



18331 - Stars Born in the Wind: Where and How Are Stars Formed in the M82 Outflow?

Cycle: 34, Proposal Category: GO
(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
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Timothy M. Heckman (CoI)	The Johns Hopkins University
Dr. Adam Smercina (CoI)	Space Telescope Science Institute
Dr. Sanchayeeta Borthakur (CoI)	Arizona State University
Mr. Vaishnav Rao (CoI)	University of Michigan

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) M82-FIELD1	WFC3/UVIS	3	18-Aug-2026 11:00:39.0	yes
02	(1) M82-FIELD1	WFC3/UVIS	1	18-Aug-2026 11:00:39.0	yes
03	(2) M82-FIELD2	WFC3/UVIS	3	18-Aug-2026 11:00:40.0	yes
04	(2) M82-FIELD2	WFC3/UVIS	2	18-Aug-2026 11:00:40.0	yes
05	(3) M82-FIELD3	WFC3/UVIS	3	18-Aug-2026 11:00:41.0	yes
06	(3) M82-FIELD3	WFC3/UVIS	2	18-Aug-2026 11:00:41.0	yes
07	(3) M82-FIELD3	WFC3/UVIS	2	18-Aug-2026 11:00:42.0	yes
08	(3) M82-FIELD3	WFC3/UVIS	2	18-Aug-2026 11:00:42.0	yes
09	(3) M82-FIELD3	WFC3/UVIS	3	18-Aug-2026 11:00:43.0	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>
10	(3) M82-FIELD3	WFC3/UVIS	3	18-Aug-2026 11:00:43.0	yes

24 Total Orbits Used

ABSTRACT

Galactic outflows are a fundamental component of galaxy evolution, yet it remains unclear whether they act only as negative feedback or can also trigger star formation by compressing gas. This positive-feedback mode has been suggested by theory and by indirect nebular diagnostics, but it has never been established through direct detection and age-dating of the young stars themselves. With its proximity and prototypical bipolar superwind, M82 is the only system where this can be tested star by star. Recent HST optical-band imaging has revealed halo stellar populations plausibly linked to the starburst history of the disk, and our analysis of archival HST UV data uncovers candidate OB stars closely associated with filamentary outflow structures. These results strongly motivate deeper multi-band UV-optical imaging to securely identify young massive stars and break the age-extinction degeneracy. We therefore propose deep HST imaging of three regions in the M82 superwind, spanning 2-11 kpc from the disk, to carry out the first spatially resolved census of young massive stars born across the outflow. By combining new observations with archival data, we will directly detect and age-date the young stars in the outflows, quantify their contribution to the recent star formation in M82, and determine whether they formed within the outflow itself or instead at wind-CGM interaction sites. This programme will provide the clearest direct test yet of star formation in galactic outflows and constrain its implications for feedback physics.

OBSERVING DESCRIPTION

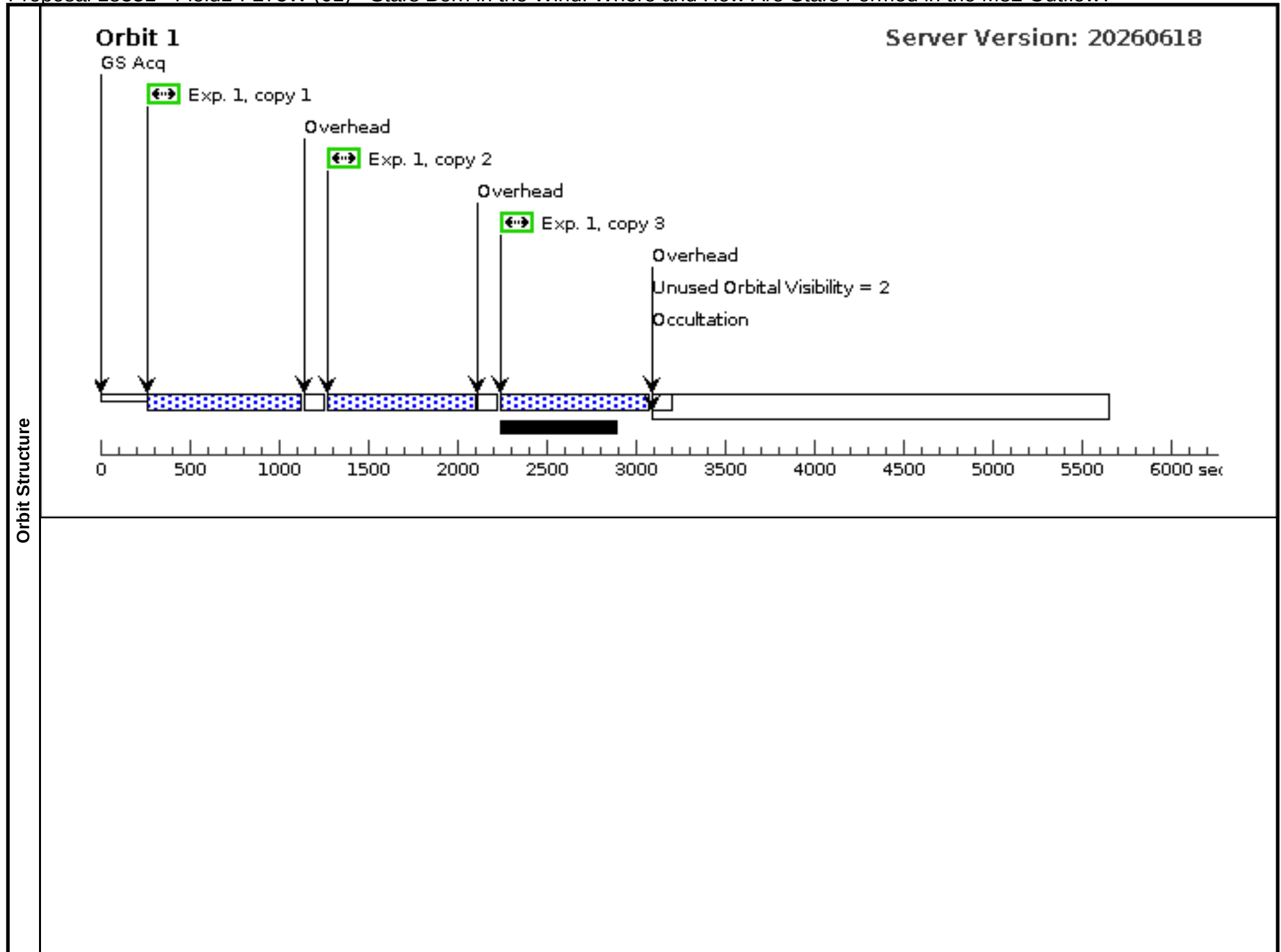
We will obtain WFC3/UVIS imaging of three fields in the M82 outflow to identify and age-date young massive stars potentially formed in the wind. The primary observations use F275W and F336W, combined with at least one optical band in each field, to isolate hot upper-main-sequence stars and constrain their ages and extinction. Fields 1 and 2 already have archival optical imaging, so only new UV imaging is required there. Field 3 lacks the needed optical coverage, so we also obtain F475W and F814W imaging.

The program uses 24 orbits in total, organized into 10 visits. Field 1 is observed in two visits: one 3-orbit visit in F275W and one 1-orbit visit in F336W. Field 2 is observed in two visits: one 3-orbit visit in F275W and one 2-orbit visit in F336W. Field 3 is observed in six visits: one 3-orbit visit in F275W, one 2-orbit visit in F336W, one 2-orbit visit in F475W, one 2-orbit visit in F814W, and two 3-orbit visits in F656N.

We use a WFC3/UVIS three-point dither pattern to improve sampling, reject cosmic rays, and cover detector artifacts. The UV and narrow-band exposures use post-flash as needed for CTE performance. Visits within each field are constrained to the same orientation so that all filters cover the same sky area and can be combined into matched photometric catalogs.

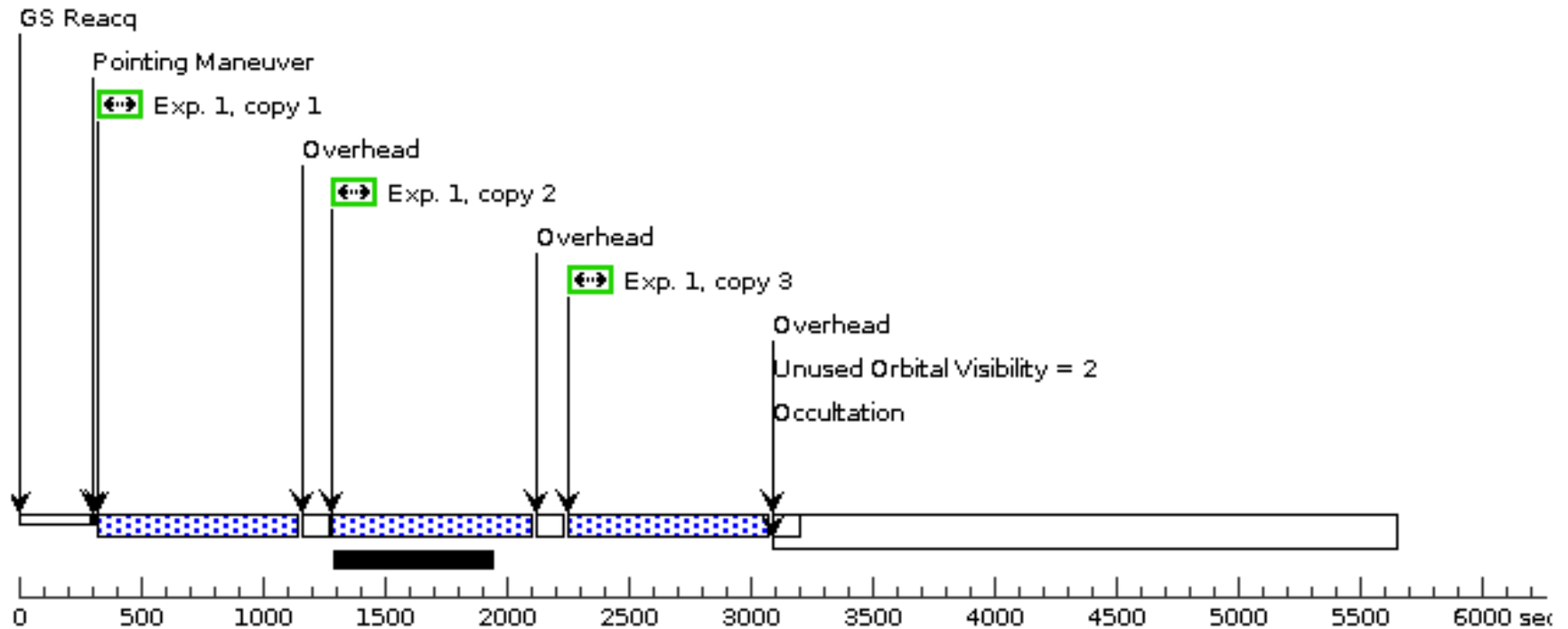
Proposal 18331 - Field1-F275W (01) - Stars Born in the Wind: Where and How Are Stars Formed in the M82 Outflow?

