



## 17419 - A 3-Epoch Time-Lapse Movie of the Kinematics Across the Carina Nebula

Cycle: 31, Proposal Category: GO

(Availability Mode: SUPPORTED)

### INVESTIGATORS

<i>Name</i>	<i>Institution</i>
<b>Dr. Nathan Smith (PI) (Contact)</b>	<b>University of Arizona</b>
Dr. Megan Reiter (CoI)	Rice University
Dr. Jon A. Morse (CoI)	California Institute of Technology

### 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	(31) NGC3372-TR14 (32) NGC3372-TR14-ALT	ACS/WFC WFC3/UVIS	3	17-Sep-2025 14:00:18.0	yes
02	(31) NGC3372-TR14 (32) NGC3372-TR14-ALT	ACS/WFC WFC3/UVIS	3	17-Sep-2025 14:00:20.0	yes
03	(31) NGC3372-TR14 (32) NGC3372-TR14-ALT	ACS/WFC WFC3/UVIS	3	17-Sep-2025 14:00:22.0	yes
04	(31) NGC3372-TR14 (32) NGC3372-TR14-ALT	ACS/WFC WFC3/UVIS	3	17-Sep-2025 14:00:24.0	yes
05	(33) NGC3372-TR16	ACS/WFC WFC3/UVIS	3	17-Sep-2025 14:00:26.0	yes
06	(33) NGC3372-TR16	ACS/WFC WFC3/UVIS	3	17-Sep-2025 14:00:27.0	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>
07	(33) NGC3372-TR16	ACS/WFC WFC3/UVIS	3	17-Sep-2025 14:00:29.0	yes
08	(33) NGC3372-TR16	ACS/WFC WFC3/UVIS	3	17-Sep-2025 14:00:31.0	yes
11	(34) NGC3372-HH666	ACS/WFC WFC3/UVIS	2	17-Sep-2025 14:00:32.0	yes
12	(35) NGC3372-POS23	ACS/WFC WFC3/UVIS	1	17-Sep-2025 14:00:33.0	yes
13	(33) NGC3372-TR16 (36) NGC3372-TR1416GAP	ACS/WFC WFC3/UVIS	1	17-Sep-2025 14:00:33.0	yes
14	(33) NGC3372-TR16 (37) NGC3372-TR16-ALT	ACS/WFC WFC3/UVIS	1	17-Sep-2025 14:00:34.0	yes

29 Total Orbits Used

## **ABSTRACT**

A cycle 13 ACS H-alpha imaging survey of the Carina Nebula covered 540 square arcminutes, concentrating on the two 2-3 Myr old central massive star clusters and several surrounding regions. This revealed dozens of protostellar outflows in a region thought to be devoid of active star formation. A 2nd epoch in cycle 21 allowed for the first proper motion (PM) estimates of such a large sample of irradiated jets, and roughly doubled the number of known jets identified via PM. Now we aim to add a 3rd epoch that will double the time baseline for PMs. In addition to improving the precision of PMs (1-2 km/s for point sources; 3 km/s for nebular features), these observations will achieve new goals not possible before: (1) For the first time, we will measure PM of edge-on ionization fronts at the cloud interface, including dust pillars, globules, and filaments. This will directly measure the impact of massive star feedback and will test otherwise ambiguous scenarios of triggered star formation. (2) We will measure PMs of previously discovered jets, but will push this to lower velocities or higher precision, will improve dynamical ages, and will identify many more outflows, thus completing the census of their mass-loss histories. (3) For faster jets, 3 epochs will reveal hydrodynamic evolution and deceleration of the shock fronts, critical for quantifying the mass-loss history. (4) While Gaia provides PMs for brighter stars, this H-alpha survey will measure PMs and H-alpha flux variability for low-mass pre-main-sequence stars (i.e. T Tauri stars) that are too faint for Gaia. This will yield the most complete census of stellar and gas dynamics in a massive OB association.

## **OBSERVING DESCRIPTION**

These ACS/WFC primary exposures in the F658N filter are meant to duplicate, as closely as possible, previous observations made in Cycles 13/14 and 21/22 for the goal of measuring proper motions of both stars and nebular features. Visits 1-4 are one block, yielding a square mosaic of contiguous exposures centered on the Tr14 cluster, although they use an alternate target for some exposures because of roll angle. Visits 5-8 are the same, but centered on an adjacent position including the Tr16 star cluster and Eta Carinae. Together, exposures from Visits 1-8 will be combined to make a single large mosaic image. WFC3 parallel exposures (very limited because of buffer dumps) aim to extend the coverage in the F656N filter, or to use WFC3-IR where it overlaps with an ACS/WFC primary pointing. The roll angles are very tightly constrained in order to match as closely as possible the previous observations.

Visit 9 is a 2-orbit visit with 6 adjacent pointings on the target HH666. There is one WFC3 parallel exposure. Visit 10 is a 1-orbit set of similar observations (again ACS/WFC F658N). This time no parallel exposures could be fit into the allocated time because of buffer dump requirements.

Proposal 17419 - Tr14 (01) - A 3-Epoch Time-Lapse Movie of the Kinematics Across the Carina Nebula

Wed Sep 17 18:00:34 GMT 2025

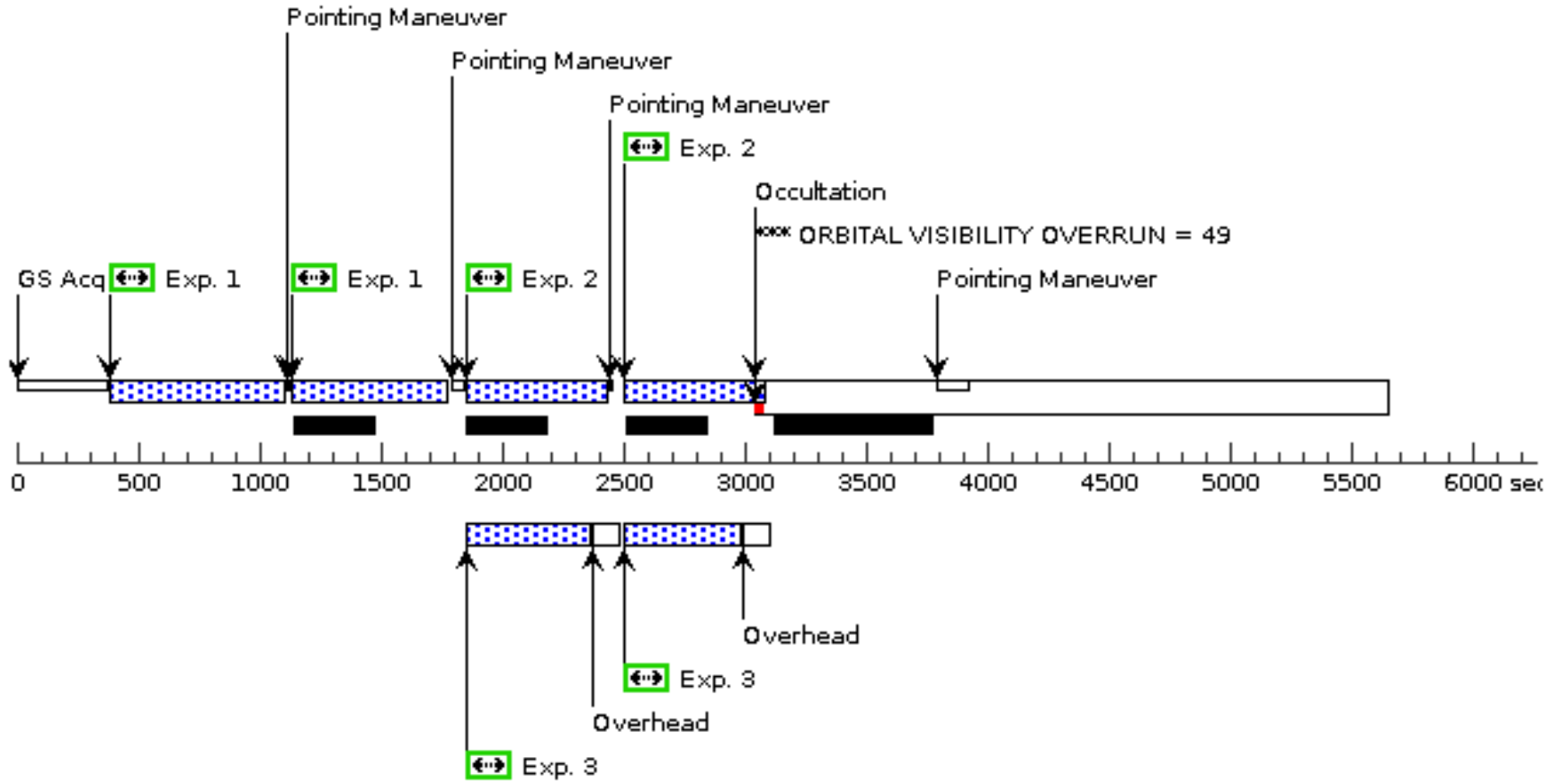
<b>Visit</b>	<b>Proposal 17419, Tr14 (01), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: ORIENT 144.5D TO 145.5 D					
	(Tr14 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Tr14 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Tr14 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Tr14 (01)) Warning (Orbit Planner): PARALLELS SIGNIFICANTLY EXTEND ALIGNMENT TIME (Tr14 (01)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr14 (01)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr14 (01)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr14 (01)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr14 (01)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr14 (01)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE					
<b>Diagnosics</b>						
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>		
	(2)	Pattern Type=ACS-WFC-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false	(1), (2-3), (4), (5-6), (7), (8-9)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(31)	NGC3372-TR14	RA: 10 44 0.0000 (161.0000000d) Dec: -59 32 48.00 (-59.54667d) Equinox: J2000 Comments: Open cluster. Reference point for large mosaic. Category=ISM Description=[HII REGION]		V=8.0	Reference Frame: ICRS
	(32)	NGC3372-TR14-ALT	RA: 10 44 6.0000 (161.0250000d) Dec: -59 28 1.00 (-59.46694d) Equinox: J2000 Comments: Open cluster. Reference point for large mosaic. Category=ISM Description=[HII REGION]		V=8.0	Reference Frame: ICRS

Proposal 17419 - Tr14 (01) - A 3-Epoch Time-Lapse Movie of the Kinematics Across the Carina Nebula

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(31) NGC3372-TR1 4	(31) NGC3372-TR1 4	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, -193.63	Pattern 2, Exps 1-1 i n Tr14 (01) (2)	433.0 Secs (1032 Secs) [==>516.0 Secs (Pattern 1)] [==>516.0 Secs (Pattern 2)]	[1]
	2	(31) NGC3372-TR1 4	(31) NGC3372-TR1 4	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, -96.816	Pattern 2, Exps 2-3 i n Tr14 (01) (2)  Prime + Parallel Gro up 2-3 in Pattern 2, E xps 2-3 in Tr14 (01)	433.0 Secs (906 Secs) [==>453.0 Secs (Pattern 1)] [==>453.0 Secs (Pattern 2)]	[1]
	3	(32) NGC3372-TR1 4-ALT	(32) NGC3372-TR1 4-ALT	WFC3/UVIS, ACCUM, UVIS	F656N	FLASH=16		Pattern 2, Exps 2-3 i n Tr14 (01) (2)  Prime + Parallel Gro up 2-3 in Pattern 2, E xps 2-3 in Tr14 (01)	483.0 Secs (966 Secs) [==>483.0 Secs (Pattern 1)] [==>483.0 Secs (Pattern 2)]	[1]
	4	(31) NGC3372-TR1 4	(31) NGC3372-TR1 4	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, 94.316	Pattern 2, Exps 4-4 i n Tr14 (01) (2)	433.0 Secs (1060 Secs) [==>530.0 Secs (Pattern 1)] [==>530.0 Secs (Pattern 2)]	[2]
	5	(31) NGC3372-TR1 4	(31) NGC3372-TR1 4	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, 99.316	Pattern 2, Exps 5-6 i n Tr14 (01) (2)  Prime + Parallel Gro up 5-6 in Pattern 2, E xps 5-6 in Tr14 (01)	433.0 Secs (918 Secs) [==>459.0 Secs (Pattern 1)] [==>459.0 Secs (Pattern 2)]	[2]
	6	(32) NGC3372-TR1 4-ALT	(32) NGC3372-TR1 4-ALT	WFC3/UVIS, ACCUM, UVIS	F656N	FLASH=16		Pattern 2, Exps 5-6 i n Tr14 (01) (2)  Prime + Parallel Gro up 5-6 in Pattern 2, E xps 5-6 in Tr14 (01)	483.0 Secs (966 Secs) [==>483.0 Secs (Pattern 1)] [==>483.0 Secs (Pattern 2)]	[2]
	7	(31) NGC3372-TR1 4	(31) NGC3372-TR1 4	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, 387.264	Pattern 2, Exps 7-7 i n Tr14 (01) (2)	403.0 Secs (962 Secs) [==>481.0 Secs (Pattern 1)] [==>481.0 Secs (Pattern 2)]	[3]
	8	(31) NGC3372-TR1 4	(31) NGC3372-TR1 4	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, 290.448	Pattern 2, Exps 8-9 i n Tr14 (01) (2)  Prime + Parallel Gro up 8-9 in Pattern 2, E xps 8-9 in Tr14 (01)	433.0 Secs (1022 Secs) [==>511.0 Secs (Pattern 1)] [==>511.0 Secs (Pattern 2)]	[3]
	9	(32) NGC3372-TR1 4-ALT	(32) NGC3372-TR1 4-ALT	WFC3/UVIS, ACCUM, UVIS	F656N	FLASH=16		Pattern 2, Exps 8-9 i n Tr14 (01) (2)  Prime + Parallel Gro up 8-9 in Pattern 2, E xps 8-9 in Tr14 (01)	483.0 Secs (976 Secs) [==>493.0 Secs (Pattern 1)] [==>483.0 Secs (Pattern 2)]	[3]

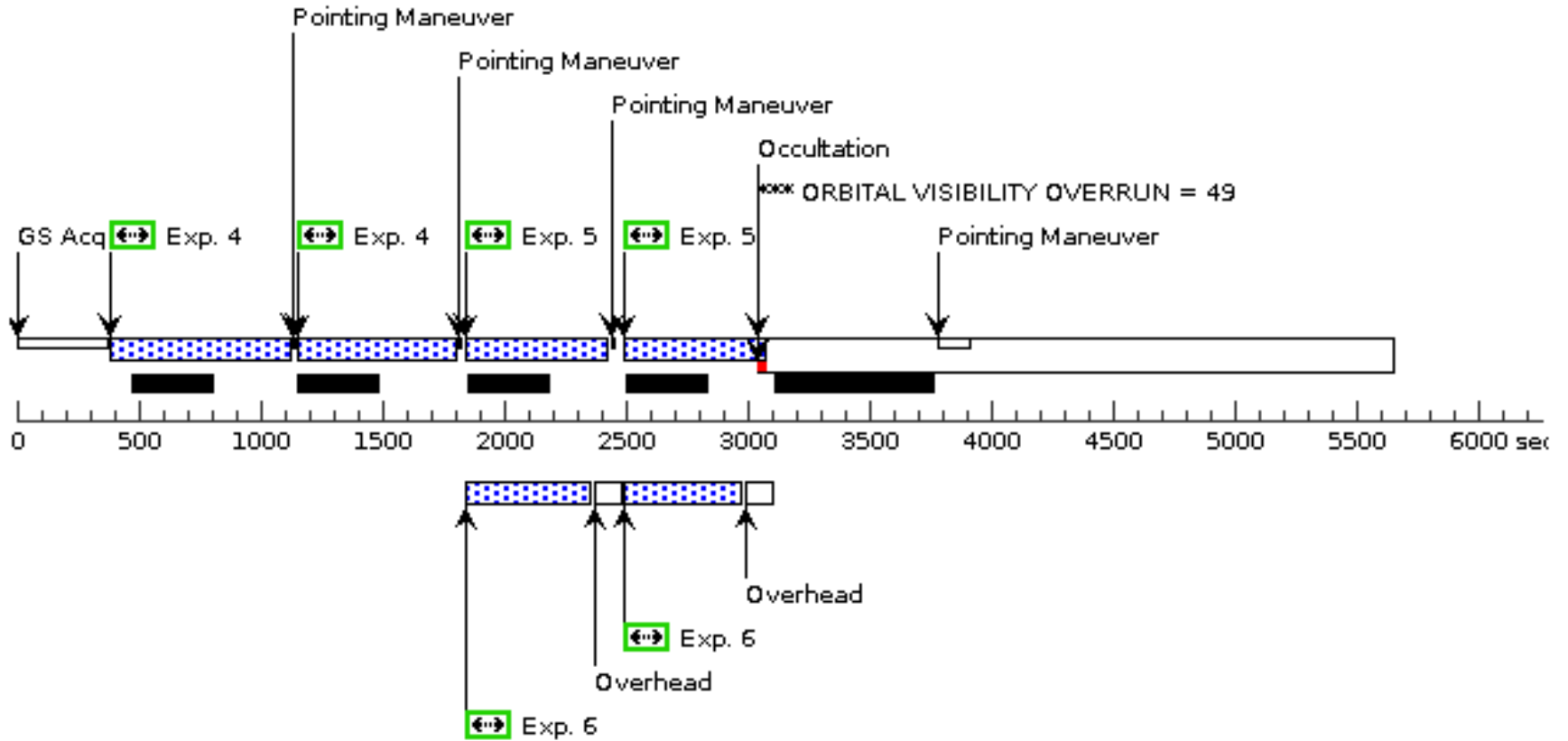
Orbit 1

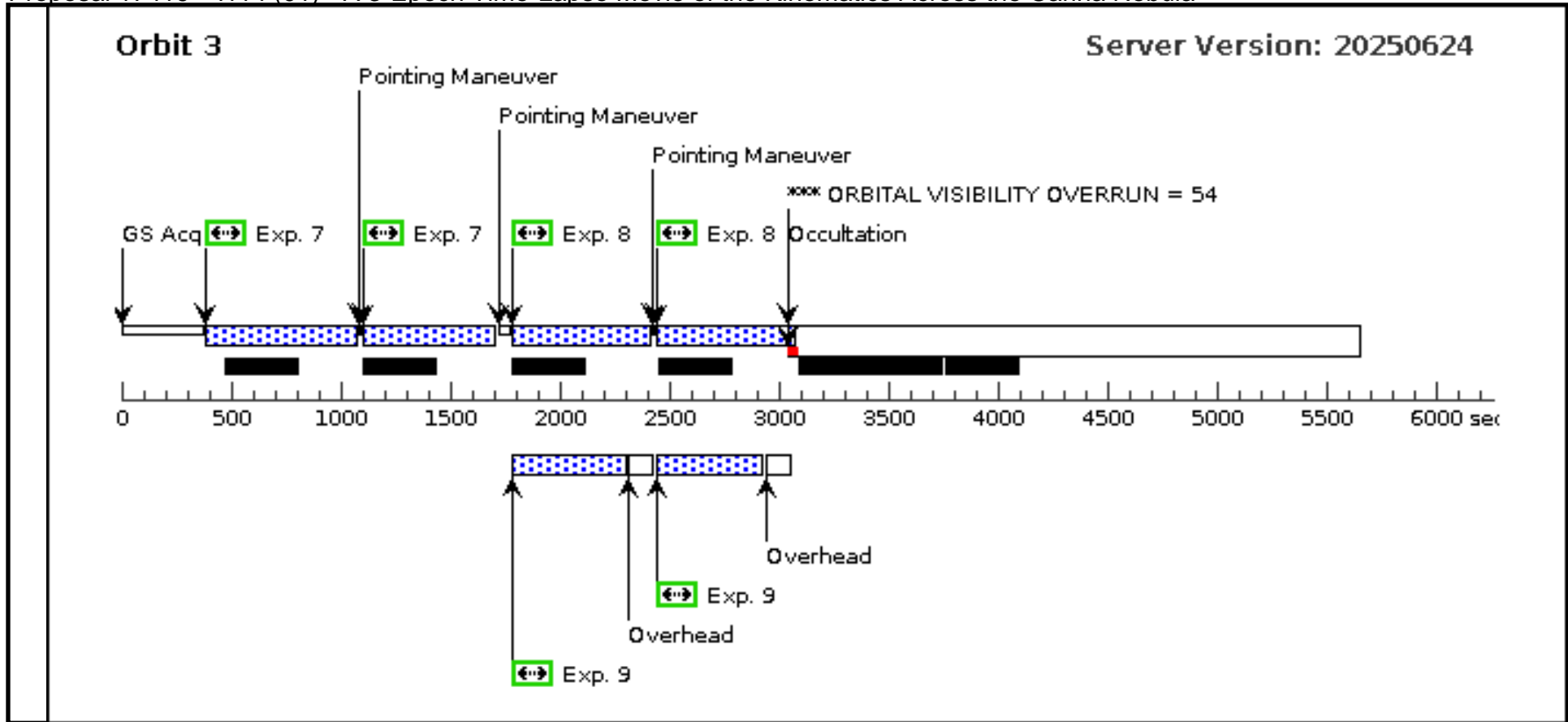
Orbit Structure



Orbit 2

Server Version: 20250624





Proposal 17419 - Tr14 (02) - A 3-Epoch Time-Lapse Movie of the Kinematics Across the Carina Nebula

