



17457 - Zooming in on HII regions: a comprehensive view of dust attenuation and embedded star formation in local galaxies

Cycle: 31, 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) IC-1954	WFC3/UVIS	1	21-Aug-2024 08:00:19.0	yes
02	(17) NGC-0685	WFC3/UVIS	1	21-Aug-2024 08:00:20.0	yes
03	(2) NGC-1097	WFC3/UVIS	1	21-Aug-2024 08:00:20.0	yes
04	(3) NGC-1097-N	WFC3/UVIS	1	21-Aug-2024 08:00:20.0	yes
05	(5) NGC-1559	WFC3/UVIS	1	21-Aug-2024 08:00:21.0	yes
06	(6) NGC-1792	WFC3/UVIS	1	21-Aug-2024 08:00:21.0	yes
07	(7) NGC-2775	WFC3/UVIS	1	21-Aug-2024 08:00:22.0	yes
10	(11) NGC-4298	WFC3/UVIS	1	21-Aug-2024 08:00:22.0	yes
11	(14) NGC-4548	WFC3/UVIS	1	21-Aug-2024 08:00:23.0	yes
12	(15) NGC-4569	WFC3/UVIS	1	21-Aug-2024 08:00:23.0	yes
13	(16) NGC-4571	WFC3/UVIS	1	21-Aug-2024 08:00:24.0	yes
15	(20) NGC-4826	WFC3/UVIS	1	21-Aug-2024 08:00:24.0	yes
16	(21) NGC-5248	WFC3/UVIS	1	21-Aug-2024 08:00:24.0	yes
17	(22) NGC-3368	WFC3/UVIS	1	21-Aug-2024 08:00:25.0	yes
08	(8) NGC-2903-N	WFC3/UVIS	1	21-Aug-2024 08:00:25.0	yes
09	(9) NGC-2903-S	WFC3/UVIS	1	21-Aug-2024 08:00:26.0	yes
18	(10) NGC-3621-MOS	WFC3/UVIS	1	21-Aug-2024 08:00:26.0	yes
19	(10) NGC-3621-MOS	WFC3/UVIS	1	21-Aug-2024 08:00:26.0	yes
20	(23) NGC4535	WFC3/UVIS	1	21-Aug-2024 08:00:27.0	yes

19 Total Orbits Used

ABSTRACT

HII regions and the emission lines originating from ionised gas are key tracers of star-formation rate in galaxies across Cosmic Time, but we currently lack a comprehensive understanding of how dust attenuation on small (5-10 pc) scales affects our inferences. We propose to build a legacy dataset for ~50000 HII regions in a representative sample of local main sequence galaxies to provide a detailed view of embedded star formation, dust attenuation, HII region morphology, and stellar feedback processes. We will achieve this by using the narrow-band filter on HST to obtain maps of the Hydrogen alpha (Ha) line emission and combining it with upcoming JWST imaging of the same area with the Paschen alpha filter on NIRCам. This dataset will be complemented by a rich multi-wavelength archive, including a new JWST imaging, existing broadband imaging from HST, extensive mapping with ground-based integral field spectroscopy (MUSE/VLT), and coverage with ALMA. We will leverage this combined dataset to 1) anchor MIR star-formation rate tracers on 'gold standard' hydrogen recombination lines, 2) jointly analyse HII regions and their ionising star clusters to determine the dominant sources of stellar feedback as a function of environment, and 3) test the universality of the dust attenuation curve and infer the relative geometry of gas, stars and dust on ~10 pc scales.

OBSERVING DESCRIPTION

This program consists in 18 targets, each observed with one pointing of WFC3/UVIS Imaging in F657N, with the exception of NGC-3621-MOS which is observed with a mosaic of two pointings in the same filter. The same observing setup is used for all the pointings. It is important to closely match the request position angles in order to leverage the overlap with existing broad-band filters.

Proposal 17457 - IC-1954-Ha (01) - Zooming in on HII regions: a comprehensive view of dust attenuation and embedded star formatio...

Visit	Proposal 17457, IC-1954-Ha (01), completed			Wed Aug 21 12:00:28 GMT 2024
	Diagnostic Status: No Diagnostics			
	Scientific Instruments: WFC3/UVIS			
	Special Requirements: ORIENT 240D TO 244 D			

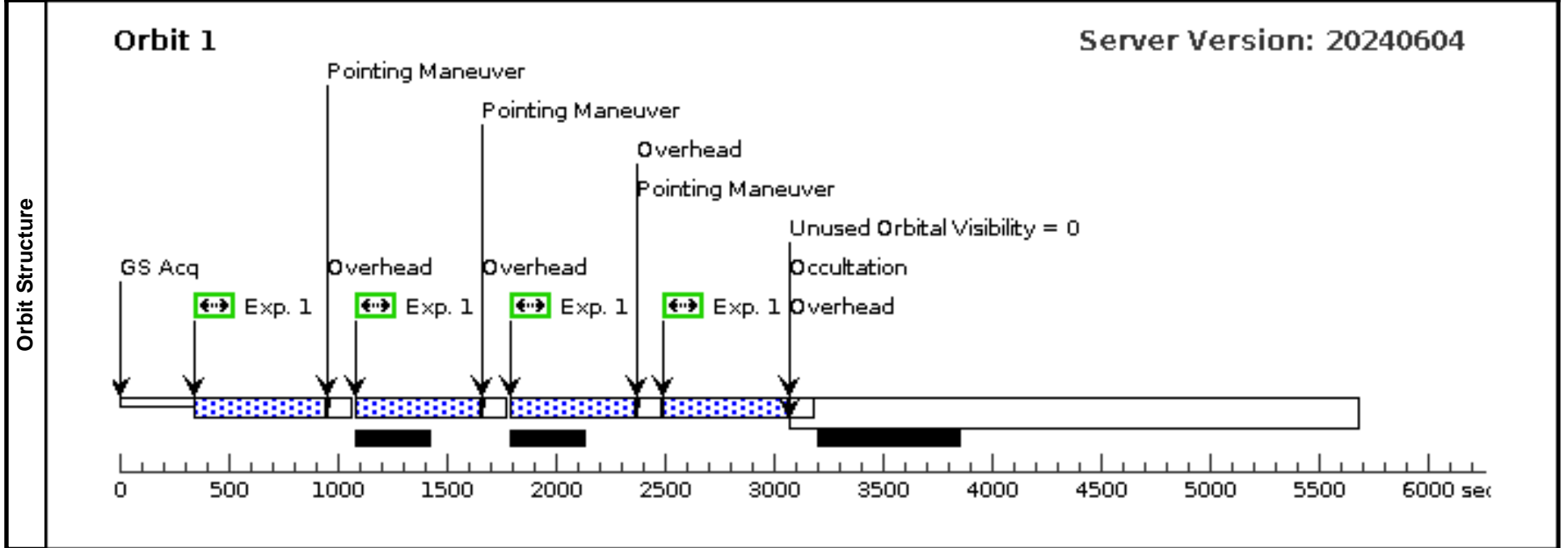
Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Purpose=MOSAIC Number Of Points=2 Point Spacing=2.414 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.759 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	IC-1954	RA: 03 31 31.8056 (52.8825233d) Dec: -51 54 14.15 (-51.90393d) Equinox: J2000		V=10.00	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
 Category=GALAXY
 Description=[SPIRAL]

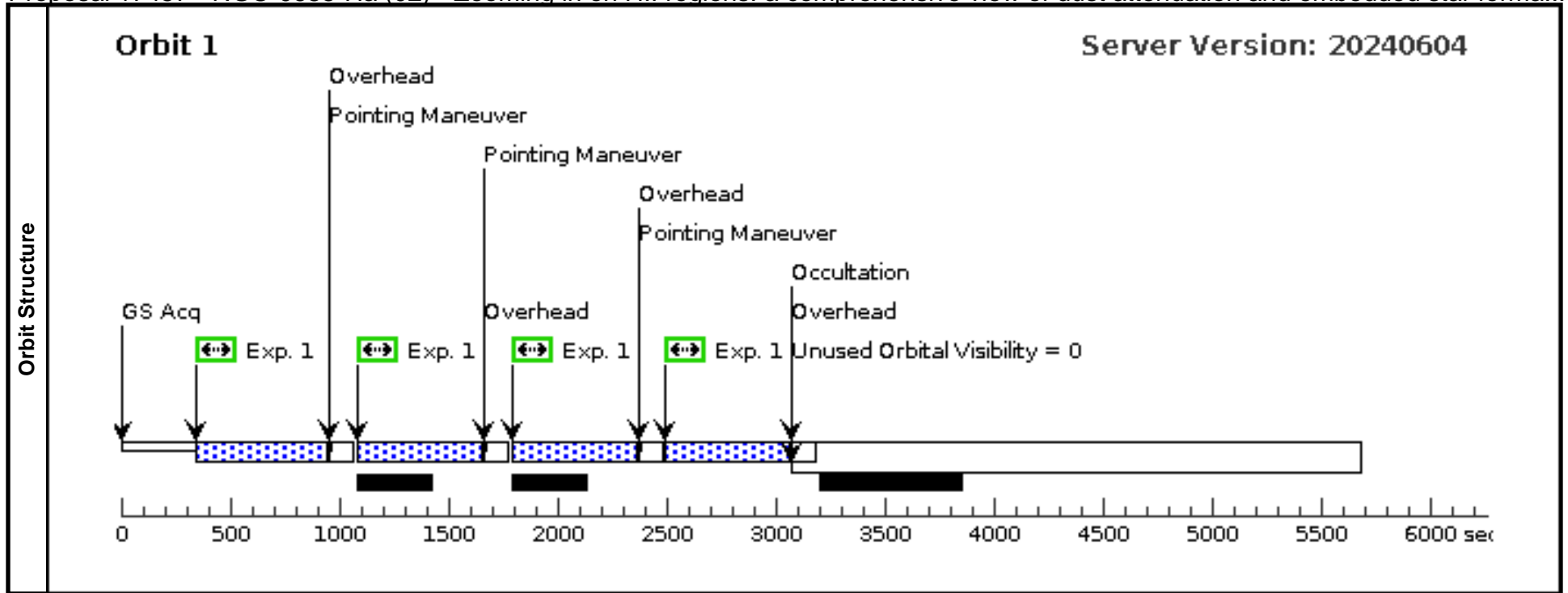
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) IC-1954	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=18	GS ACQ SCENARI O BASE103	Pattern 1, Exps 1-1 i n IC-1954-Ha (01) (1)	569 Secs (2276 Secs)	[1]

[==>(Pattern 1,1)]
 [==>(Pattern 1,2)]
 [==>(Pattern 2,1)]
 [==>(Pattern 2,2)]



Proposal 17457 - NGC-0685-Ha (02) - Zooming in on HII regions: a comprehensive view of dust attenuation and embedded star forma...

