



13390 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Cycle: 21, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Nathan Smith (PI) (Contact)	University of Arizona	nathans@as.arizona.edu
Ms. Megan Reiter (CoI)	University of Arizona	mreiter@as.arizona.edu
Ms. Megan Kiminki (CoI)	University of Arizona	mbagley@email.arizona.edu
Prof. John Bally (CoI)	University of Colorado at Boulder	john.bally@colorado.edu
Dr. Selma E. de Mink (CoI)	Anton Pannekoek Institute for Astronomy, Univ. Amst erdam	s.e.demink@uva.nl

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) NGC3372-TR14	ACS/WFC WFC3/UVIS	2	19-May-2015 21:00:53.0	yes
02	(5) NGC3372-TR14-COPY	ACS/WFC WFC3/UVIS	2	19-May-2015 21:00:58.0	yes
03	(5) NGC3372-TR14-COPY	ACS/WFC WFC3/UVIS	2	19-May-2015 21:01:02.0	yes
04	(1) NGC3372-TR14	ACS/WFC WFC3/IR	2	19-May-2015 21:01:06.0	yes
05	(2) NGC3372-TR16	ACS/WFC WFC3/UVIS	3	19-May-2015 21:01:10.0	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>
06	(2) NGC3372-TR16	ACS/WFC WFC3/UVIS	3	19-May-2015 21:01:14.0	yes
07	(2) NGC3372-TR16	ACS/WFC WFC3/UVIS	3	19-May-2015 21:01:21.0	yes
08	(2) NGC3372-TR16	ACS/WFC WFC3/UVIS	3	19-May-2015 21:01:24.0	yes
09	(3) NGC3372-HH666	ACS/WFC WFC3/UVIS	3	19-May-2015 21:01:28.0	yes
10	(4) NGC3372-POS23	ACS/WFC	2	19-May-2015 21:01:30.0	yes

25 Total Orbits Used

ABSTRACT

In HST cycles 13 and 14, we conducted an ACS H-alpha imaging survey of the Carina Nebula that covered 540 square arcminutes, concentrating on the two 2-3 Myr old central massive star clusters and several surrounding regions with propagating massive star formation. Now we aim to duplicate our previous program with the same filter and instrument in order to measure proper motions over a 9-10 year time baseline. These observations have two chief goals: (1) We will measure proper motions of the 40 jets discovered in our previous survey (anything moving faster than the sound speed in ionized gas), in order to measure their ages and transverse velocities, plus motions of a number of prominent shock structures. Combining the proper motions with spectra will reveal their true 3D kinematics and mass-loss histories. (2) We will measure the proper motions of all stellar point sources with luminosities above roughly 1 Msun and transverse motion faster than about 3 km/s. Combining this with ground-based spectra (mostly for O, B, and A stars) will provide a 3D kinematic map of the stars over a range of initial masses. This will easily identify any runaway massive stars, but will also track the slower collective motion of sub-clusters. Because Carina is at only 2.3 kpc, this will yield the most complete census of global stellar kinematics in a massive OB association - in one which is caught at such a young age that the "cluster of clusters" still bears the kinematic imprint of propagating star formation. The detailed kinematics will allow the first definitive test of whether the distributed generations of stars were actually triggered by the feedback from the central clusters.

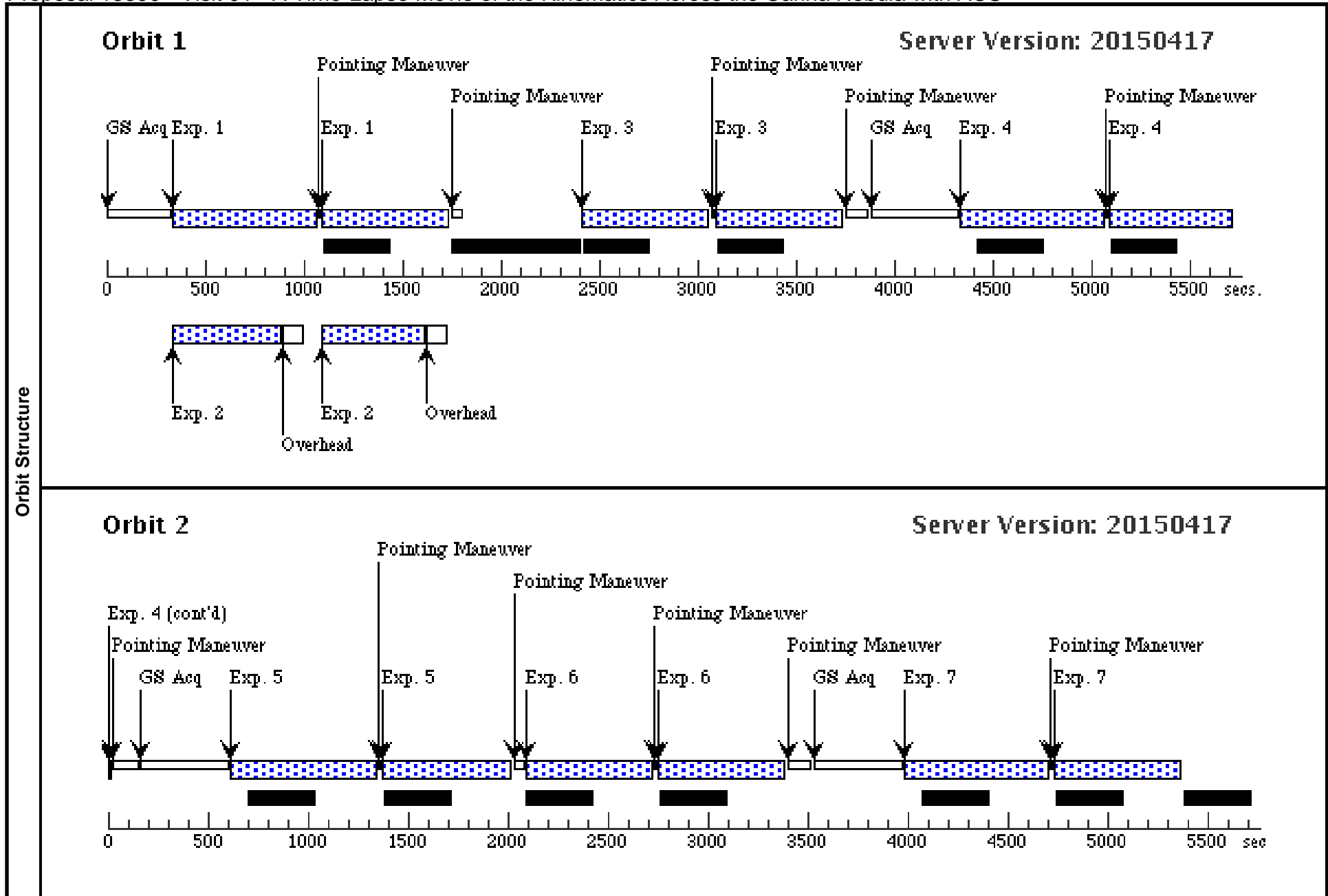
Proposal 13390 - Visit 01 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Wed May 20 01:01:32 GMT 2015

