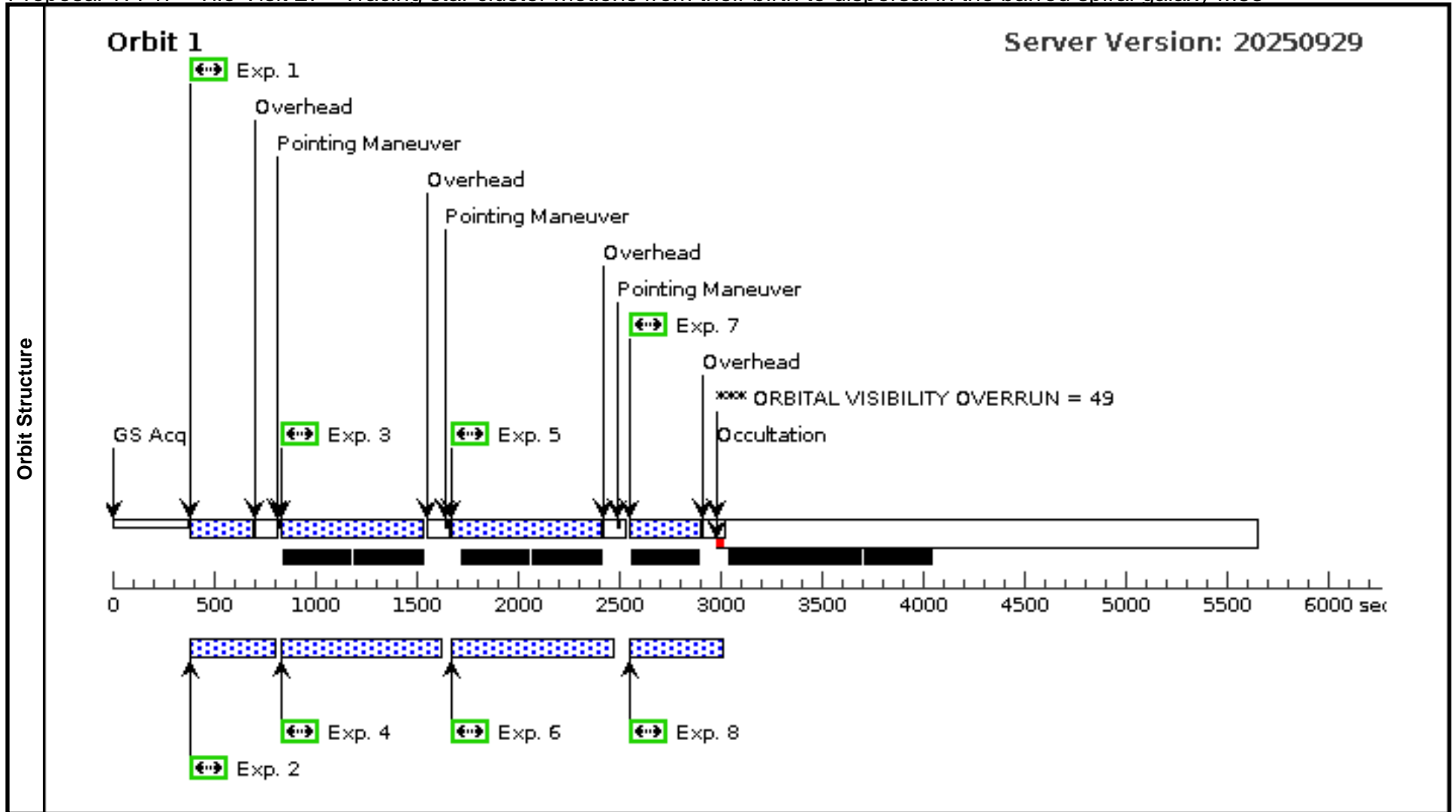
Visit	Proposal 17747, Tile Visit 26, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 19									
	(Tile Visit 26) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(1)	M83-MOS	RA: 13 37 2.5658 (204.2606908d) Dec: -29 51 59.49 (-29.86653d) Equinox: J2000		V=7.52	Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[DISK, SPIRAL, SPIRAL ARM]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=20	POS TARG -0.089145,147.343925	Prime + Parallel Group 1-2 in Tile Visit 26	280 Secs (280 Secs) [==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 1-2 in Tile Visit 26	215 Secs (215 Secs) [==>]	[1]
	3		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=18	POS TARG 0.089145,149.7409350000004	Prime + Parallel Group 3-4 in Tile Visit 26	700 Secs (700 Secs) [==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 3-4 in Tile Visit 26	670 Secs (670 Secs) [==>]	[1]
	5		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=18	POS TARG -0.188195,147.2448750000004	Prime + Parallel Group 5-6 in Tile Visit 26	740 Secs (740 Secs) [==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Group 5-6 in Tile Visit 26	640 Secs (640 Secs) [==>]	[1]
	7		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=19	POS TARG 0.188195,149.839985	Prime + Parallel Group 7-8 in Tile Visit 26	350 Secs (350 Secs) [==>]	[1]
	8		ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Group 7-8 in Tile Visit 26	340 Secs (340 Secs) [==>]	[1]