Visit	Proposal 17457, NGC-0685-Ha (02), completed Wed Aug 21 12:00:28 GMT 2024 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 290D TO 310 D																													
	Patterns	<table border="1"> <thead> <tr> <th>#</th> <th>Primary Pattern</th> <th>Secondary Pattern</th> <th>Exposures</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td> Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing= </td> <td> Pattern Type=WFC3-UVIS-DITHER- LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing= </td> <td>(1)</td> </tr> </tbody> </table>	#	Primary Pattern	Secondary Pattern	Exposures	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	Pattern Type=WFC3-UVIS-DITHER- LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing=	(1)																				
#	Primary Pattern	Secondary Pattern	Exposures																											
(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	Pattern Type=WFC3-UVIS-DITHER- LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing=	(1)																											
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(17)</td> <td>NGC-0685</td> <td> RA: 01 47 43.0744 (26.9294767d) Dec: -52 45 52.20 (-52.76450d) Equinox: J2000 </td> <td></td> <td>V=10.00</td> <td>Reference Frame: SIMBAD</td> </tr> <tr> <td colspan="6"> <i>Comments:</i> Category=GALAXY Description=[SPIRAL] </td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(17)	NGC-0685	RA: 01 47 43.0744 (26.9294767d) Dec: -52 45 52.20 (-52.76450d) Equinox: J2000		V=10.00	Reference Frame: SIMBAD	<i>Comments:</i> Category=GALAXY Description=[SPIRAL]																
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																									
(17)	NGC-0685	RA: 01 47 43.0744 (26.9294767d) Dec: -52 45 52.20 (-52.76450d) Equinox: J2000		V=10.00	Reference Frame: SIMBAD																									
<i>Comments:</i> Category=GALAXY Description=[SPIRAL]																														
Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>(17) NGC-0685</td> <td>WFC3/UVIS, ACCUM, UVIS-CENTER</td> <td>F657N</td> <td>FLASH=18</td> <td>GS ACQ SCENARI O BASE103</td> <td>Pattern 1, Exps 1-1 i n NGC-0685-Ha (02) (1)</td> <td> 569 Secs (2276 Secs) [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] </td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1		(17) NGC-0685	WFC3/UVIS, ACCUM, UVIS-CENTER	F657N	FLASH=18	GS ACQ SCENARI O BASE103	Pattern 1, Exps 1-1 i n NGC-0685-Ha (02) (1)	569 Secs (2276 Secs) [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)]	[1]									
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																					
1		(17) NGC-0685	WFC3/UVIS, ACCUM, UVIS-CENTER	F657N	FLASH=18	GS ACQ SCENARI O BASE103	Pattern 1, Exps 1-1 i n NGC-0685-Ha (02) (1)	569 Secs (2276 Secs) [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)]	[1]																					



Proposal 17457 - NGC-1097-Ha (03) - Zooming in on HII regions: a comprehensive view of dust attenuation and embedded star forma...

Wed Aug 21 12:00:28 GMT 2024

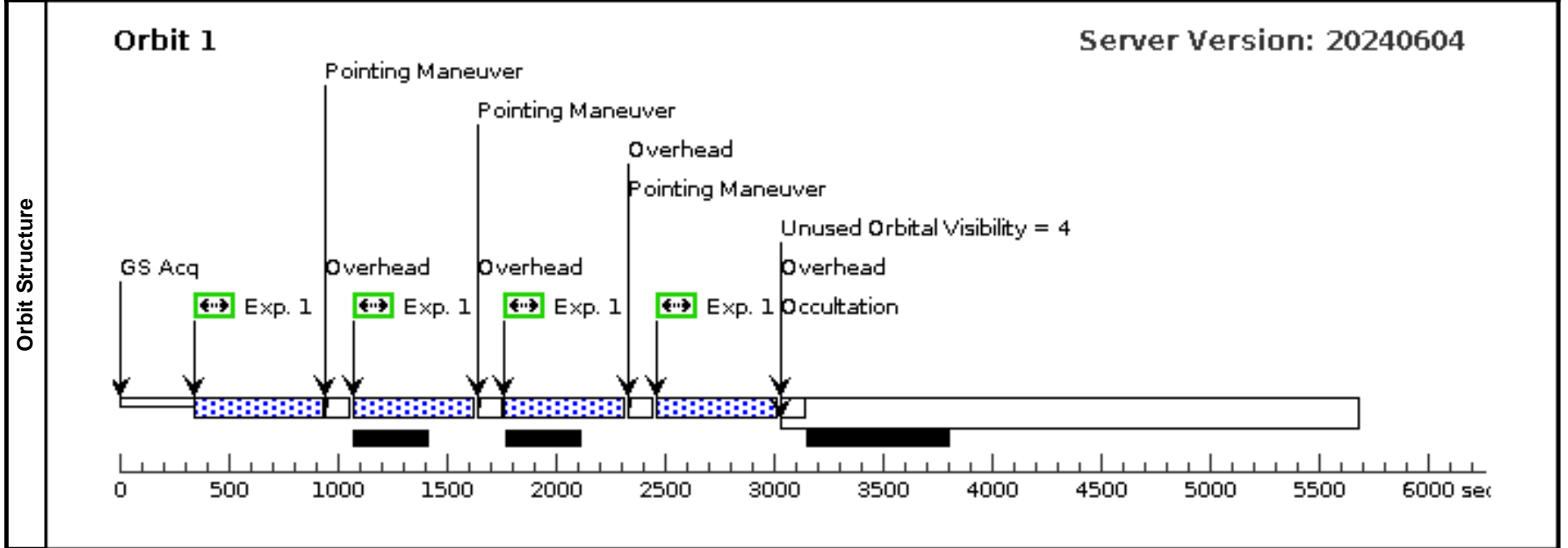
Visit	Proposal 17457, NGC-1097-Ha (03), implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: ORIENT 280D TO 284 D		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Purpose=MOSAIC Number Of Points=2 Point Spacing=2.414 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.759 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	NGC-1097	RA: 02 46 22.9293 (41.5955388d) Dec: -30 17 46.46 (-30.29624d) Equinox: J2000			V=9.48

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
 Category=GALAXY
 Description=[SPIRAL]

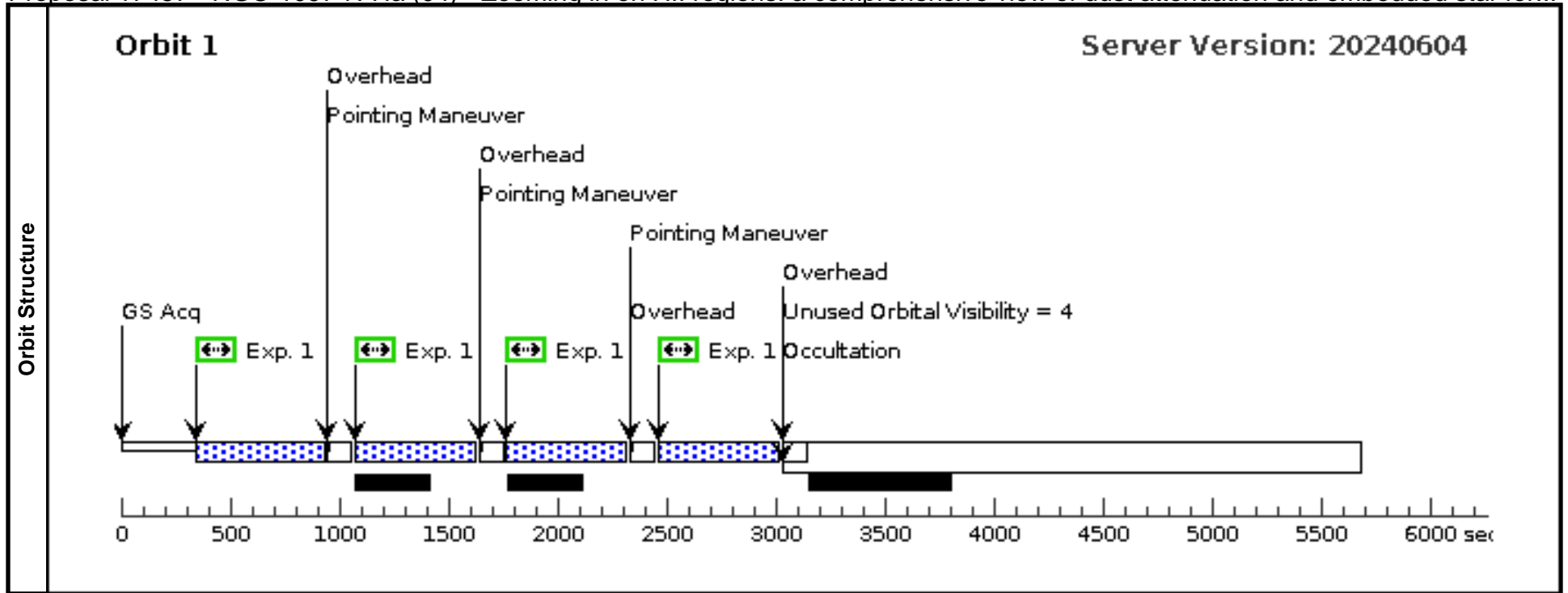
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) NGC-1097	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=18	GS ACQ SCENARI O BASE103	Pattern 1, Exps 1-1 i n NGC-1097-Ha (03) (1)	557 Secs (2228 Secs)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)]



Proposal 17457 - NGC-1097-N-Ha (04) - Zooming in on HII regions: a comprehensive view of dust attenuation and embedded star for...