Visit	Proposal 13390, Visit 01, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: CVZ; ORIENT 146.0D TO 151.0 D; GROUP 01,04 WITHIN 1.0D													
	(Visit 01) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 01) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 01) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 01) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 01) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 01) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE													
Diagnosics	<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)</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)			
	#	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)											
<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>(1)</td> <td>NGC3372-TR14</td> <td> RA: 10 44 0.0000 (161.0000000d) Dec: -59 32 48.00 (-59.54667d) 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></p>			#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	NGC3372-TR14	RA: 10 44 0.0000 (161.0000000d) Dec: -59 32 48.00 (-59.54667d) Equinox: J2000		V=8.0	Reference Frame: ICRS
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous									
(1)	NGC3372-TR14	RA: 10 44 0.0000 (161.0000000d) Dec: -59 32 48.00 (-59.54667d) Equinox: J2000		V=8.0	Reference Frame: ICRS									
Patterns														
Fixed Targets														

Proposal 13390 - Visit 01 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) NGC3372-TR14	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, -193.63;	GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 1-2 in Visit 01 (2)	520.0 Secs (1040 Secs)	[1]
								Prime + Parallel Group 1-2 in Pattern 2, Exps 1-2 in Visit 01	[==>(Pattern 1)] [==>(Pattern 2)]	
	2	(1) NGC3372-TR14	WFC3/UVIS, ACCUM, UVIS	F656N				Pattern 2, Exps 1-2 in Visit 01 (2)	520 Secs (1040 Secs)	[1]
								Prime + Parallel Group 1-2 in Pattern 2, Exps 1-2 in Visit 01	[==>(Pattern 1)] [==>(Pattern 2)]	
	3	(1) NGC3372-TR14	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, -96.816		Pattern 2, Exps 3-3 in Visit 01 (2)	520.0 Secs (1040 Secs)	[1]
									[==>(Pattern 1)] [==>(Pattern 2)]	
	4	(1) NGC3372-TR14	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, 0.0;	GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 4-4 in Visit 01 (2)	520.0 Secs (1040 Secs)	[1]
								[==>(Pattern 1)] [==>(Pattern 2)]		
5	(1) NGC3372-TR14	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, 193.63;	GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 5-5 in Visit 01 (2)	520.0 Secs (1040 Secs)	[2]	
								[==>(Pattern 1)] [==>(Pattern 2)]		
6	(1) NGC3372-TR14	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, 290.448		Pattern 2, Exps 6-6 in Visit 01 (2)	510.0 Secs (1020 Secs)	[2]	
								[==>(Pattern 1)] [==>(Pattern 2)]		
7	(1) NGC3372-TR14	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, 387.264;	GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 7-7 in Visit 01 (2)	510.0 Secs (1020 Secs)	[2]	
								[==>(Pattern 1)] [==>(Pattern 2)]		



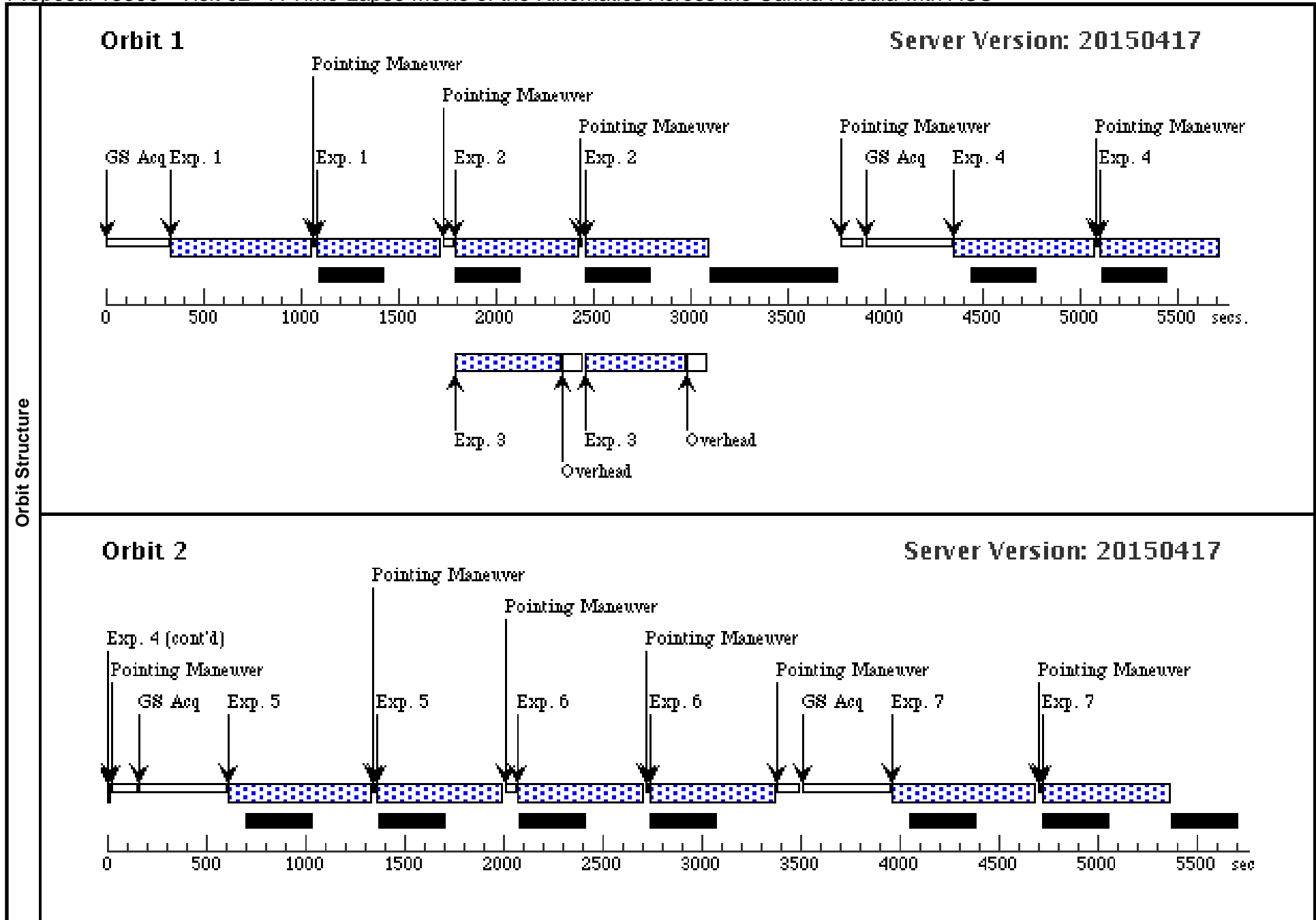
Proposal 13390 - Visit 02 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Wed May 20 01:01:33 GMT 2015