Wed Sep 17 18:00:35 GMT 2025

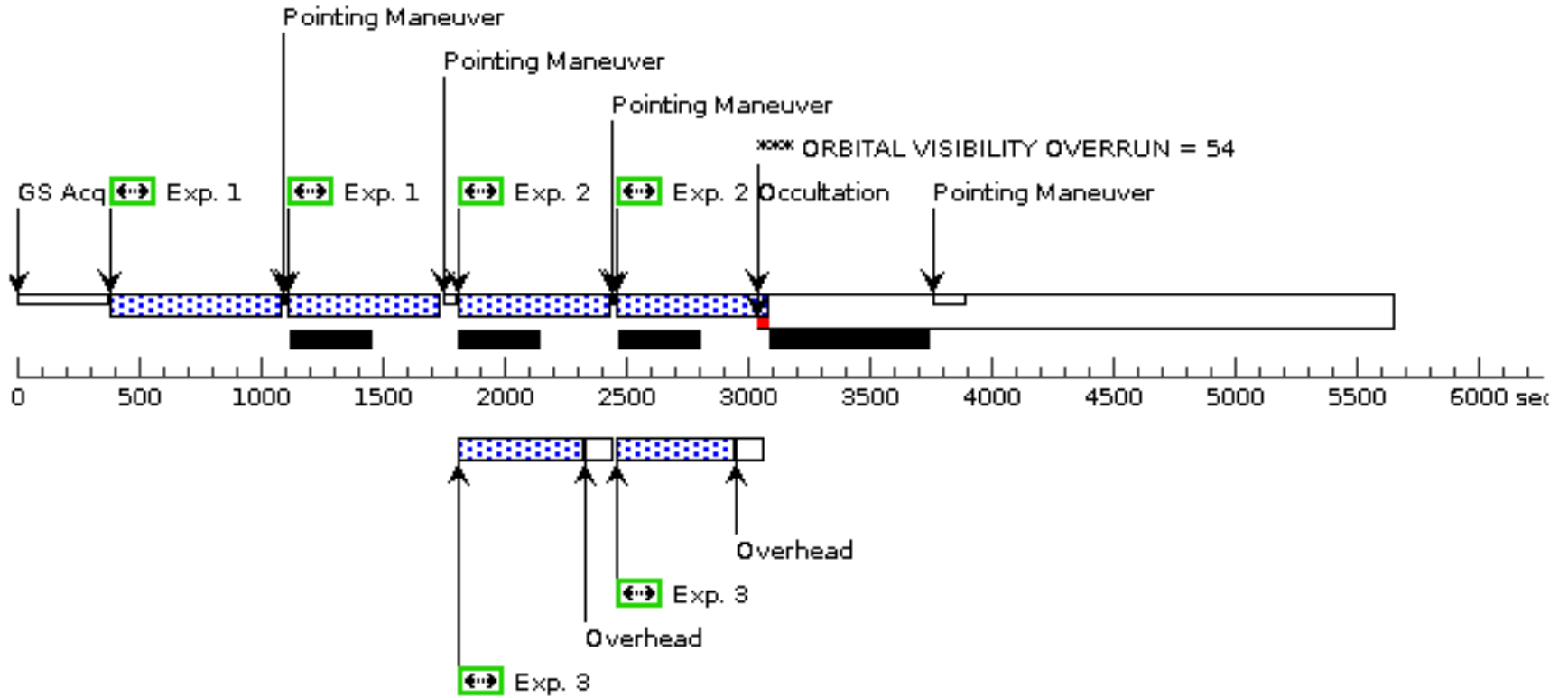
<b>Visit</b>	<b>Proposal 17419, Tr14 (02), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 01																				
	(Tr14 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Tr14 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Tr14 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Tr14 (02)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr14 (02)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr14 (02)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr14 (02)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE																				
<b>Diagnosics</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Primary Pattern</th> <th>Secondary Pattern</th> <th>Exposures</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>                     Pattern Type=ACS-WFC-DITHER-                      LINE                      Purpose=DITHER                      Number Of Points=2                      Point Spacing=0.146                      Line Spacing=                 </td> <td>                     Coordinate Frame=POS-TARG                      Pattern Orientation=47.17                      Angle Between Sides=                      Center Pattern=false                 </td> <td>(1), (2-3), (4), (5-6), (7), (8-9)</td> </tr> </tbody> </table>				#	Primary Pattern	Secondary Pattern	Exposures	(2)	Pattern Type=ACS-WFC-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false	(1), (2-3), (4), (5-6), (7), (8-9)									
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Proposal 17419 - Tr14 (02) - A 3-Epoch Time-Lapse Movie of the Kinematics Across the Carina Nebula

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(31) NGC3372-TR1 4	(31) NGC3372-TR1 4	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,-96.816	Pattern 2, Exps 1-1 in Tr14 (02) (2)	483.0 Secs (992 Secs) [==>496.0 Secs (Pattern 1)] [==>496.0 Secs (Pattern 2)]	[1]
	2	(31) NGC3372-TR1 4	(31) NGC3372-TR1 4	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,-193.63	Pattern 2, Exps 2-3 in Tr14 (02) (2) Prime + Parallel Group 2-3 in Pattern 2, Exps 2-3 in Tr14 (02)	483.0 Secs (992 Secs) [==>496.0 Secs (Pattern 1)] [==>496.0 Secs (Pattern 2)]	[1]
	3	(32) NGC3372-TR1 4-ALT	(32) NGC3372-TR1 4-ALT	WFC3/UVIS, ACCUM, UVIS	F656N	FLASH=16		Pattern 2, Exps 2-3 in Tr14 (02) (2) Prime + Parallel Group 2-3 in Pattern 2, Exps 2-3 in Tr14 (02)	483.0 Secs (966 Secs) [==>483.0 Secs (Pattern 1)] [==>483.0 Secs (Pattern 2)]	[1]
	4	(31) NGC3372-TR1 4	(31) NGC3372-TR1 4	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,94.316	Pattern 2, Exps 4-4 in Tr14 (02) (2)	483.0 Secs (998 Secs) [==>499.0 Secs (Pattern 1)] [==>499.0 Secs (Pattern 2)]	[2]
	5	(31) NGC3372-TR1 4	(31) NGC3372-TR1 4	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,99.316	Pattern 2, Exps 5-6 in Tr14 (02) (2) Prime + Parallel Group 5-6 in Pattern 2, Exps 5-6 in Tr14 (02)	493.0 Secs (1018 Secs) [==>509.0 Secs (Pattern 1)] [==>509.0 Secs (Pattern 2)]	[2]
	6	(32) NGC3372-TR1 4-ALT	(32) NGC3372-TR1 4-ALT	WFC3/UVIS, ACCUM, UVIS	F656N	FLASH=16		Pattern 2, Exps 5-6 in Tr14 (02) (2) Prime + Parallel Group 5-6 in Pattern 2, Exps 5-6 in Tr14 (02)	483.0 Secs (976 Secs) [==>493.0 Secs (Pattern 1)] [==>483.0 Secs (Pattern 2)]	[2]
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	8	(31) NGC3372-TR1 4	(31) NGC3372-TR1 4	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,290.448	Pattern 2, Exps 8-9 in Tr14 (02) (2) Prime + Parallel Group 8-9 in Pattern 2, Exps 8-9 in Tr14 (02)	495.0 Secs (1022 Secs) [==>511.0 Secs (Pattern 1)] [==>511.0 Secs (Pattern 2)]	[3]
	9	(32) NGC3372-TR1 4-ALT	(32) NGC3372-TR1 4-ALT	WFC3/UVIS, ACCUM, UVIS	F656N	FLASH=16		Pattern 2, Exps 8-9 in Tr14 (02) (2) Prime + Parallel Group 8-9 in Pattern 2, Exps 8-9 in Tr14 (02)	483.0 Secs (976 Secs) [==>493.0 Secs (Pattern 1)] [==>483.0 Secs (Pattern 2)]	[3]

Orbit 1

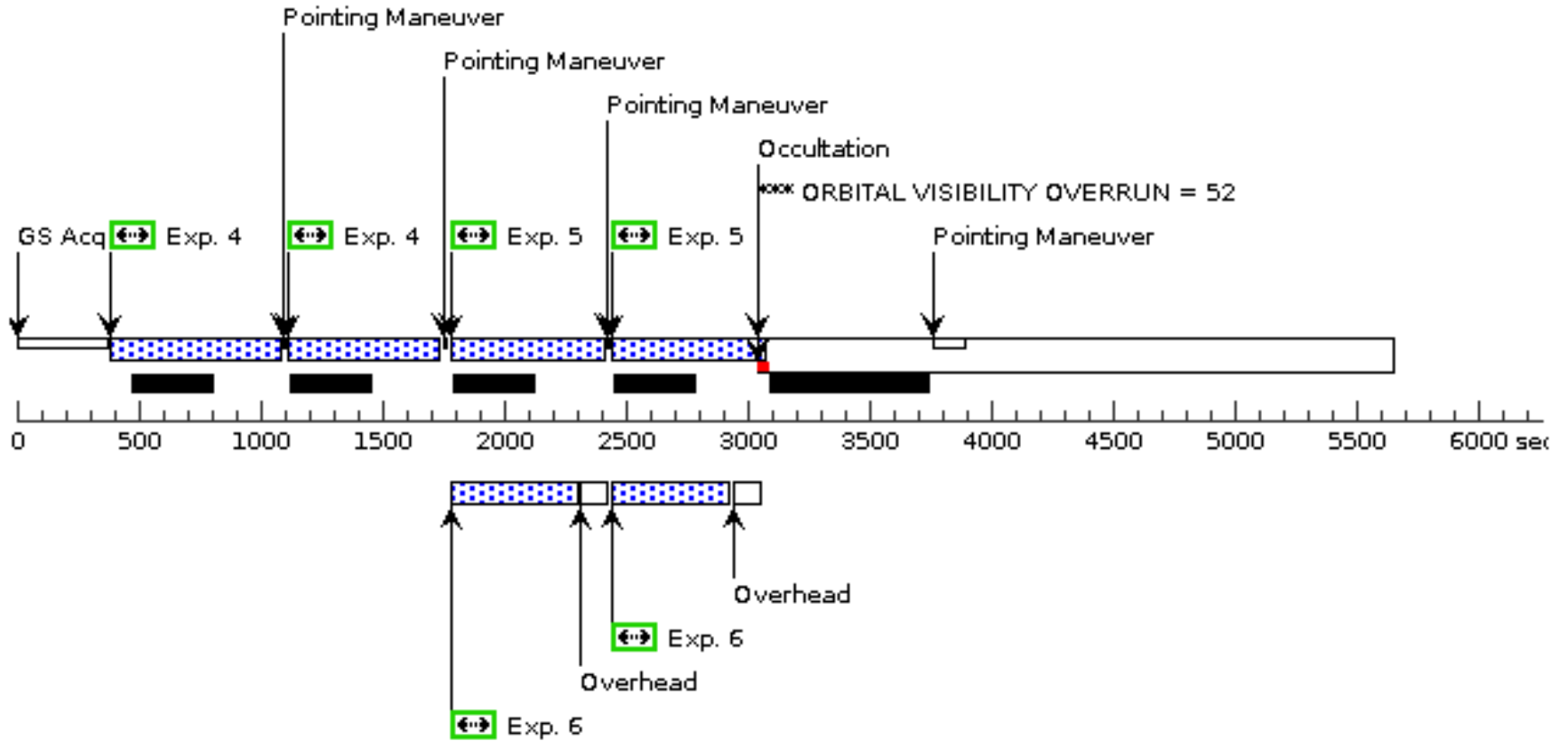
Server Version: 20250624

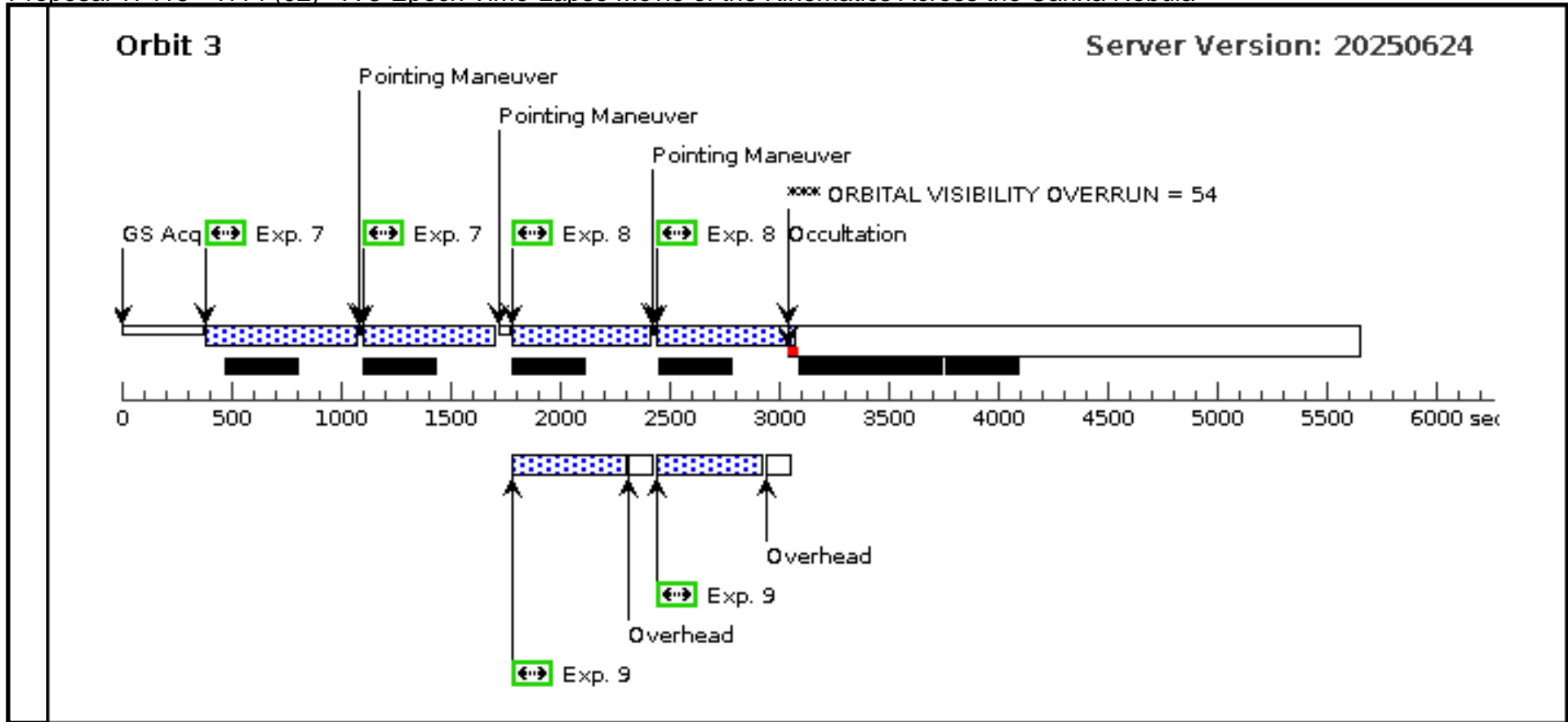


Orbit Structure

Orbit 2

Server Version: 20250624





Proposal 17419 - Tr14 (03) - A 3-Epoch Time-Lapse Movie of the Kinematics Across the Carina Nebula