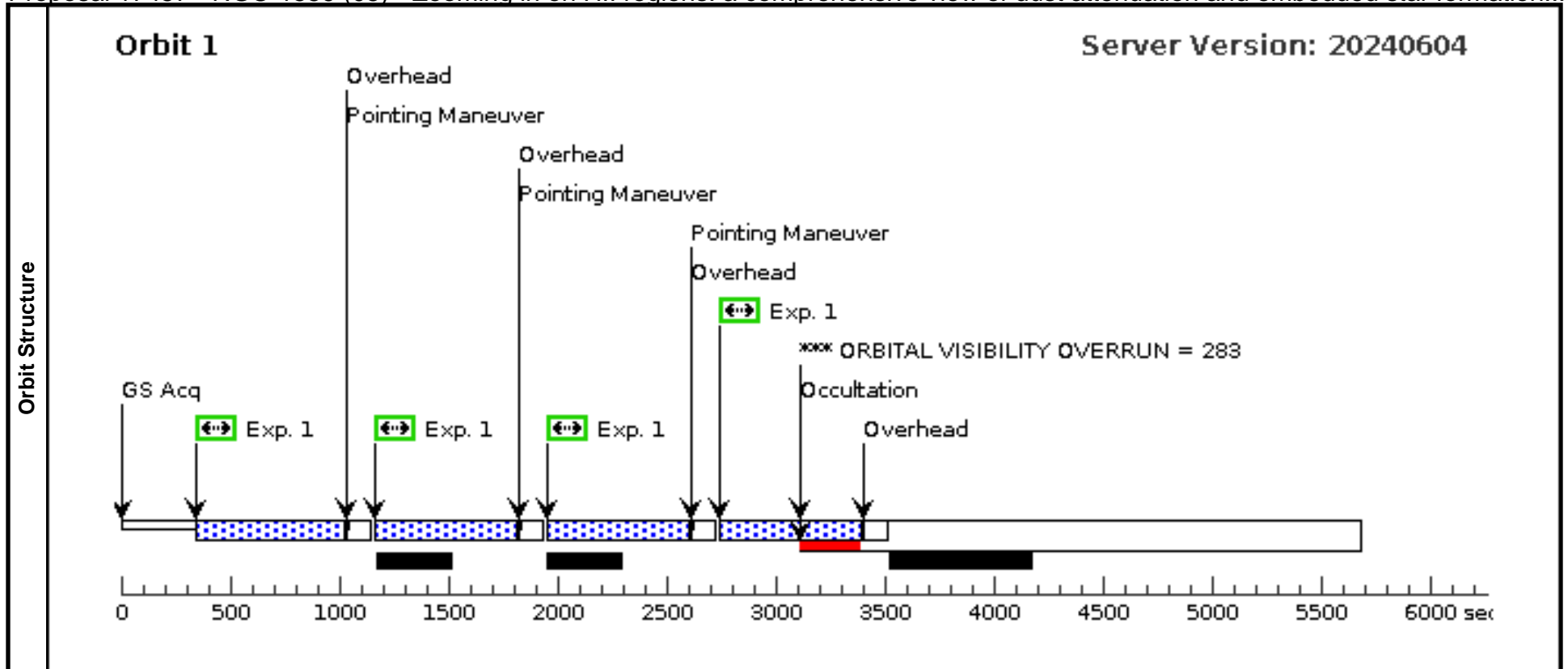
Wed Aug 21 12:00:28 GMT 2024

Visit	Proposal 17457, NGC-1097-N-Ha (04), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 280D TO 284 D									
	Patterns	#	Primary Pattern				Secondary Pattern			
(1)		Pattern Type=WFC3-UVIS-GAP-LINE		Coordinate Frame=POS-TARG		Pattern Type=WFC3-UVIS-DITHER-LINE		Coordinate Frame=POS-TARG		(1)
		Purpose=MOSAIC		Pattern Orientation=85.759		Purpose=DITHER		Pattern Orientation=46.84		
		Number Of Points=2		Angle Between Sides=		Number Of Points=2		Angle Between Sides=		
		Point Spacing=2.414		Center Pattern=true		Point Spacing=0.145		Center Pattern=false		
		Line Spacing=				Line Spacing=				
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Fluxes	Miscellaneous	
	(3)	NGC-1097-N	RA: 02 46 16.4302 (41.5684592d) Dec: -30 15 37.00 (-30.26028d) Equinox: J2000					V=9.48	Reference Frame: SIMBAD	
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[SPIRAL]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) NGC-1097-N	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=18	GS ACQ SCENARI O BASE103	Pattern 1, Exps 1-1 i n NGC-1097-N-Ha (04) (1)	557 Secs (2228 Secs) [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)]	[1]



Proposal 17457 - NGC-1559 (05) - Zooming in on HII regions: a comprehensive view of dust attenuation and embedded star formation...

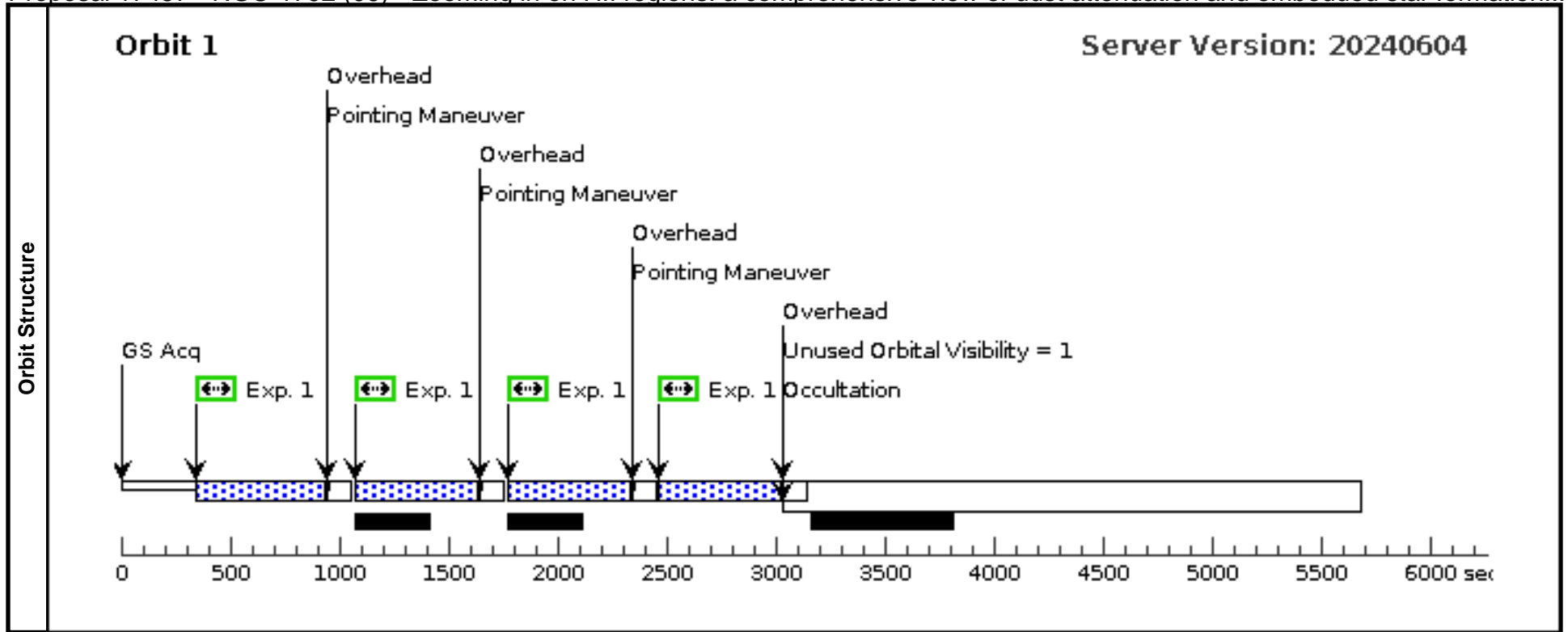
Visit	Proposal 17457, NGC-1559 (05), completed Wed Aug 21 12:00:28 GMT 2024 Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 120D TO 155 D									
	Diagnostics (NGC-1559 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	Pattern Type=WFC3-UVIS-DITHER- LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing=	(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	NGC-1559	RA: 04 17 38.6840 (64.4111833d) Dec: -62 47 19.45 (-62.78874d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[SPIRAL]		V=10.45	Reference Frame: SIMBAD				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(5) NGC-1559	WFC3/UVIS, ACCUM, UVIS-CENTER	F657N	FLASH=18		Pattern 1, Exps 1-1 i n NGC-1559 (05) (1)	650 Secs (2600 Secs) [=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 2,1)] [=>(Pattern 2,2)]	[1]



Proposal 17457 - NGC-1792 (06) - Zooming in on HII regions: a comprehensive view of dust attenuation and embedded star formation...