Visit	Proposal 13390, Visit 02, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: CVZ; ORIENT 330.2D TO 331 D					
Diagnostics	(Visit 02) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 02) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 02) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 02) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE					
Patterns	#	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)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	NGC3372-TR14-COPY	RA: 10 44 6.0000 (161.0250000d) Dec: -59 28 1.00 (-59.46694d) Equinox: J2000		V=8.0	Reference Frame: ICRS
	<i>Comments: Open cluster. Reference point for large mosaic.</i>					

Proposal 13390 - Visit 02 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(5) NGC3372-TR14-COPY	(5) NGC3372-TR14-COPY	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,-193.63; GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 1-1 in Visit 02 (2)	510.0 Secs (1020 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(5) NGC3372-TR14-COPY	(5) NGC3372-TR14-COPY	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,-96.816	Pattern 2, Exps 2-3 in Visit 02 (2) Prime + Parallel Group 2-3 in Pattern 2, Exps 2-3 in Visit 02	510.0 Secs (1020 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(5) NGC3372-TR14-COPY	(5) NGC3372-TR14-COPY	WFC3/UVIS, ACCUM, UVIS	F656N			Pattern 2, Exps 2-3 in Visit 02 (2) Prime + Parallel Group 2-3 in Pattern 2, Exps 2-3 in Visit 02	510.0 Secs (1020 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	(5) NGC3372-TR14-COPY	(5) NGC3372-TR14-COPY	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,0.0; GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 4-4 in Visit 02 (2)	510.0 Secs (1020 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5	(5) NGC3372-TR14-COPY	(5) NGC3372-TR14-COPY	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,193.63; GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 5-5 in Visit 02 (2)	510.0 Secs (1020 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[2]
	6	(5) NGC3372-TR14-COPY	(5) NGC3372-TR14-COPY	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,290.448	Pattern 2, Exps 6-6 in Visit 02 (2)	510.0 Secs (1020 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[2]
	7	(5) NGC3372-TR14-COPY	(5) NGC3372-TR14-COPY	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,387.264; GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 7-7 in Visit 02 (2)	515.0 Secs (1030 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[2]



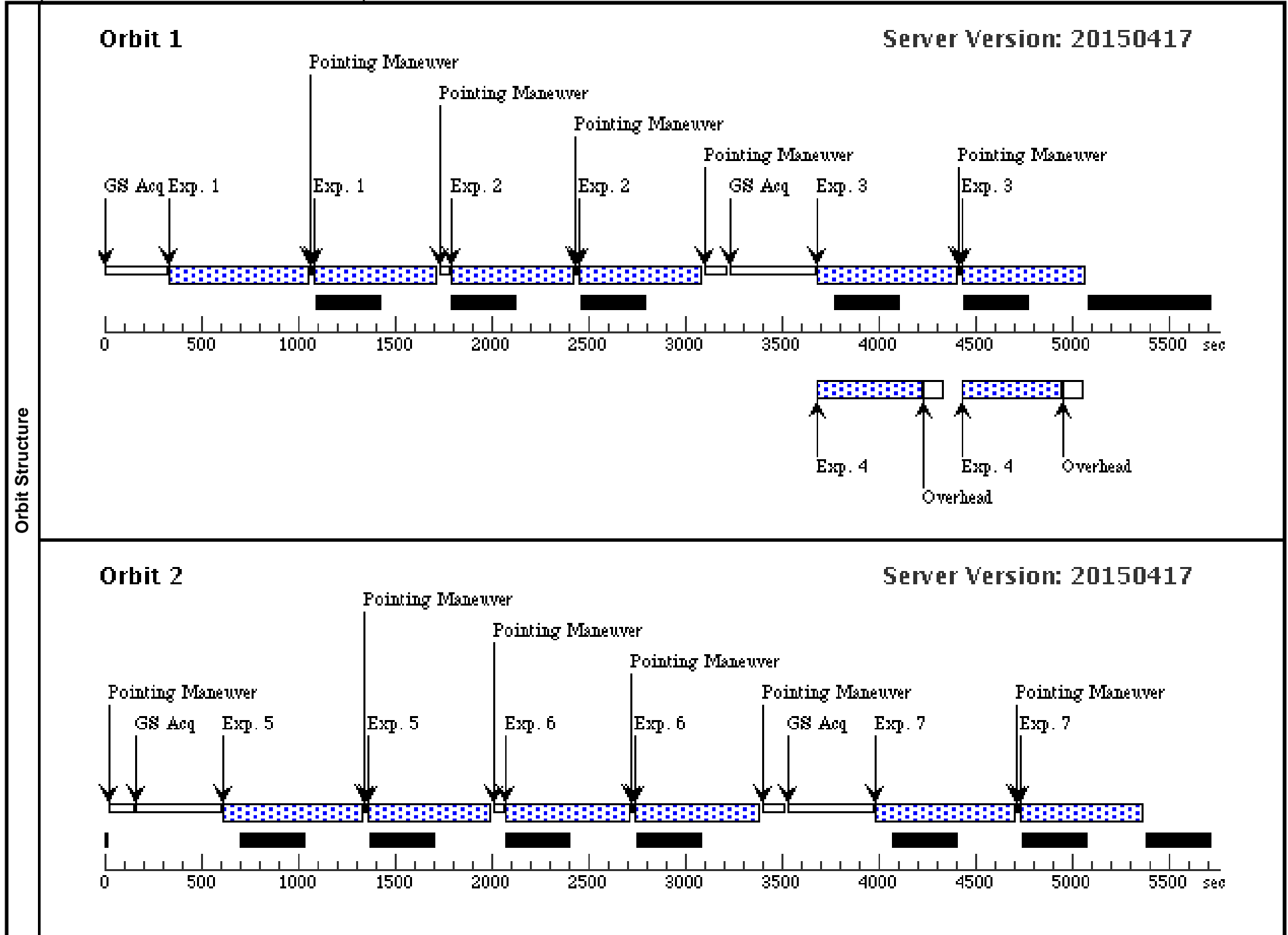
Proposal 13390 - Visit 03 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Wed May 20 01:01:33 GMT 2015

Visit	Proposal 13390, Visit 03, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: CVZ; ORIENT 328D TO 330.4 D													
	(Visit 03) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 03) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 03) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 03) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 03) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 03) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE													
Diagnosics	<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)</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)			
	#	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)											
<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>(5)</td> <td>NGC3372-TR14-COPY</td> <td> RA: 10 44 6.0000 (161.0250000d) Dec: -59 28 1.00 (-59.46694d) 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></p>			#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(5)	NGC3372-TR14-COPY	RA: 10 44 6.0000 (161.0250000d) Dec: -59 28 1.00 (-59.46694d) Equinox: J2000		V=8.0	Reference Frame: ICRS
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous									
(5)	NGC3372-TR14-COPY	RA: 10 44 6.0000 (161.0250000d) Dec: -59 28 1.00 (-59.46694d) Equinox: J2000		V=8.0	Reference Frame: ICRS									
Patterns														
Fixed Targets														