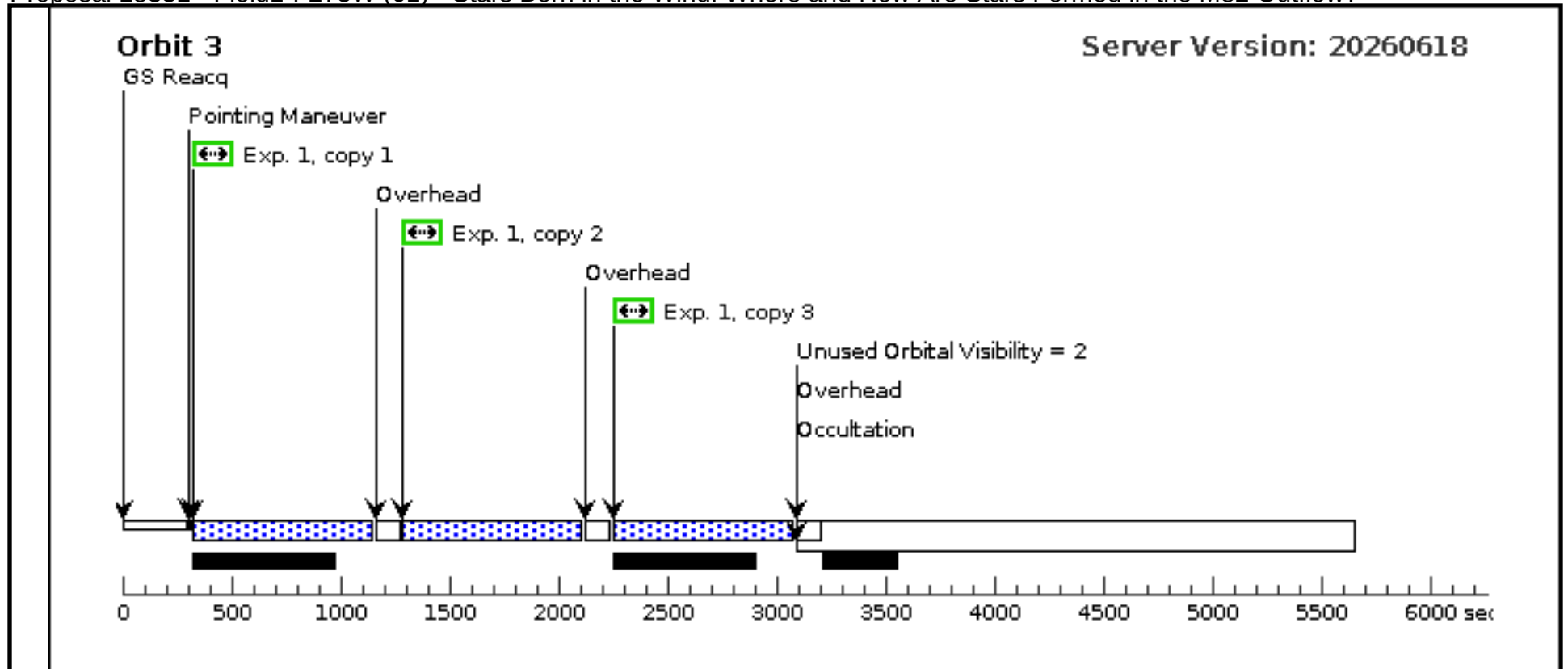
Visit	Proposal 18331, Field1-F275W (01)										Tue Aug 18 15:00:44 GMT 2026		
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	Scientific Instruments: WFC3/UVIS												
	Special Requirements: ORIENT 110D TO 120 D												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=2.98 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false										(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(1)	M82-FIELD1		RA: 09 55 57.0000 (148.9875000d) Dec: +69 39 29.00 (69.65806d) Equinox: J2000				V=16+/-2		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[STARBURST, WIND]												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	(WFC3UVI S.im.236596 9)	(1) M82-FIELD1	WFC3/UVIS, ACCUM, UVIS		F275W	FLASH=17		Pattern 1, Exps 1-1 i n Field1-F275W (01) (1)	900 Secs X 3 (7467 Secs)			
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Orbit 2

Server Version: 20260618



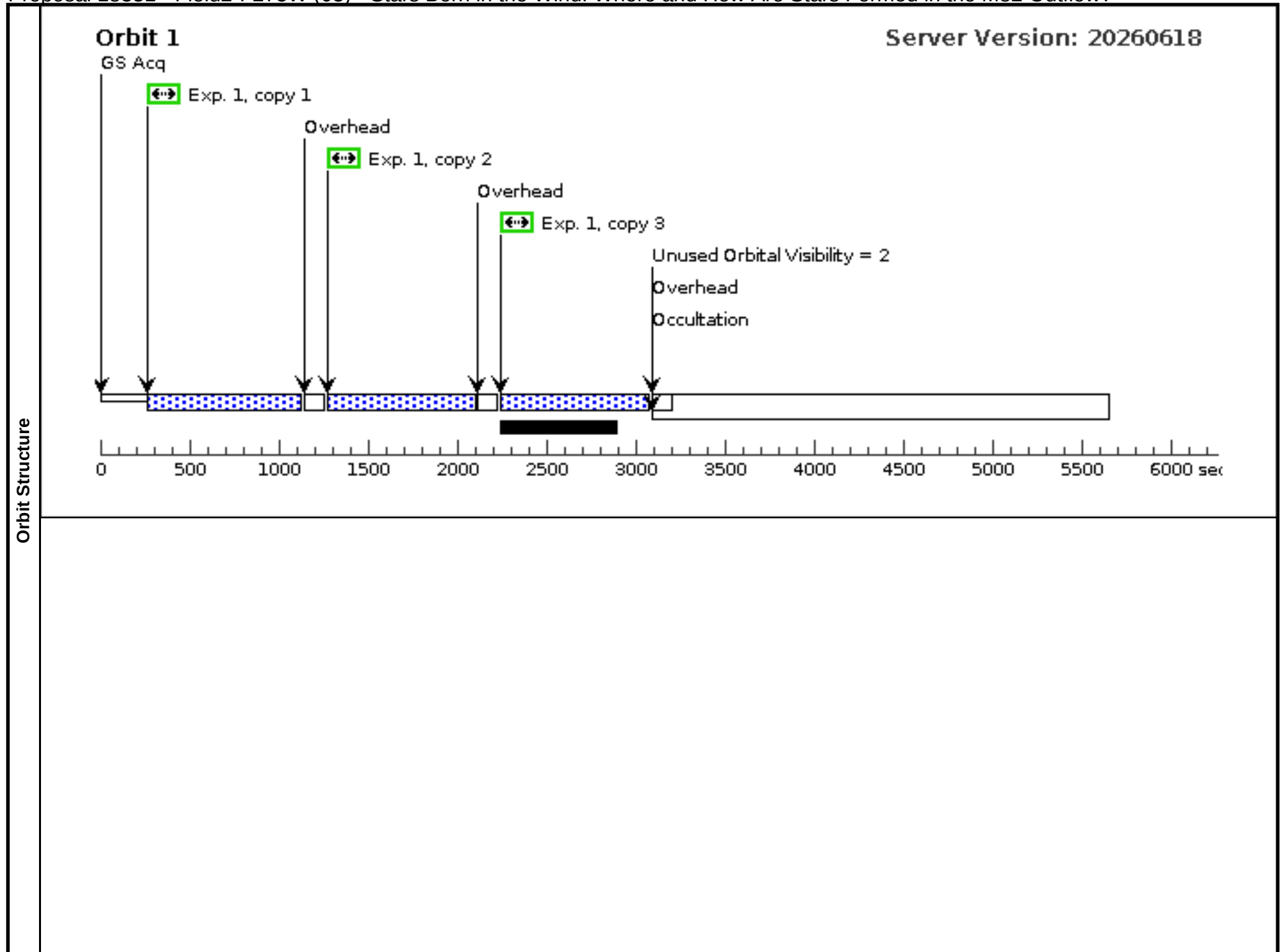


Proposal 18331 - Field1-F336W (02) - Stars Born in the Wind: Where and How Are Stars Formed in the M82 Outflow?

Visit	Proposal 18331, Field1-F336W (02) Tue Aug 18 15:00:44 GMT 2026				
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 01				
Patterns	#	Primary Pattern	Secondary Pattern		Exposures
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(1)	M82-FIELD1	RA: 09 55 57.0000 (148.9875000d) Dec: +69 39 29.00 (69.65806d) Equinox: J2000		V=16+/-2
	Comments: Category=GALAXY Description=[STARBURST, WIND]				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	(1) M82-FIELD1		WFC3/UVIS, ACCUM, UVIS	F336W
				Opt. Params.	Special Reqs.
				FLASH=17	
				Groups	Exp. Time (Total)/[Actual Dur.]
				Pattern 1, Exps 1-1 in Field1-F336W (02) (1)	835 Secs (2505 Secs)
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					[==>(Pattern 2)]
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					[1]
Orbit Structure	Orbit 1 Server Version: 20260618				

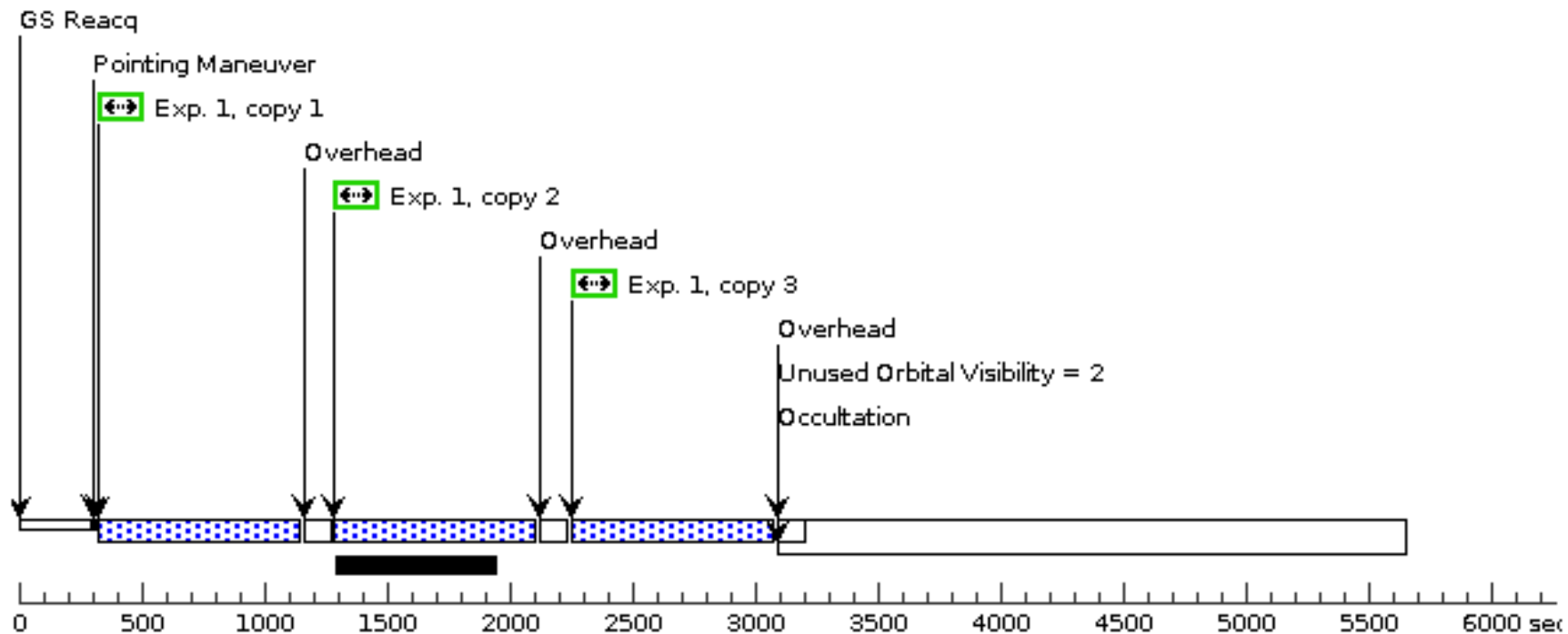
Proposal 18331 - Field2-F275W (03) - Stars Born in the Wind: Where and How Are Stars Formed in the M82 Outflow?