Wed Aug 21 12:00:28 GMT 2024

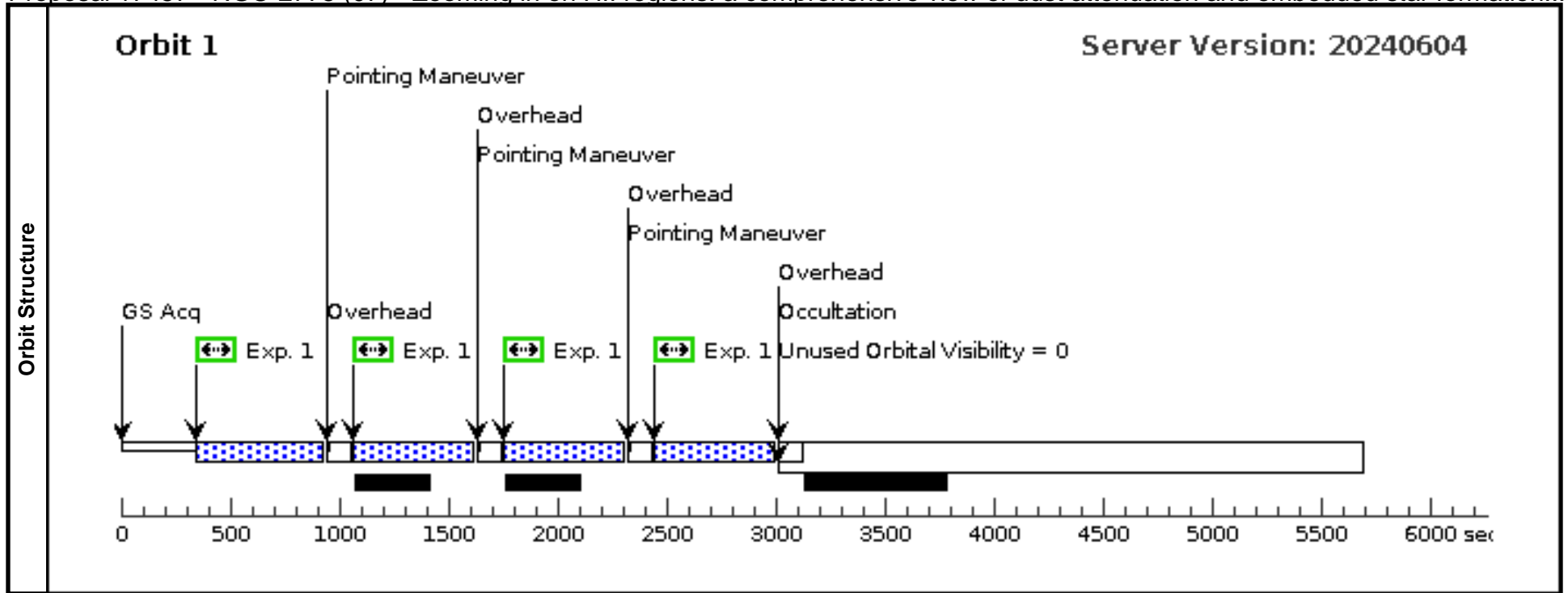
Visit	Proposal 17457, NGC-1792 (06), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 150D TO 180 D										
	Patterns	#	Primary Pattern				Secondary Pattern				Exposures
(1)		Pattern Type=WFC3-UVIS-GAP-LINE Purpose=MOSAIC Number Of Points=2 Point Spacing=2.414 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=85.759 Angle Between Sides= Center Pattern=true		Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 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		
	(6)	NGC-1792	RA: 05 05 14.0000 (76.3083333d) Dec: -37 58 47.00 (-37.97972d) Equinox: J2000				V=10.18		Reference Frame: SIMBAD		
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[SPIRAL]											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(6) NGC-1792	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=18	GS ACQ SCENARI O BASE103	Pattern 1, Exps 1-1 i n NGC-1792 (06) (1)	559 Secs (2236 Secs) [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)]		[1]



Proposal 17457 - NGC-2775 (07) - Zooming in on HII regions: a comprehensive view of dust attenuation and embedded star formation...

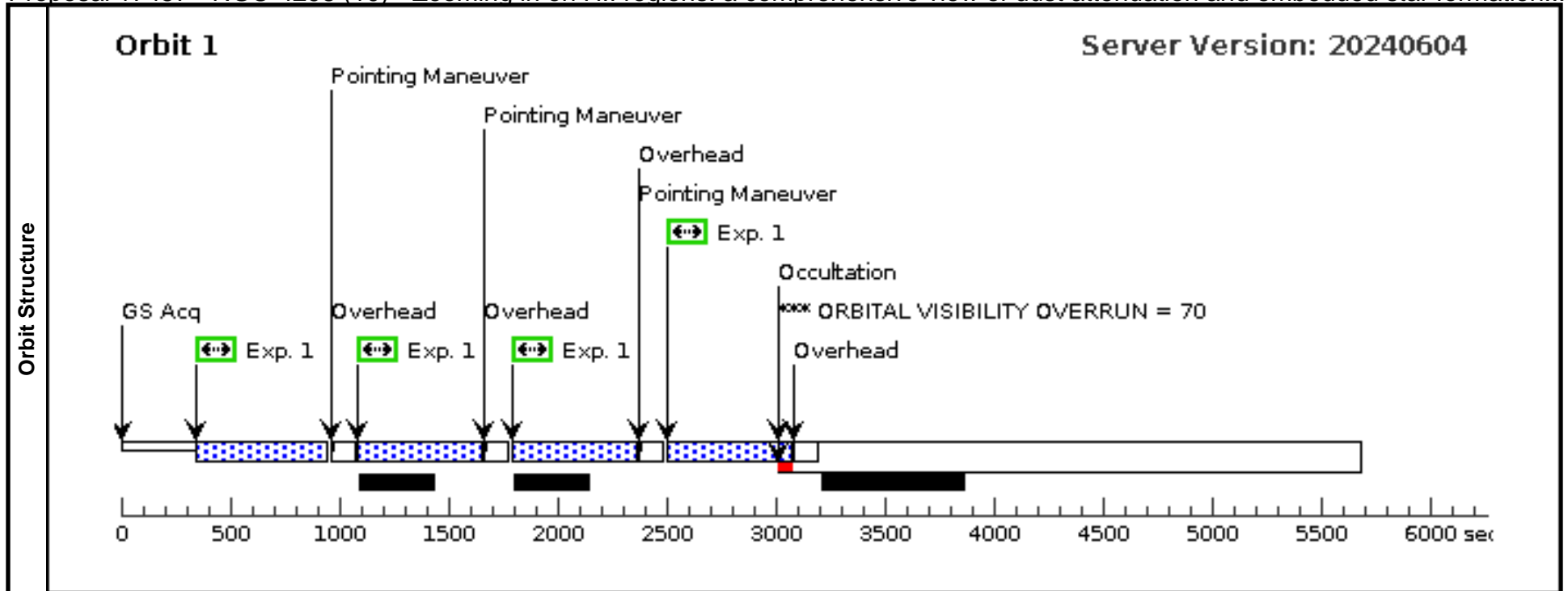
Wed Aug 21 12:00:28 GMT 2024

Visit	Proposal 17457, NGC-2775 (07), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 283D TO 287 D									
	Patterns	#	Primary Pattern				Secondary Pattern			
(1)		Pattern Type=WFC3-UVIS-GAP-LINE Purpose=MOSAIC Number Of Points=2 Point Spacing=2.414 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.759 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 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			
	(7)	NGC-2775	RA: 09 10 20.2862 (137.5845258d) Dec: +07 02 21.82 (7.03939d) Equinox: J2000			V=10.481	Reference Frame: SIMBAD			
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[SPIRAL]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(7) NGC-2775	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=18	GS ACQ SCENARI O BASE103	Pattern 1, Exps 1-1 i n NGC-2775 (07) (1)	552 Secs (2208 Secs) [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)]	[1]



Proposal 17457 - NGC-4298 (10) - Zooming in on HII regions: a comprehensive view of dust attenuation and embedded star formation...

Visit	Proposal 17457, NGC-4298 (10), completed Wed Aug 21 12:00:28 GMT 2024 Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 150D TO 190 D									
	Diagnosics (NGC-4298 (10)) Warning (Orbit Planner): GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE (NGC-4298 (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Pattern 1, Exps 1-1 in NGC-4298 (10)) special requirements) Warning (Form): The specified GS Acq Scenario is not in the current list of valid scenarios.									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	Pattern Type=WFC3-UVIS-DITHER- LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing=	(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(11)	NGC-4298	RA: 12 21 33.1097 (185.3879571d) Dec: +14 36 18.34 (14.60509d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[SPIRAL]		V=11.34	Reference Frame: SIMBAD				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(11) NGC-4298	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=18	GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-1 i n NGC-4298 (10) (1)	570 Secs (2280 Secs) [=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 2,1)] [=>(Pattern 2,2)]	[1]



Proposal 17457 - NGC-4548 (11) - Zooming in on HII regions: a comprehensive view of dust attenuation and embedded star formation...

Wed Aug 21 12:00:28 GMT 2024

Visit	Proposal 17457, NGC-4548 (11), implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: ORIENT 297D TO 301 D		