Wed Sep 17 18:00:35 GMT 2025

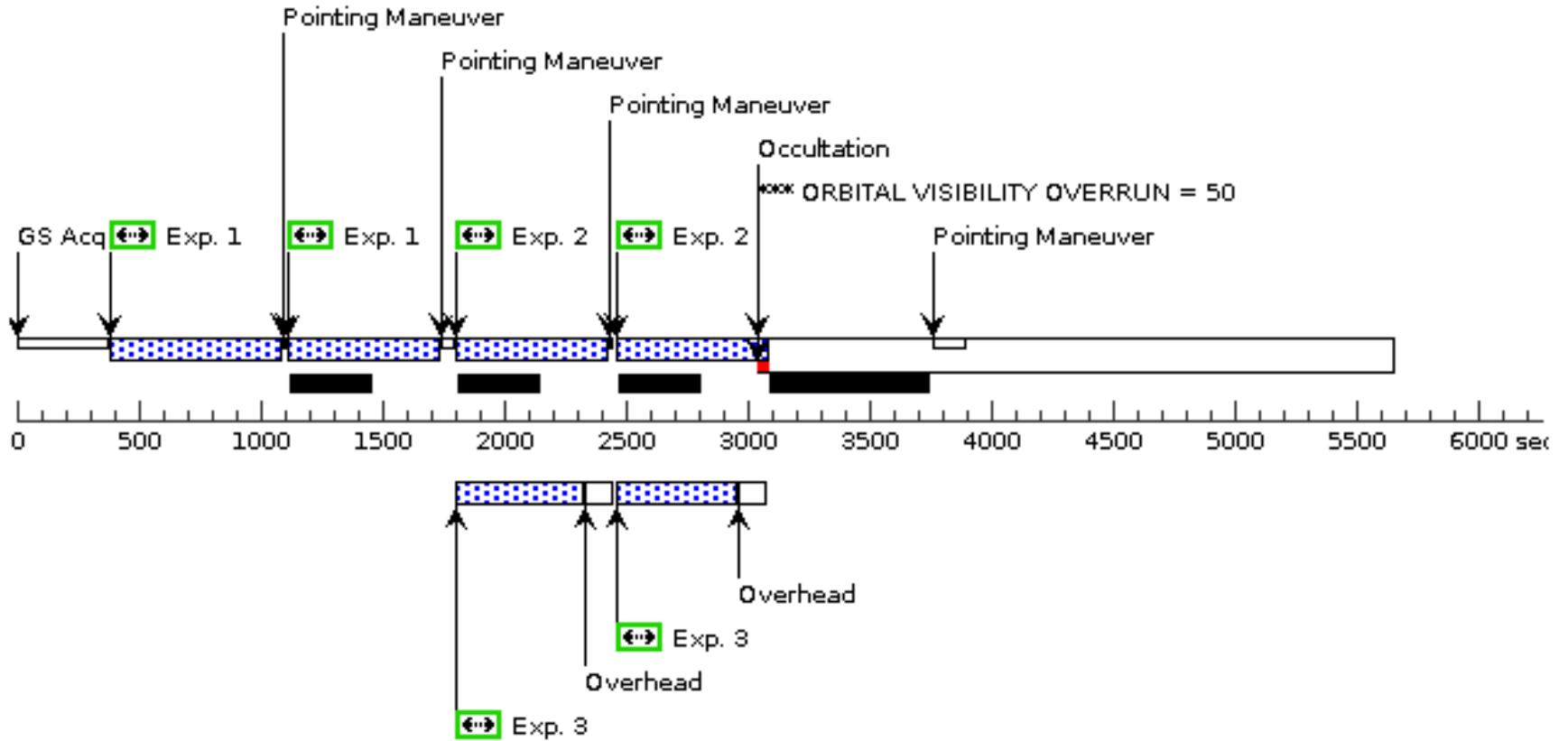
<b>Visit</b>	<b>Proposal 17419, Tr14 (03), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 01																					
	(Tr14 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Tr14 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Tr14 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Tr14 (03)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr14 (03)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr14 (03)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr14 (03)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr14 (03)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr14 (03)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE																					
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(2)	Pattern Type=ACS-WFC-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false		(1), (2-3), (4), (5-6), (7), (8-9)																			
<b>Fixed Targets</b>	<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>(31)</td> <td>NGC3372-TR14</td> <td>                     RA: 10 44 0.0000 (161.0000000d)                      Dec: -59 32 48.00 (-59.54667d)                      Equinox: J2000                      Comments: Open cluster. Reference point for large mosaic.                      Category=ISM                      Description=[HII REGION]                 </td> <td></td> <td>V=8.0</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td>(32)</td> <td>NGC3372-TR14-ALT</td> <td>                     RA: 10 44 6.0000 (161.0250000d)                      Dec: -59 28 1.00 (-59.46694d)                      Equinox: J2000                      Comments: Open cluster. Reference point for large mosaic.                      Category=ISM                      Description=[HII REGION]                 </td> <td></td> <td>V=8.0</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(31)	NGC3372-TR14	RA: 10 44 0.0000 (161.0000000d) Dec: -59 32 48.00 (-59.54667d) Equinox: J2000 Comments: Open cluster. Reference point for large mosaic. Category=ISM Description=[HII REGION]		V=8.0	Reference Frame: ICRS	(32)	NGC3372-TR14-ALT	RA: 10 44 6.0000 (161.0250000d) Dec: -59 28 1.00 (-59.46694d) Equinox: J2000 Comments: Open cluster. Reference point for large mosaic. Category=ISM Description=[HII REGION]		V=8.0	Reference Frame: ICRS			
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																
(31)	NGC3372-TR14	RA: 10 44 0.0000 (161.0000000d) Dec: -59 32 48.00 (-59.54667d) Equinox: J2000 Comments: Open cluster. Reference point for large mosaic. Category=ISM Description=[HII REGION]		V=8.0	Reference Frame: ICRS																	
(32)	NGC3372-TR14-ALT	RA: 10 44 6.0000 (161.0250000d) Dec: -59 28 1.00 (-59.46694d) Equinox: J2000 Comments: Open cluster. Reference point for large mosaic. Category=ISM Description=[HII REGION]		V=8.0	Reference Frame: ICRS																	

Proposal 17419 - Tr14 (03) - A 3-Epoch Time-Lapse Movie of the Kinematics Across the Carina Nebula

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(31) NGC3372-TR14	(31) NGC3372-TR14	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.994,-96.816	Pattern 2, Exps 1-1 in Tr14 (03) (2)	490.0 Secs (986 Secs) [==>493.0 Secs (Pattern 1)] [==>493.0 Secs (Pattern 2)]	[1]
	2	(31) NGC3372-TR14	(31) NGC3372-TR14	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.994,-193.63	Pattern 2, Exps 2-3 in Tr14 (03) (2) Prime + Parallel Group 2-3 in Pattern 2, Exps 2-3 in Tr14 (03)	490.0 Secs (986 Secs) [==>493.0 Secs (Pattern 1)] [==>493.0 Secs (Pattern 2)]	[1]
	3	(32) NGC3372-TR14-ALT	(32) NGC3372-TR14-ALT	WFC3/UVIS, ACCUM, UVIS	F280N	FLASH=16		Pattern 2, Exps 2-3 in Tr14 (03) (2) Prime + Parallel Group 2-3 in Pattern 2, Exps 2-3 in Tr14 (03)	490 Secs (980 Secs) [==>490.0 Secs (Pattern 1)] [==>(Pattern 2)]	[1]
	4	(31) NGC3372-TR14	(31) NGC3372-TR14	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.994,94.316	Pattern 2, Exps 4-4 in Tr14 (03) (2)	490.0 Secs (1020 Secs) [==>510.0 Secs (Pattern 1)] [==>510.0 Secs (Pattern 2)]	[2]
	5	(31) NGC3372-TR14	(31) NGC3372-TR14	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.994,99.316	Pattern 2, Exps 5-6 in Tr14 (03) (2) Prime + Parallel Group 5-6 in Pattern 2, Exps 5-6 in Tr14 (03)	490.0 Secs (992 Secs) [==>496.0 Secs (Pattern 1)] [==>496.0 Secs (Pattern 2)]	[2]
	6	(32) NGC3372-TR14-ALT	(32) NGC3372-TR14-ALT	WFC3/UVIS, ACCUM, UVIS	F280N	FLASH=16		Pattern 2, Exps 5-6 in Tr14 (03) (2) Prime + Parallel Group 5-6 in Pattern 2, Exps 5-6 in Tr14 (03)	483.0 Secs (966 Secs) [==>483.0 Secs (Pattern 1)] [==>483.0 Secs (Pattern 2)]	[2]
	7	(31) NGC3372-TR14	(31) NGC3372-TR14	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.994,290.448	Pattern 2, Exps 7-7 in Tr14 (03) (2)	490.0 Secs (1022 Secs) [==>511.0 Secs (Pattern 1)] [==>511.0 Secs (Pattern 2)]	[3]
	8	(31) NGC3372-TR14	(31) NGC3372-TR14	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.994,387.264	Pattern 2, Exps 8-9 in Tr14 (03) (2) Prime + Parallel Group 8-9 in Pattern 2, Exps 8-9 in Tr14 (03)	460.0 Secs (920 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[3]
	9	(32) NGC3372-TR14-ALT	(32) NGC3372-TR14-ALT	WFC3/UVIS, ACCUM, UVIS	F502N	FLASH=16		Pattern 2, Exps 8-9 in Tr14 (03) (2) Prime + Parallel Group 8-9 in Pattern 2, Exps 8-9 in Tr14 (03)	483.0 Secs (966 Secs) [==>483.0 Secs (Pattern 1)] [==>483.0 Secs (Pattern 2)]	[3]

Orbit 1

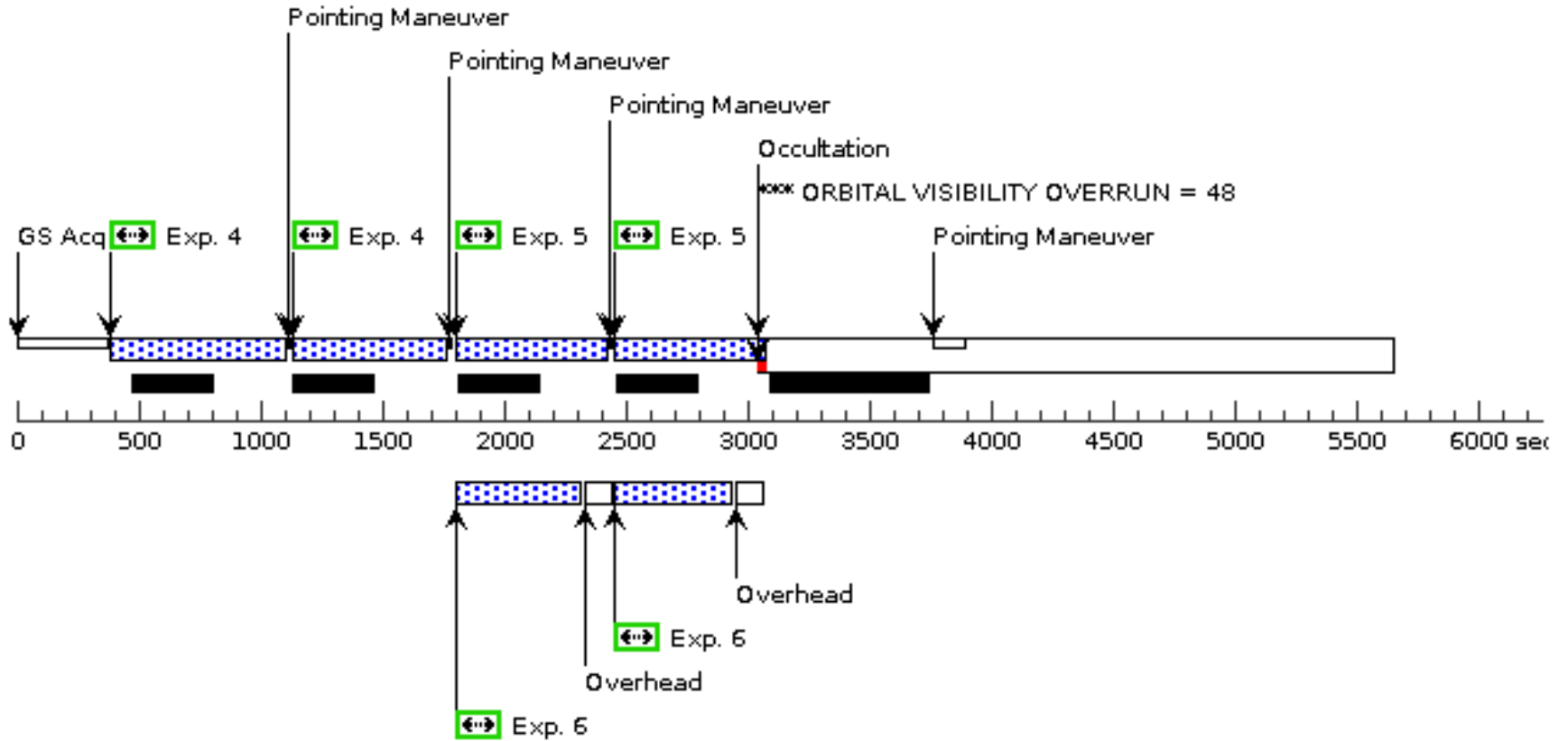
Server Version: 20250624

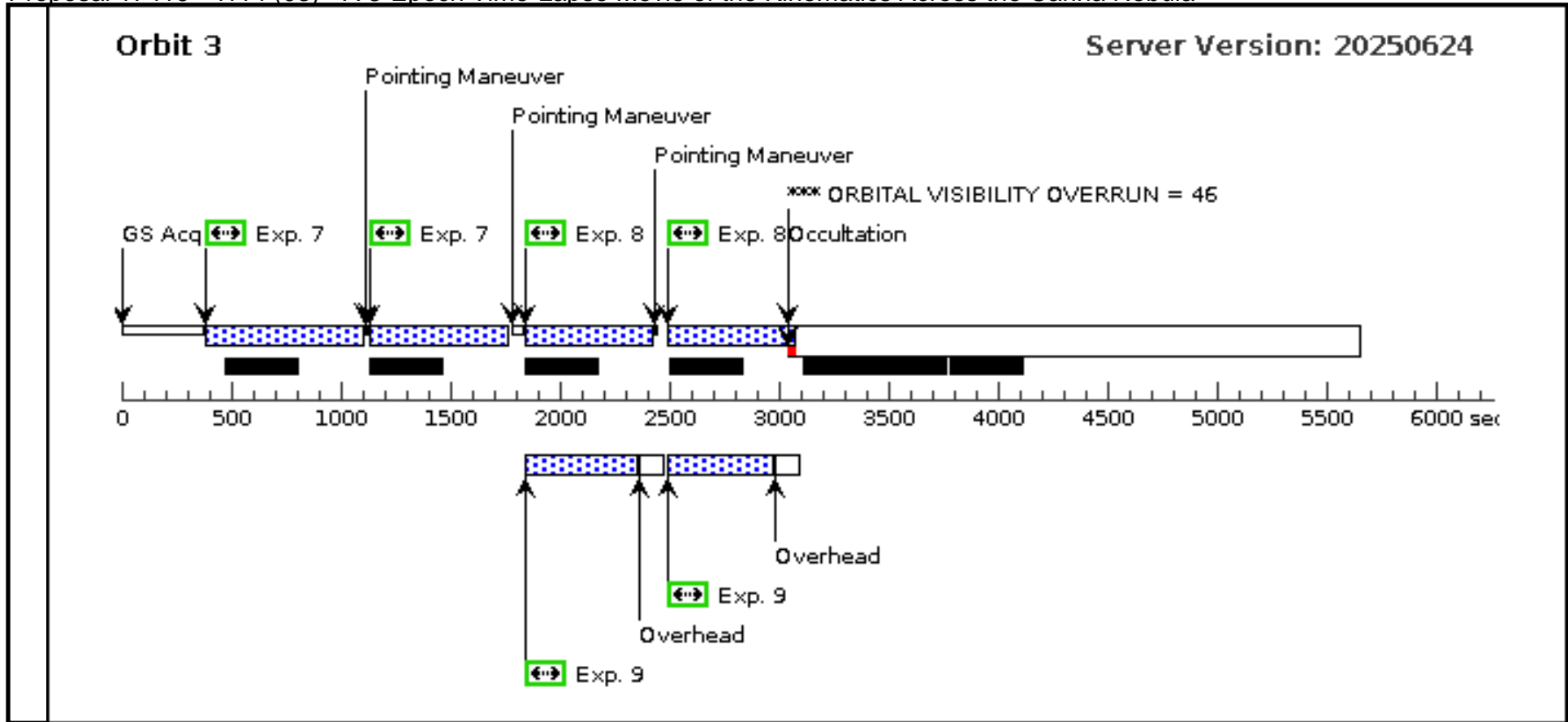


Orbit Structure

Orbit 2

Server Version: 20250624





Proposal 17419 - Tr14 (04) - A 3-Epoch Time-Lapse Movie of the Kinematics Across the Carina Nebula

Wed Sep 17 18:00:35 GMT 2025

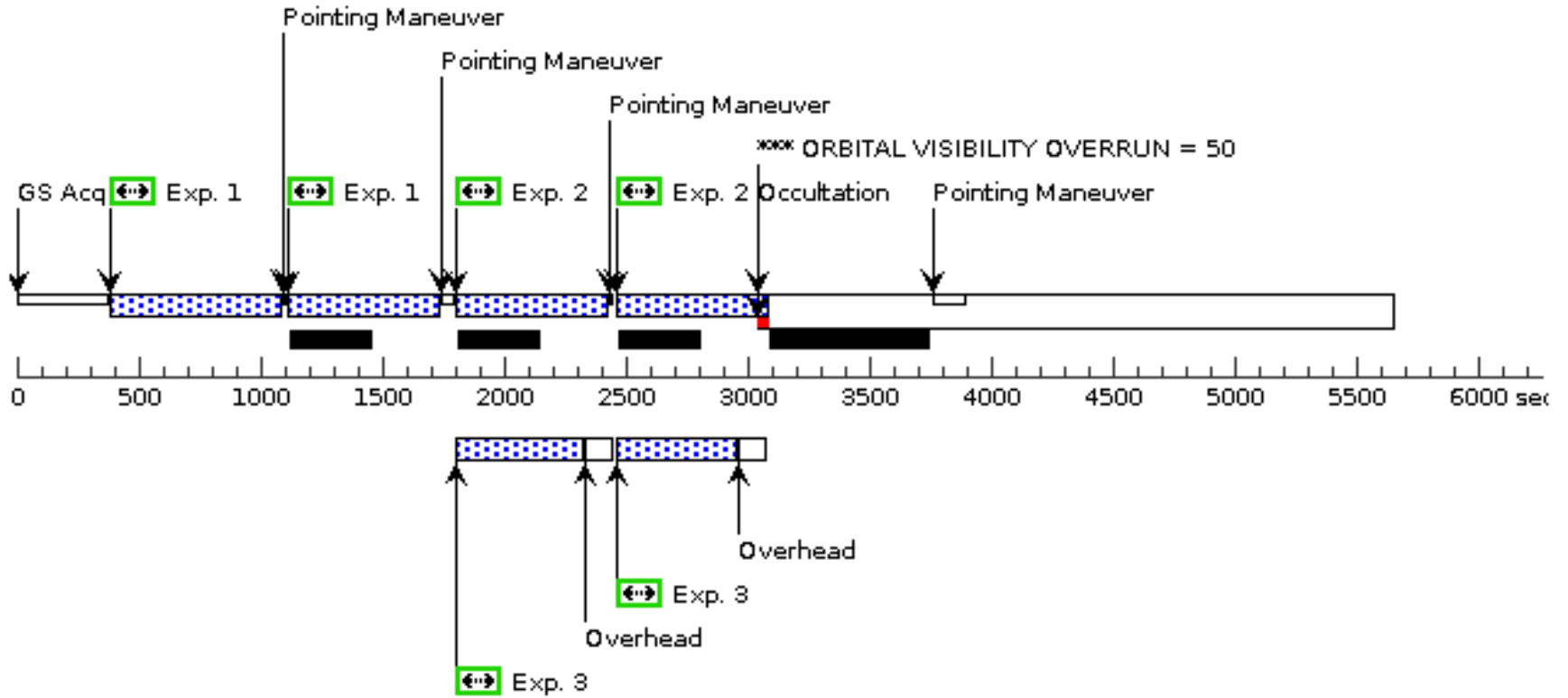
<b>Visit</b>	<b>Proposal 17419, Tr14 (04), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 01					
	(Tr14 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Tr14 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Tr14 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Tr14 (04)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr14 (04)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr14 (04)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr14 (04)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr14 (04)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr14 (04)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE					
<b>Diagnosics</b>						
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>		
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false		(1), (2-3), (4), (5-6), (7)		
	(3)	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		(8-9)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(31)	NGC3372-TR14	RA: 10 44 0.0000 (161.0000000d) Dec: -59 32 48.00 (-59.54667d) Equinox: J2000 Comments: Open cluster. Reference point for large mosaic. Category=ISM Description=[HII REGION]		V=8.0	Reference Frame: ICRS
	(32)	NGC3372-TR14-ALT	RA: 10 44 6.0000 (161.0250000d) Dec: -59 28 1.00 (-59.46694d) Equinox: J2000 Comments: Open cluster. Reference point for large mosaic. Category=ISM Description=[HII REGION]		V=8.0	Reference Frame: ICRS

