



15208 - Star-Formation in Free-Floating Evaporating Gaseous Globules

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) J203441.7+405216	ACS/WFC	1	11-Sep-2017 13:00:38.0	yes
02	(2) J203311.6+404125	ACS/WFC	1	11-Sep-2017 13:00:39.0	yes
03	(3) J203515.7+404733	ACS/WFC	1	11-Sep-2017 13:00:40.0	yes
04	(4) J203410.7+410656	ACS/WFC	1	11-Sep-2017 13:00:41.0	yes
05	(5) J203448.0+411445	ACS/WFC	1	11-Sep-2017 13:00:42.0	yes
06	(6) J203642.5+394952	ACS/WFC	1	11-Sep-2017 13:00:43.0	yes
07	(7) J025941.7+601059	ACS/WFC	1	11-Sep-2017 13:00:44.0	yes
08	(8) J025949.6+602040	ACS/WFC	1	11-Sep-2017 13:00:45.0	yes
09	(9) J025918.5+600828	ACS/WFC	1	11-Sep-2017 13:00:46.0	yes
10	(10) J025027.7+600849	ACS/WFC	1	11-Sep-2017 13:00:47.0	yes
11	(11) J025157.5+600606	ACS/WFC	1	11-Sep-2017 13:00:48.0	yes
12	(12) J025838.6+604259	ACS/WFC	1	11-Sep-2017 13:00:49.0	yes

12 Total Orbits Used

ABSTRACT

We propose to study the stellar embryos in select members of a newly recognized class of Free-floating Evaporating Gaseous Globules (frEGGs) embedded in HII regions and having head-tail shapes. We discovered two of these in the Cygnus massive star-forming region (MSFR) with HST, including one of the most prominent members of this class (IRAS20324). Subsequent archival searches of Spitzer imaging of MSFRs has allowed us to build a statistical sample of frEGGs. Our molecular-line observations show the presence of dense molecular cores with total gas masses of (0.5-few) Msun in these objects, and our radio continuum images and H α images (from the IPHAS survey) reveal bright photo-ionized peripheries around these objects.

We hypothesize that frEGGs are density concentrations originating in giant molecular clouds, that, when subject to the sculpting and compression by strong winds and UV radiation from massive stars, become active star-forming cores. For the 4 frEGGs with HST or near-IR AO images showing young stars and bipolar cavities produced by their jets or collimated outflows, the symmetry axis points roughly toward the external ionizing star or star cluster - exciting new evidence for our overpressure-induced star formation hypothesis. We propose to test this hypothesis by imaging 24 frEGGs in two nearby MSFRs that represent different radiation-dominated environments. Using ACS imaging with filters F606W, F814W, & F658N (Ha+[NII]), we will search for jets and outflow-excavated cavities, investigate the stellar nurseries inside frEGGs, and determine whether the globules are generally forming multiple star systems or small clusters, as in IRAS20324.

OBSERVING DESCRIPTION

We will image 24 frEGGs in 3 filters (F658N, F606W, F814W) using the ACS WFC. We prefer ACS to WFC3 because of ACS's higher sensitivity in the wavelength region of interest ($\sim 0.6\mu\text{m}$) and larger field-of-view ($202'' \times 202''$) compared to $162'' \times 162''$ which allows us to image a larger number of objects efficiently. We will need one orbit per each of our 12 target fields; target fields have been judiciously chosen to

include multiple objects if possible. Our time estimate is based on our prior ACS imaging of I\,20324 in the F606W and 814W filters. The IPHAS imaging (in a narrow-band H α filter, and broad-band r' , i' filters) of these objects and I\,20324 shows that they have roughly similar surface brightnesses to within a factor of 2; our selected targets are brighter than, or have comparable brightnesses to I\,20324. The typical surface brightness for I\,20324's tadpole body was about 3×10^{-18} and 2.5×10^{-18} erg, sec $^{-1}$, cm $^{-2}$, A $^{-1}$, arcsec $^{-2}$ in the F606W and F814W filters, respectively.

The total visual magnitudes of these structured, extended, faint objects are not useful for estimating exposure times and have all been set to a nominal value of 18 in the cover sheet. The stars seen in the head of I\,20324 are of course much brighter than the nebulosity. We used pairs of dithered exposures, and achieved a S/N of about 10 in total exposure times of 11.5 min for each filter. We will use a similar strategy for this proposal, except that we will add one short image in each of the broad-band filters for each target field, to correct for possible saturation effects towards the stellar sources in the tadpole heads. Conservatively assuming that the fraction of flux in the F606W filter due to line emission in H α and neighbouring [NII] lines is 0.5 (this fraction is likely to be higher from inspection of the emission line spectrum of I\,20324 in Pereira & Miranda 2007), we will use the remainder of the exposure time (about 15 min) in the orbit for the F658N imaging, yielding a S/N ratio of >6 .