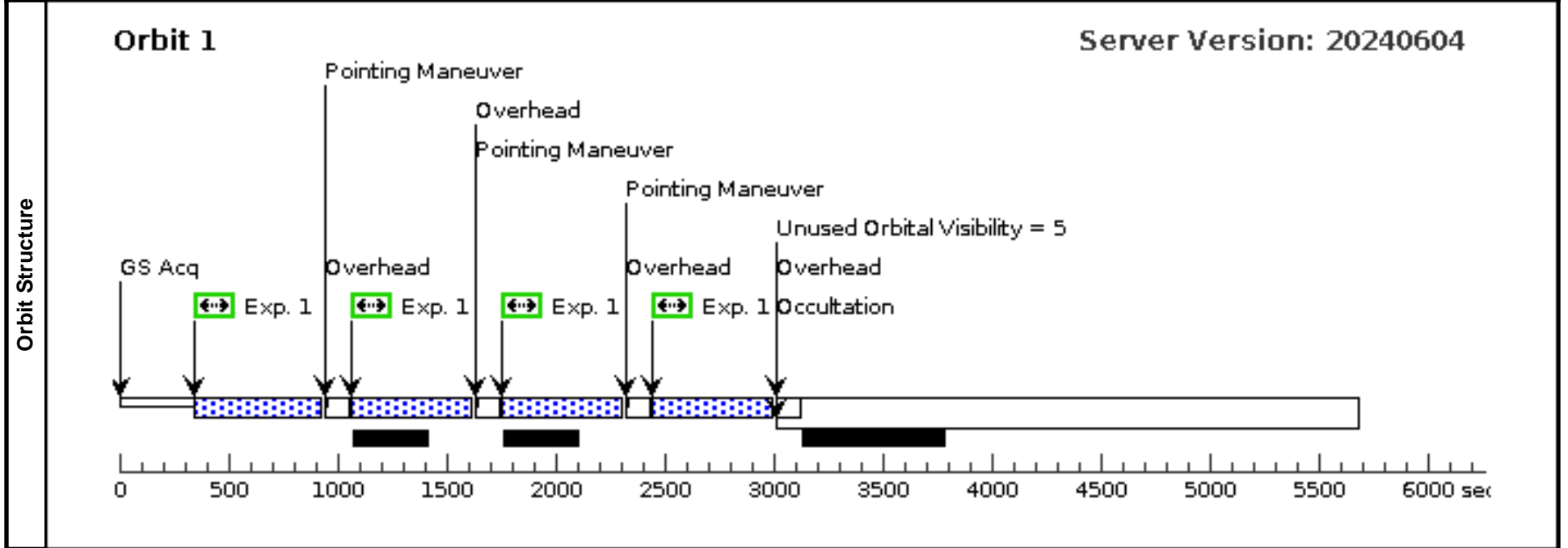
Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Purpose=MOSAIC Number Of Points=2 Point Spacing=2.414 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.759 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(14)	NGC-4548	RA: 12 35 26.4300 (188.8601250d) Dec: +14 29 46.75 (14.49632d) Equinox: J2000			V=13.57

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
 Category=GALAXY
 Description=[SPIRAL]

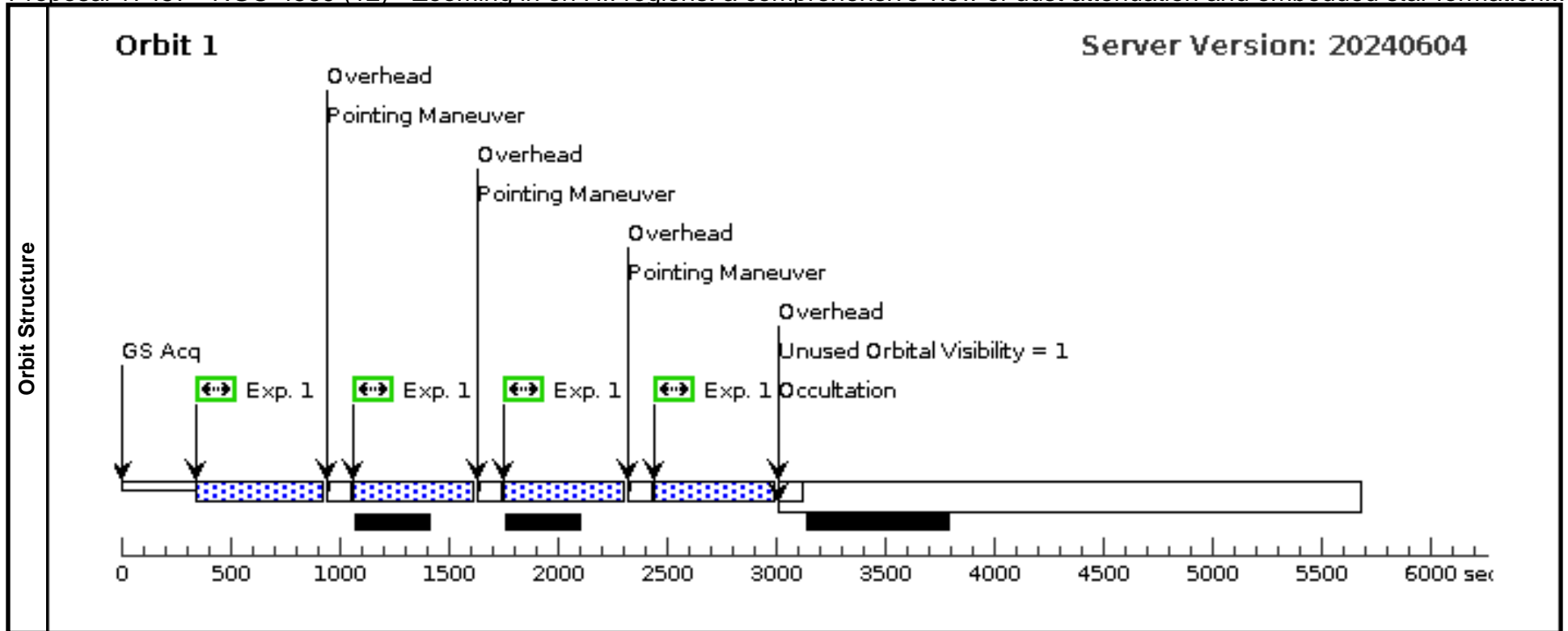
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(14) NGC-4548	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=18	GS ACQ SCENARI O BASE103	Pattern 1, Exps 1-1 i n NGC-4548 (11) (1)	552 Secs (2208 Secs)	

[=>(Pattern 1,1)]
 [=>(Pattern 1,2)]
 [=>(Pattern 2,1)]
 [=>(Pattern 2,2)]



Proposal 17457 - NGC-4569 (12) - Zooming in on HII regions: a comprehensive view of dust attenuation and embedded star formation...

Visit	Proposal 17457, NGC-4569 (12), implementation Wed Aug 21 12:00:28 GMT 2024 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 294D TO 298 D									
	Patterns	#	Primary Pattern	Secondary Pattern		Exposures				
(1)		Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	Pattern Type=WFC3-UVIS-DITHER- LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing=	(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(15)	NGC-4569	RA: 12 36 49.8500 (189.2077083d) Dec: +13 09 48.00 (13.16333d) Equinox: J2000		V=9.54	Reference Frame: SIMBAD				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[SPIRAL]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(15) NGC-4569	(15) NGC-4569	WFC3/UVIS, ACCUM, UVIS-CENTER	F657N	FLASH=18	GS ACQ SCENARI O BASE103	Pattern 1, Exps 1-1 i n NGC-4569 (12) (1)	553 Secs (2212 Secs) [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)]	[1]



Proposal 17457 - NGC-4571 (13) - Zooming in on HII regions: a comprehensive view of dust attenuation and embedded star formation...

Wed Aug 21 12:00:28 GMT 2024

Visit	Proposal 17457, NGC-4571 (13), implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: ORIENT 294D TO 298 D		

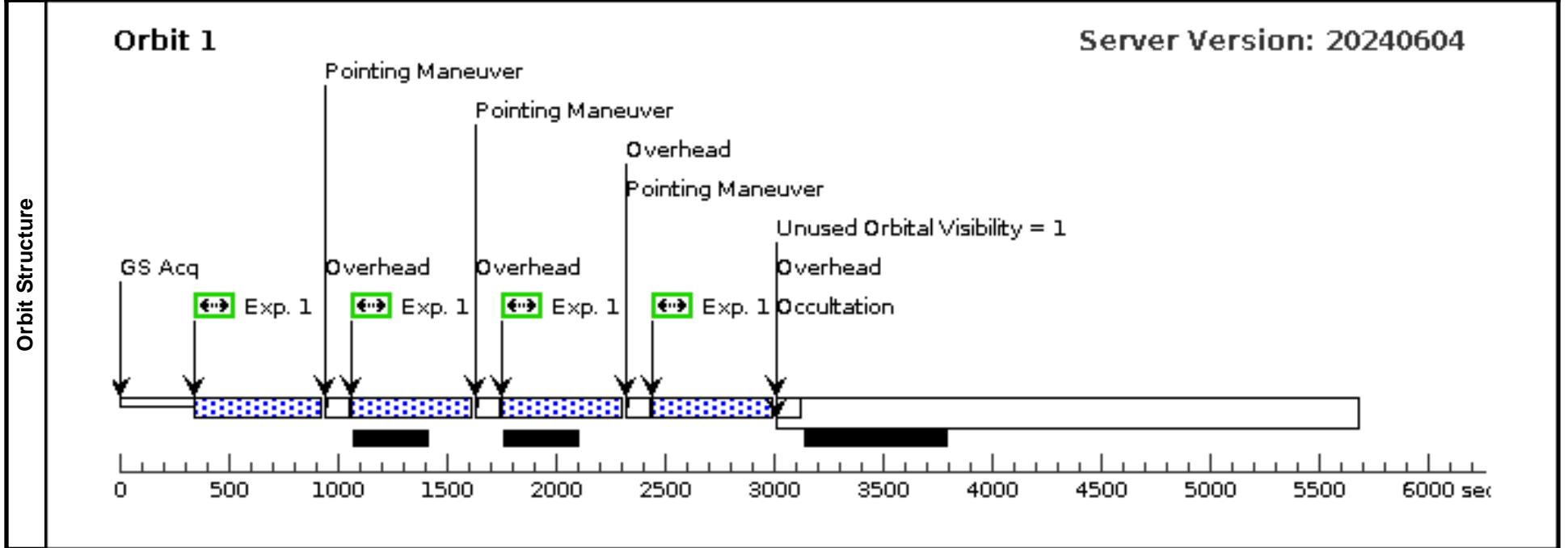
Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Purpose=MOSAIC Number Of Points=2 Point Spacing=2.414 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.759 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(16)	NGC-4571	RA: 12 36 56.3722 (189.2348842d) Dec: +14 13 2.30 (14.21731d) Equinox: J2000			V=10.00

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
 Category=GALAXY
 Description=[SPIRAL]