Proposal 17419 - Tr14 (04) - A 3-Epoch Time-Lapse Movie of the Kinematics Across the Carina Nebula

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	(31) NGC3372-TR1 4	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -385.98 8,-96.816	Pattern 2, Exps 1-1 i n Tr14 (04) (2)	433.0 Secs (986 Secs) [==>493.0 Secs (Pattern 1)] [==>493.0 Secs (Pattern 2)]	[1]	
	2	(31) NGC3372-TR1 4	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -385.98 8,-193.63	Pattern 2, Exps 2-3 i n Tr14 (04) (2)  Prime + Parallel Gro up 2-3 in Pattern 2, E xps 2-3 in Tr14 (04)	433.0 Secs (986 Secs) [==>493.0 Secs (Pattern 1)] [==>493.0 Secs (Pattern 2)]	[1]	
	3	(32) NGC3372-TR1 4-ALT	WFC3/UVIS, ACCUM, UVIS	F280N	FLASH=16		Pattern 2, Exps 2-3 i n Tr14 (04) (2)  Prime + Parallel Gro up 2-3 in Pattern 2, E xps 2-3 in Tr14 (04)	490 Secs (980 Secs) [==>490.0 Secs (Pattern 1)] [==>(Pattern 2)]	[1]	
	4	(31) NGC3372-TR1 4	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -385.98 8,94.316	Pattern 2, Exps 4-4 i n Tr14 (04) (2)	433.0 Secs (1008 Secs) [==>504.0 Secs (Pattern 1)] [==>504.0 Secs (Pattern 2)]	[2]	
	5	(31) NGC3372-TR1 4	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -385.98 8,99.316	Pattern 2, Exps 5-6 i n Tr14 (04) (2)  Prime + Parallel Gro up 5-6 in Pattern 2, E xps 5-6 in Tr14 (04)	433.0 Secs (1008 Secs) [==>504.0 Secs (Pattern 1)] [==>504.0 Secs (Pattern 2)]	[2]	
	6	(32) NGC3372-TR1 4-ALT	WFC3/UVIS, ACCUM, UVIS	F280N	FLASH=16		Pattern 2, Exps 5-6 i n Tr14 (04) (2)  Prime + Parallel Gro up 5-6 in Pattern 2, E xps 5-6 in Tr14 (04)	433.0 Secs (978 Secs) [==>473.0 Secs (Pattern 1)] [==>505.0 Secs (Pattern 2)]	[2]	
	<i>Comments: see visit 1 exposure 6 comments</i>									
	7	(31) NGC3372-TR1 4	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -385.98 8,387.264	Pattern 2, Exps 7-7 i n Tr14 (04) (2)	403.0 Secs (960 Secs) [==>480.0 Secs (Pattern 1)] [==>480.0 Secs (Pattern 2)]	[3]	
	8	(31) NGC3372-TR1 4	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -385.98 8,290.448	Pattern 3, Exps 8-9 i n Tr14 (04) (3)  Prime + Parallel Gro up 8-9 in Pattern 3, E xps 8-9 in Tr14 (04)	433.0 Secs (1020 Secs) [==>510.0 Secs (Pattern 1)] [==>510.0 Secs (Pattern 2)]	[3]	
9	(32) NGC3372-TR1 4-ALT	WFC3/UVIS, ACCUM, UVIS	F280N	FLASH=16		Pattern 3, Exps 8-9 i n Tr14 (04) (3)  Prime + Parallel Gro up 8-9 in Pattern 3, E xps 8-9 in Tr14 (04)	433.0 Secs (1022 Secs) [==>500.0 Secs (Pattern 1)] [==>522.0 Secs (Pattern 2)]	[3]		
<i>Comments: see visit 1 exposure 6 comments</i>										

**Orbit 1**

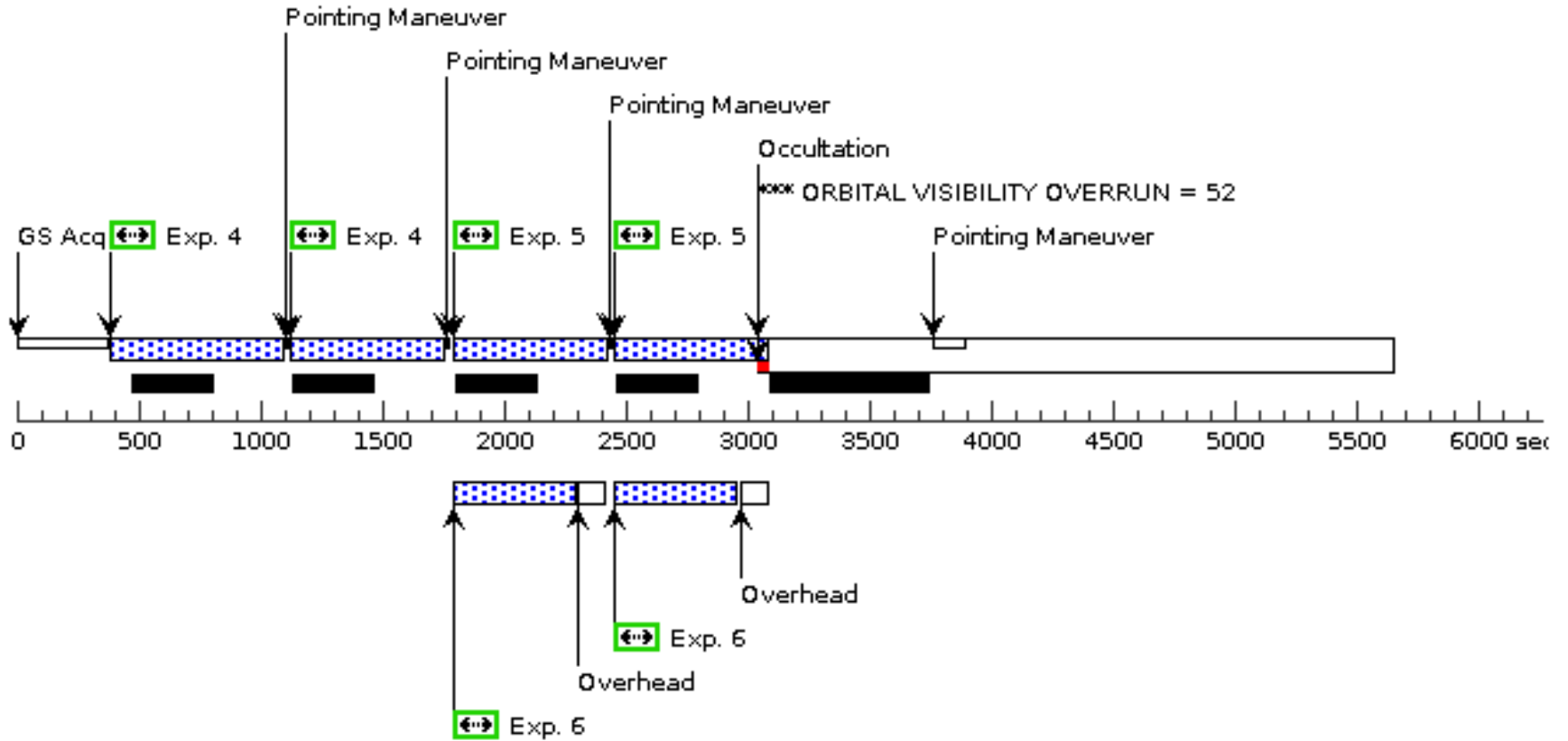
Server Version: 20250624

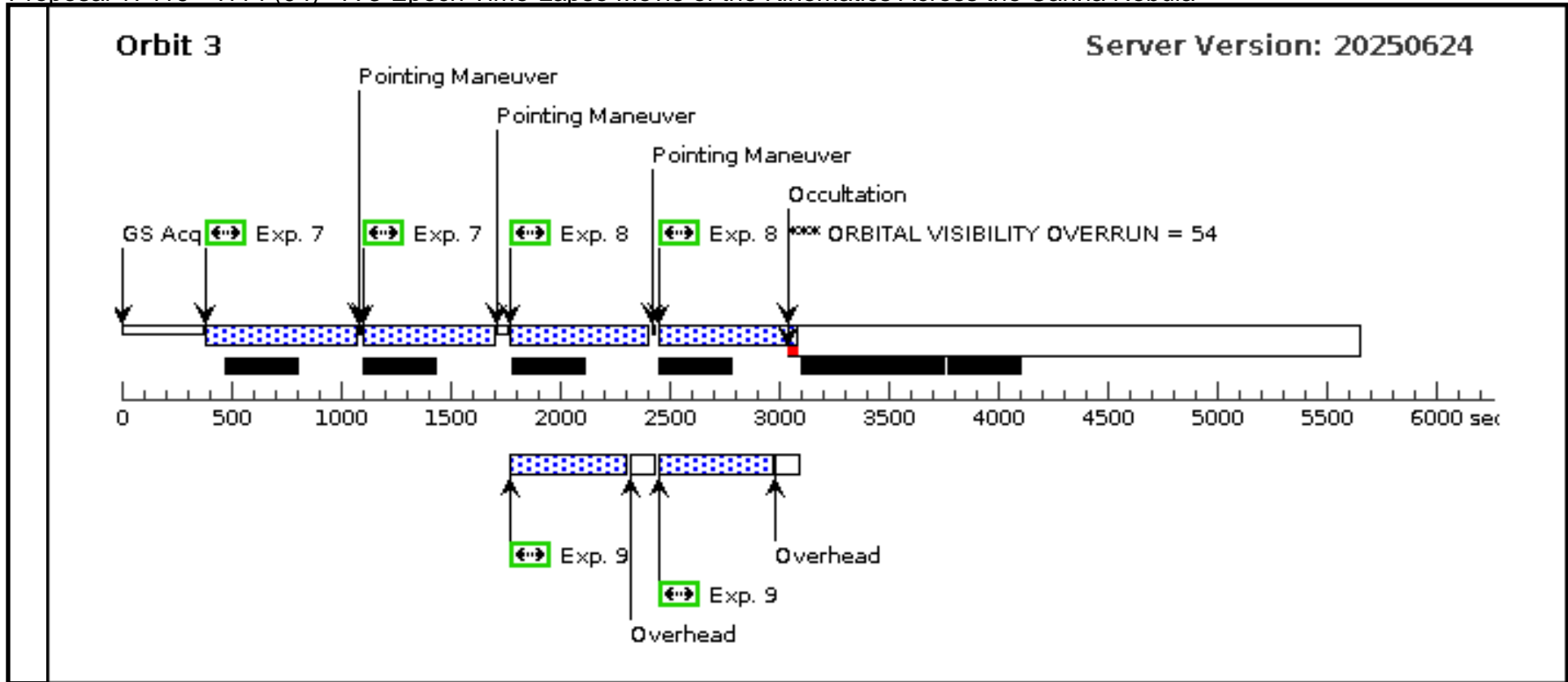


Orbit Structure

**Orbit 2**

Server Version: 20250624





Proposal 17419 - Tr16 (05) - A 3-Epoch Time-Lapse Movie of the Kinematics Across the Carina Nebula

Wed Sep 17 18:00:35 GMT 2025

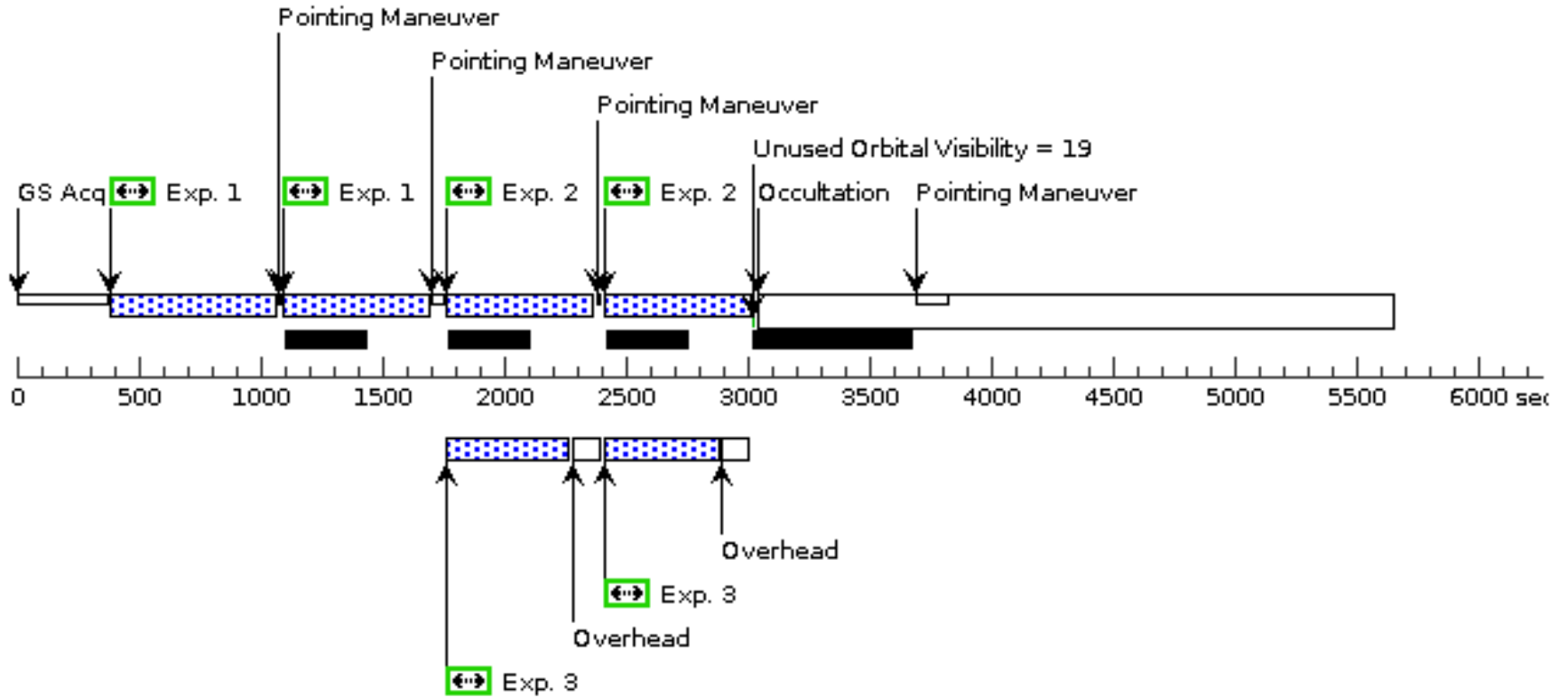
<b>Visit</b>	<b>Proposal 17419, Tr16 (05), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: ORIENT 148.5D TO 153.0 D; GROUP 05,06,07,08 WITHIN 30D														
	<b>Diagnosics</b> (Tr16 (05)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr16 (05)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr16 (05)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr16 (05)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr16 (05)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr16 (05)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE														
<b>Patterns</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Primary Pattern</th> <th>Secondary Pattern</th> <th>Exposures</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>                     Pattern Type=ACS-WFC-DITHER-                      LINE                      Purpose=DITHER                      Number Of Points=2                      Point Spacing=0.146                      Line Spacing=                 </td> <td>                     Coordinate Frame=POS-TARG                      Pattern Orientation=47.17                      Angle Between Sides=                      Center Pattern=false                 </td> <td>(1), (2-3), (4), (5-6), (7), (8-9)</td> </tr> </tbody> </table>	#	Primary Pattern	Secondary Pattern	Exposures	(2)	Pattern Type=ACS-WFC-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false	(1), (2-3), (4), (5-6), (7), (8-9)						
	#	Primary Pattern	Secondary Pattern	Exposures											
(2)	Pattern Type=ACS-WFC-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false	(1), (2-3), (4), (5-6), (7), (8-9)												
<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>(33)</td> <td>NGC3372-TR16</td> <td>                     RA: 10 44 57.5000 (161.2395833d)                      Dec: -59 43 30.00 (-59.72500d)                      Equinox: J2000                 </td> <td></td> <td>V=8.0</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p> <i>Comments: Open cluster. Reference point for large mosaic.</i>                      Category=ISM                      Description=[HII REGION]                 </p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(33)	NGC3372-TR16	RA: 10 44 57.5000 (161.2395833d) Dec: -59 43 30.00 (-59.72500d) Equinox: J2000		V=8.0	Reference Frame: ICRS			
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous										
(33)	NGC3372-TR16	RA: 10 44 57.5000 (161.2395833d) Dec: -59 43 30.00 (-59.72500d) Equinox: J2000		V=8.0	Reference Frame: ICRS										

Proposal 17419 - Tr16 (05) - A 3-Epoch Time-Lapse Movie of the Kinematics Across the Carina Nebula