Proposal 15208 - Visit 01 - Star-Formation in Free-Floating Evaporating Gaseous Globules

Mon Sep 11 17:00:50 GMT 2017

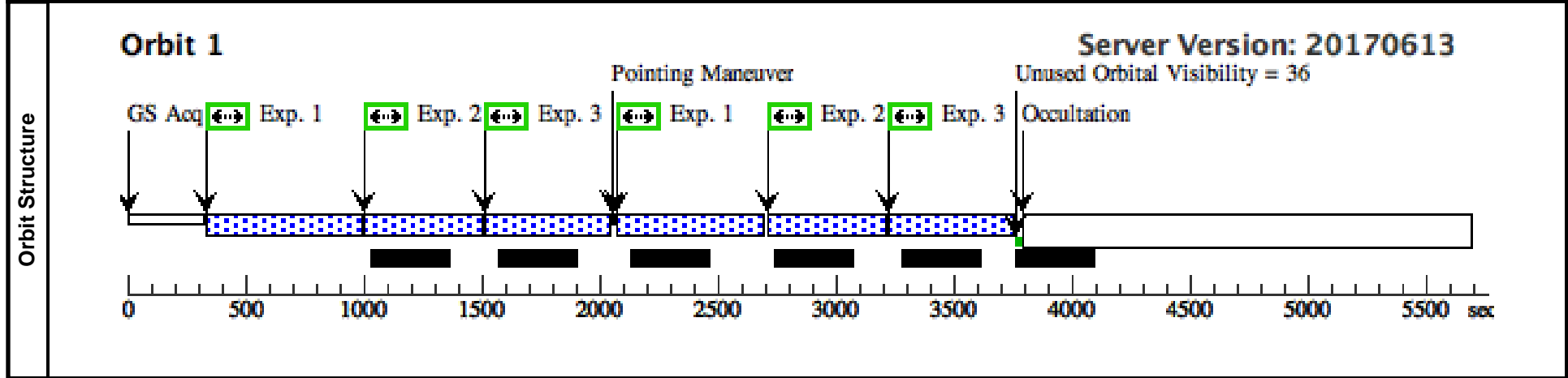
Visit	Proposal 15208, Visit 01, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: ACS/WFC		
	Special Requirements: VISIBILITY INTERVAL 63.3 M		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	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=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	J203441.7+405216	RA: 20 34 39.0680 (308.6627833d) Dec: +40 52 34.80 (40.87633d) Equinox: J2000		V=18.0+/-1.0	Reference Frame: ICRS

Comments: Extended=YES

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) J203441.7+405216	ACS/WFC, ACCUM, WFC	F658N				Pattern 1, Exps 1-3 in Visit 01 (1)	450 Secs (900 Secs) [=>(Pattern 1)] [=>(Pattern 2)]
2		(1) J203441.7+405216	ACS/WFC, ACCUM, WFC	F606W				Pattern 1, Exps 1-3 in Visit 01 (1)	348 Secs (696 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
3		(1) J203441.7+405216	ACS/WFC, ACCUM, WFC	F814W				Pattern 1, Exps 1-3 in Visit 01 (1)	348 Secs (696 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 15208 - Visit 02 - Star-Formation in Free-Floating Evaporating Gaseous Globules

Mon Sep 11 17:00:50 GMT 2017

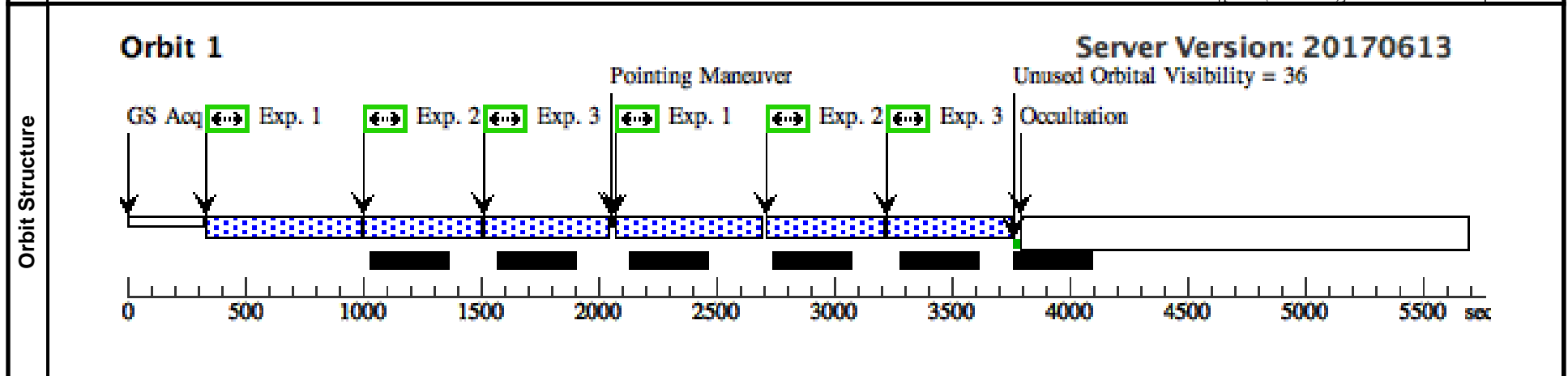
Visit	Proposal 15208, Visit 02, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: ACS/WFC		
	Special Requirements: VISIBILITY INTERVAL 63.3 M		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	J203311.6+404125	RA: 20 33 19.0700 (308.3294583d) Dec: +40 41 32.30 (40.69231d) Equinox: J2000		V=18.0+/-1.0	Reference Frame: ICRS