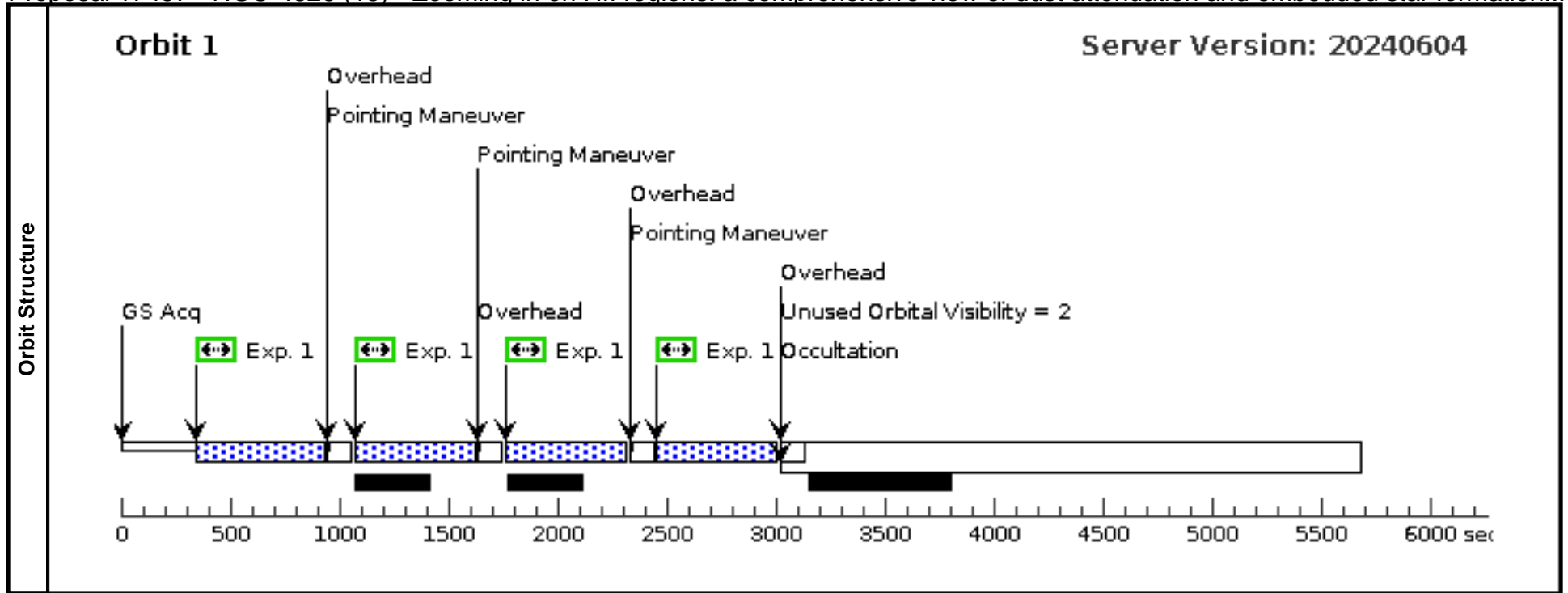
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(16) NGC-4571	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=18	GS ACQ SCENARI O BASE103	Pattern 1, Exps 1-1 i n NGC-4571 (13) (1)	553 Secs (2212 Secs)	

[=>(Pattern 1,1)]
 [=>(Pattern 1,2)]
 [=>(Pattern 2,1)]
 [=>(Pattern 2,2)]



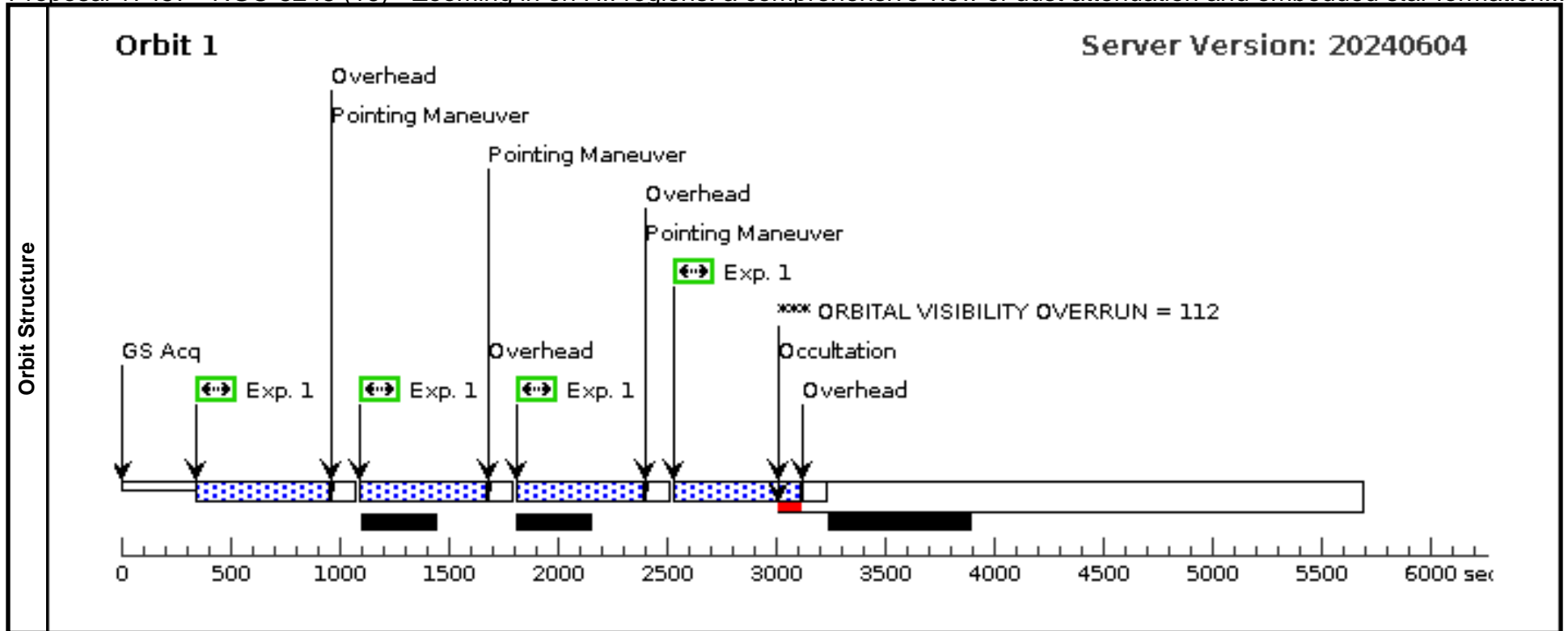
Proposal 17457 - NGC-4826 (15) - Zooming in on HII regions: a comprehensive view of dust attenuation and embedded star formation...

Visit	Proposal 17457, NGC-4826 (15), implementation Wed Aug 21 12:00:28 GMT 2024 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 276D TO 280 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	Pattern Type=WFC3-UVIS-DITHER- LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing=	(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(20)	NGC-4826	RA: 12 56 43.6960 (194.1820667d) Dec: +21 40 57.57 (21.68266d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[SPIRAL]		V=8.52	Reference Frame: SIMBAD				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(20) NGC-4826	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=18	GS ACQ SCENARI O BASE103	Pattern 1, Exps 1-1 i n NGC-4826 (15) (1)	556 Secs (2224 Secs) [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)]	[1]



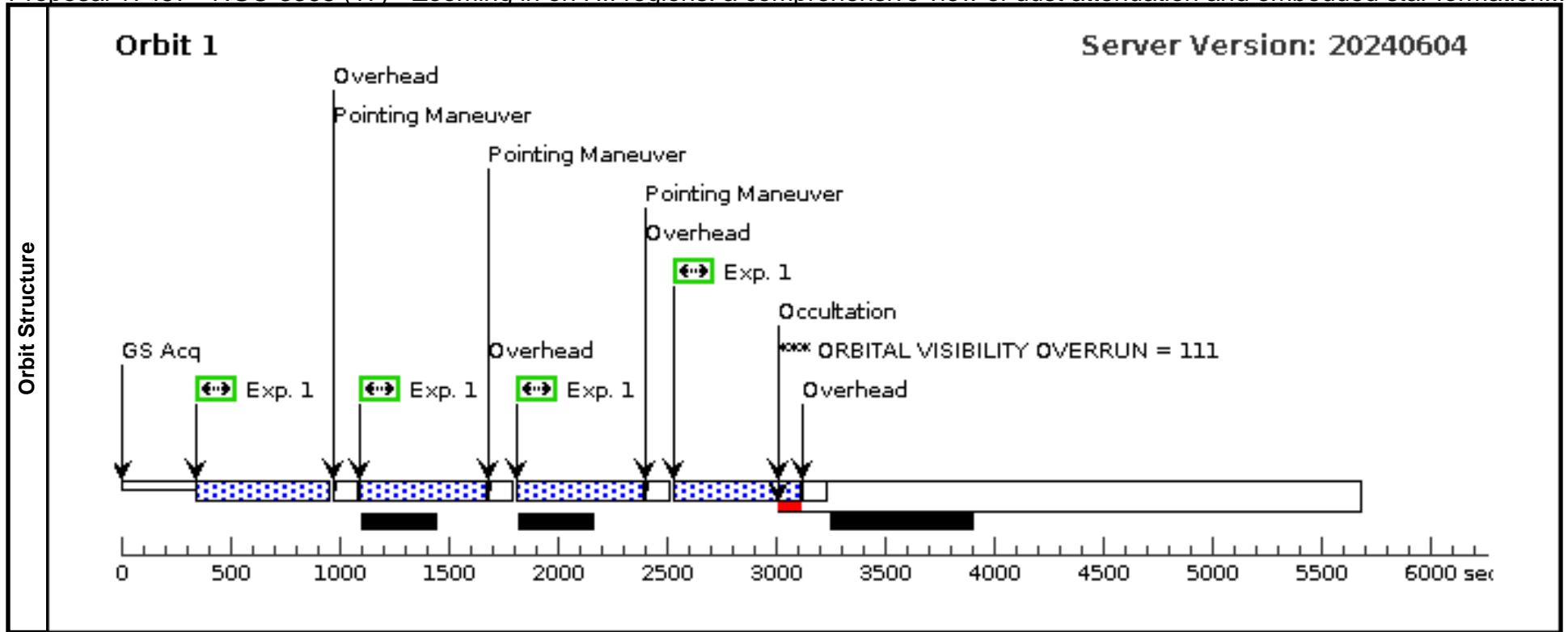
Proposal 17457 - NGC-5248 (16) - Zooming in on HII regions: a comprehensive view of dust attenuation and embedded star formation...