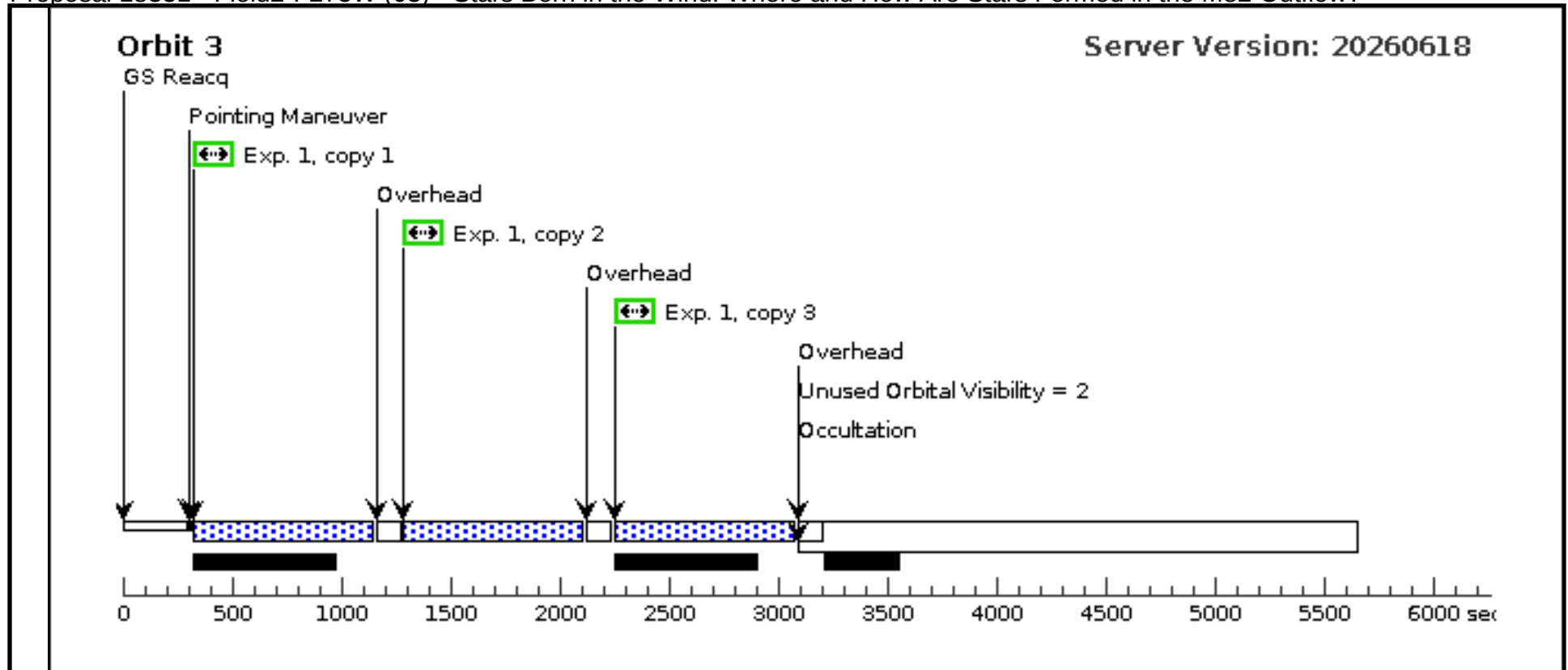
Visit	Proposal 18331, Field2-F275W (03)										Tue Aug 18 15:00:44 GMT 2026		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: WFC3/UVIS												
	Special Requirements: ORIENT 182D TO 185 D												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=2.98 Line Spacing=					Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false					(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections			Fluxes		Miscellaneous		
	(2)	M82-FIELD2		RA: 09 56 21.0298 (149.0876242d) Dec: +69 36 50.90 (69.61414d) Equinox: J2000					V=16+/-2		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[STARBURST, WIND]												
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(2) M82-FIELD2	WFC3/UVIS, ACCUM, UVIS		F275W	FLASH=17		Pattern 1, Exps 1-1 i n Field2-F275W (03) (1)	835 Secs X 3 (7467 Secs)			
										[==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)]		[1]	
										[==>827 Secs (Pattern 2, Copy 1)] [==>827 Secs (Pattern 2, Copy 2)] [==>827 Secs (Pattern 2, Copy 3)]		[2]	
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Orbit 2