Proposal 13390 - Visit 03 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(5) NGC3372-TR14-COPY	(5) NGC3372-TR14-COPY	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.994,-193.63; GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 1-1 in Visit 03 (2)	510.0 Secs (1020 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(5) NGC3372-TR14-COPY	(5) NGC3372-TR14-COPY	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.994,-96.816	Pattern 2, Exps 2-2 in Visit 03 (2)	510.0 Secs (1020 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(5) NGC3372-TR14-COPY	(5) NGC3372-TR14-COPY	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.994,0.0; GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 3-4 in Visit 03 (2) Prime + Parallel Group 3-4 in Pattern 2, Exps 3-4 in Visit 03	510.0 Secs (1020 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	(5) NGC3372-TR14-COPY	(5) NGC3372-TR14-COPY	WFC3/UVIS, ACCUM, UVIS	F656N			Pattern 2, Exps 3-4 in Visit 03 (2) Prime + Parallel Group 3-4 in Pattern 2, Exps 3-4 in Visit 03	510 Secs (1020 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5	(5) NGC3372-TR14-COPY	(5) NGC3372-TR14-COPY	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.994,193.63; GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 5-5 in Visit 03 (2)	510.0 Secs (1020 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[2]
	6	(5) NGC3372-TR14-COPY	(5) NGC3372-TR14-COPY	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.994,290.448	Pattern 2, Exps 6-6 in Visit 03 (2)	520.0 Secs (1040 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[2]
	7	(5) NGC3372-TR14-COPY	(5) NGC3372-TR14-COPY	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.994,387.264; GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 7-7 in Visit 03 (2)	510.0 Secs (1020 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[2]



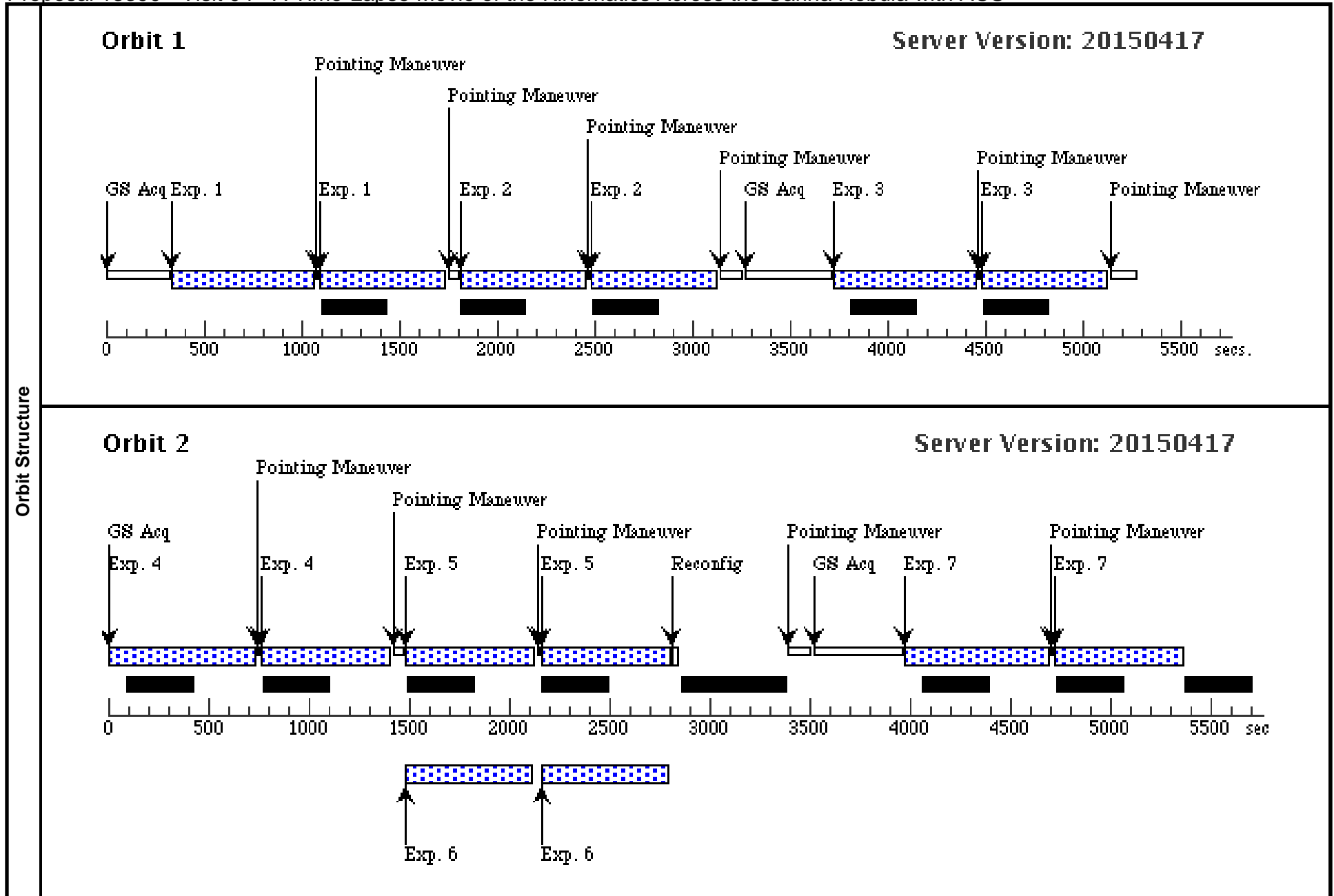
Proposal 13390 - Visit 04 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Wed May 20 01:01:33 GMT 2015

Visit	Proposal 13390, Visit 04, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: CVZ; ORIENT -1.0D TO 1.0D FROM 01													
	(Visit 04) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 04) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 04) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 04) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 04) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 04) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE													
Diagnosics	<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= Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false </td> <td></td> <td>(1), (2), (3), (4), (5-6), (7)</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)			
	#	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)											
<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>(1)</td> <td>NGC3372-TR14</td> <td> RA: 10 44 0.0000 (161.0000000d) Dec: -59 32 48.00 (-59.54667d) 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></p>			#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	NGC3372-TR14	RA: 10 44 0.0000 (161.0000000d) Dec: -59 32 48.00 (-59.54667d) Equinox: J2000		V=8.0	Reference Frame: ICRS
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous									
(1)	NGC3372-TR14	RA: 10 44 0.0000 (161.0000000d) Dec: -59 32 48.00 (-59.54667d) Equinox: J2000		V=8.0	Reference Frame: ICRS									
Patterns														
Fixed Targets														