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(33) NGC3372-TR16	(33) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, -193.63	Pattern 2, Exps 1-1 in Tr16 (05) (2)	475.0 Secs (950 Secs)	[1]
									[==>(Pattern 1)]	
									[==>(Pattern 2)]	
	2	(33) NGC3372-TR16	(33) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, -96.816	Pattern 2, Exps 2-3 in Tr16 (05) (2) Prime + Parallel Group 2-3 in Pattern 2, Exps 2-3 in Tr16 (05)	475.0 Secs (950 Secs)	[1]
									[==>(Pattern 1)]	
									[==>(Pattern 2)]	
	3	(33) NGC3372-TR16	(33) NGC3372-TR16	WFC3/UVIS, ACCUM, UVIS	F656N	FLASH=16		Pattern 2, Exps 2-3 in Tr16 (05) (2) Prime + Parallel Group 2-3 in Pattern 2, Exps 2-3 in Tr16 (05)	475.0 Secs (950 Secs)	[1]
									[==>(Pattern 1)]	
									[==>(Pattern 2)]	
4	(33) NGC3372-TR16	(33) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, 94.316	Pattern 2, Exps 4-4 in Tr16 (05) (2)	480.0 Secs (960 Secs)	[2]	
								[==>(Pattern 1)]		
								[==>(Pattern 2)]		
5	(33) NGC3372-TR16	(33) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, 99.3126	Pattern 2, Exps 5-6 in Tr16 (05) (2) Prime + Parallel Group 5-6 in Pattern 2, Exps 5-6 in Tr16 (05)	480.0 Secs (960 Secs)	[2]	
								[==>(Pattern 1)]		
								[==>(Pattern 2)]		
6	(33) NGC3372-TR16	(33) NGC3372-TR16	WFC3/UVIS, ACCUM, UVIS	F656N	FLASH=16		Pattern 2, Exps 5-6 in Tr16 (05) (2) Prime + Parallel Group 5-6 in Pattern 2, Exps 5-6 in Tr16 (05)	480.0 Secs (960 Secs)	[2]	
								[==>(Pattern 1)]		
								[==>(Pattern 2)]		
7	(33) NGC3372-TR16	(33) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, 290.448	Pattern 2, Exps 7-7 in Tr16 (05) (2)	475.0 Secs (950 Secs)	[3]	
								[==>(Pattern 1)]		
								[==>(Pattern 2)]		
8	(33) NGC3372-TR16	(33) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, 387.264	Pattern 2, Exps 8-9 in Tr16 (05) (2) Prime + Parallel Group 8-9 in Pattern 2, Exps 8-9 in Tr16 (05)	475.0 Secs (950 Secs)	[3]	
								[==>(Pattern 1)]		
								[==>(Pattern 2)]		
9	(33) NGC3372-TR16	(33) NGC3372-TR16	WFC3/UVIS, ACCUM, UVIS	F656N	FLASH=16		Pattern 2, Exps 8-9 in Tr16 (05) (2) Prime + Parallel Group 8-9 in Pattern 2, Exps 8-9 in Tr16 (05)	475.0 Secs (950 Secs)	[3]	
								[==>(Pattern 1)]		
								[==>(Pattern 2)]		

**Orbit 1**

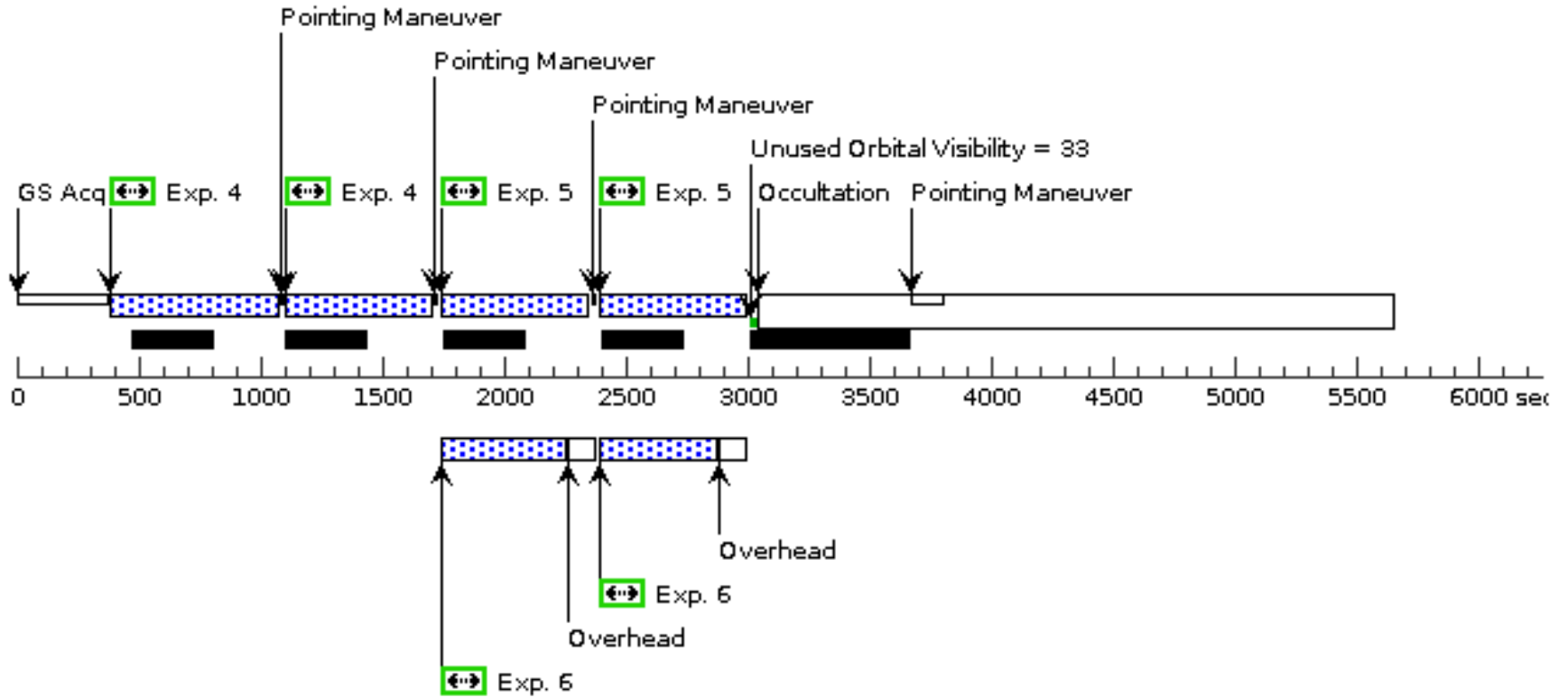
Server Version: 20250624

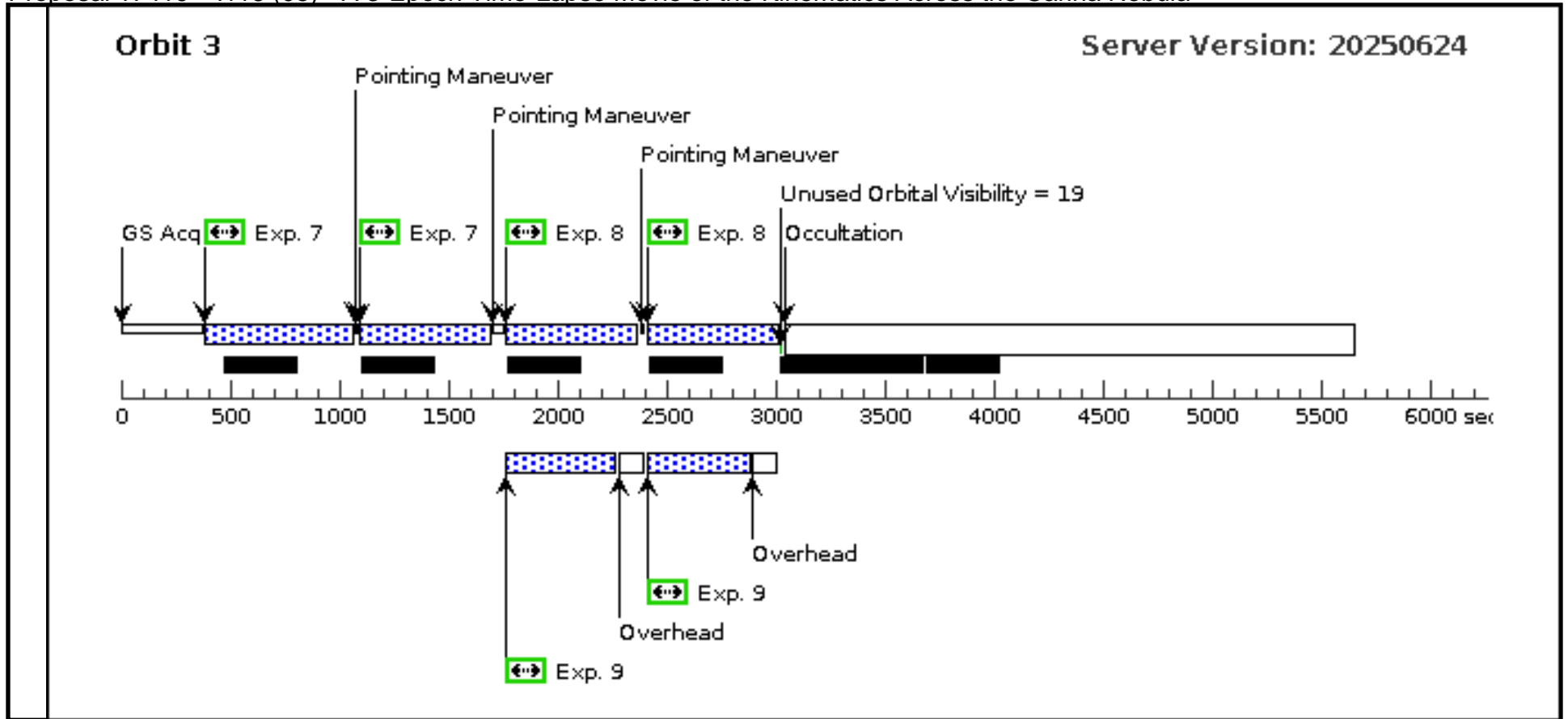


Orbit Structure

Orbit 2

Server Version: 20250624





Proposal 17419 - Tr16 (06) - A 3-Epoch Time-Lapse Movie of the Kinematics Across the Carina Nebula

Wed Sep 17 18:00:35 GMT 2025

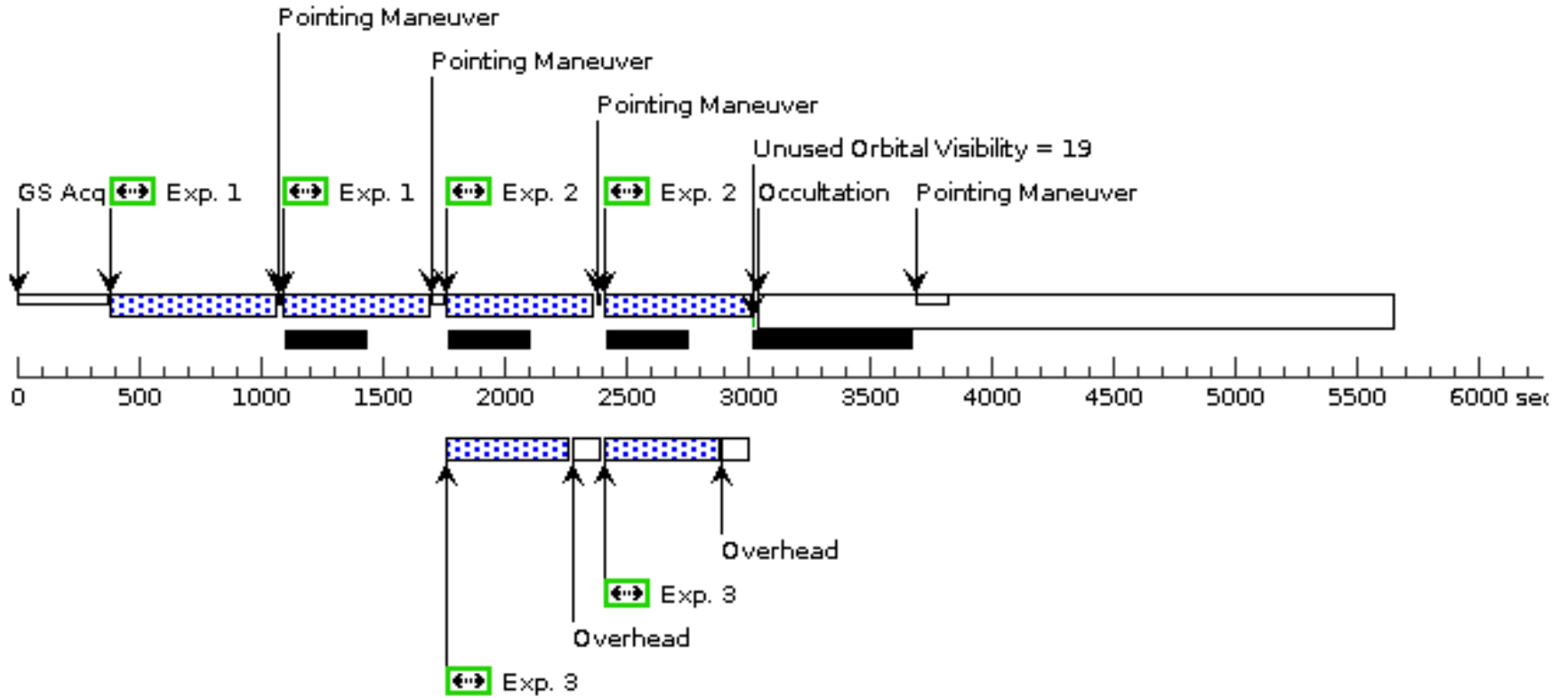
<b>Visit</b>	<b>Proposal 17419, Tr16 (06), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: ORIENT -1.5D TO 1.5D FROM 05					
	<b>Diagnosics</b> (Tr16 (06)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr16 (06)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr16 (06)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr16 (06)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE					
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>		
	(2)	Pattern Type=ACS-WFC-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false	(1), (2-3), (4), (5-6), (7), (8-9)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(33)	NGC3372-TR16	RA: 10 44 57.5000 (161.2395833d) Dec: -59 43 30.00 (-59.72500d) Equinox: J2000		V=8.0	Reference Frame: ICRS
Comments: Open cluster. Reference point for large mosaic. Category=ISM Description=[HII REGION]						

Proposal 17419 - Tr16 (06) - A 3-Epoch Time-Lapse Movie of the Kinematics Across the Carina Nebula

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(33) NGC3372-TR1 6	(33) NGC3372-TR1 6	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,-96.816	Pattern 2, Exps 1-1 in Tr16 (06) (2)	475.0 Secs (950 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(33) NGC3372-TR1 6	(33) NGC3372-TR1 6	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,-193.63	Pattern 2, Exps 2-3 in Tr16 (06) (2) Prime + Parallel Group 2-3 in Pattern 2, Exps 2-3 in Tr16 (06)	475.0 Secs (950 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(33) NGC3372-TR1 6	(33) NGC3372-TR1 6	WFC3/UVIS, ACCUM, UVIS	F656N	FLASH=16		Pattern 2, Exps 2-3 in Tr16 (06) (2) Prime + Parallel Group 2-3 in Pattern 2, Exps 2-3 in Tr16 (06)	475.0 Secs (950 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	(33) NGC3372-TR1 6	(33) NGC3372-TR1 6	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,94.316	Pattern 2, Exps 4-4 in Tr16 (06) (2)	485.0 Secs (970 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[2]
	5	(33) NGC3372-TR1 6	(33) NGC3372-TR1 6	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,99.316	Pattern 2, Exps 5-6 in Tr16 (06) (2) Prime + Parallel Group 5-6 in Pattern 2, Exps 5-6 in Tr16 (06)	485.0 Secs (970 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[2]
	6	(33) NGC3372-TR1 6	(33) NGC3372-TR1 6	WFC3/UVIS, ACCUM, UVIS	F656N	FLASH=16		Pattern 2, Exps 5-6 in Tr16 (06) (2) Prime + Parallel Group 5-6 in Pattern 2, Exps 5-6 in Tr16 (06)	483.0 Secs (966 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[2]
	7	(33) NGC3372-TR1 6	(33) NGC3372-TR1 6	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,290.448	Pattern 2, Exps 7-7 in Tr16 (06) (2)	475.0 Secs (950 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[3]
	8	(33) NGC3372-TR1 6	(33) NGC3372-TR1 6	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,387.264	Pattern 2, Exps 8-9 in Tr16 (06) (2) Prime + Parallel Group 8-9 in Pattern 2, Exps 8-9 in Tr16 (06)	475.0 Secs (950 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[3]
	9	(33) NGC3372-TR1 6	(33) NGC3372-TR1 6	WFC3/UVIS, ACCUM, UVIS	F656N	FLASH=16		Pattern 2, Exps 8-9 in Tr16 (06) (2) Prime + Parallel Group 8-9 in Pattern 2, Exps 8-9 in Tr16 (06)	475.0 Secs (950 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[3]