Comments: Extended=YES

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) J203311.6+404125	ACS/WFC, ACCUM, WFC	F658N			Pattern 1, Exps 1-3 in Visit 02 (1)	450 Secs (900 Secs)	
									[=>(Pattern 1)] [=>(Pattern 2)]	[1]
	2		(2) J203311.6+404125	ACS/WFC, ACCUM, WFC	F606W			Pattern 1, Exps 1-3 in Visit 02 (1)	348 Secs (696 Secs)	
								[=>(Pattern 1)] [=>(Pattern 2)]	[1]	
3		(2) J203311.6+404125	ACS/WFC, ACCUM, WFC	F814W			Pattern 1, Exps 1-3 in Visit 02 (1)	348 Secs (696 Secs)		
								[=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 15208 - Visit 03 - Star-Formation in Free-Floating Evaporating Gaseous Globules

Mon Sep 11 17:00:50 GMT 2017

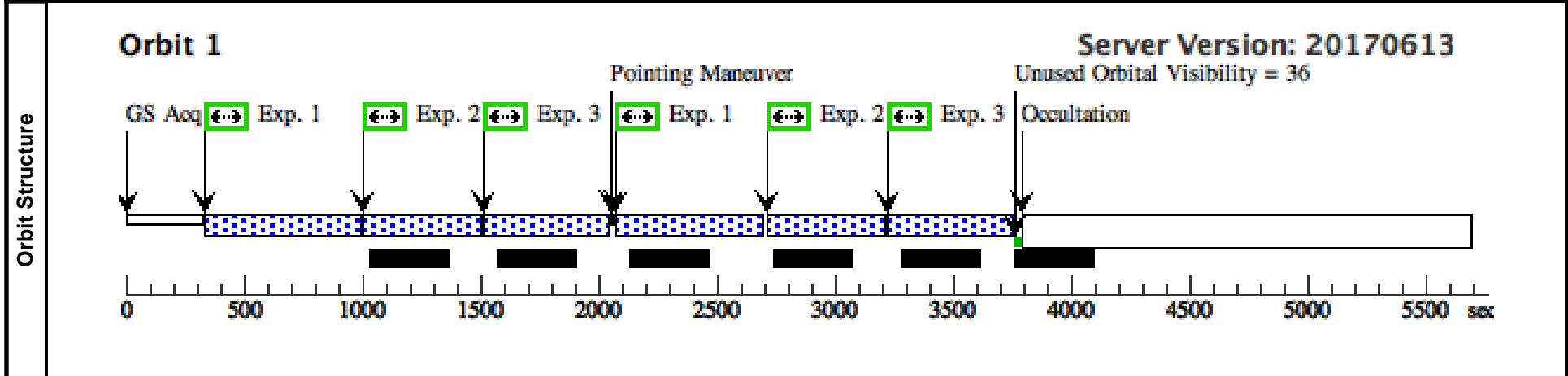
Visit	Proposal 15208, Visit 03, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: ACS/WFC		
	Special Requirements: VISIBILITY INTERVAL 63.3 M		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	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=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	J203515.7+404733	RA: 20 35 15.2800 (308.8136667d) Dec: +40 47 53.50 (40.79819d) Equinox: J2000		V=18.0+/-1.0	Reference Frame: ICRS

Comments: Extended=YES

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) J203515.7+404733	ACS/WFC, ACCUM, WFC	F658N			Pattern 1, Exps 1-3 in Visit 03 (1)	450 Secs (900 Secs)	
									[=>(Pattern 1)] [=>(Pattern 2)]	[1]
	2		(3) J203515.7+404733	ACS/WFC, ACCUM, WFC	F606W			Pattern 1, Exps 1-3 in Visit 03 (1)	348 Secs (696 Secs)	
								[=>(Pattern 1)] [=>(Pattern 2)]	[1]	
3		(3) J203515.7+404733	ACS/WFC, ACCUM, WFC	F814W			Pattern 1, Exps 1-3 in Visit 03 (1)	348 Secs (696 Secs)		
								[=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 15208 - Visit 04 - Star-Formation in Free-Floating Evaporating Gaseous Globules