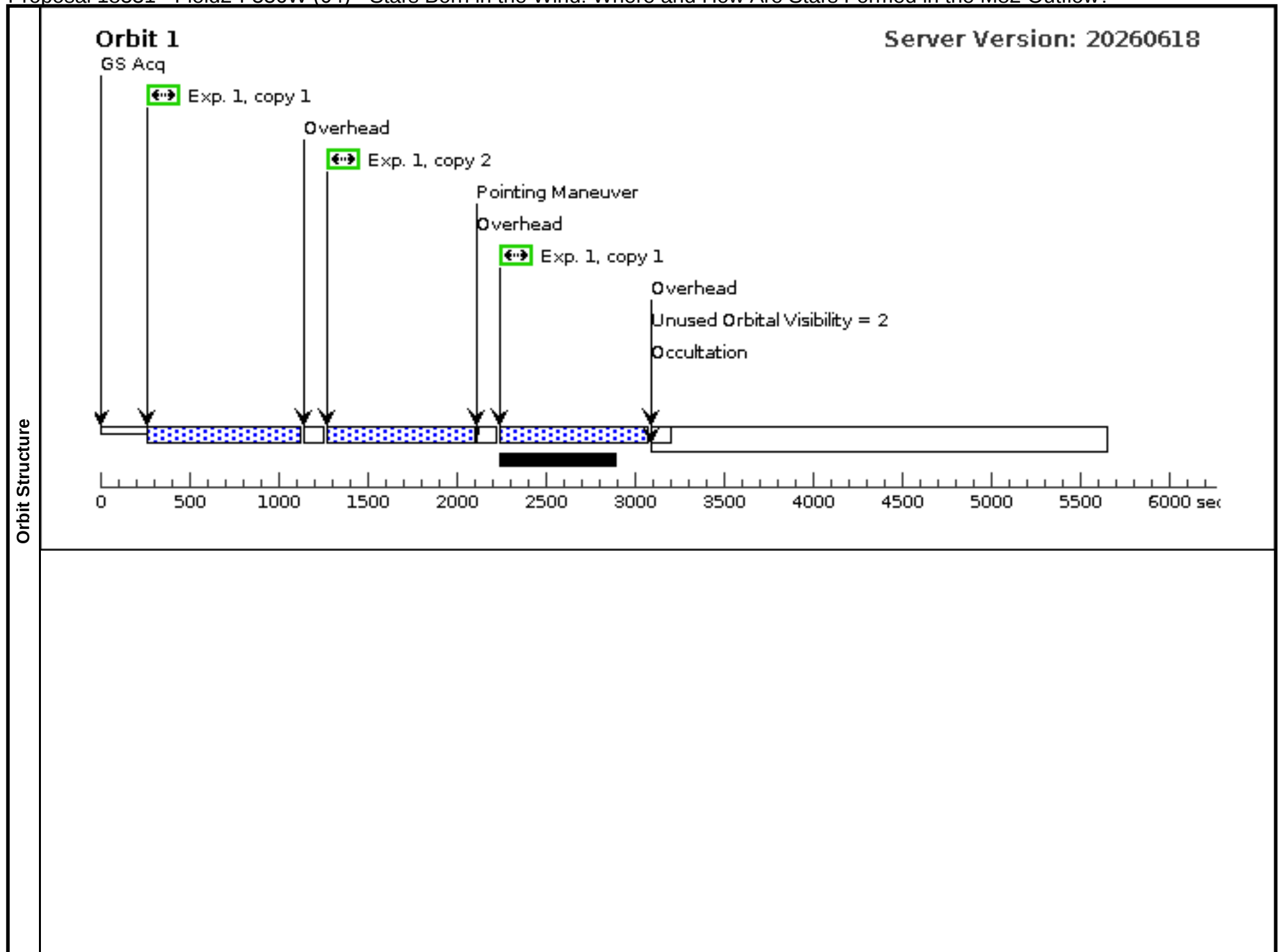
Server Version: 20260618

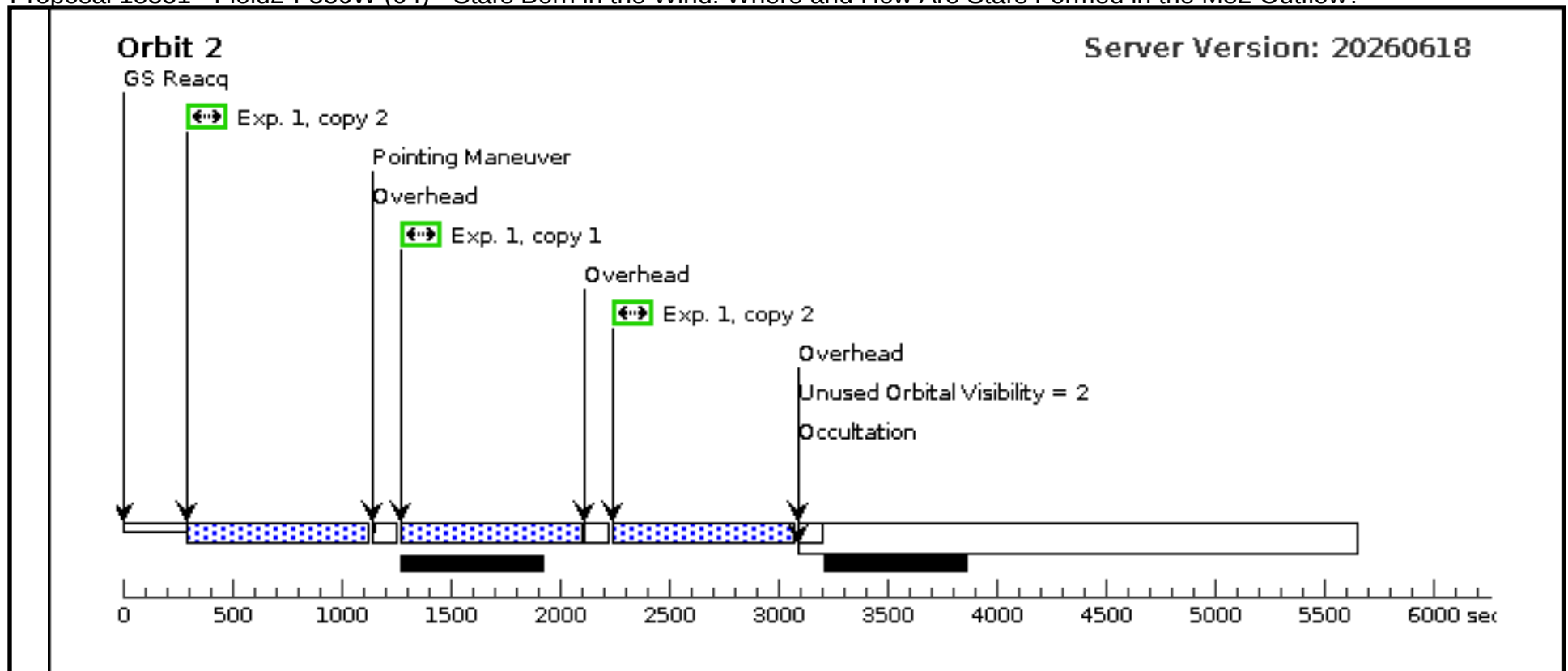




Proposal 18331 - Field2-F336W (04) - Stars Born in the Wind: Where and How Are Stars Formed in the M82 Outflow?

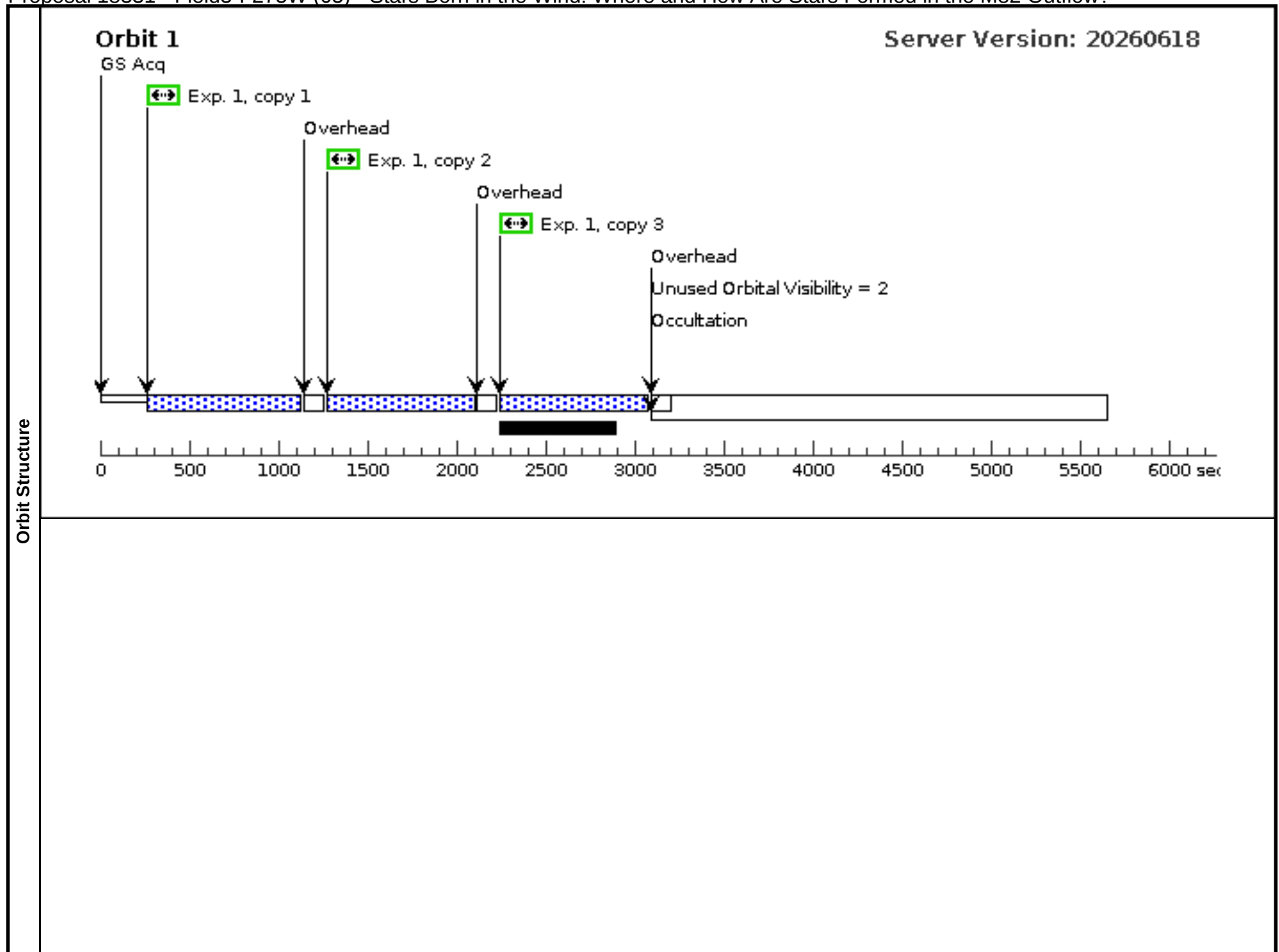
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	Scientific Instruments: WFC3/UVIS												
	Special Requirements: SAME ORIENT AS 03												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
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Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(2)	M82-FIELD2		RA: 09 56 21.0298 (149.0876242d) Dec: +69 36 50.90 (69.61414d) Equinox: J2000				V=16+/-2		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[STARBURST, WIND]												
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(2) M82-FIELD2	WFC3/UVIS, ACCUM, UVIS		F336W	FLASH=17		Pattern 1, Exps 1-1 in Field2-F336W (04) (1)	835 Secs X 2 (5010 Secs)			
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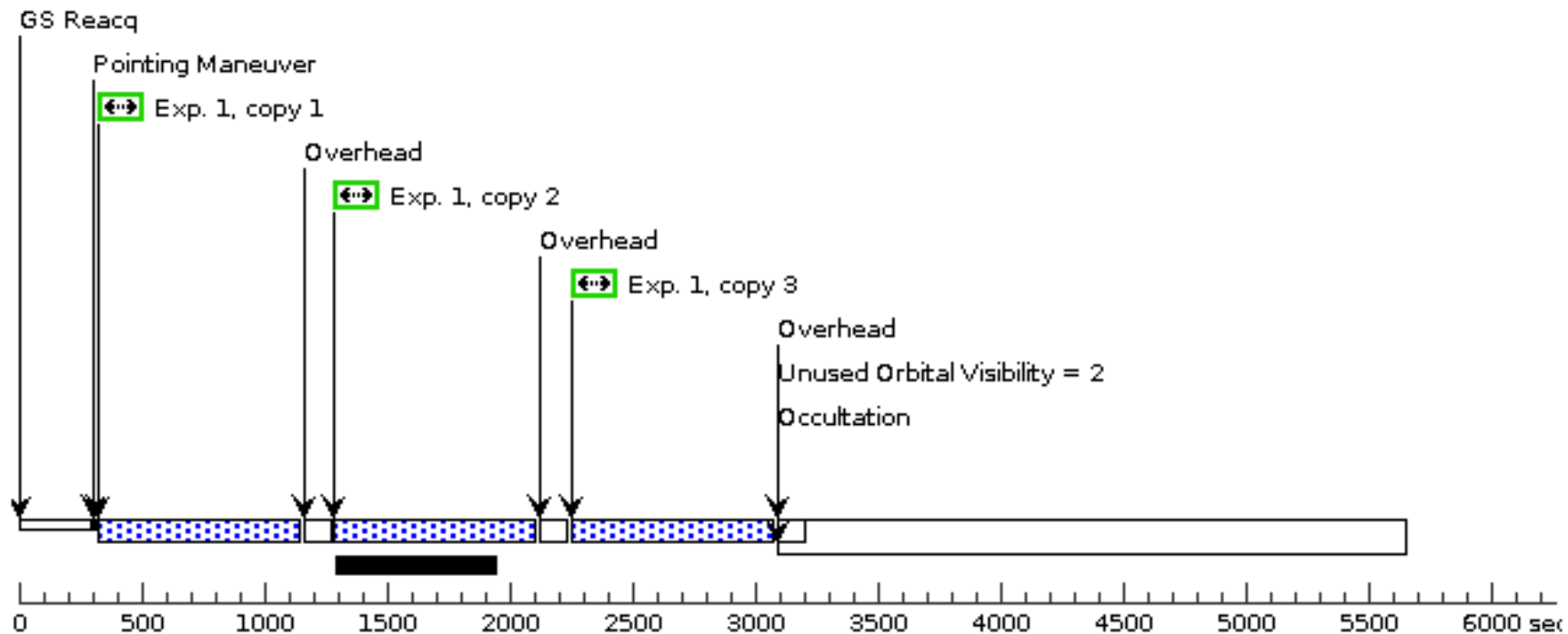
Proposal 18331 - Field3-F275W (05) - Stars Born in the Wind: Where and How Are Stars Formed in the M82 Outflow?