**Orbit 1**

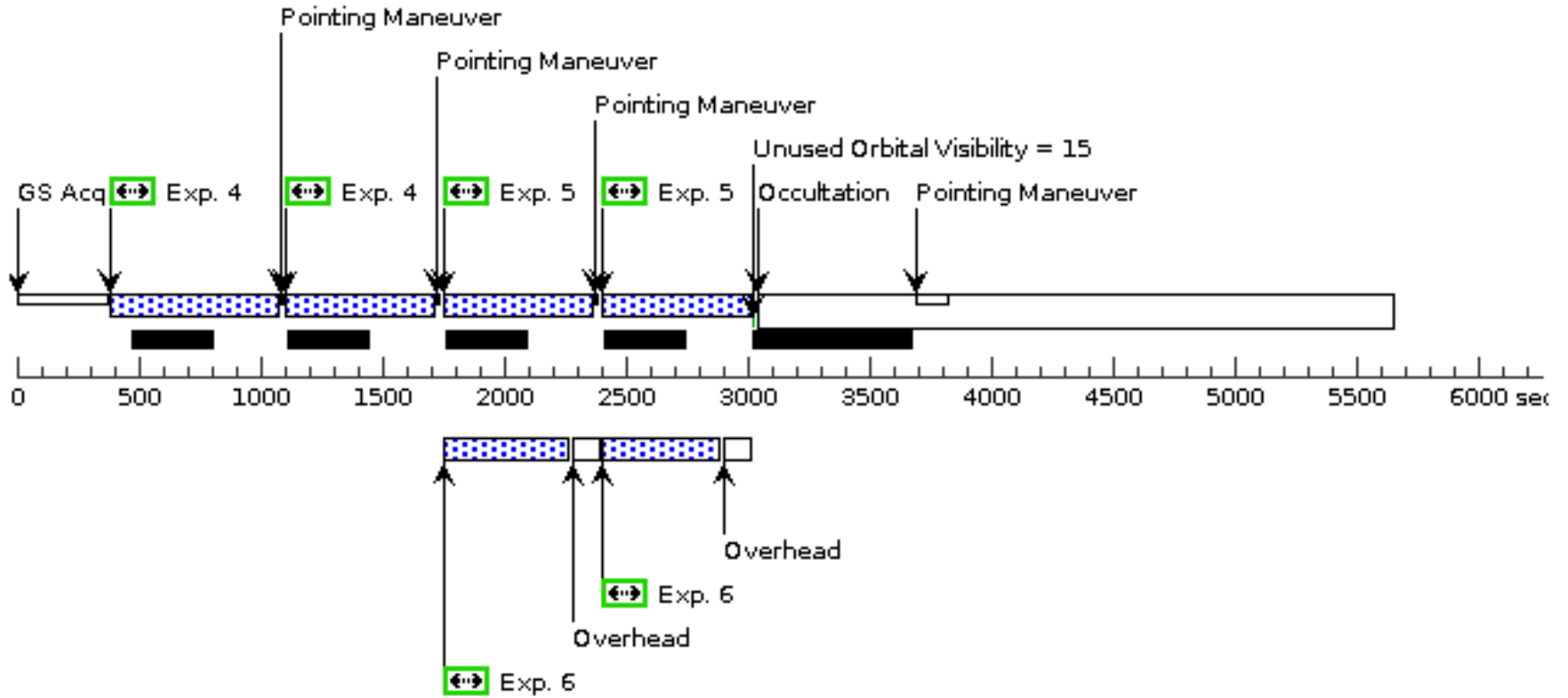
Server Version: 20250624

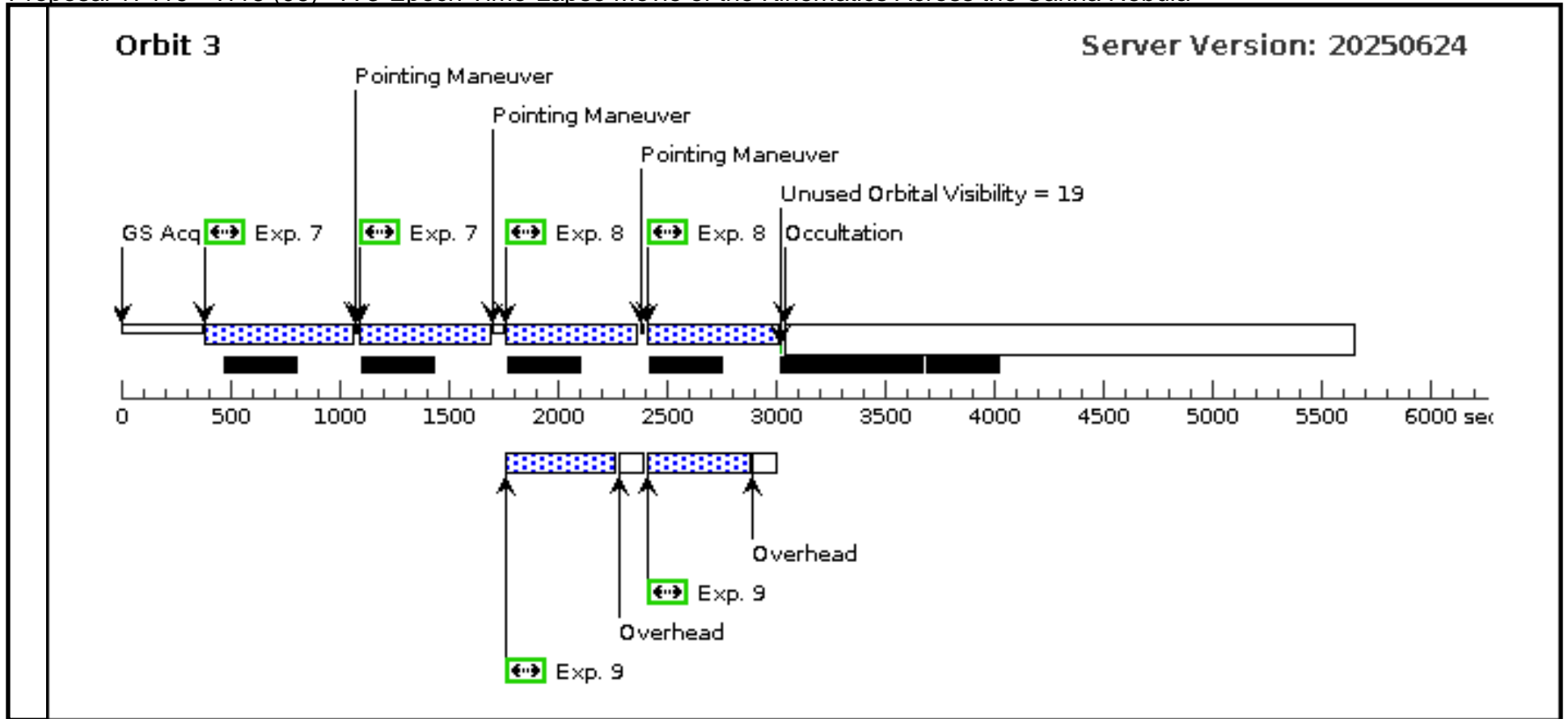


Orbit Structure

**Orbit 2**

Server Version: 20250624





Proposal 17419 - Tr16 (07) - A 3-Epoch Time-Lapse Movie of the Kinematics Across the Carina Nebula

Wed Sep 17 18:00:35 GMT 2025

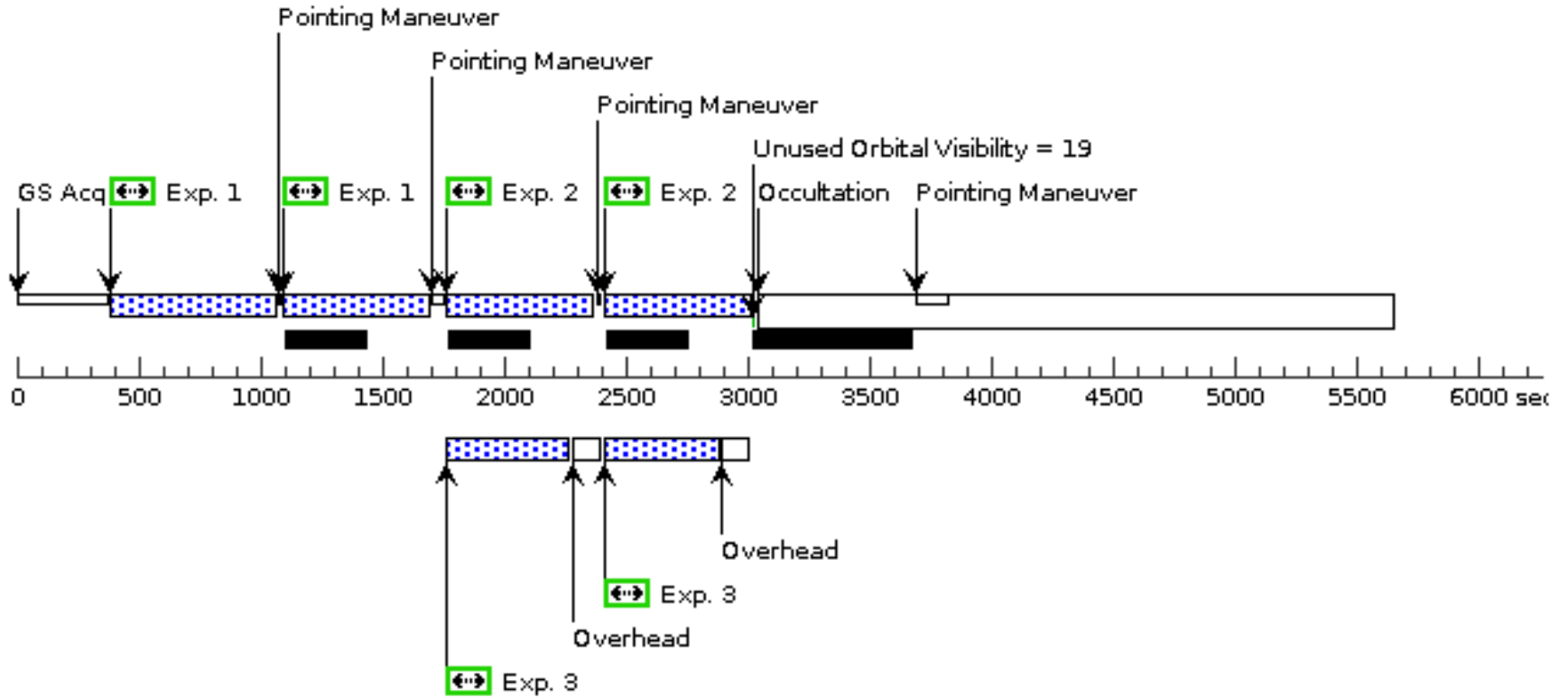
<b>Visit</b>	<b>Proposal 17419, Tr16 (07), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: ORIENT -1.5D TO 1.5D FROM 05															
	(Tr16 (07)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr16 (07)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr16 (07)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr16 (07)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr16 (07)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr16 (07)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE															
<b>Diagnosics</b>																
<b>Patterns</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Primary Pattern</th> <th>Secondary Pattern</th> <th>Exposures</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>                     Pattern Type=ACS-WFC-DITHER-                      LINE                      Purpose=DITHER                      Number Of Points=2                      Point Spacing=0.146                      Line Spacing=                 </td> <td>                     Coordinate Frame=POS-TARG                      Pattern Orientation=47.17                      Angle Between Sides=                      Center Pattern=false                 </td> <td>(1), (2-3), (4), (5-6), (7), (8-9)</td> </tr> </tbody> </table>	#	Primary Pattern	Secondary Pattern	Exposures	(2)	Pattern Type=ACS-WFC-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false	(1), (2-3), (4), (5-6), (7), (8-9)							
	#	Primary Pattern	Secondary Pattern	Exposures												
(2)	Pattern Type=ACS-WFC-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false	(1), (2-3), (4), (5-6), (7), (8-9)													
<b>Fixed Targets</b>	<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>(33)</td> <td>NGC3372-TR16</td> <td>                     RA: 10 44 57.5000 (161.2395833d)                      Dec: -59 43 30.00 (-59.72500d)                      Equinox: J2000                 </td> <td></td> <td>V=8.0</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(33)	NGC3372-TR16	RA: 10 44 57.5000 (161.2395833d) Dec: -59 43 30.00 (-59.72500d) Equinox: J2000		V=8.0	Reference Frame: ICRS			
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous										
(33)	NGC3372-TR16	RA: 10 44 57.5000 (161.2395833d) Dec: -59 43 30.00 (-59.72500d) Equinox: J2000		V=8.0	Reference Frame: ICRS											
Comments: Open cluster. Reference point for large mosaic. Category=ISM Description=[HII REGION]																

Proposal 17419 - Tr16 (07) - A 3-Epoch Time-Lapse Movie of the Kinematics Across the Carina Nebula

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(33) NGC3372-TR1 6	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.99 4,-96.816	Pattern 2, Exps 1-1 i n Tr16 (07) (2)	475.0 Secs (950 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2		(33) NGC3372-TR1 6	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.99 4,-193.63	Pattern 2, Exps 2-3 i n Tr16 (07) (2) Prime + Parallel Gro up 2-3 in Pattern 2, E xps 2-3 in Tr16 (07)	475.0 Secs (950 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3		(33) NGC3372-TR1 6	WFC3/UVIS, ACCUM, UVIS	F656N	FLASH=16		Pattern 2, Exps 2-3 i n Tr16 (07) (2) Prime + Parallel Gro up 2-3 in Pattern 2, E xps 2-3 in Tr16 (07)	475.0 Secs (950 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4		(33) NGC3372-TR1 6	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.99 4,94.316	Pattern 2, Exps 4-4 i n Tr16 (07) (2)	485.0 Secs (970 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[2]
	5		(33) NGC3372-TR1 6	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.99 4,99.316	Pattern 2, Exps 5-6 i n Tr16 (07) (2) Prime + Parallel Gro up 5-6 in Pattern 2, E xps 5-6 in Tr16 (07)	485.0 Secs (970 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[2]
	6		(33) NGC3372-TR1 6	WFC3/UVIS, ACCUM, UVIS	F280N	FLASH=16		Pattern 2, Exps 5-6 i n Tr16 (07) (2) Prime + Parallel Gro up 5-6 in Pattern 2, E xps 5-6 in Tr16 (07)	483.0 Secs (966 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[2]
	7		(33) NGC3372-TR1 6	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.99 4,290.448	Pattern 2, Exps 7-7 i n Tr16 (07) (2)	475.0 Secs (950 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[3]
	8		(33) NGC3372-TR1 6	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.99 4,387.264	Pattern 2, Exps 8-9 i n Tr16 (07) (2) Prime + Parallel Gro up 8-9 in Pattern 2, E xps 8-9 in Tr16 (07)	475.0 Secs (950 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[3]
	9		(33) NGC3372-TR1 6	WFC3/UVIS, ACCUM, UVIS	F502N	FLASH=16		Pattern 2, Exps 8-9 i n Tr16 (07) (2) Prime + Parallel Gro up 8-9 in Pattern 2, E xps 8-9 in Tr16 (07)	475.0 Secs (950 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[3]

**Orbit 1**

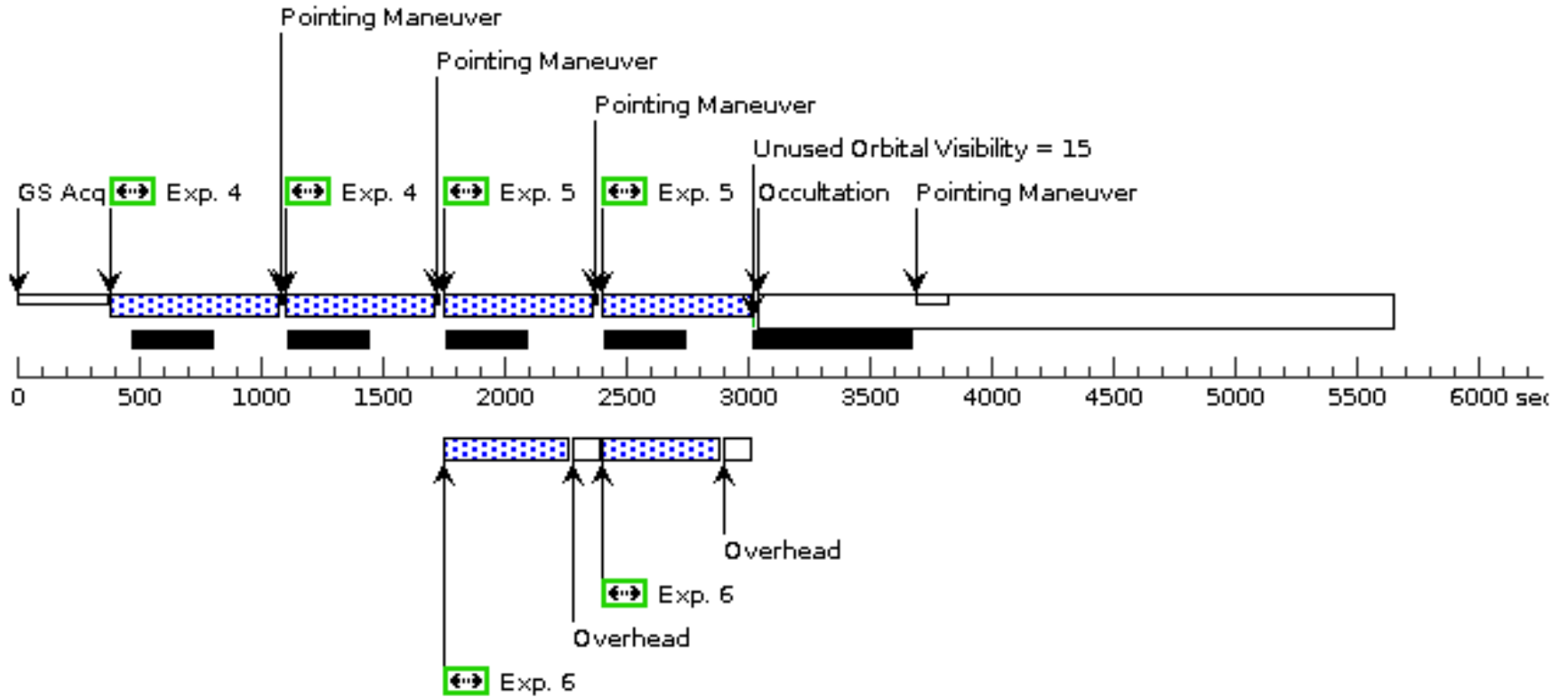
Server Version: 20250624

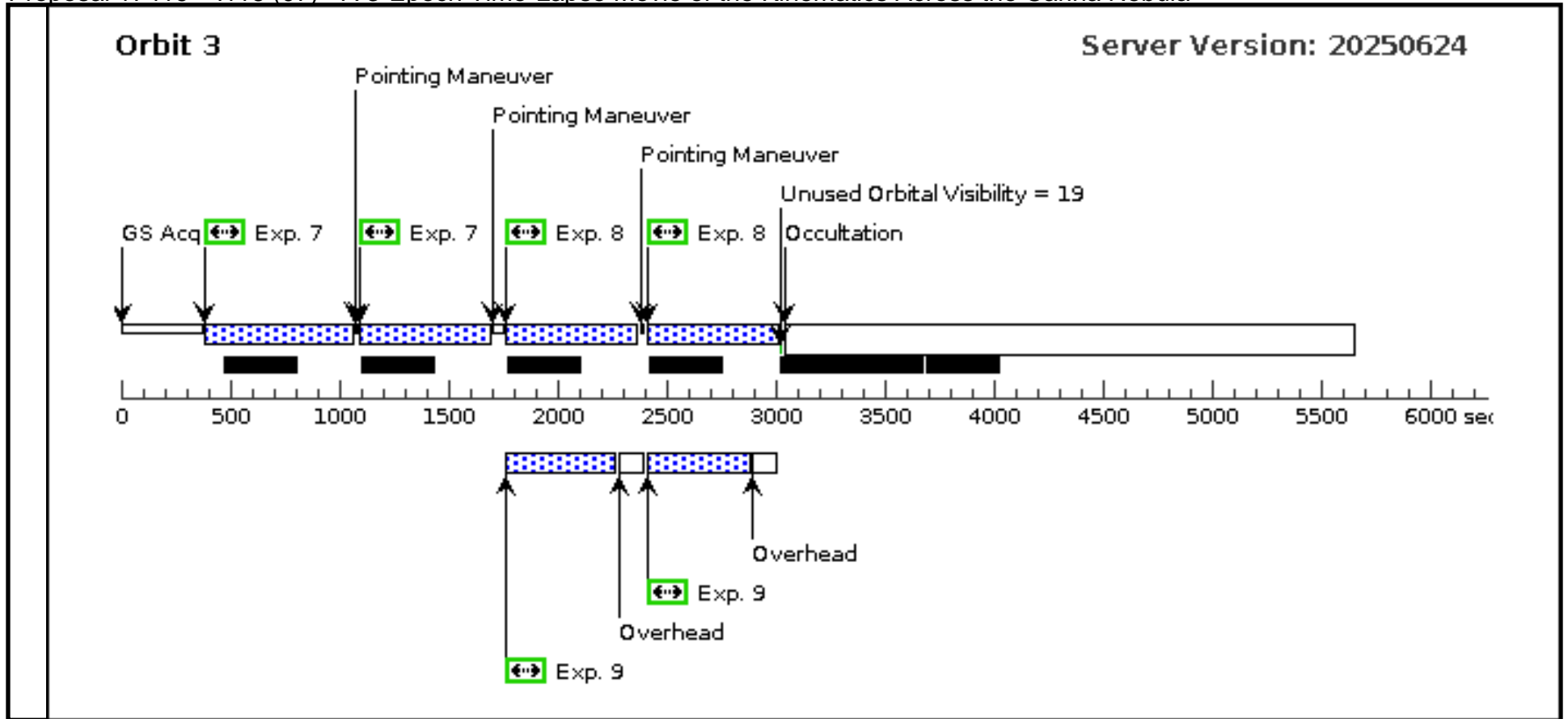


Orbit Structure

**Orbit 2**

Server Version: 20250624





Proposal 17419 - Tr16 (08) - A 3-Epoch Time-Lapse Movie of the Kinematics Across the Carina Nebula