Mon Sep 11 17:00:50 GMT 2017

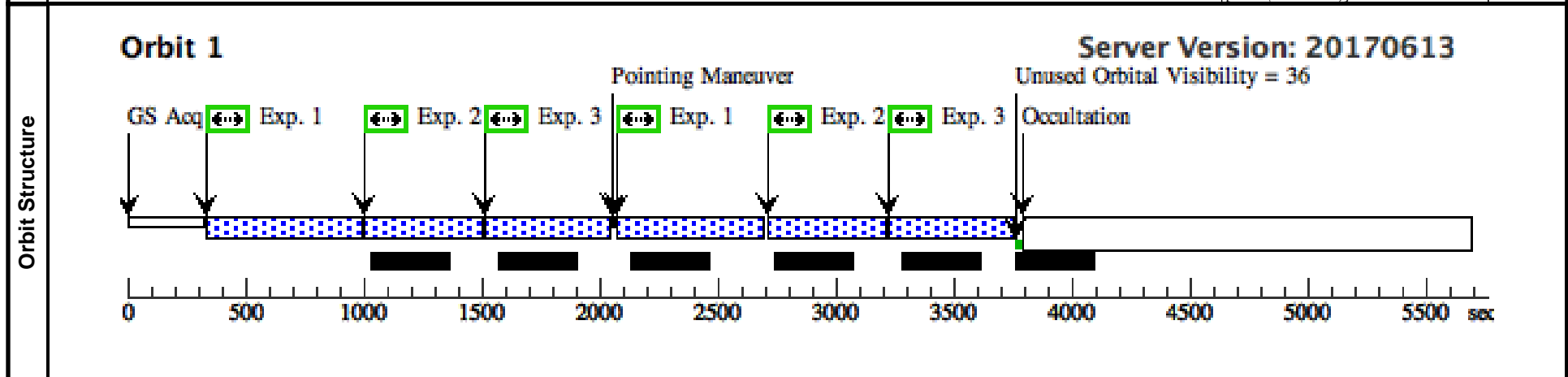
Visit	Proposal 15208, Visit 04, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: ACS/WFC		
	Special Requirements: VISIBILITY INTERVAL 63.3 M		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	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=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	J203410.7+410656	RA: 20 34 14.2100 (308.5592083d) Dec: +41 07 44.00 (41.12889d) Equinox: J2000		V=18.0+/-1.0	Reference Frame: ICRS

Comments: Extended=YES

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(4) J203410.7+410656	ACS/WFC, ACCUM, WFC	F658N				Pattern 1, Exps 1-3 in Visit 04 (1)	450 Secs (900 Secs) [=>(Pattern 1)] [=>(Pattern 2)]
2		(4) J203410.7+410656	ACS/WFC, ACCUM, WFC	F606W				Pattern 1, Exps 1-3 in Visit 04 (1)	348 Secs (696 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
3		(4) J203410.7+410656	ACS/WFC, ACCUM, WFC	F814W				Pattern 1, Exps 1-3 in Visit 04 (1)	348 Secs (696 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 15208 - Visit 05 - Star-Formation in Free-Floating Evaporating Gaseous Globules

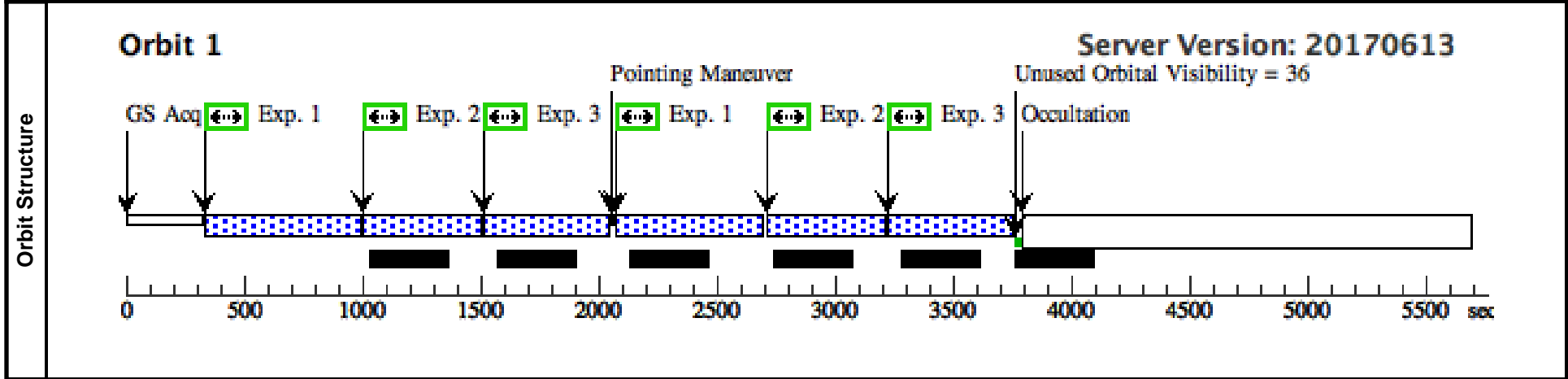
Mon Sep 11 17:00:51 GMT 2017

Visit	Proposal 15208, Visit 05, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: ACS/WFC		
	Special Requirements: VISIBILITY INTERVAL 63.3 M		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	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=false	(1-3)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	J203448.0+411445	RA: 20 34 48.0000 (308.7000000d) Dec: +41 14 45.00 (41.24583d) Equinox: J2000		V=18.0+/-1.0	Reference Frame: ICRS
	<i>Comments: Extended=YES</i>					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(5) J203448.0+411445	ACS/WFC, ACCUM, WFC	F658N			Pattern 1, Exps 1-3 in Visit 05 (1)	450 Secs (900 Secs)	
									[=>(Pattern 1)] [=>(Pattern 2)]	[1]
	2		(5) J203448.0+411445	ACS/WFC, ACCUM, WFC	F606W			Pattern 1, Exps 1-3 in Visit 05 (1)	348 Secs (696 Secs)	
									[=>(Pattern 1)] [=>(Pattern 2)]	[1]
	3		(5) J203448.0+411445	ACS/WFC, ACCUM, WFC	F814W			Pattern 1, Exps 1-3 in Visit 05 (1)	348 Secs (696 Secs)	
									[=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 15208 - Visit 06 - Star-Formation in Free-Floating Evaporating Gaseous Globules