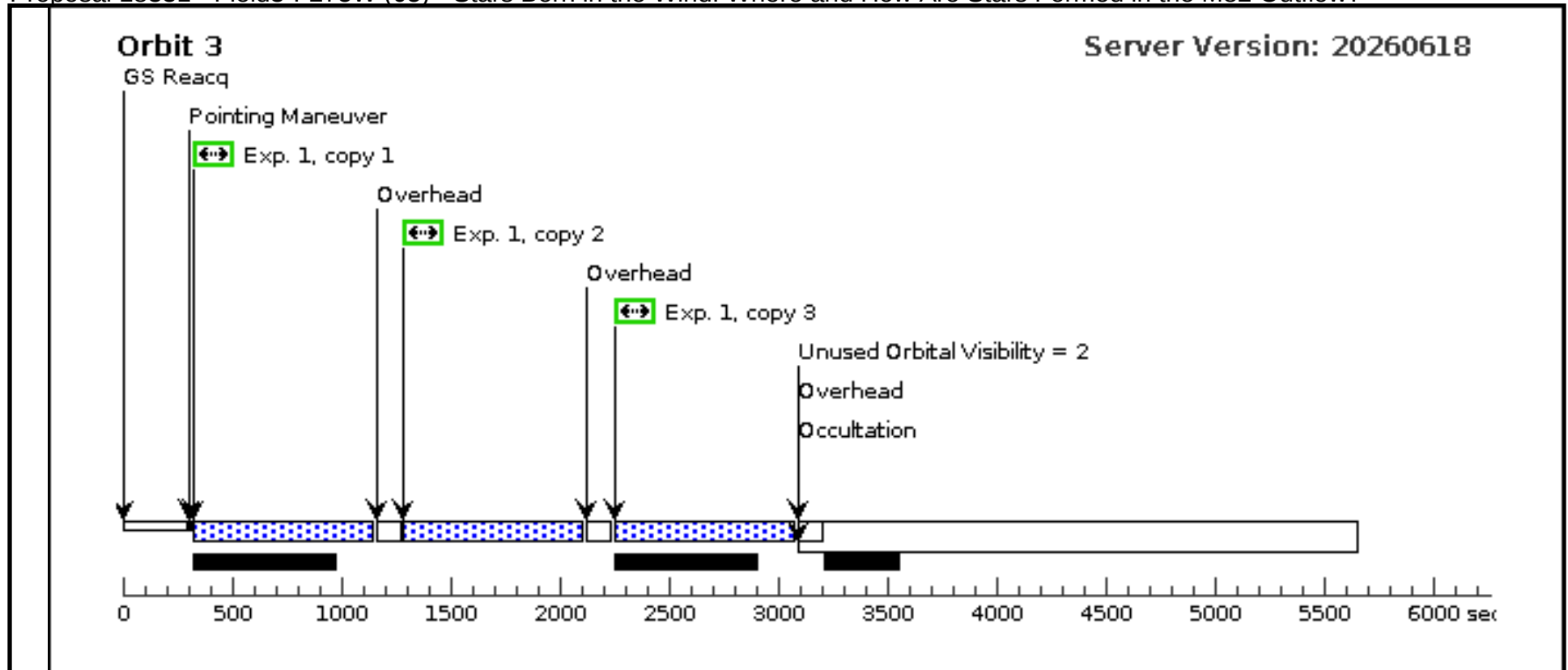
Visit	Proposal 18331, Field3-F275W (05)										Tue Aug 18 15:00:44 GMT 2026		
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	Scientific Instruments: WFC3/UVIS												
	Special Requirements: ORIENT 120D TO 140 D												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
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Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(3)	M82-FIELD3		RA: 09 55 4.5000 (148.7687500d) Dec: +69 50 52.00 (69.84778d) Equinox: J2000				V=16+/-2		Reference Frame: ICRS			
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Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(3) M82-FIELD3	WFC3/UVIS, ACCUM, UVIS		F275W	FLASH=17		Pattern 1, Exps 1-1 i n Field3-F275W (05) (1)	827 Secs X 3 (7467 Secs)			
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Orbit 2

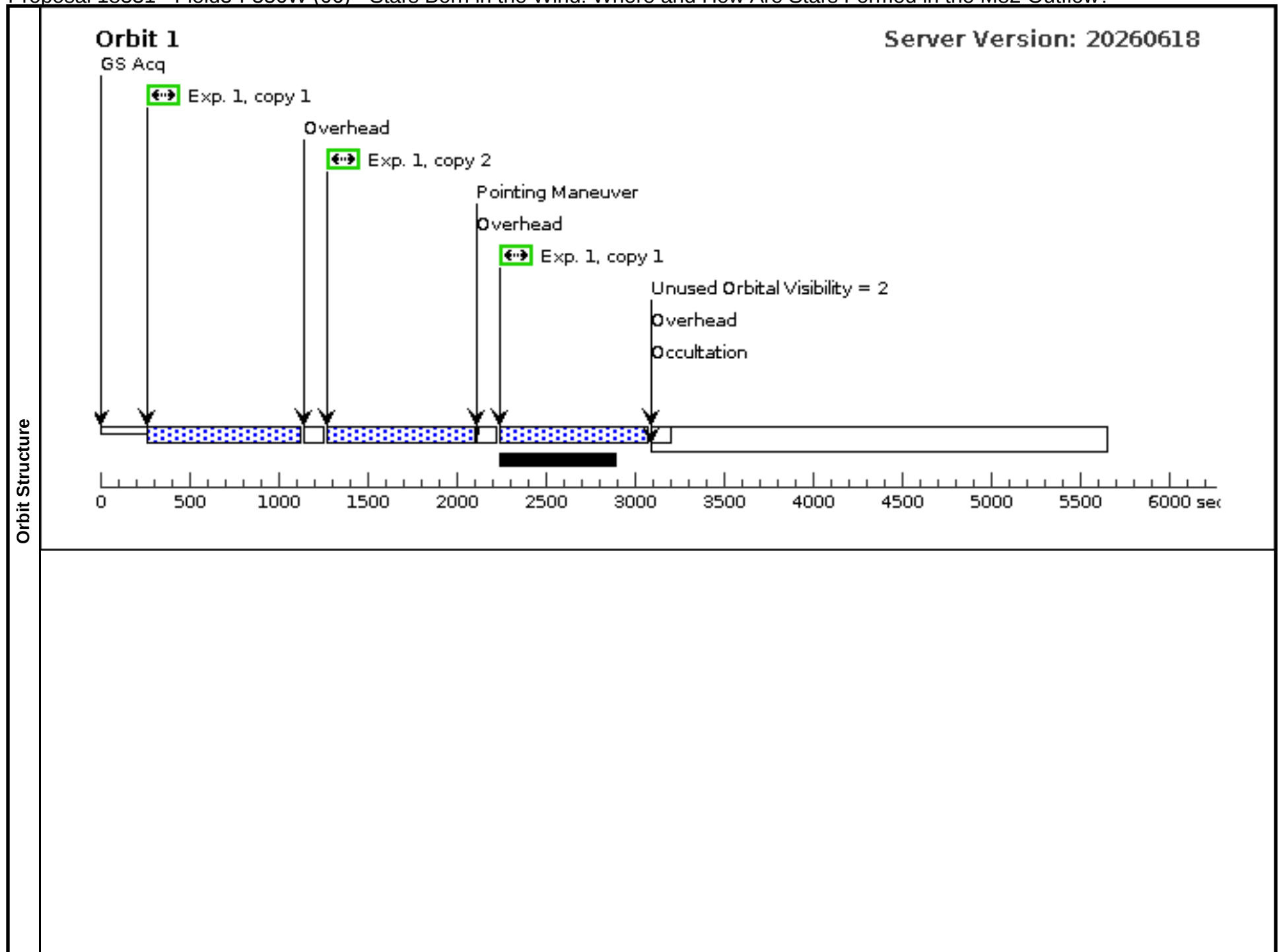
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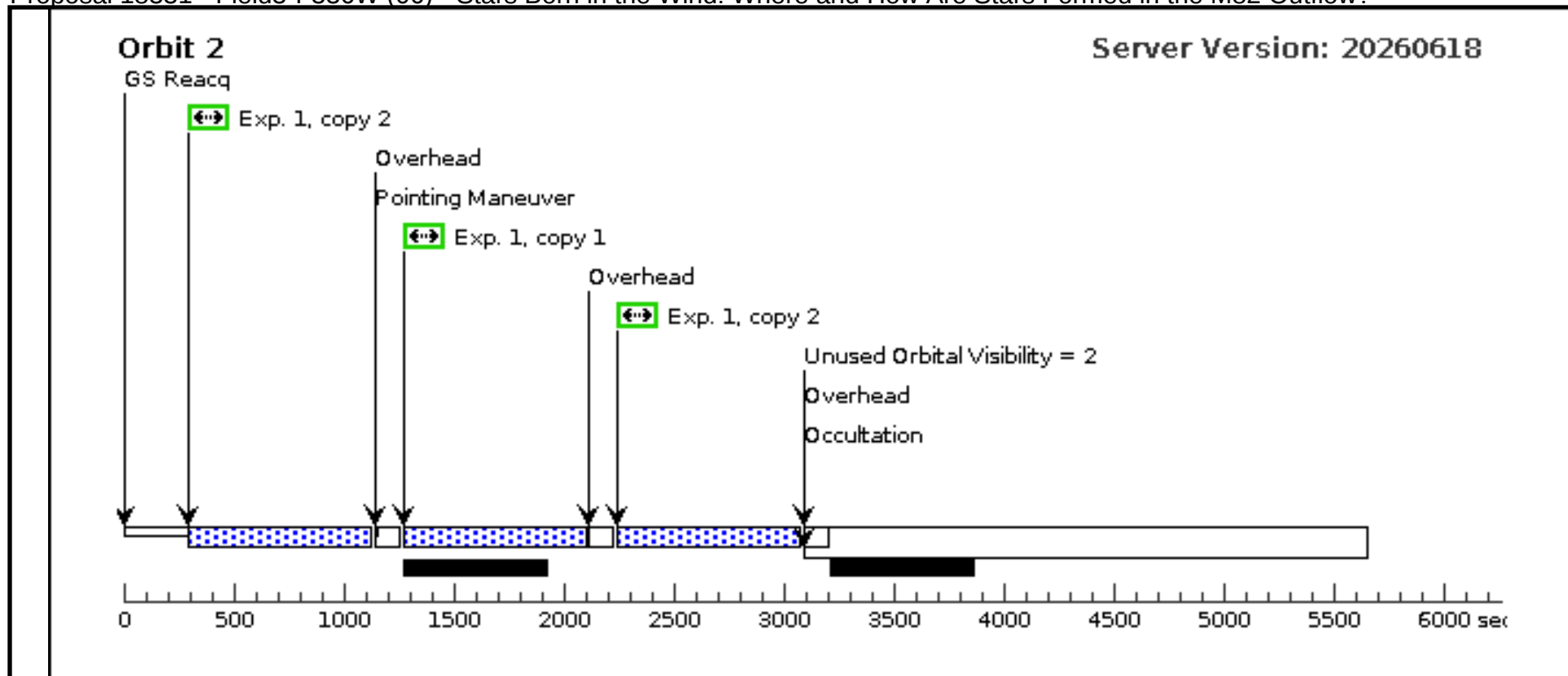




Proposal 18331 - Field3-F336W (06) - Stars Born in the Wind: Where and How Are Stars Formed in the M82 Outflow?