Proposal 13390 - Visit 04 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) NGC3372-TR14	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -385.988,-193.63;	GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 1-1 in Visit 04 (2)	520.0 Secs (1040 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(1) NGC3372-TR14	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -385.988,-96.816		Pattern 2, Exps 2-2 in Visit 04 (2)	520.0 Secs (1040 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(1) NGC3372-TR14	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -385.988,0.0;	GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 3-3 in Visit 04 (2)	520.0 Secs (1040 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	(1) NGC3372-TR14	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -385.988,193.63;	GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 4-4 in Visit 04 (2)	520.0 Secs (1040 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[2]
	5	(1) NGC3372-TR14	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -385.988,290.448		Pattern 2, Exps 5-6 in Visit 04 (2) Prime + Parallel Group 5-6 in Pattern 2, Exps 5-6 in Visit 04	520.0 Secs (1040 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[2]
	6	(1) NGC3372-TR14	WFC3/IR, MULTIACCUM, IR	F164N	NSAMP=12; SAMP-SEQ=STEP100			Pattern 2, Exps 5-6 in Visit 04 (2) Prime + Parallel Group 5-6 in Pattern 2, Exps 5-6 in Visit 04	599.232292 Secs (1198.465 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[2]
	7	(1) NGC3372-TR14	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -385.988,387.264;	GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 7-7 in Visit 04 (2)	515.0 Secs (1030 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[2]



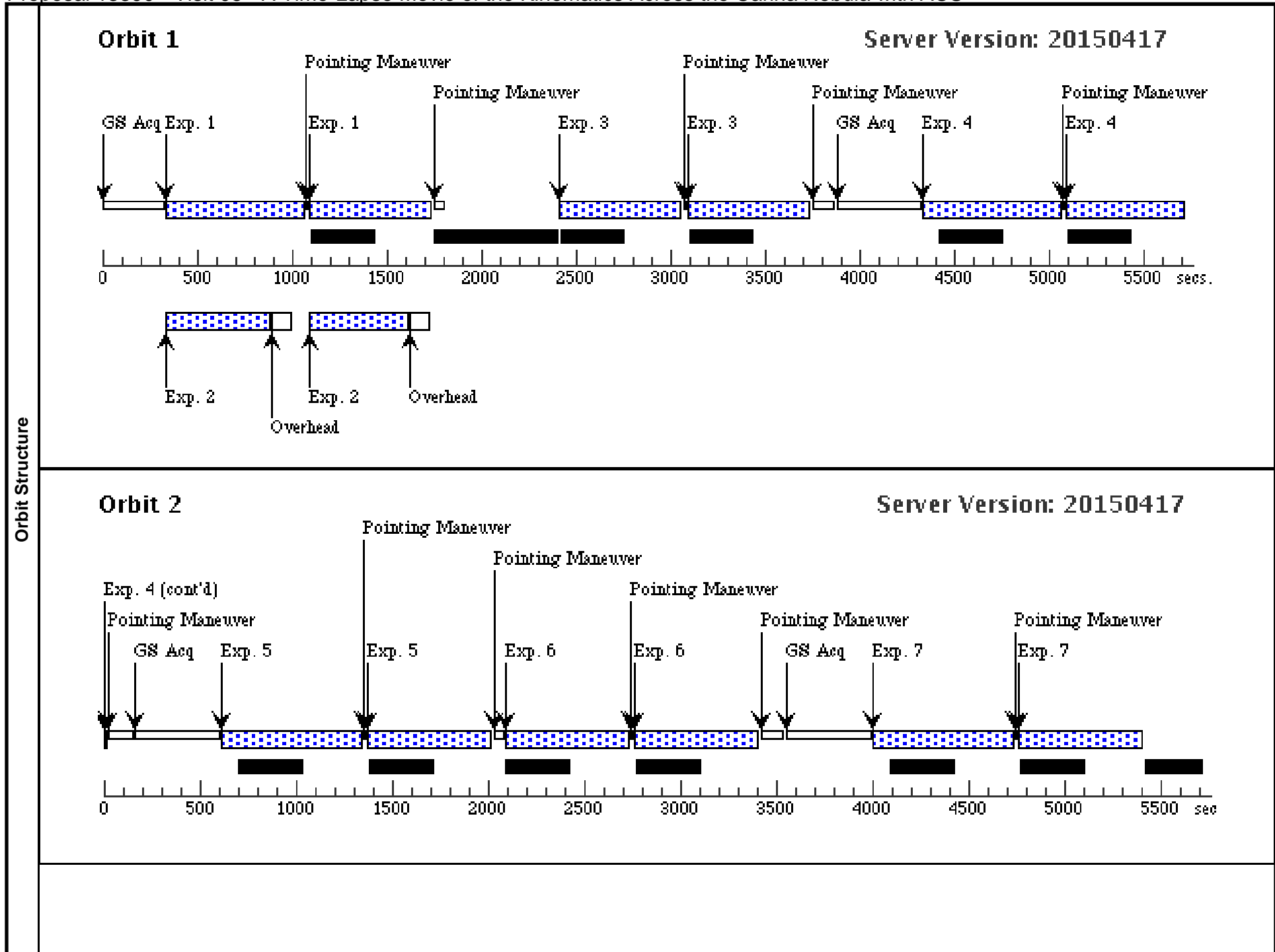
Proposal 13390 - Visit 05 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Wed May 20 01:01:34 GMT 2015

Visit	Proposal 13390, Visit 05, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: CVZ; ORIENT 148.0D TO 151.0 D; GROUP 05,06,07,08 WITHIN 1.0D														
	Diagnosics (Visit 05) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 05) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 05) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 05) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 05) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 05) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE														
Patterns	<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= Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false </td> <td></td> <td>(1-2), (3), (4), (5), (6), (7)</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)						
	#	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)												
<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>(2)</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></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	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										
(2)	NGC3372-TR16	RA: 10 44 57.5000 (161.2395833d) Dec: -59 43 30.00 (-59.72500d) Equinox: J2000		V=8.0	Reference Frame: ICRS										
Fixed Targets															

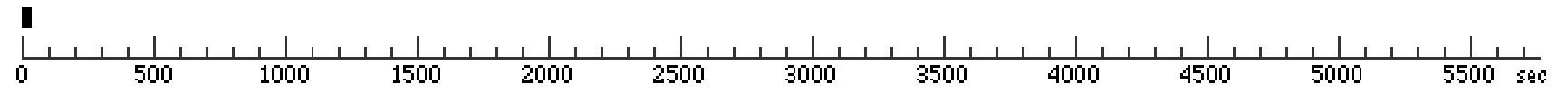
Proposal 13390 - Visit 05 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) NGC3372-TR16	ACS/WFC, ACCUM, WFC	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, -193.63; GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 1-2 in Visit 05 (2) Prime + Parallel Group 1-2 in Pattern 2, Exps 1-2 in Visit 05	520.0 Secs (1040 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(2) NGC3372-TR16	WFC3/UVIS, ACCUM, UVIS	WFC3/UVIS, ACCUM, UVIS	F656N			Pattern 2, Exps 1-2 in Visit 05 (2) Prime + Parallel Group 1-2 in Pattern 2, Exps 1-2 in Visit 05	520 Secs (1040 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(2) NGC3372-TR16	ACS/WFC, ACCUM, WFC	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, -96.816	Pattern 2, Exps 3-3 in Visit 05 (2)	520.0 Secs (1040 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	(2) NGC3372-TR16	ACS/WFC, ACCUM, WFC	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, 0.0; GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 4-4 in Visit 05 (2)	520.0 Secs (1040 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5	(2) NGC3372-TR16	ACS/WFC, ACCUM, WFC	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, 193.63; GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 5-5 in Visit 05 (2)	520.0 Secs (1040 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[2]
	6	(2) NGC3372-TR16	ACS/WFC, ACCUM, WFC	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, 290.448	Pattern 2, Exps 6-6 in Visit 05 (2)	520.0 Secs (1040 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[2]
	7	(2) NGC3372-TR16	ACS/WFC, ACCUM, WFC	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, 387.264; GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 7-7 in Visit 05 (2)	520.0 Secs (1040 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[2]