Visit	Proposal 17457, NGC-5248 (16), completed Wed Aug 21 12:00:28 GMT 2024 Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 116D TO 120 D									
	Diagnostics (NGC-5248 (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	Pattern Type=WFC3-UVIS-DITHER- LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing=	(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(21)	NGC-5248	RA: 13 37 32.0690 (204.3836208d) Dec: +08 53 6.22 (8.88506d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[SPIRAL]		V=10.00	Reference Frame: SIMBAD				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(21) NGC-5248	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=18		Pattern 1, Exps 1-1 i n NGC-5248 (16) (1)	580 Secs (2320 Secs) [=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 2,1)] [=>(Pattern 2,2)]	[1]



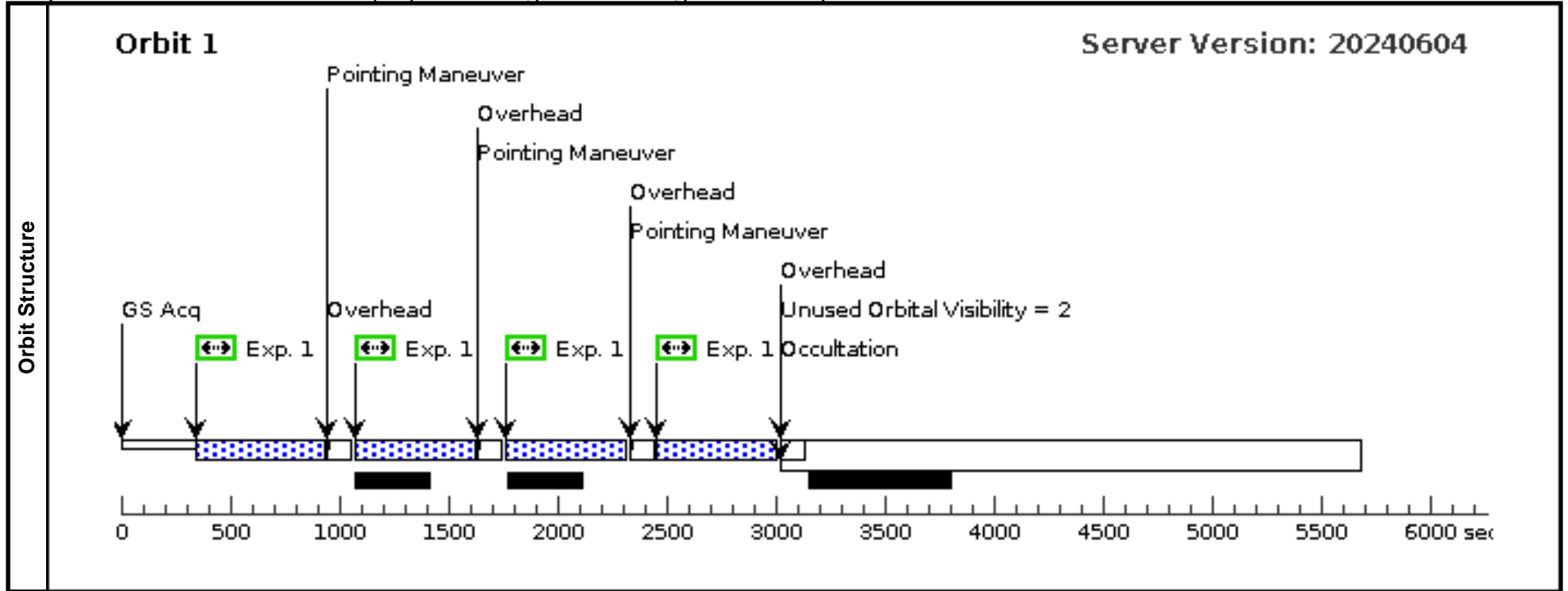
Proposal 17457 - NGC-3368 (17) - Zooming in on HII regions: a comprehensive view of dust attenuation and embedded star formation...

Visit	Proposal 17457, NGC-3368 (17), completed Wed Aug 21 12:00:28 GMT 2024 Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 130D TO 140 D									
	Diagnostics (NGC-3368 (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	Pattern Type=WFC3-UVIS-DITHER- LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing=	(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(22)	NGC-3368	RA: 10 46 45.7440 (161.6906000d) Dec: +11 49 11.78 (11.81994d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[SPIRAL] Extended=YES		V=9.25	Reference Frame: SIMBAD				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(22) NGC-3368	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=18			Pattern 1, Exps 1-1 in NGC-3368 (17) (1)	580 Secs (2324 Secs) [==>582.0 Secs (Pattern 1,1)] [==>(Pattern 1,2)] [==>582.0 Secs (Pattern 2,1)] [==>(Pattern 2,2)]	[1]



Proposal 17457 - NGC-2903-N (08) - Zooming in on HII regions: a comprehensive view of dust attenuation and embedded star formati...

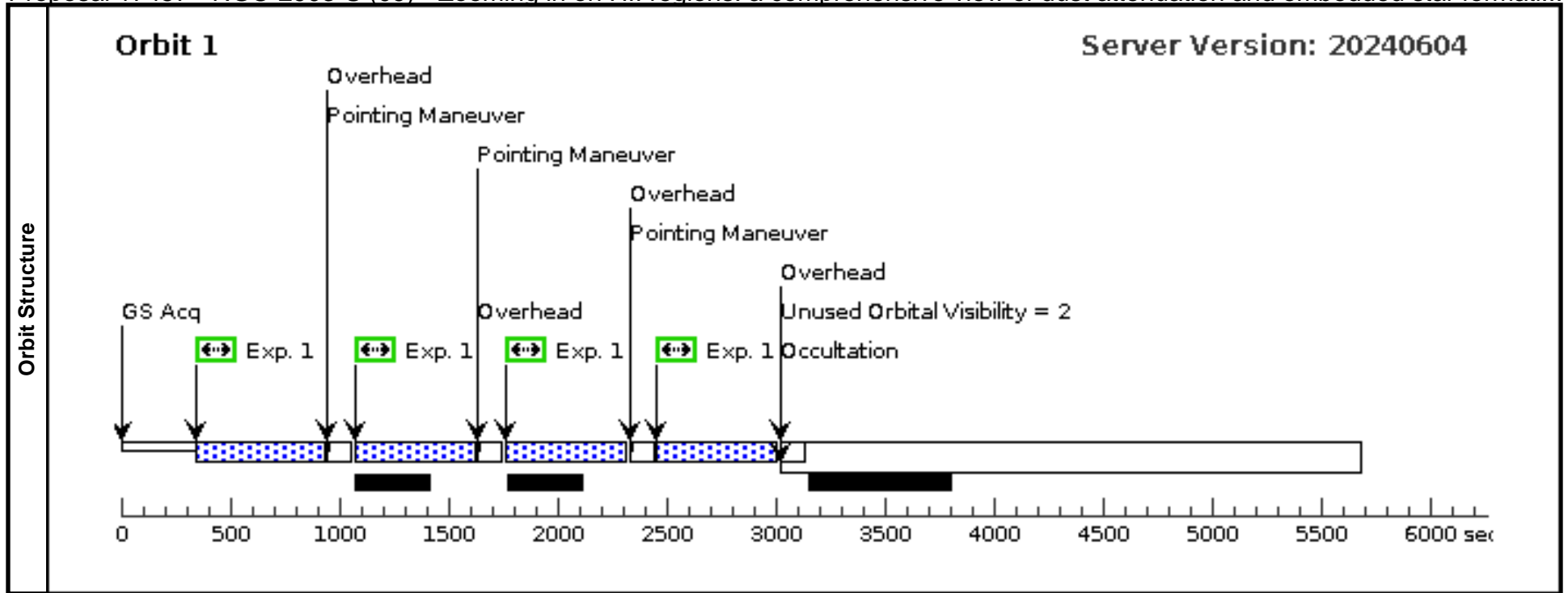
Visit	Proposal 17457, NGC-2903-N (08), implementation Wed Aug 21 12:00:28 GMT 2024 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 280D TO 300 D									
	Patterns	#	Primary Pattern				Secondary Pattern			
(1)		Pattern Type=WFC3-UVIS-GAP-LINE		Coordinate Frame=POS-TARG		Pattern Type=WFC3-UVIS-DITHER-LINE		Coordinate Frame=POS-TARG		(1)
		Purpose=MOSAIC		Pattern Orientation=85.759		Purpose=DITHER		Pattern Orientation=46.84		
		Number Of Points=2		Angle Between Sides=		Number Of Points=2		Angle Between Sides=		
		Point Spacing=2.414		Center Pattern=true		Point Spacing=0.145		Center Pattern=false		
		Line Spacing=				Line Spacing=				
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous		
	(8)	NGC-2903-N	RA: 09 32 10.9802 (143.0457508d)				V=9.07	Reference Frame: SIMBAD		
			Dec: +21 30 19.61 (21.50545d)							
			Equinox: J2000							
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[SPIRAL]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(8) NGC-2903-N	(8) NGC-2903-N	WFC3/UVIS, ACCUM, UVIS-CENTER	F657N	FLASH=18	GS ACQ SCENARI O BASE103	Pattern 1, Exps 1-1 in NGC-2903-N (08) (1)	556 Secs (2224 Secs)	
								[==>(Pattern 1,1)]		
								[==>(Pattern 1,2)]		
								[==>(Pattern 2,1)]		
								[==>(Pattern 2,2)]		[1]



Proposal 17457 - NGC-2903-S (09) - Zooming in on HII regions: a comprehensive view of dust attenuation and embedded star formati...