Mon Sep 11 17:00:51 GMT 2017

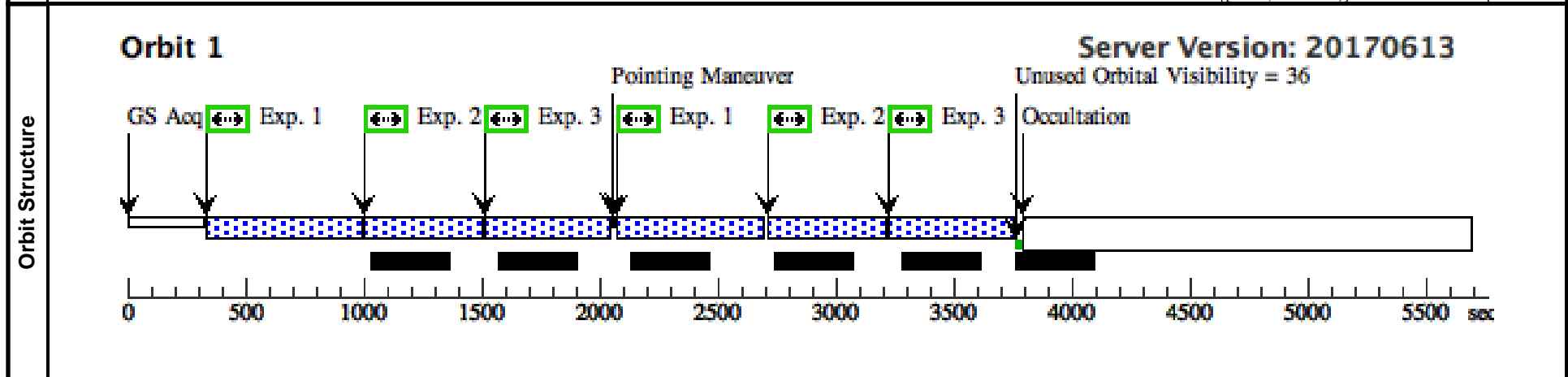
Visit	Proposal 15208, Visit 06, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: ACS/WFC		
	Special Requirements: VISIBILITY INTERVAL 63.3 M		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	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=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(6)	J203642.5+394952	RA: 20 35 46.0400 (308.9418333d) Dec: +39 50 11.30 (39.83647d) Equinox: J2000		V=18.0+/-1.0	Reference Frame: ICRS

Comments: Extended=YES

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(6) J203642.5+394952	ACS/WFC, ACCUM, WFC	F658N			Pattern 1, Exps 1-3 in Visit 06 (1)	450 Secs (900 Secs)	
									[=>(Pattern 1)] [=>(Pattern 2)]	[1]
	2		(6) J203642.5+394952	ACS/WFC, ACCUM, WFC	F606W			Pattern 1, Exps 1-3 in Visit 06 (1)	348 Secs (696 Secs)	
								[=>(Pattern 1)] [=>(Pattern 2)]	[1]	
3		(6) J203642.5+394952	ACS/WFC, ACCUM, WFC	F814W			Pattern 1, Exps 1-3 in Visit 06 (1)	348 Secs (696 Secs)		
								[=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 15208 - Visit 07 - Star-Formation in Free-Floating Evaporating Gaseous Globules