Orbit 3

Server Version: 20150417



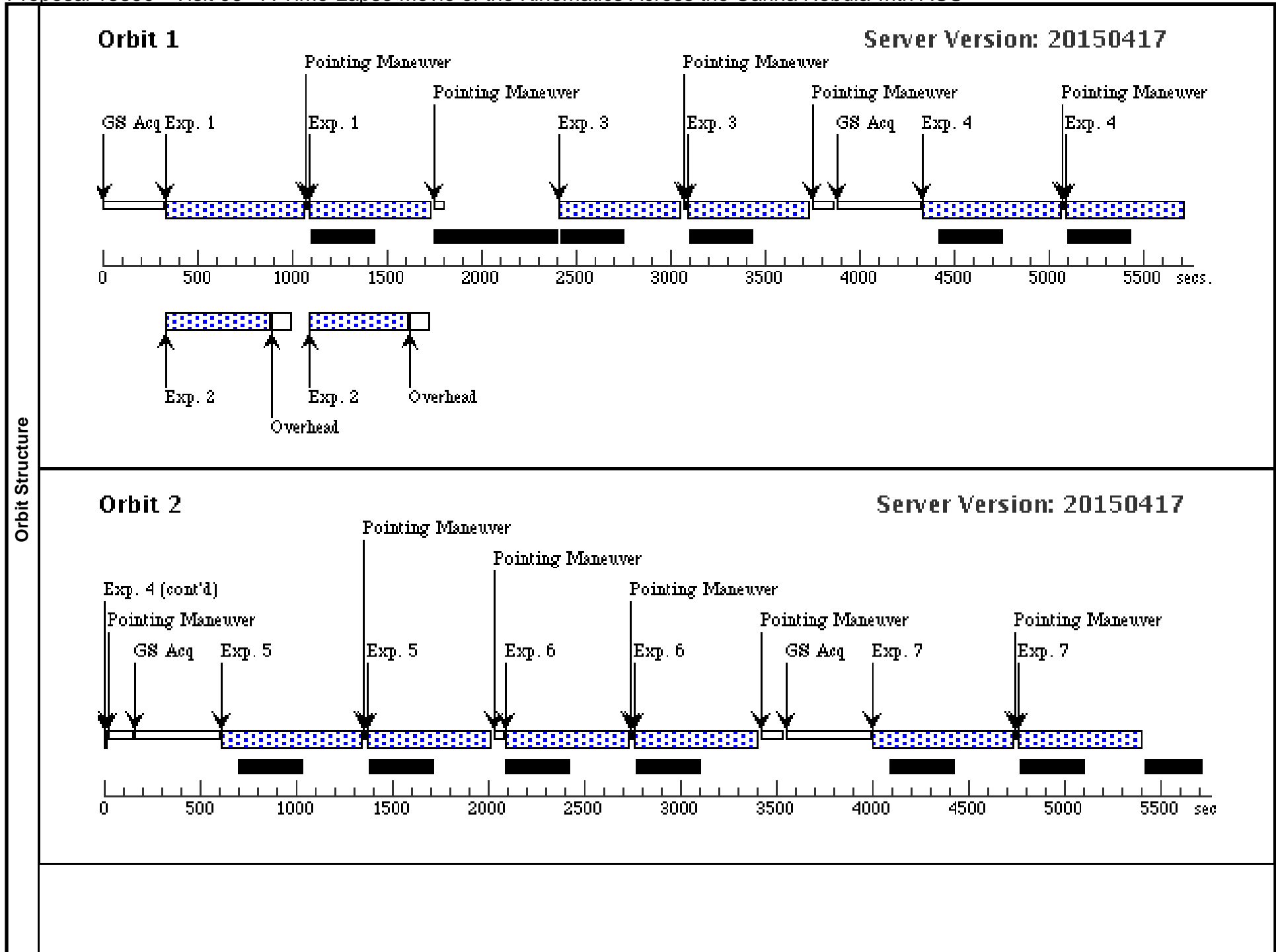
Proposal 13390 - Visit 06 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Wed May 20 01:01:34 GMT 2015

Visit	Proposal 13390, Visit 06, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: CVZ; ORIENT -1.0D TO 1.0D FROM 05					
Diagnostics	(Visit 06) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 06) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 06) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 06) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE					
Patterns	#	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)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	NGC3372-TR16	RA: 10 44 57.5000 (161.2395833d) Dec: -59 43 30.00 (-59.72500d) Equinox: J2000		V=8.0	Reference Frame: ICRS
	<i>Comments: Open cluster. Reference point for large mosaic.</i>					

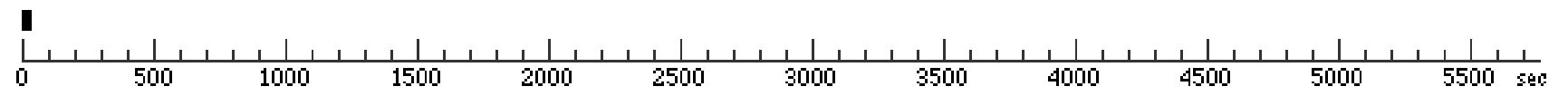
Proposal 13390 - Visit 06 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,-193.63;	GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 1-2 in Visit 06 (2)	520.0 Secs (1040 Secs)	[1]
								Prime + Parallel Group 1-2 in Pattern 2, Exps 1-2 in Visit 06	[==>(Pattern 1)] [==>(Pattern 2)]	
	2	(2) NGC3372-TR16	WFC3/UVIS, ACCUM, UVIS	F656N				Pattern 2, Exps 1-2 in Visit 06 (2)	520.0 Secs (1040 Secs)	[1]
								Prime + Parallel Group 1-2 in Pattern 2, Exps 1-2 in Visit 06	[==>(Pattern 1)] [==>(Pattern 2)]	
	3	(2) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,-96.816		Pattern 2, Exps 3-3 in Visit 06 (2)	520.0 Secs (1040 Secs)	[1]
									[==>(Pattern 1)] [==>(Pattern 2)]	
	4	(2) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,0.0;	GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 4-4 in Visit 06 (2)	520.0 Secs (1040 Secs)	[1]
								[==>(Pattern 1)] [==>(Pattern 2)]		
5	(2) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,193.63;	GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 5-5 in Visit 06 (2)	520.0 Secs (1040 Secs)	[2]	
								[==>(Pattern 1)] [==>(Pattern 2)]		
6	(2) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,290.448		Pattern 2, Exps 6-6 in Visit 06 (2)	520.0 Secs (1040 Secs)	[2]	
								[==>(Pattern 1)] [==>(Pattern 2)]		
7	(2) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,387.264;	GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 7-7 in Visit 06 (2)	520.0 Secs (1040 Secs)	[2]	
								[==>(Pattern 1)] [==>(Pattern 2)]		