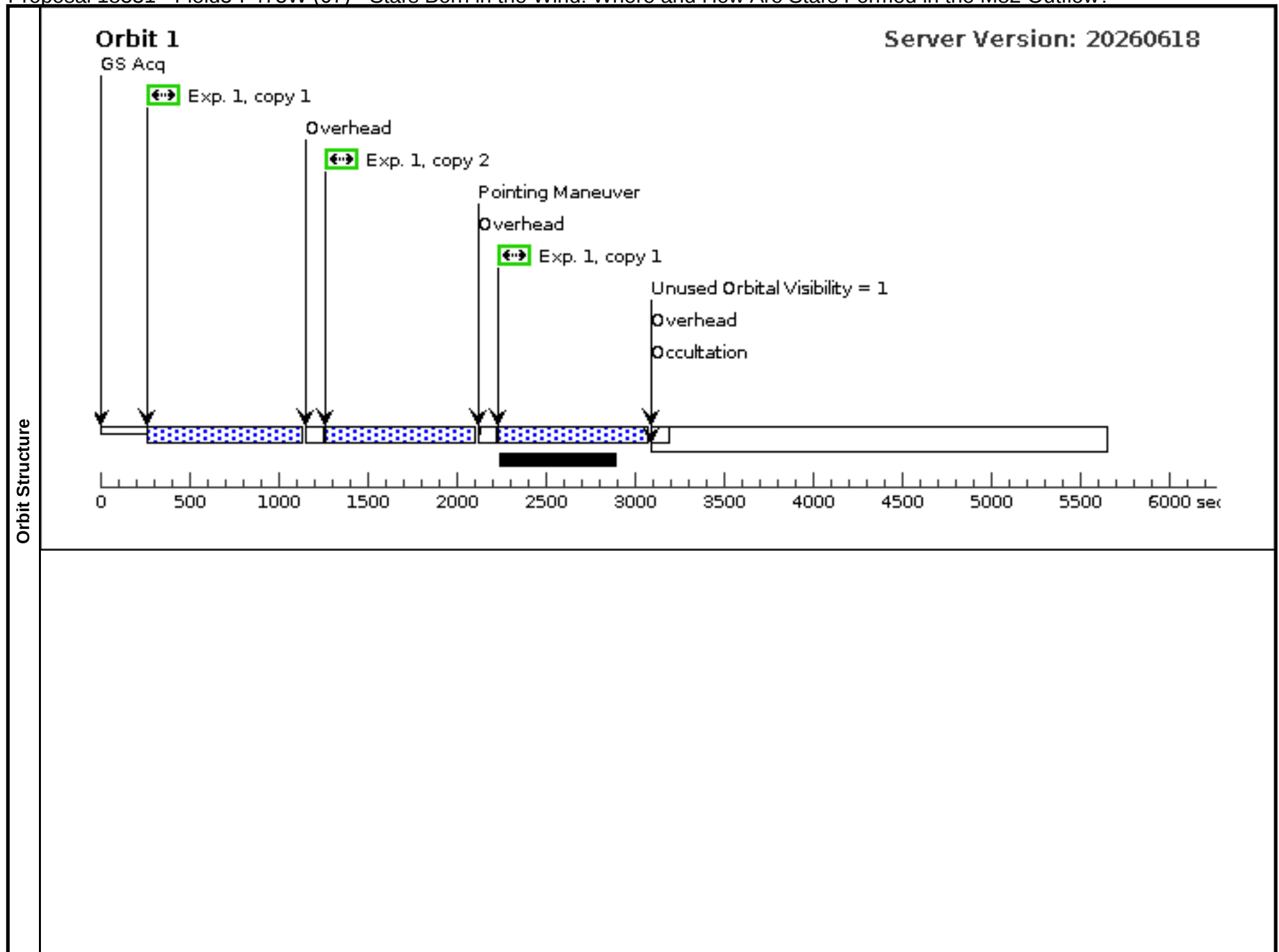
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	Scientific Instruments: WFC3/UVIS												
	Special Requirements: SAME ORIENT AS 05												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
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Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(3)	M82-FIELD3		RA: 09 55 4.5000 (148.7687500d) Dec: +69 50 52.00 (69.84778d) Equinox: J2000				V=16+/-2		Reference Frame: ICRS			
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Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(3) M82-FIELD3	WFC3/UVIS, ACCUM, UVIS		F336W	FLASH=17		Pattern 1, Exps 1-1 i n Field3-F336W (06) (1)	835 Secs X 2 (5010 Secs)			
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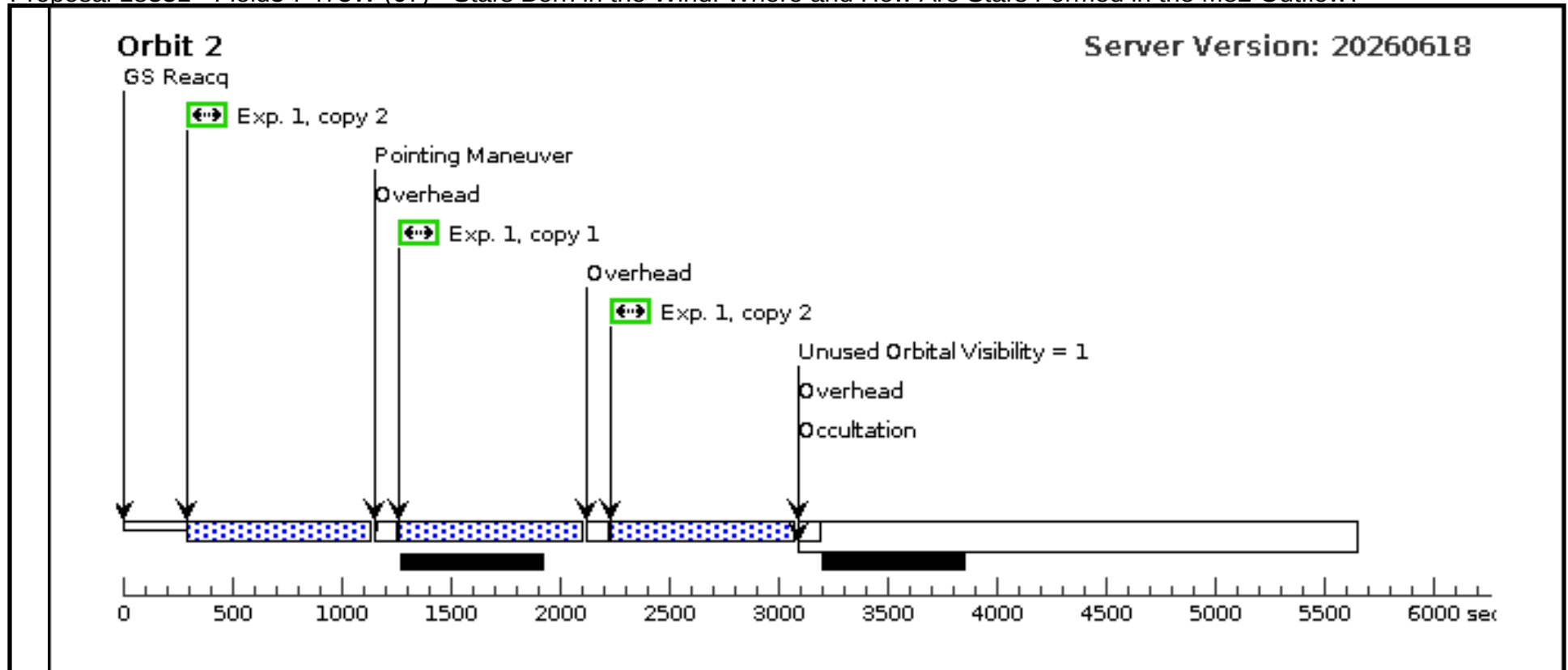




Proposal 18331 - Field3-F475W (07) - Stars Born in the Wind: Where and How Are Stars Formed in the M82 Outflow?