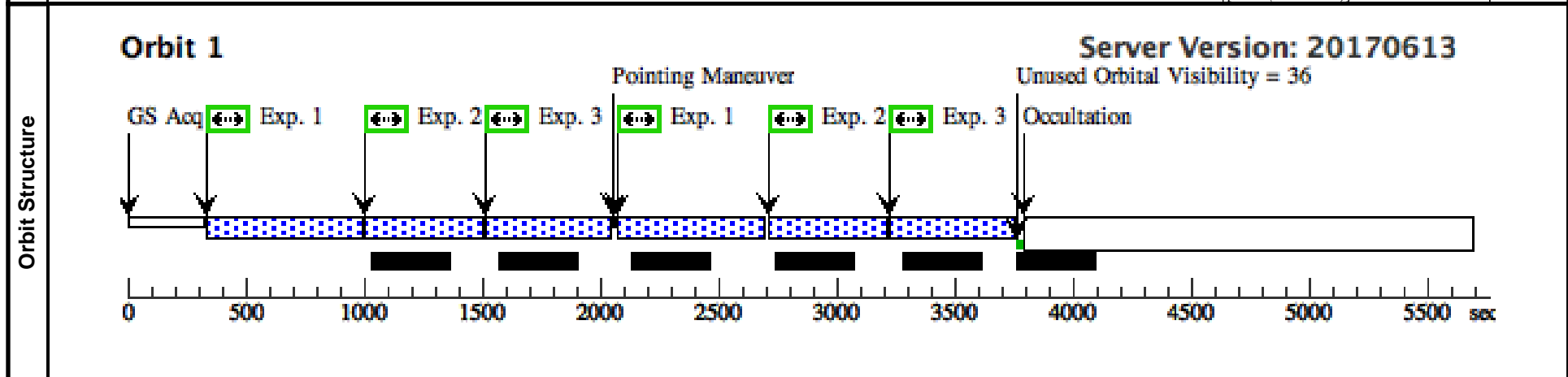
Mon Sep 11 17:00:51 GMT 2017

Visit	Proposal 15208, Visit 07, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: ACS/WFC		
	Special Requirements: VISIBILITY INTERVAL 63.3 M		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	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=false	(1-3)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(7)	J025941.7+601059	RA: 02 59 40.0700 (44.9169583d) Dec: +60 10 56.30 (60.18231d) Equinox: J2000		V=18.0+/-1.0	Reference Frame: ICRS
	<i>Comments: Extended=YES</i>					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(7) J025941.7+601059	ACS/WFC, ACCUM, WFC	F658N			Pattern 1, Exps 1-3 in Visit 07 (1)	450 Secs (900 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
	2		(7) J025941.7+601059	ACS/WFC, ACCUM, WFC	F606W			Pattern 1, Exps 1-3 in Visit 07 (1)	348 Secs (696 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
	3		(7) J025941.7+601059	ACS/WFC, ACCUM, WFC	F814W			Pattern 1, Exps 1-3 in Visit 07 (1)	348 Secs (696 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 15208 - Visit 08 - Star-Formation in Free-Floating Evaporating Gaseous Globules

Mon Sep 11 17:00:51 GMT 2017

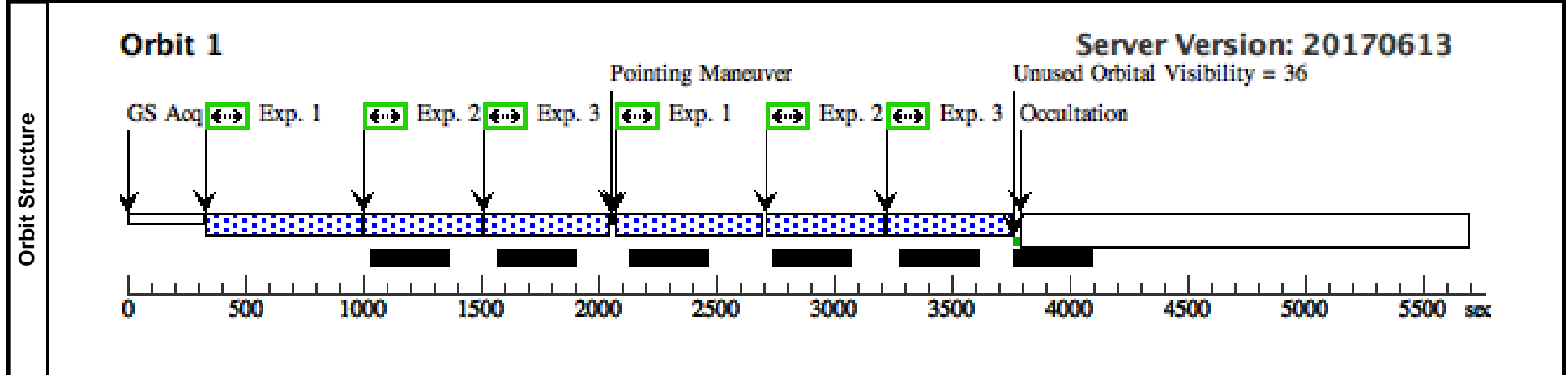
Visit	Proposal 15208, Visit 08, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: ACS/WFC		
	Special Requirements: VISIBILITY INTERVAL 63.3 M		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	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=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(8)	J025949.6+602040	RA: 02 59 48.1760 (44.9507333d) Dec: +60 21 0.20 (60.35006d) Equinox: J2000		V=18.0+/-1.0	Reference Frame: ICRS

Comments: Extended=YES

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(8) J025949.6+602040	ACS/WFC, ACCUM, WFC	F658N				Pattern 1, Exps 1-3 in Visit 08 (1)	450 Secs (900 Secs) [=>(Pattern 1)] [=>(Pattern 2)]
2		(8) J025949.6+602040	ACS/WFC, ACCUM, WFC	F606W				Pattern 1, Exps 1-3 in Visit 08 (1)	348 Secs (696 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
3		(8) J025949.6+602040	ACS/WFC, ACCUM, WFC	F814W				Pattern 1, Exps 1-3 in Visit 08 (1)	348 Secs (696 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 15208 - Visit 09 - Star-Formation in Free-Floating Evaporating Gaseous Globules