Orbit 3

Server Version: 20150417



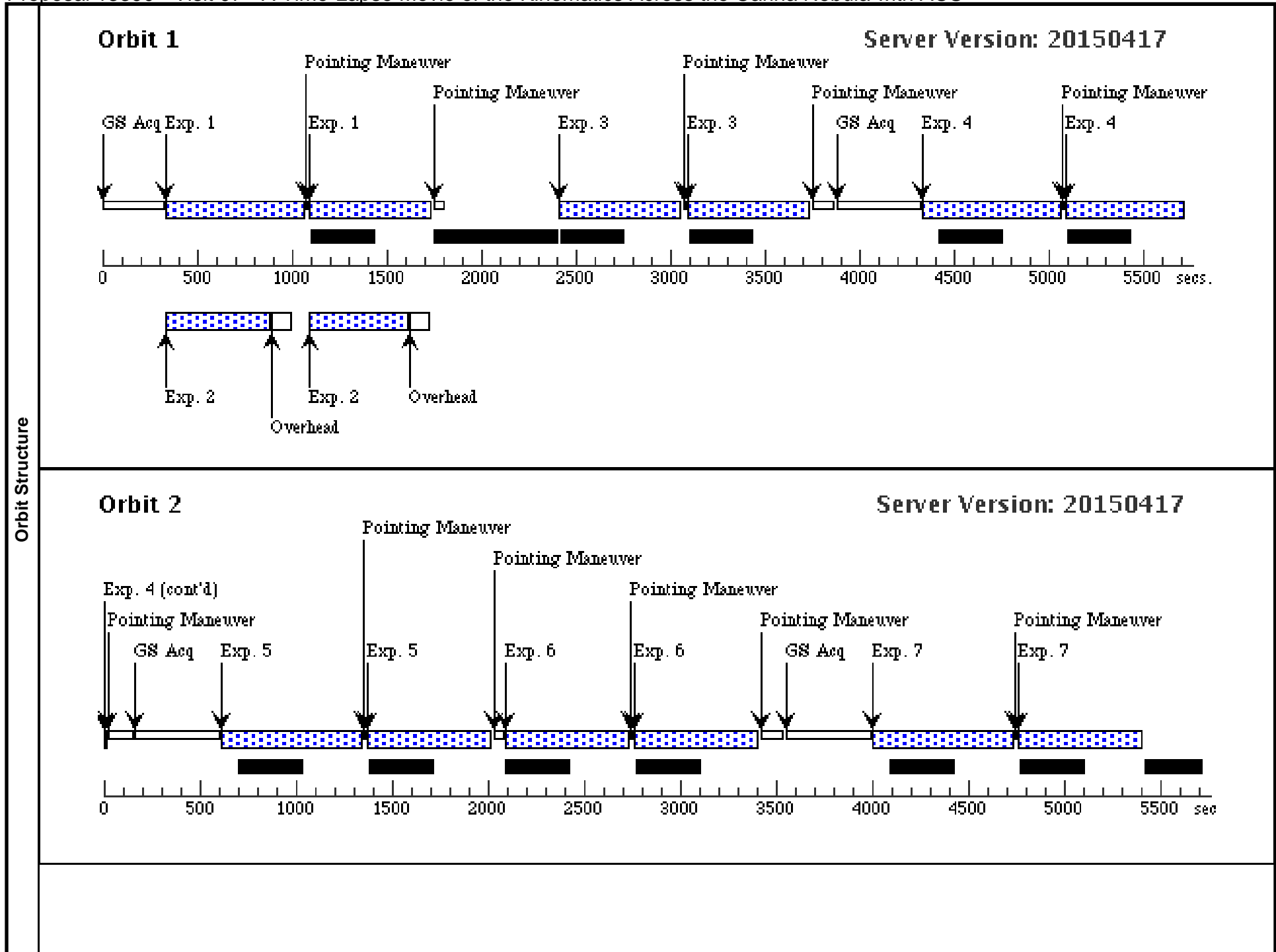
Proposal 13390 - Visit 07 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Wed May 20 01:01:34 GMT 2015

Visit	Proposal 13390, Visit 07, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: CVZ; ORIENT -1.0D TO 1.0D FROM 05													
	(Visit 07) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 07) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 07) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 07) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 07) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 07) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE													
Diagnosics	<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)</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)			
	#	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)											
<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>(2)</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></p>			#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	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									
(2)	NGC3372-TR16	RA: 10 44 57.5000 (161.2395833d) Dec: -59 43 30.00 (-59.72500d) Equinox: J2000		V=8.0	Reference Frame: ICRS									
Patterns														
Fixed Targets														

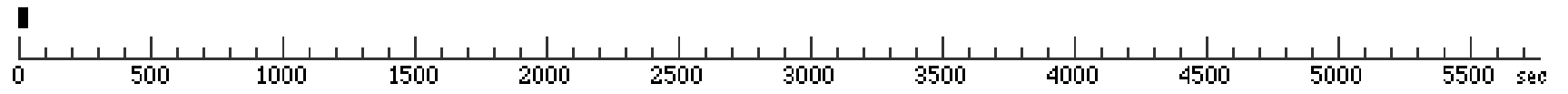
Proposal 13390 - Visit 07 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.994,-193.63;	GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 1-2 in Visit 07 (2) Prime + Parallel Group 1-2 in Pattern 2, Exps 1-2 in Visit 07	520.0 Secs (1040 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(2) NGC3372-TR16	WFC3/UVIS, ACCUM, UVIS	F656N				Pattern 2, Exps 1-2 in Visit 07 (2) Prime + Parallel Group 1-2 in Pattern 2, Exps 1-2 in Visit 07	520.0 Secs (1040 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(2) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.994,-96.816		Pattern 2, Exps 3-3 in Visit 07 (2)	520.0 Secs (1040 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	(2) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.994,0.0;	GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 4-4 in Visit 07 (2)	520.0 Secs (1040 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5	(2) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.994,193.63;	GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 5-5 in Visit 07 (2)	520.0 Secs (1040 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[2]
	6	(2) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.994,290.448		Pattern 2, Exps 6-6 in Visit 07 (2)	520.0 Secs (1040 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[2]
	7	(2) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -192.994,387.264;	GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 7-7 in Visit 07 (2)	520.0 Secs (1040 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[2]