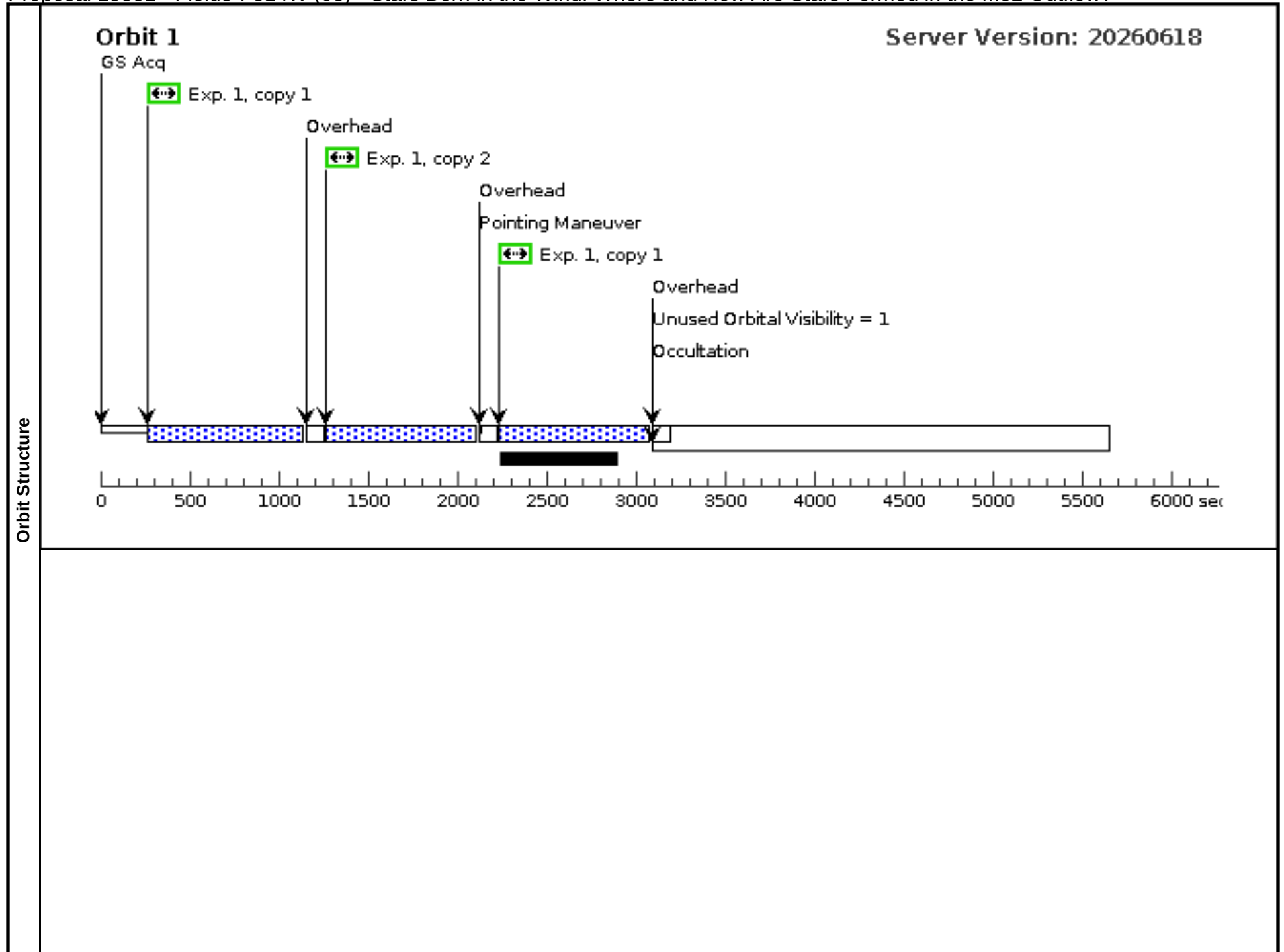
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	Scientific Instruments: WFC3/UVIS												
	Special Requirements: SAME ORIENT AS 05												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
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Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(3)	M82-FIELD3		RA: 09 55 4.5000 (148.7687500d) Dec: +69 50 52.00 (69.84778d) Equinox: J2000				V=16+/-2		Reference Frame: ICRS			
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Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(3) M82-FIELD3	WFC3/UVIS, ACCUM, UVIS		F475W			Pattern 1, Exps 1-1 in Field3-F475W (07) (1)	842 Secs X 2 (5052 Secs)			
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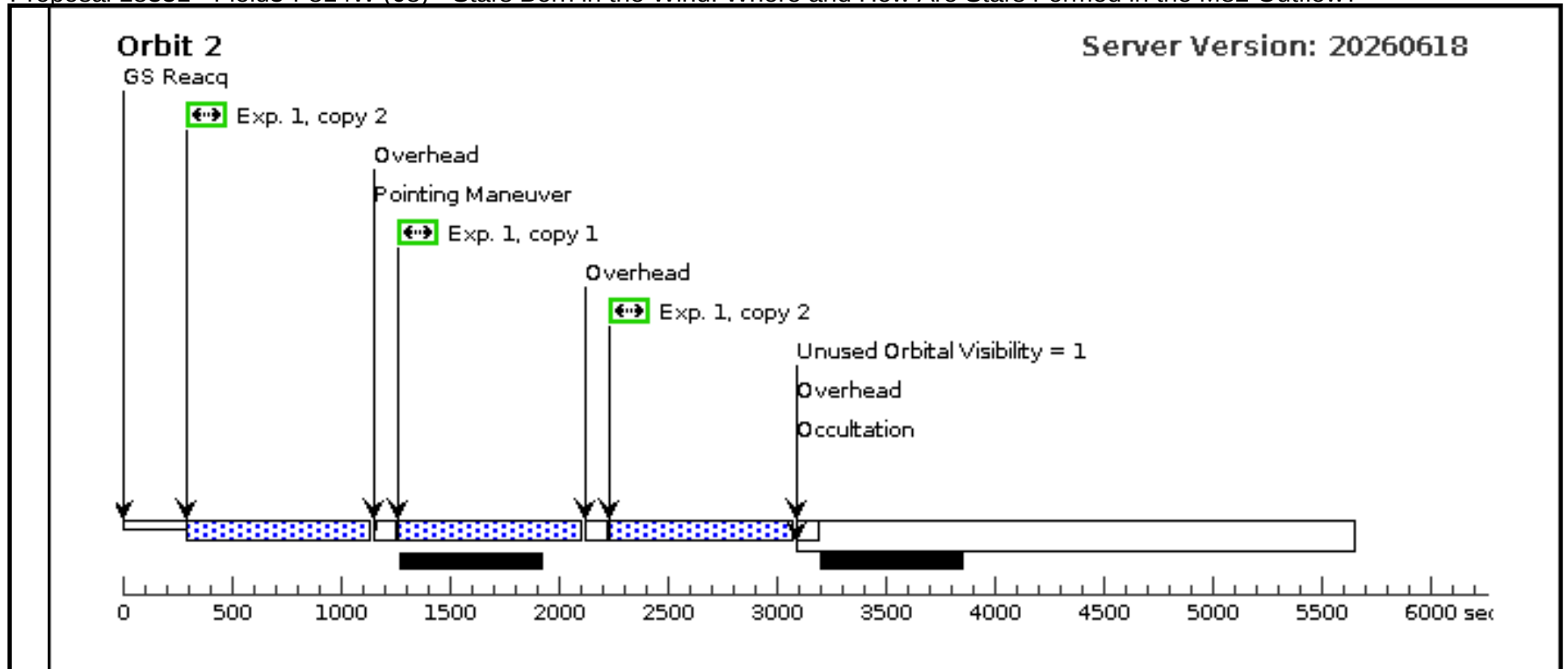




Proposal 18331 - Field3-F814W (08) - Stars Born in the Wind: Where and How Are Stars Formed in the M82 Outflow?

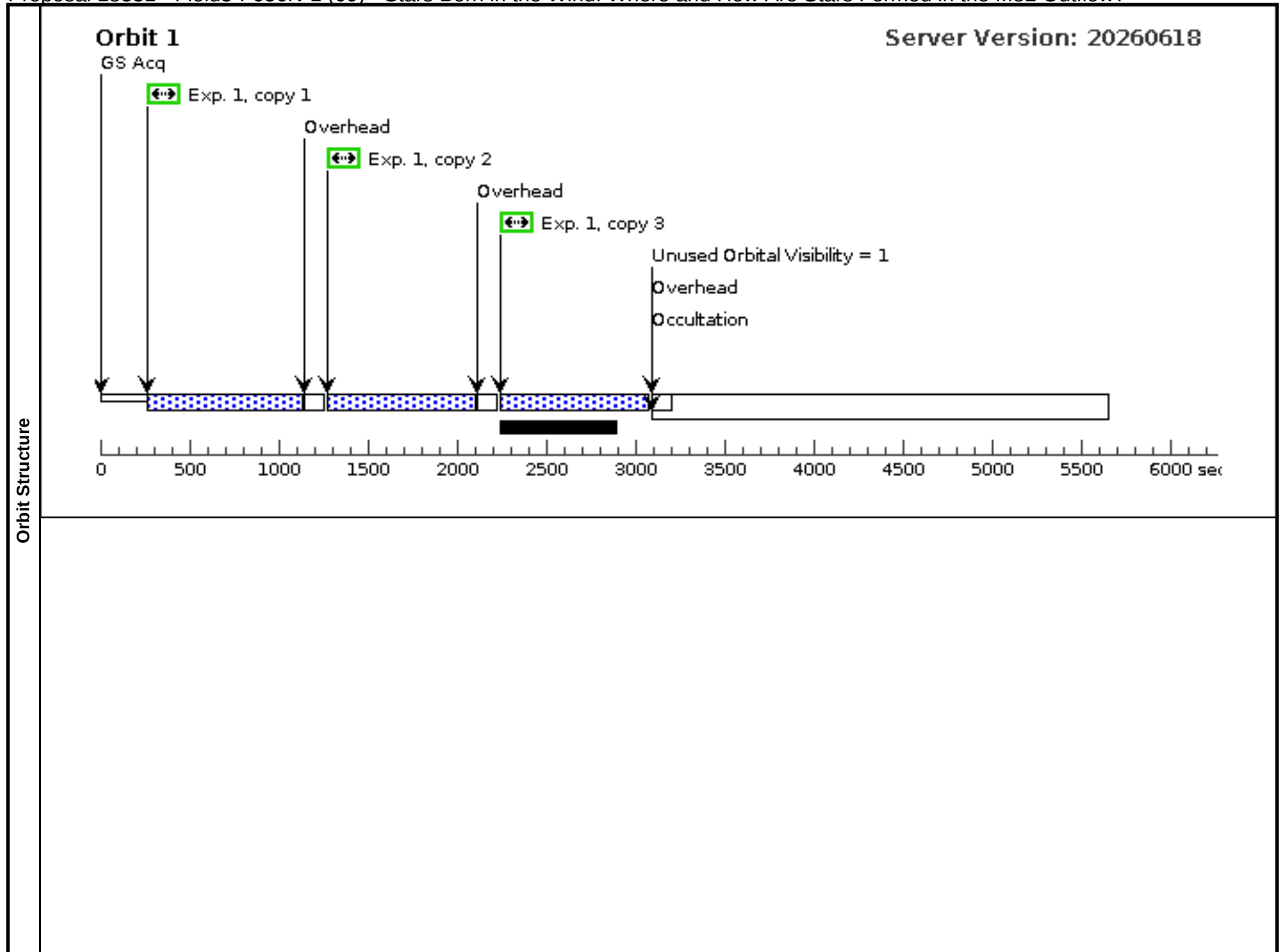
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	Special Requirements: SAME ORIENT AS 05												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
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Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
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	Comments: Category=GALAXY Description=[STARBURST, WIND]												
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(3) M82-FIELD3	WFC3/UVIS, ACCUM, UVIS		F814W			Pattern 1, Exps 1-1 in Field3-F814W (08) (1)	842 Secs X 2 (5052 Secs)			
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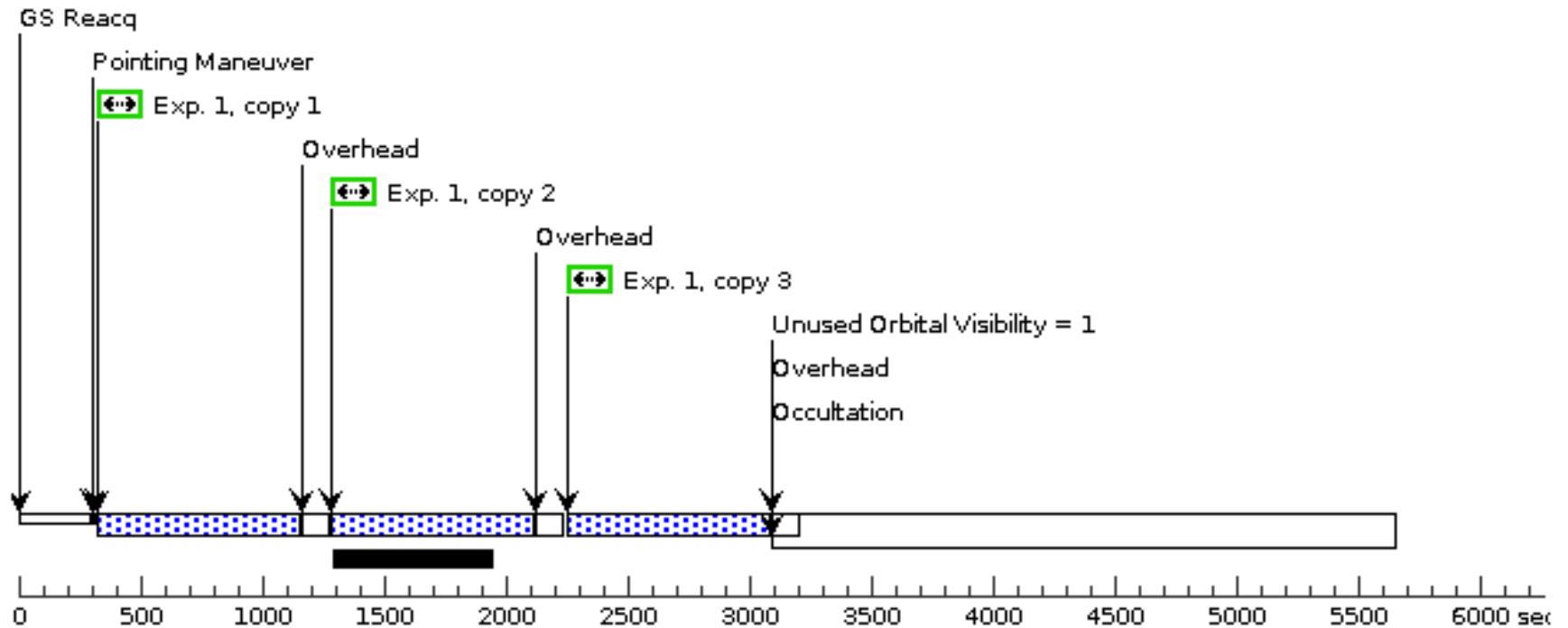
Proposal 18331 - Field3-F656N-1 (09) - Stars Born in the Wind: Where and How Are Stars Formed in the M82 Outflow?