Wed Sep 17 18:00:35 GMT 2025

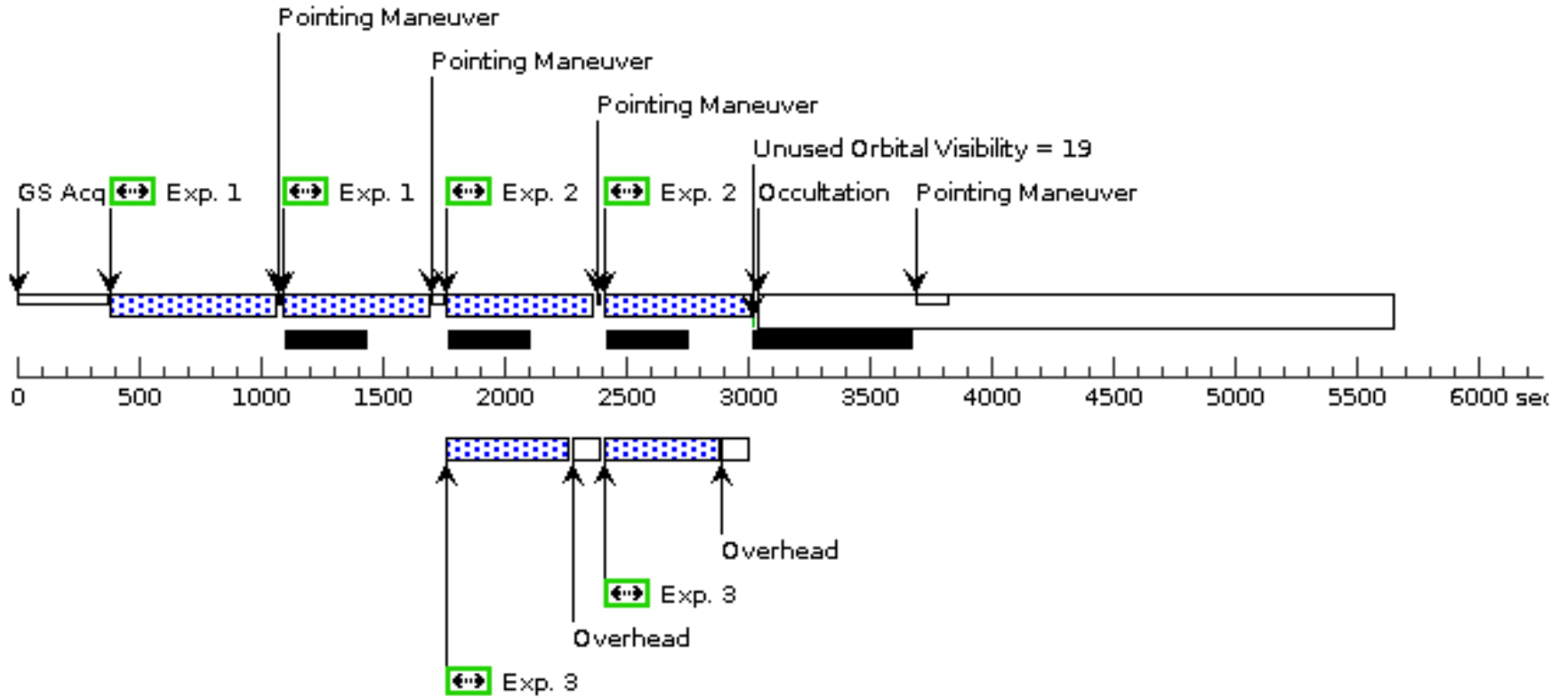
<b>Visit</b>	<b>Proposal 17419, Tr16 (08), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: ORIENT -1.5D TO 1.5D FROM 05					
	(Tr16 (08)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr16 (08)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr16 (08)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr16 (08)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr16 (08)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Tr16 (08)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE					
<b>Diagnosics</b>						
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
		(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false	(1), (2-3), (4), (7), (8-9)	
(3)	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	(5-6)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(33)	NGC3372-TR16	RA: 10 44 57.5000 (161.2395833d) Dec: -59 43 30.00 (-59.72500d) Equinox: J2000		V=8.0	Reference Frame: ICRS
Comments: Open cluster. Reference point for large mosaic. Category=ISM Description=[HII REGION]						

Proposal 17419 - Tr16 (08) - A 3-Epoch Time-Lapse Movie of the Kinematics Across the Carina Nebula

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(33) NGC3372-TR16	(33) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -385.988,-96.816	Pattern 2, Exps 1-1 in Tr16 (08) (2)	475.0 Secs (950 Secs)	[1]
									[==>(Pattern 1)]	
									[==>(Pattern 2)]	
	2	(33) NGC3372-TR16	(33) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -385.988,-193.63	Pattern 2, Exps 2-3 in Tr16 (08) (2) Prime + Parallel Group 2-3 in Pattern 2, Exps 2-3 in Tr16 (08)	475.0 Secs (950 Secs)	[1]
									[==>(Pattern 1)]	
									[==>(Pattern 2)]	
	3	(33) NGC3372-TR16	(33) NGC3372-TR16	WFC3/UVIS, ACCUM, UVIS	F656N	FLASH=16		Pattern 2, Exps 2-3 in Tr16 (08) (2) Prime + Parallel Group 2-3 in Pattern 2, Exps 2-3 in Tr16 (08)	475.0 Secs (950 Secs)	[1]
									[==>(Pattern 1)]	
									[==>(Pattern 2)]	
4	(33) NGC3372-TR16	(33) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -385.988,94.316	Pattern 2, Exps 4-4 in Tr16 (08) (2)	485.0 Secs (970 Secs)	[2]	
								[==>(Pattern 1)]		
								[==>(Pattern 2)]		
5	(33) NGC3372-TR16	(33) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -385.988,99.316	Pattern 3, Exps 5-6 in Tr16 (08) (3) Prime + Parallel Group 5-6 in Pattern 3, Exps 5-6 in Tr16 (08)	485.0 Secs (970 Secs)	[2]	
								[==>(Pattern 1)]		
								[==>(Pattern 2)]		
6	(33) NGC3372-TR16	(33) NGC3372-TR16	WFC3/UVIS, ACCUM, UVIS	F280N	FLASH=16		Pattern 3, Exps 5-6 in Tr16 (08) (3) Prime + Parallel Group 5-6 in Pattern 3, Exps 5-6 in Tr16 (08)	483.0 Secs (966 Secs)	[2]	
								[==>(Pattern 1)]		
								[==>(Pattern 2)]		
7	(33) NGC3372-TR16	(33) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -385.988,290.448	Pattern 2, Exps 7-7 in Tr16 (08) (2)	475.0 Secs (950 Secs)	[3]	
								[==>(Pattern 1)]		
								[==>(Pattern 2)]		
8	(33) NGC3372-TR16	(33) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -385.988,387.264	Pattern 2, Exps 8-9 in Tr16 (08) (2) Prime + Parallel Group 8-9 in Pattern 2, Exps 8-9 in Tr16 (08)	475.0 Secs (950 Secs)	[3]	
								[==>(Pattern 1)]		
								[==>(Pattern 2)]		
9	(33) NGC3372-TR16	(33) NGC3372-TR16	WFC3/UVIS, ACCUM, UVIS	F280N	FLASH=16		Pattern 2, Exps 8-9 in Tr16 (08) (2) Prime + Parallel Group 8-9 in Pattern 2, Exps 8-9 in Tr16 (08)	475.0 Secs (950 Secs)	[3]	
								[==>(Pattern 1)]		
								[==>(Pattern 2)]		

**Orbit 1**

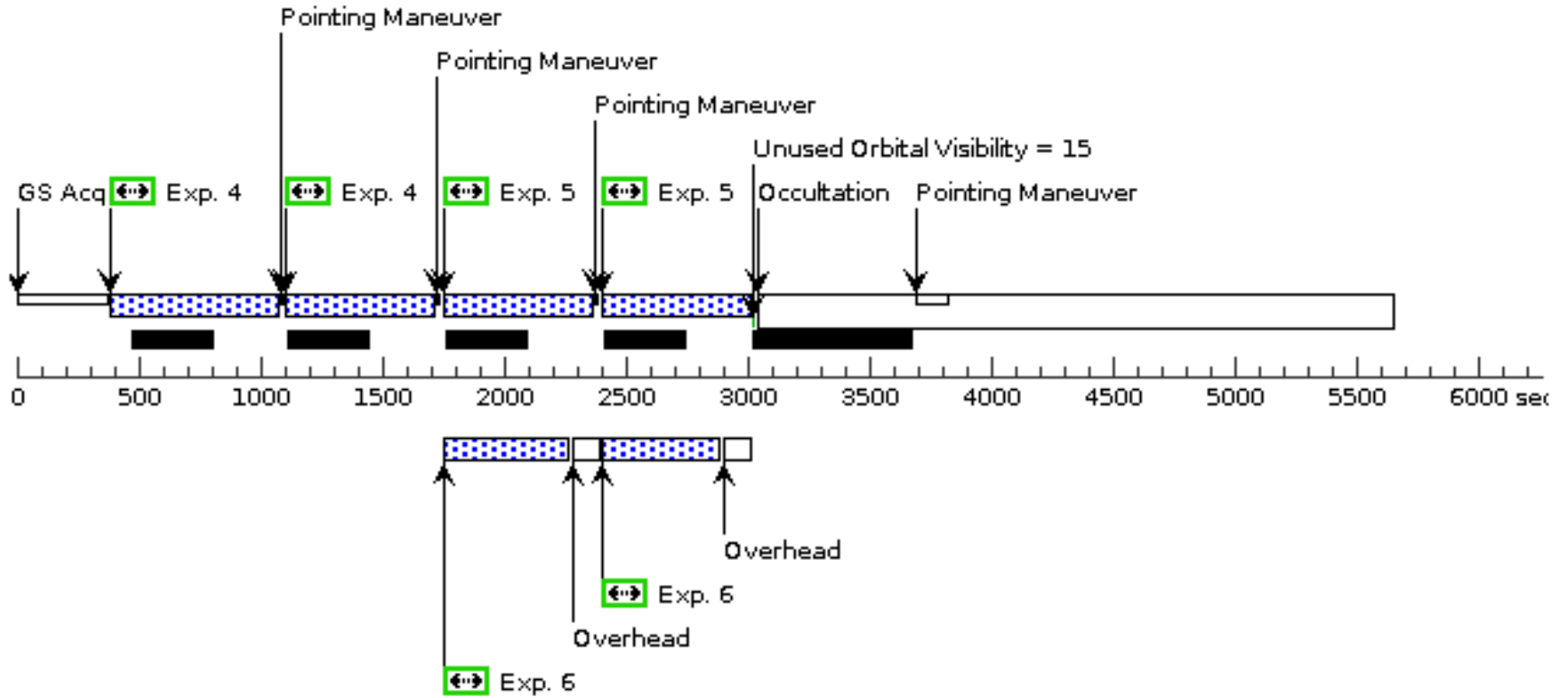
Server Version: 20250624

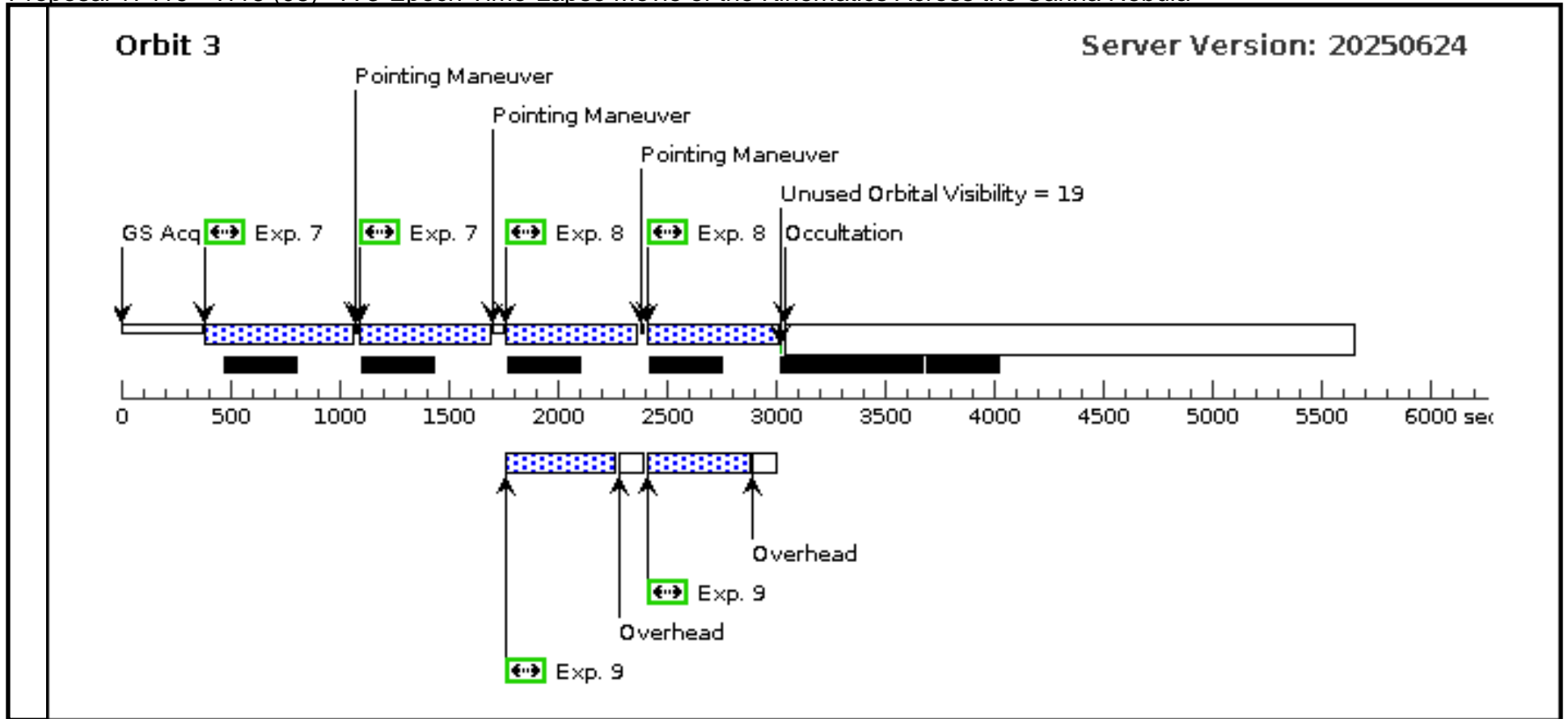


Orbit Structure

**Orbit 2**

Server Version: 20250624





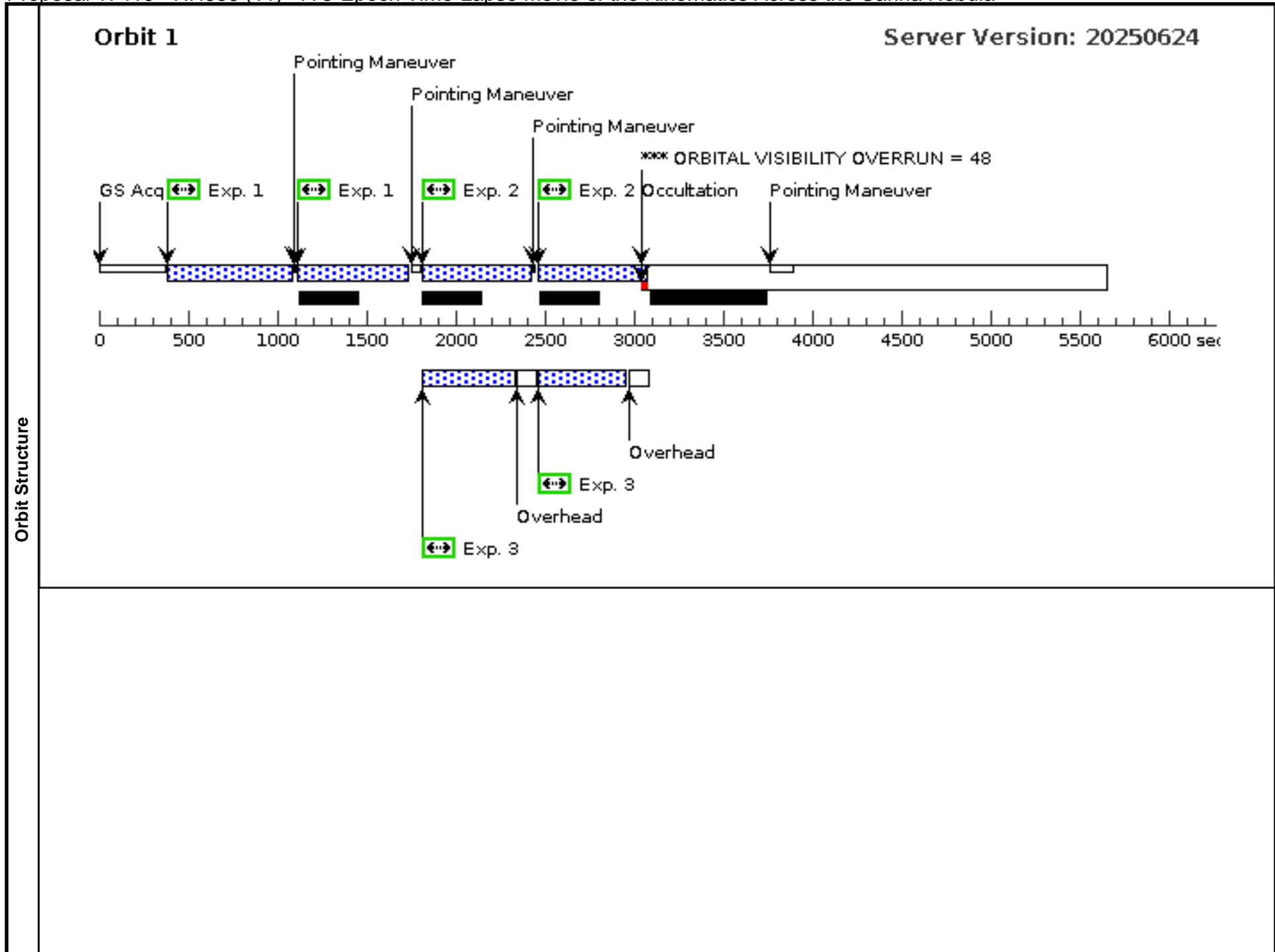
Proposal 17419 - HH666 (11) - A 3-Epoch Time-Lapse Movie of the Kinematics Across the Carina Nebula