Proposal 17747 - Tile Visit 27 - Tracing star cluster motions from their birth to dispersal in the barred spiral galaxy M83

Thu Feb 19 22:00:22 GMT 2026

Visit	Proposal 17747, Tile Visit 27, failed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 19									
	(Tile Visit 27) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(1)	M83-MOS	RA: 13 37 2.5658 (204.2606908d) Dec: -29 51 59.49 (-29.86653d) Equinox: J2000		V=7.52	Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[DISK, SPIRAL, SPIRAL ARM]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=20	POS TARG 138.900 69754918653,157.06 30415819951	Prime + Parallel Group 1-2 in Tile Visit 27	280 Secs (280 Secs) [==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 1-2 in Tile Visit 27	215 Secs (215 Secs) [==>]	[1]
	3		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=18	POS TARG 139.078 98754918654,159.46 005158199512	Prime + Parallel Group 3-4 in Tile Visit 27	700 Secs (700 Secs) [==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 3-4 in Tile Visit 27	670 Secs (670 Secs) [==>]	[1]
	5		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=18	POS TARG 138.801 64754918653,156.96 399158199512	Prime + Parallel Group 5-6 in Tile Visit 27	740 Secs (740 Secs) [==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Group 5-6 in Tile Visit 27	640 Secs (640 Secs) [==>]	[1]
	7		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=19	POS TARG 139.178 03754918654,159.55 91015819951	Prime + Parallel Group 7-8 in Tile Visit 27	350 Secs (350 Secs) [==>]	[1]
	8		ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Group 7-8 in Tile Visit 27	340 Secs (340 Secs) [==>]	[1]



Proposal 17747 - Tile Visit 28 - Tracing star cluster motions from their birth to dispersal in the barred spiral galaxy M83

Thu Feb 19 22:00:22 GMT 2026

Visit	Proposal 17747, Tile Visit 28 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 19									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	M83-MOS	RA: 13 37 2.5658 (204.2606908d) Dec: -29 51 59.49 (-29.86653d) Equinox: J2000		V=7.52	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[DISK, SPIRAL, SPIRAL ARM]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=20	POS TARG 138.900 69754918653,157.06 30415819951	Prime + Parallel Group 1-2 in Tile Visit 28	280 Secs (280 Secs) [==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 1-2 in Tile Visit 28	215 Secs (215 Secs) [==>]	[1]
	3		(1) M83-MOS	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	FLASH=18	POS TARG 139.078 98754918654,159.46 005158199512	Prime + Parallel Group 3-4 in Tile Visit 28	700 Secs (700 Secs) [==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 3-4 in Tile Visit 28	670 Secs (670 Secs) [==>]	[1]