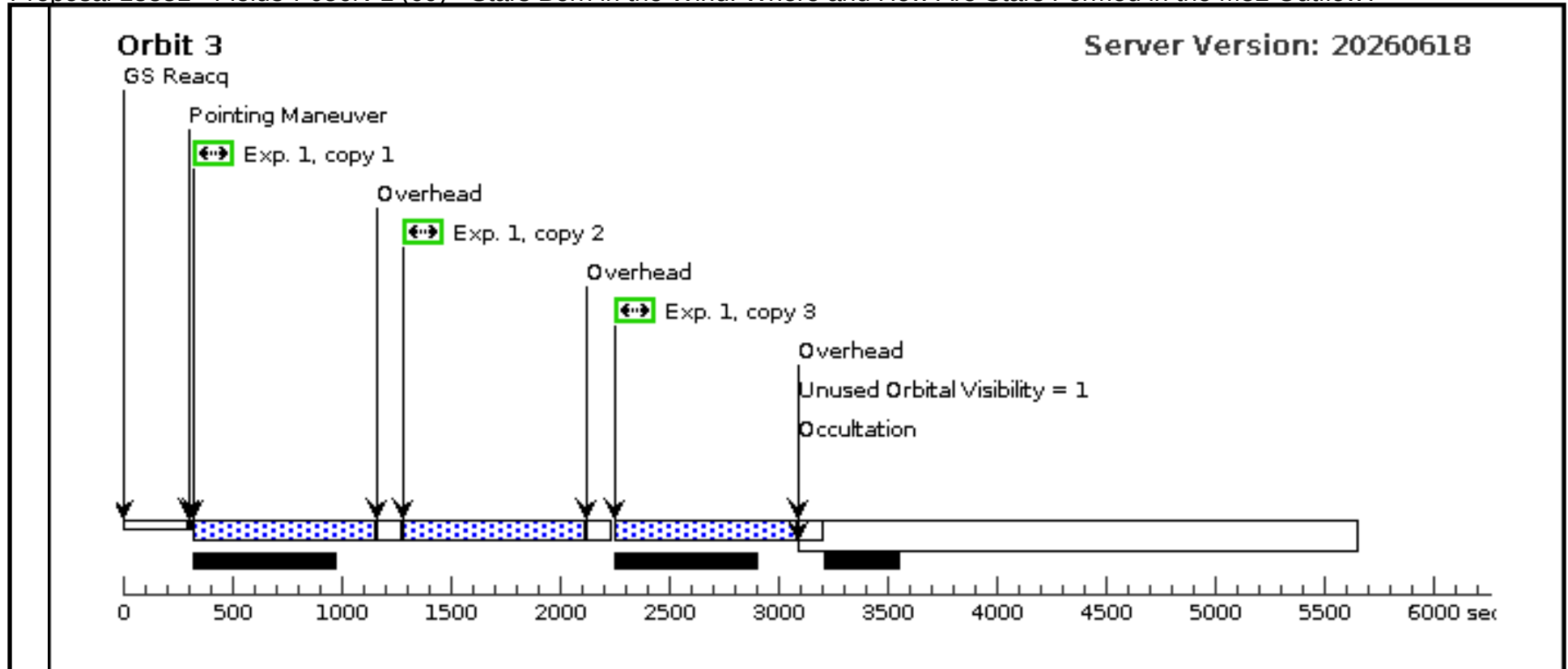
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	Special Requirements: SAME ORIENT AS 05												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
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Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(3)	M82-FIELD3		RA: 09 55 4.5000 (148.7687500d) Dec: +69 50 52.00 (69.84778d) Equinox: J2000				V=16+/-2		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[STARBURST, WIND]												
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(3) M82-FIELD3	WFC3/UVIS, ACCUM, UVIS		F656N	FLASH=15		Pattern 1, Exps 1-1 i n Field3-F656N-1 (0 9) (1)	842 Secs X 3 (7476 Secs)			
										[==>836.0 Secs (Pattern 1, Copy 1)]		[1]	
										[==>836.0 Secs (Pattern 1, Copy 2)]			
										[==>836.0 Secs (Pattern 1, Copy 3)]			
											[==>828.0 Secs (Pattern 2, Copy 1)]		[2]
											[==>828.0 Secs (Pattern 2, Copy 2)]		
											[==>828.0 Secs (Pattern 2, Copy 3)]		
											[==>828.0 Secs (Pattern 3, Copy 1)]		[3]
											[==>828.0 Secs (Pattern 3, Copy 2)]		
										[==>828.0 Secs (Pattern 3, Copy 3)]			



Orbit 2

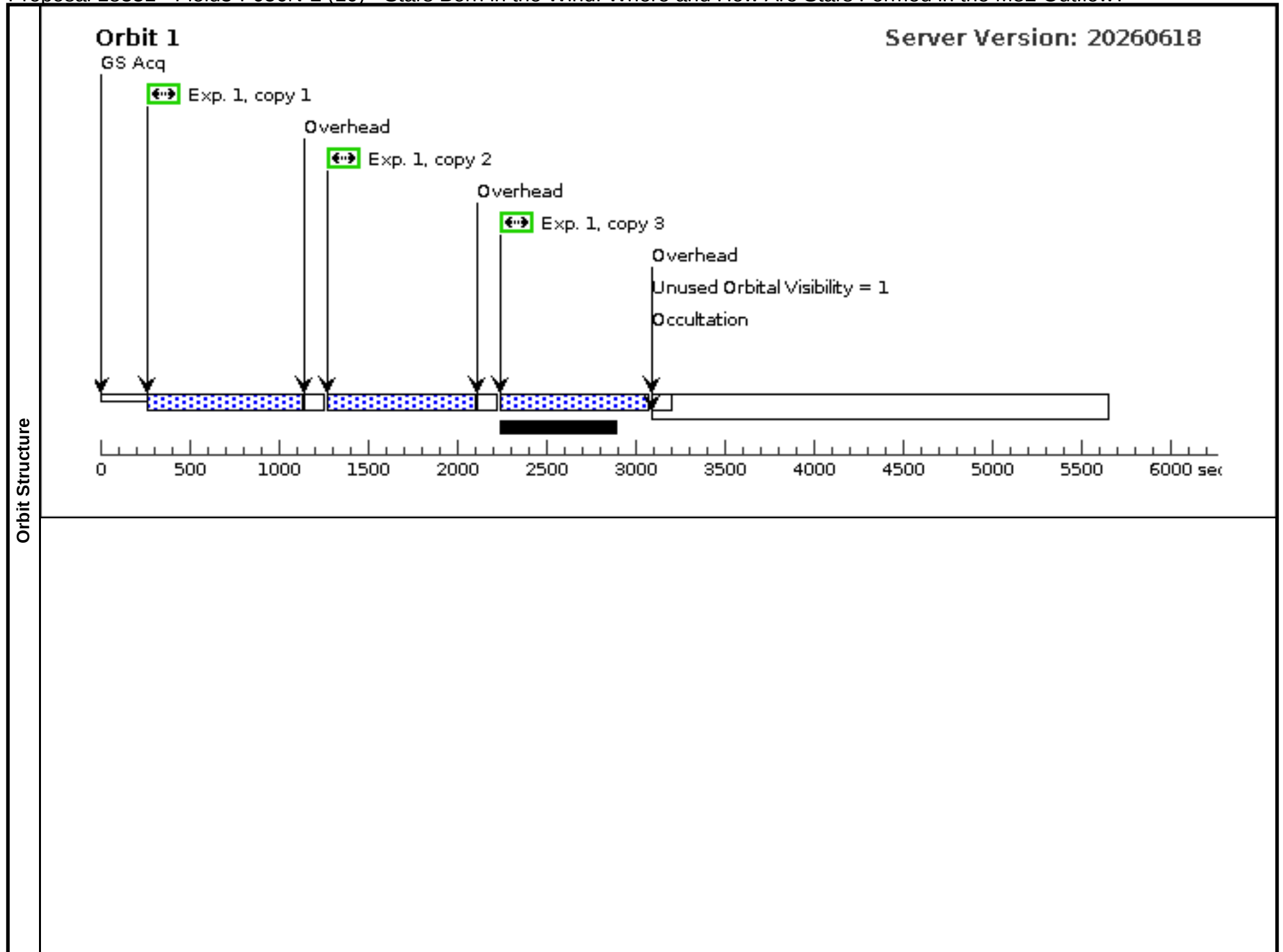
Server Version: 20260618





Proposal 18331 - Field3-F656N-2 (10) - Stars Born in the Wind: Where and How Are Stars Formed in the M82 Outflow?

Visit	Proposal 18331, Field3-F656N-2 (10)										Tue Aug 18 15:00:44 GMT 2026		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: WFC3/UVIS												
	Special Requirements: SAME ORIENT AS 05												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=2.98 Line Spacing=					Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false					(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(3)	M82-FIELD3		RA: 09 55 4.5000 (148.7687500d) Dec: +69 50 52.00 (69.84778d) Equinox: J2000				V=16+/-2		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[STARBURST, WIND]												
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(3) M82-FIELD3	WFC3/UVIS, ACCUM, UVIS		F656N	FLASH=15		Pattern 1, Exps 1-1 i n Field3-F656N-2 (1 0) (1)	832 Secs X 3 (7476 Secs)			
										[==>836.0 Secs (Pattern 1, Copy 1)]		[1]	
										[==>836.0 Secs (Pattern 1, Copy 2)]			
										[==>836.0 Secs (Pattern 1, Copy 3)]			
										[==>828.0 Secs (Pattern 2, Copy 1)]		[2]	
										[==>828.0 Secs (Pattern 2, Copy 2)]			
										[==>828.0 Secs (Pattern 2, Copy 3)]			
										[==>828.0 Secs (Pattern 3, Copy 1)]		[3]	
										[==>828.0 Secs (Pattern 3, Copy 2)]			
									[==>828.0 Secs (Pattern 3, Copy 3)]				



Orbit 2

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