Mon Sep 11 17:00:51 GMT 2017

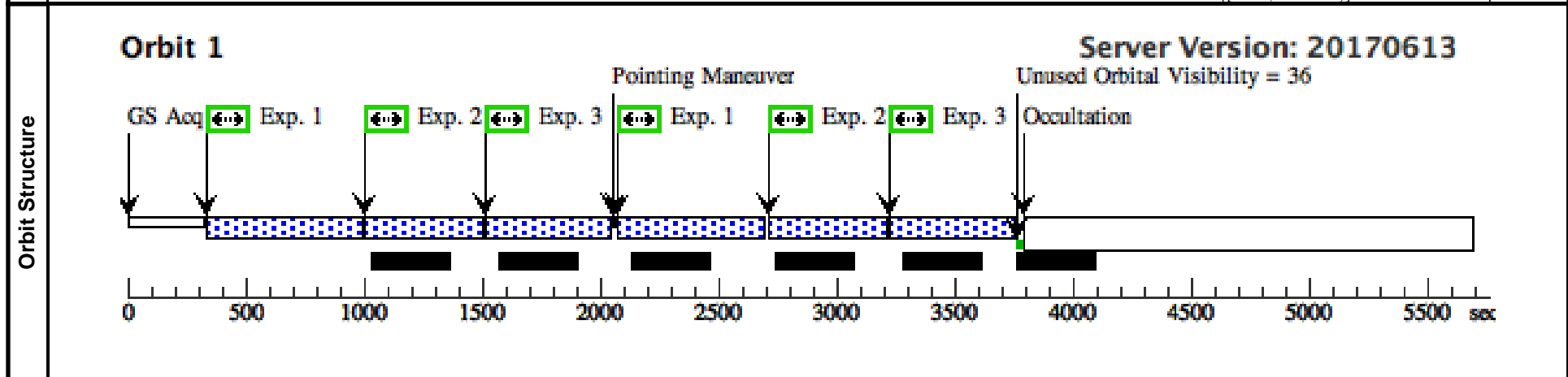
Visit	Proposal 15208, Visit 09, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: ACS/WFC		
	Special Requirements: VISIBILITY INTERVAL 63.3 M		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	J025918.5+600828	RA: 02 59 15.0750 (44.8128125d) Dec: +60 08 25.52 (60.14042d) Equinox: J2000		V=18.0+/-1.0	Reference Frame: ICRS

Comments: Extended=YES

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(9) J025918.5+600828	ACS/WFC, ACCUM, WFC	F658N			Pattern 1, Exps 1-3 in Visit 09 (1)	450 Secs (900 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2		(9) J025918.5+600828	ACS/WFC, ACCUM, WFC	F606W			Pattern 1, Exps 1-3 in Visit 09 (1)	348 Secs (696 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
3		(9) J025918.5+600828	ACS/WFC, ACCUM, WFC	F814W			Pattern 1, Exps 1-3 in Visit 09 (1)	348 Secs (696 Secs)		
								[==>(Pattern 1)] [==>(Pattern 2)]	[1]	



Proposal 15208 - Visit 10 - Star-Formation in Free-Floating Evaporating Gaseous Globules

Mon Sep 11 17:00:51 GMT 2017

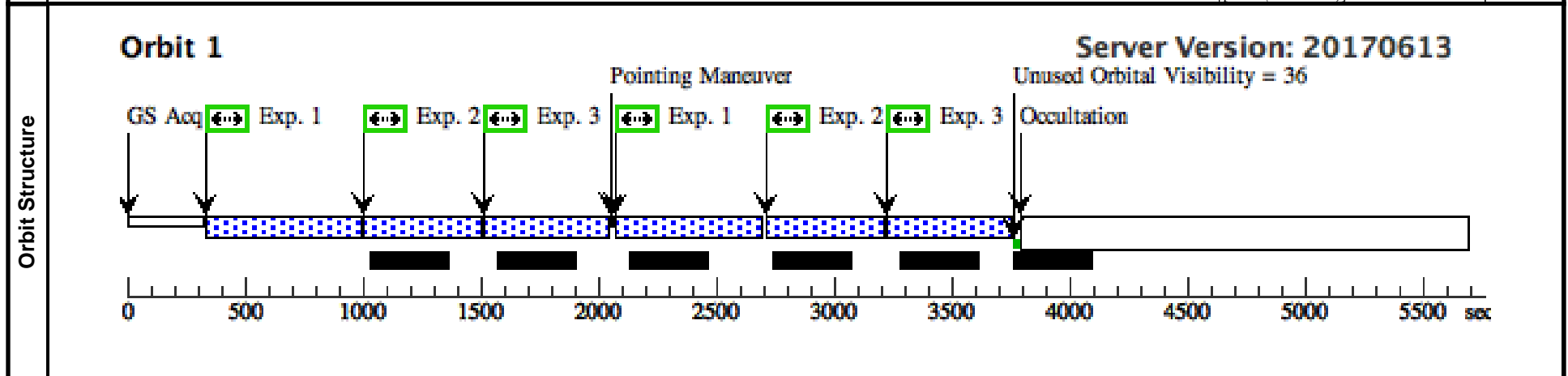
Visit	Proposal 15208, Visit 10, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: ACS/WFC		
	Special Requirements: VISIBILITY INTERVAL 63.3 M		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	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=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(10)	J025027.7+600849	RA: 02 50 27.6800 (42.6153333d) Dec: +60 08 49.10 (60.14697d) Equinox: J2000		V=18.0+/-1.0	Reference Frame: ICRS