Wed Aug 21 12:00:28 GMT 2024

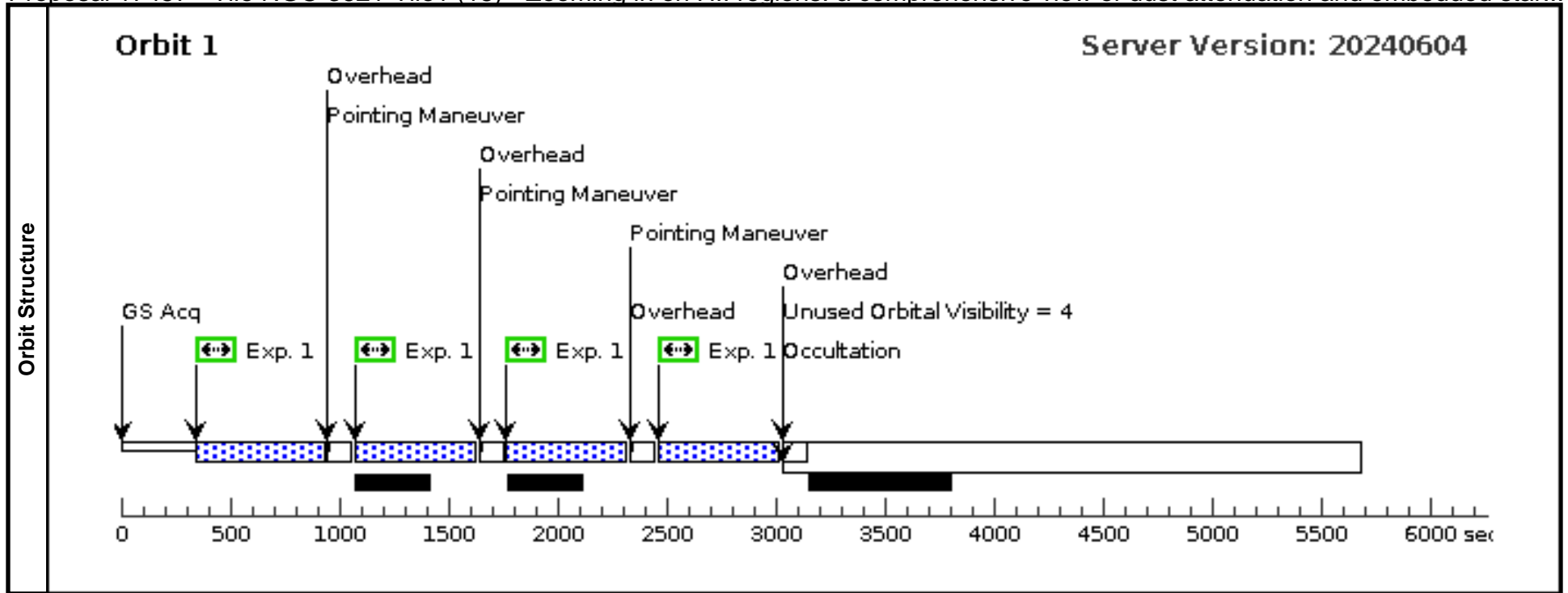
Visit	Proposal 17457, NGC-2903-S (09), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 08										
	Patterns	#	Primary Pattern				Secondary Pattern				Exposures
(1)		Pattern Type=WFC3-UVIS-GAP-LINE Purpose=MOSAIC Number Of Points=2 Point Spacing=2.414 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=85.759 Angle Between Sides= Center Pattern=true		Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 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		
	(9)	NGC-2903-S	RA: 09 32 9.1388 (143.0380783d) Dec: +21 28 59.87 (21.48330d) Equinox: J2000				V=9.07		Reference Frame: SIMBAD		
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[SPIRAL]											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(9) NGC-2903-S	WFC3/UVIS, ACCUM, UVIS-CENTER	F657N	FLASH=18	GS ACQ SCENARI O BASE103	Pattern 1, Exps 1-1 i n NGC-2903-S (09) (1)	556 Secs (2224 Secs) [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)]		[1]



Proposal 17457 - Tile NGC-3621-Tile1 (18) - Zooming in on HII regions: a comprehensive view of dust attenuation and embedded star...

Wed Aug 21 12:00:28 GMT 2024

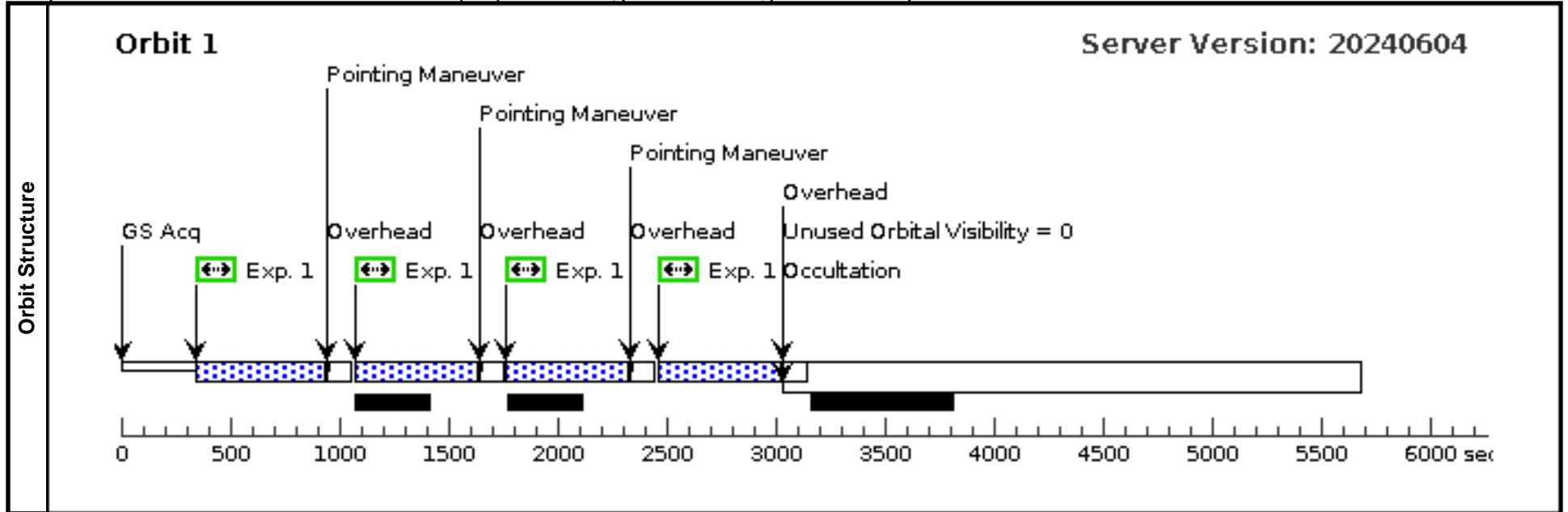
Visit	Proposal 17457, Tile NGC-3621-Tile1 (18), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 292D TO 296 D									
	(Exposure 1 (Pattern 1, Exps 1-1 in Tile NGC-3621-Tile1 (18)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern			Exposures				
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	Pattern Type=WFC3-UVIS-DITHER- LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing=	(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	NGC-3621-MOS	RA: 11 18 16.9731 (169.5707213d) Dec: -32 48 47.05 (-32.81307d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[SPIRAL]		V=9.56	Reference Frame: SIMBAD				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(10) NGC-3621-MOS	WFC3/UVIS, ACCUM, UVIS-CENTER	F657N	FLASH=18	POS TARG 0.0,-74.236365; GS ACQ SCENARI O BASE103	Pattern 1, Exps 1-1 in Tile NGC-3621-Tile1 (18) (1)	557 Secs (2228 Secs) [=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 2,1)] [=>(Pattern 2,2)]	[1]



Proposal 17457 - Tile NGC-3621-Tile2 (19) - Zooming in on HII regions: a comprehensive view of dust attenuation and embedded star...

Wed Aug 21 12:00:28 GMT 2024

Visit	Proposal 17457, Tile NGC-3621-Tile2 (19), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 18									
	(Exposure 1 (Pattern 1, Exps 1-1 in Tile NGC-3621-Tile2 (19)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	Pattern Type=WFC3-UVIS-DITHER- LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing=	(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	NGC-3621-MOS	RA: 11 18 16.9731 (169.5707213d) Dec: -32 48 47.05 (-32.81307d) Equinox: J2000		V=9.56	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[SPIRAL]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(10) NGC-3621-MOS	WFC3/UVIS, ACCUM, UVIS-CENTER	F657N	FLASH=18	POS TARG 0.0,74.2 36365; GS ACQ SCENARI O BASE103	Pattern 1, Exps 1-1 i n Tile NGC-3621-Til e2 (19) (1)	558 Secs (2232 Secs) [=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 2,1)] [=>(Pattern 2,2)]	[1]



Proposal 17457 - NGC-4535 (20) - Zooming in on HII regions: a comprehensive view of dust attenuation and embedded star formation...

Wed Aug 21 12:00:28 GMT 2024

Visit	Proposal 17457, NGC-4535 (20) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 296D TO 299 D									
	Patterns	#	Primary Pattern				Secondary Pattern			
(1)		Pattern Type=WFC3-UVIS-GAP-LINE Purpose=MOSAIC Number Of Points=2 Point Spacing=2.414 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=85.759 Angle Between Sides= Center Pattern=true		Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 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	
	(23)	NGC4535	RA: 12 34 20.3266 (188.5846942d) Dec: +08 11 53.26 (8.19813d) Equinox: J2000				V=10.00		Reference Frame: ICRS	
	Comments: Category=GALAXY Description=[SPIRAL]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(23) NGC4535	WFC3/UVIS, ACCUM, UVIS-FIX	F657N	FLASH=17		Pattern 1, Exps 1-1 in NGC-4535 (20) (1)	550 Secs (2200 Secs) [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)]	[1]