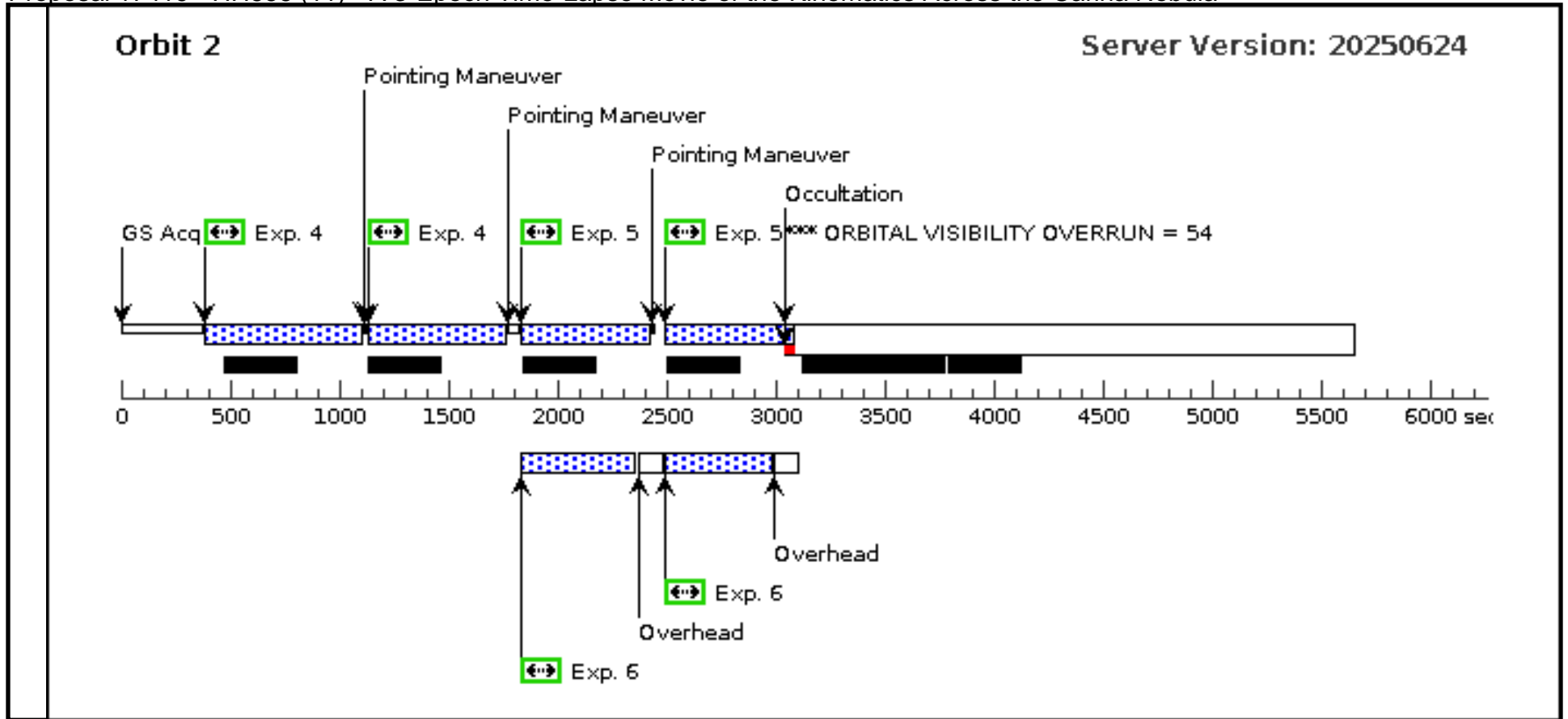
Wed Sep 17 18:00:35 GMT 2025

<b>Visit</b>	<b>Proposal 17419, HH666 (11), scheduled</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: ORIENT 196D TO 198 D					
	<b>Diagnosics</b> (HH666 (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (HH666 (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (HH666 (11)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (HH666 (11)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE					
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>		
	(2)	Pattern Type=ACS-WFC-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false		(1), (2-3), (4), (5-6)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(34)	NGC3372-HH666	RA: 10 43 44.1000 (160.9337500d) Dec: -59 54 26.00 (-59.90722d) Equinox: J2000 Comments: Southern globule and dust pillar, HH jet. Category=ISM Description=[HII REGION]		V=8.0	Reference Frame: ICRS

Proposal 17419 - HH666 (11) - A 3-Epoch Time-Lapse Movie of the Kinematics Across the Carina Nebula

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(34) NGC3372-HH666	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,-96.816	Pattern 2, Exps 1-1 in HH666 (11) (2)	485.0 Secs (992 Secs) [=>496.0 Secs (Pattern 1)] [=>496.0 Secs (Pattern 2)]	[1]
	2		(34) NGC3372-HH666	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,0.0	Pattern 2, Exps 2-3 in HH666 (11) (2) Prime + Parallel Group 2-3 in Pattern 2, Exps 2-3 in HH666 (11)	485.0 Secs (970 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
	3		(34) NGC3372-HH666	WFC3/UVIS, ACCUM, UVIS	F656N	FLASH=16		Pattern 2, Exps 2-3 in HH666 (11) (2) Prime + Parallel Group 2-3 in Pattern 2, Exps 2-3 in HH666 (11)	490 Secs (980 Secs) [=>490.0 Secs (Pattern 1)] [=>490.0 Secs (Pattern 2)]	[1]
	4		(34) NGC3372-HH666	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.994,-96.816	Pattern 2, Exps 4-4 in HH666 (11) (2)	494.0 Secs (1020 Secs) [=>510.0 Secs (Pattern 1)] [=>510.0 Secs (Pattern 2)]	[2]
	5		(34) NGC3372-HH666	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.994,0.0	Pattern 2, Exps 5-6 in HH666 (11) (2) Prime + Parallel Group 5-6 in Pattern 2, Exps 5-6 in HH666 (11)	464.0 Secs (926 Secs) [=>463.0 Secs (Pattern 1)] [=>463.0 Secs (Pattern 2)]	[2]
	6		(34) NGC3372-HH666	WFC3/UVIS, ACCUM, UVIS	F656N	FLASH=16		Pattern 2, Exps 5-6 in HH666 (11) (2) Prime + Parallel Group 5-6 in Pattern 2, Exps 5-6 in HH666 (11)	490 Secs (980 Secs) [=>490.0 Secs (Pattern 1)] [=>490.0 Secs (Pattern 2)]	[2]

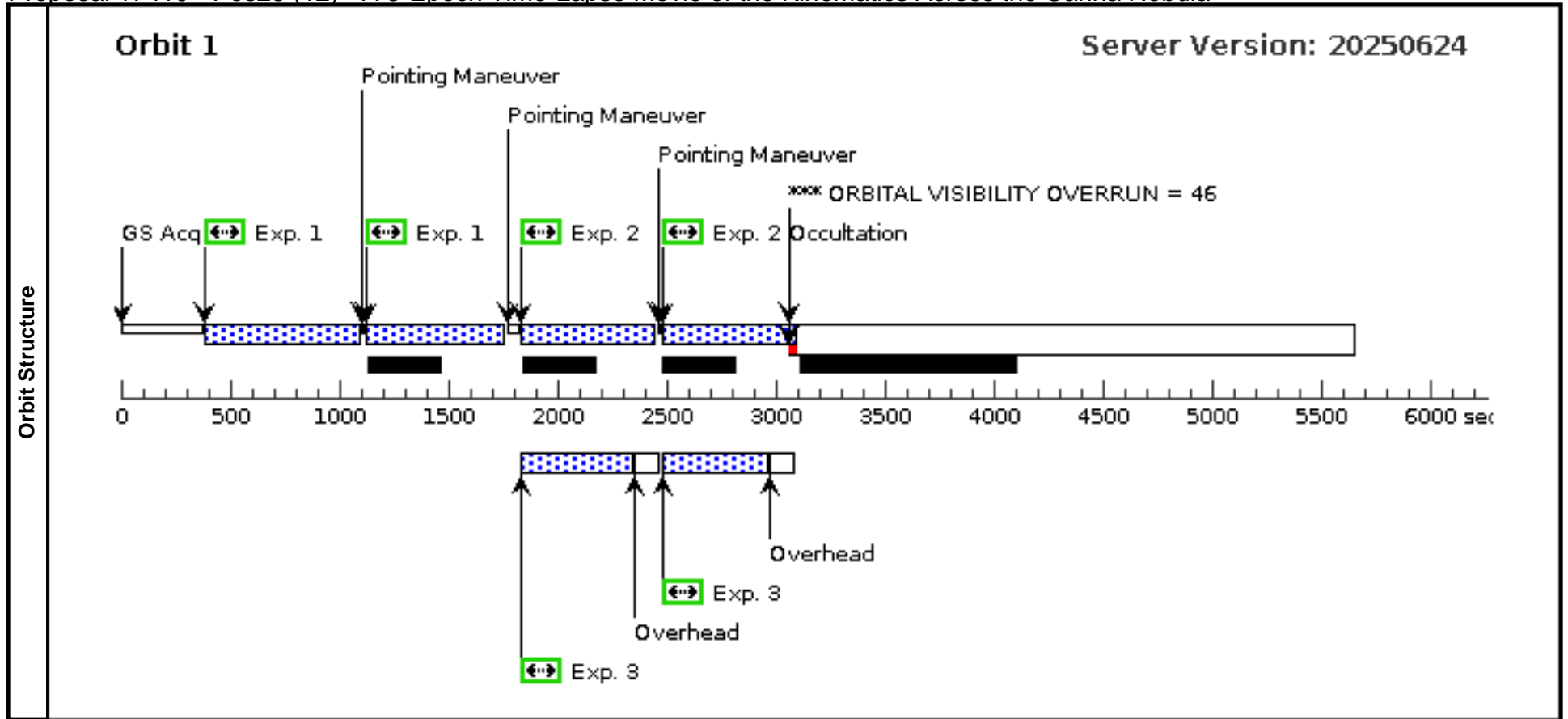




Proposal 17419 - Pos23 (12) - A 3-Epoch Time-Lapse Movie of the Kinematics Across the Carina Nebula

Wed Sep 17 18:00:35 GMT 2025

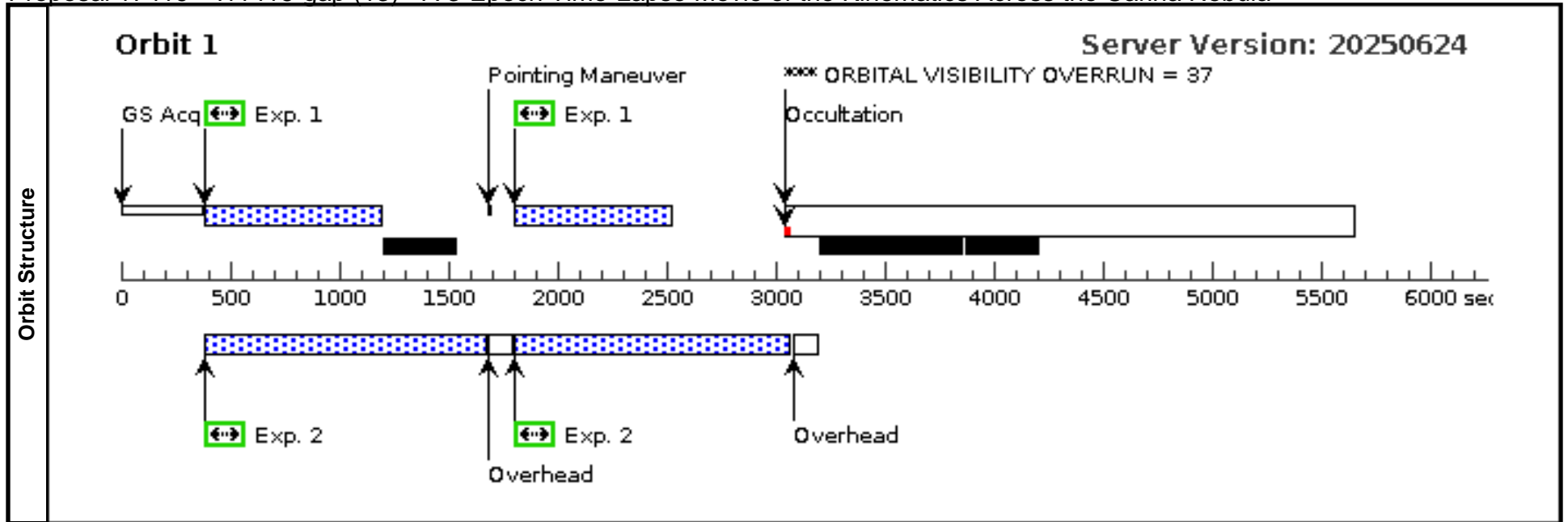
<b>Visit</b>	<b>Proposal 17419, Pos23 (12), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: ORIENT 190D TO 191.5 D									
	<b>Diagnosics</b> (Pos23 (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>						
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false		(1), (2-3)						
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(35)	NGC3372-POS23	RA: 10 45 59.5000 (161.4979167d) Dec: -60 04 59.00 (-60.08306d) Equinox: J2000  <i>Comments: Southern globule and dust pillar.</i> <i>Category=ISM</i> <i>Description=[HII REGION]</i>		V=8.0	Reference Frame: ICRS				
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1		(35) NGC3372-POS23	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,-96.816	Pattern 2, Exps 1-1 in Pos23 (12) (2)	485.0 Secs (1014 Secs)	
									[=>507.0 Secs (Pattern 1)]	[1]
									[=>507.0 Secs (Pattern 2)]	
	2		(35) NGC3372-POS23	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,0.0	Pattern 2, Exps 2-3 in Pos23 (12) (2)	485.0 Secs (982 Secs)	
								Prime + Parallel Group 2-3 in Pattern 2, Exps 2-3 in Pos23 (12)	[=>491.0 Secs (Pattern 1)]	[1]
								[=>491.0 Secs (Pattern 2)]		
3		(35) NGC3372-POS23	WFC3/UVIS, ACCUM, UVIS	F656N	FLASH=16		Pattern 2, Exps 2-3 in Pos23 (12) (2)	480 Secs (960 Secs)		
							Prime + Parallel Group 2-3 in Pattern 2, Exps 2-3 in Pos23 (12)	[=>480.0 Secs (Pattern 1)]	[1]	
								[=>480.0 Secs (Pattern 2)]		



Proposal 17419 - Tr1416-gap (13) - A 3-Epoch Time-Lapse Movie of the Kinematics Across the Carina Nebula

Wed Sep 17 18:00:35 GMT 2025

<b>Visit</b>	<b>Proposal 17419, Tr1416-gap (13), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: ORIENT 257D TO 259 D									
	(Tr1416-gap (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Tr1416-gap (13)) Warning (Orbit Planner): PARALLELS SIGNIFICANTLY EXTEND ALIGNMENT TIME (Tr1416-gap (13)) Warning (Orbit Planner): PARALLELS SIGNIFICANTLY EXTEND ALIGNMENT TIME									
<b>Diagnosics</b>										
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>						
	(3)	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		(1-2)					
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(33)	NGC3372-TR16	RA: 10 44 57.5000 (161.2395833d) Dec: -59 43 30.00 (-59.72500d) Equinox: J2000 <i>Comments: Open cluster. Reference point for large mosaic.</i> Category=ISM Description=[HII REGION]		V=8.0	Reference Frame: ICRS				
	(36)	NGC3372-TR1416GAP	RA: 10 44 48.0000 (161.2000000d) Dec: -59 33 56.00 (-59.56556d) Equinox: J2000 <i>Comments: Open cluster. Reference point for large mosaic.</i> Category=ISM Description=[HII REGION]		V=8.0	Reference Frame: ICRS				
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(36) NGC3372-TR1416GAP	ACS/WFC, ACCUM, WFC	F658N				Pattern 3, Exps 1-2 in Tr1416-gap (13) (3) Prime + Parallel Group 1-2 in Pattern 3, Exps 1-2 in Tr1416-gap (13)	600 Secs (1200 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(33) NGC3372-TR16	WFC3/UVIS, ACCUM, UVIS	F280N	FLASH=16; CR-SPLIT=NO			Pattern 3, Exps 1-2 in Tr1416-gap (13) (3) Prime + Parallel Group 1-2 in Pattern 3, Exps 1-2 in Tr1416-gap (13)	1260 Secs (2520 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 17419 - Tr16-alt (14) - A 3-Epoch Time-Lapse Movie of the Kinematics Across the Carina Nebula

Wed Sep 17 18:00:35 GMT 2025

<b>Visit</b>	<b>Proposal 17419, Tr16-alt (14), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: ORIENT 249D TO 252 D									
	(Tr16-alt (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Tr16-alt (14)) Warning (Orbit Planner): PARALLELS SIGNIFICANTLY EXTEND ALIGNMENT TIME									
<b>Diagnosics</b>										
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>		<b>Exposures</b>					
	(3)	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		(1-2)					
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(33)	NGC3372-TR16	RA: 10 44 57.5000 (161.2395833d) Dec: -59 43 30.00 (-59.72500d) Equinox: J2000 <i>Comments: Open cluster. Reference point for large mosaic.</i> Category=ISM Description=[HII REGION]		V=8.0	Reference Frame: ICRS				
	(37)	NGC3372-TR16-ALT	RA: 10 46 3.0000 (161.5125000d) Dec: -59 48 0.00 (-59.80000d) Equinox: J2000 <i>Comments: Open cluster. Reference point for large mosaic.</i> Category=ISM Description=[HII REGION]		V=8.0	Reference Frame: ICRS				
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(37) NGC3372-TR16-ALT	ACS/WFC, ACCUM, WFC	F658N				Pattern 3, Exps 1-2 in Tr16-alt (14) (3) Prime + Parallel Group 1-2 in Pattern 3, Exps 1-2 in Tr16-alt (14)	1100 Secs (2200 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
2	(33) NGC3372-TR16	WFC3/UVIS, ACCUM, UVIS	F280N	FLASH=16; CR-SPLIT=NO				Pattern 3, Exps 1-2 in Tr16-alt (14) (3) Prime + Parallel Group 1-2 in Pattern 3, Exps 1-2 in Tr16-alt (14)	1260 Secs (2520 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]