Comments: Extended=YES

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(10) J025027.7+600849	ACS/WFC, ACCUM, WFC	F658N				Pattern 1, Exps 1-3 in Visit 10 (1)	450 Secs (900 Secs) [=>(Pattern 1)] [=>(Pattern 2)]
2		(10) J025027.7+600849	ACS/WFC, ACCUM, WFC	F606W				Pattern 1, Exps 1-3 in Visit 10 (1)	348 Secs (696 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
3		(10) J025027.7+600849	ACS/WFC, ACCUM, WFC	F814W				Pattern 1, Exps 1-3 in Visit 10 (1)	348 Secs (696 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 15208 - Visit 11 - Star-Formation in Free-Floating Evaporating Gaseous Globules

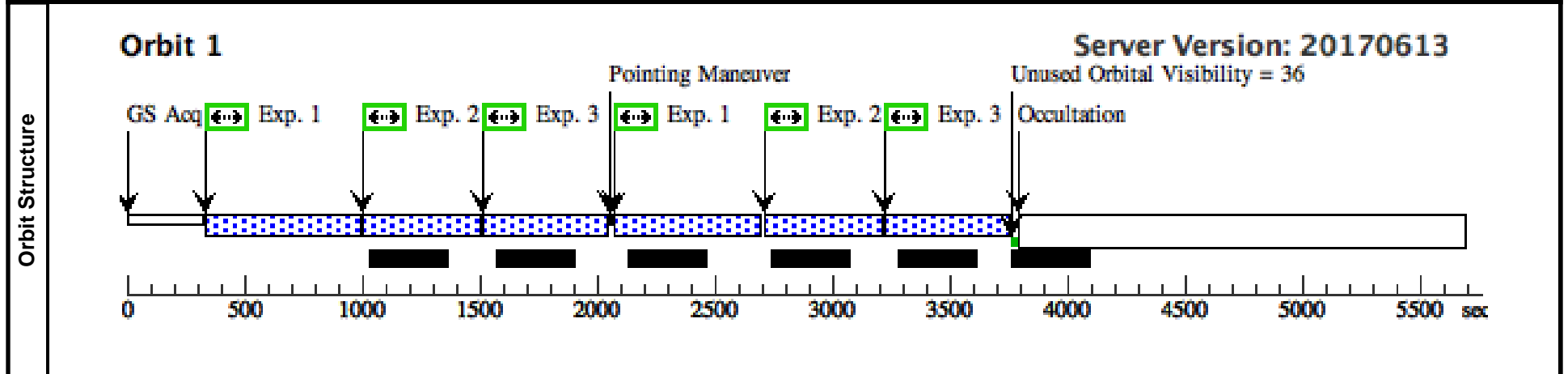
Mon Sep 11 17:00:51 GMT 2017

Visit	Proposal 15208, Visit 11, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: ACS/WFC		
	Special Requirements: VISIBILITY INTERVAL 63.3 M		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	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=false	(1-3)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(11)	J025157.5+600606	RA: 02 51 57.5400 (42.9897500d) Dec: +60 06 5.96 (60.10166d) Equinox: J2000		V=18.0+/-1.0	Reference Frame: ICRS
	<i>Comments: Extended=YES</i>					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(11) J025157.5+600606	ACS/WFC, ACCUM, WFC	F658N			Pattern 1, Exps 1-3 in Visit 11 (1)	450 Secs (900 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
	2		(11) J025157.5+600606	ACS/WFC, ACCUM, WFC	F606W			Pattern 1, Exps 1-3 in Visit 11 (1)	348 Secs (696 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
	3		(11) J025157.5+600606	ACS/WFC, ACCUM, WFC	F814W			Pattern 1, Exps 1-3 in Visit 11 (1)	348 Secs (696 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 15208 - Visit 12 - Star-Formation in Free-Floating Evaporating Gaseous Globules

Mon Sep 11 17:00:51 GMT 2017

Visit	Proposal 15208, Visit 12, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: ACS/WFC		
	Special Requirements: VISIBILITY INTERVAL 63.3 M		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	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=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(12)	J025838.6+604259	RA: 02 58 38.6310 (44.6609625d) Dec: +60 42 59.51 (60.71653d) Equinox: J2000		V=18.0+/-1.0	Reference Frame: ICRS

Comments: Extended=YES

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(12) J025838.6+604259	ACS/WFC, ACCUM, WFC	F658N			Pattern 1, Exps 1-3 in Visit 12 (1)	450 Secs (900 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2		(12) J025838.6+604259	ACS/WFC, ACCUM, WFC	F606W			Pattern 1, Exps 1-3 in Visit 12 (1)	348 Secs (696 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
3		(12) J025838.6+604259	ACS/WFC, ACCUM, WFC	F814W			Pattern 1, Exps 1-3 in Visit 12 (1)	348 Secs (696 Secs)		
								[==>(Pattern 1)] [==>(Pattern 2)]	[1]	