Orbit 3

Server Version: 20150417



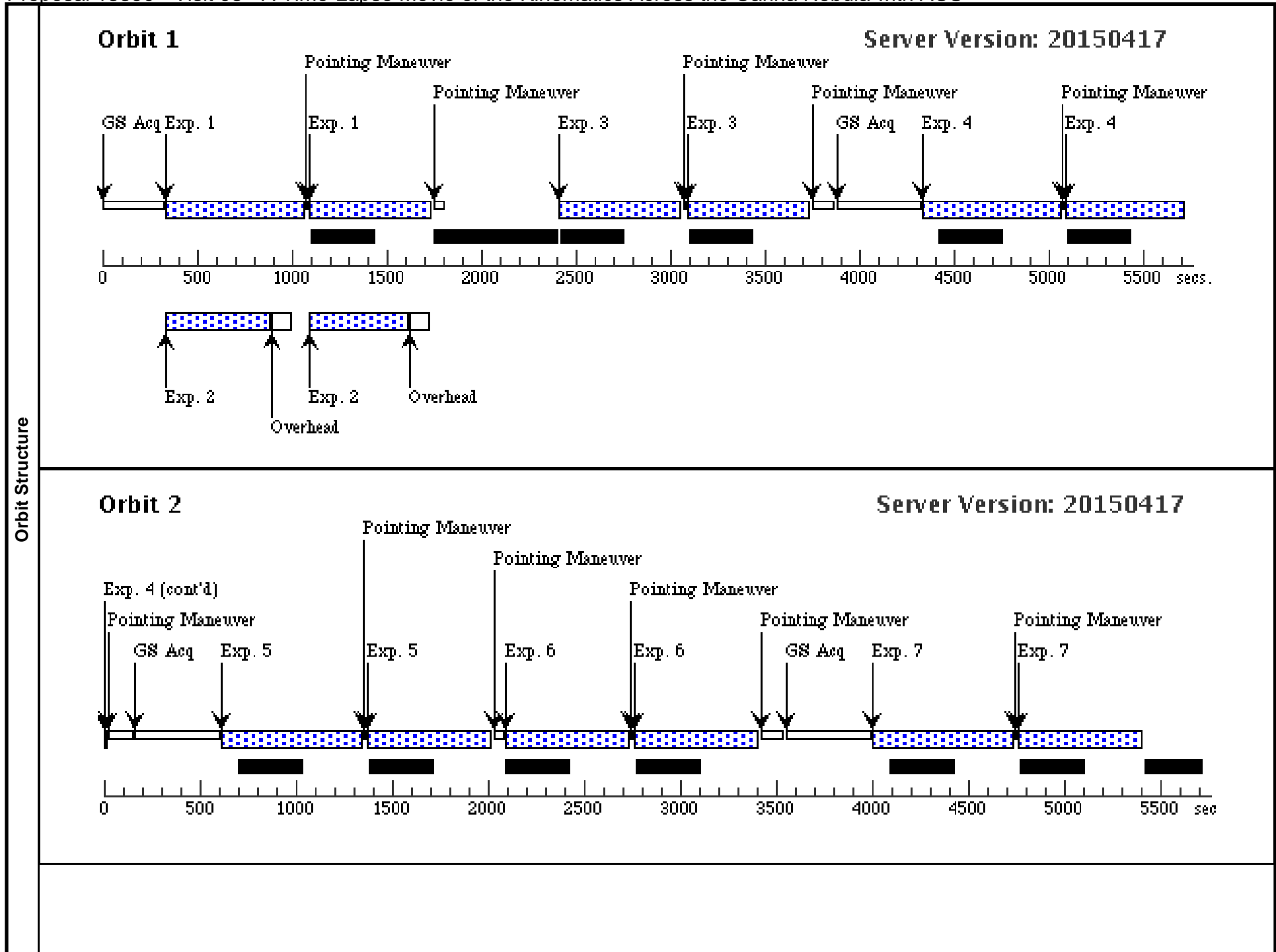
Proposal 13390 - Visit 08 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Wed May 20 01:01:34 GMT 2015

Visit	Proposal 13390, Visit 08, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: CVZ; ORIENT -1.0D TO 1.0D FROM 05												
Diagnostics	(Visit 08) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 08) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 08) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 08) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 08) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 08) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE												
Patterns	<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= Coordinate Frame=POS-TARG Pattern Orientation=47.17 Angle Between Sides= Center Pattern=false </td> <td></td> <td>(1-2), (3), (4), (5), (6), (7)</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)				
#	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)										
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>(2)</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></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	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								
(2)	NGC3372-TR16	RA: 10 44 57.5000 (161.2395833d) Dec: -59 43 30.00 (-59.72500d) Equinox: J2000		V=8.0	Reference Frame: ICRS								

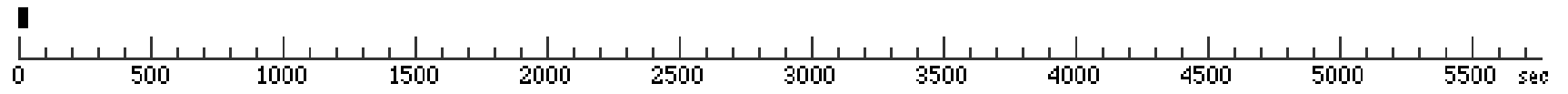
Proposal 13390 - Visit 08 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -385.988,-193.63;	GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 1-2 in Visit 08 (2)	520.0 Secs (1040 Secs)	[1]
								Prime + Parallel Group 1-2 in Pattern 2, Exps 1-2 in Visit 08	[==>(Pattern 1)] [==>(Pattern 2)]	
	2	(2) NGC3372-TR16	WFC3/UVIS, ACCUM, UVIS	F656N				Pattern 2, Exps 1-2 in Visit 08 (2)	520.0 Secs (1040 Secs)	[1]
								Prime + Parallel Group 1-2 in Pattern 2, Exps 1-2 in Visit 08	[==>(Pattern 1)] [==>(Pattern 2)]	
	3	(2) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -385.988,-96.816		Pattern 2, Exps 3-3 in Visit 08 (2)	520.0 Secs (1040 Secs)	[1]
									[==>(Pattern 1)] [==>(Pattern 2)]	
	4	(2) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -385.988,0.0;	GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 4-4 in Visit 08 (2)	520.0 Secs (1040 Secs)	[1]
								[==>(Pattern 1)] [==>(Pattern 2)]		
5	(2) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -385.988,193.63;	GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 5-5 in Visit 08 (2)	520.0 Secs (1040 Secs)	[2]	
								[==>(Pattern 1)] [==>(Pattern 2)]		
6	(2) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -385.988,290.448		Pattern 2, Exps 6-6 in Visit 08 (2)	520.0 Secs (1040 Secs)	[2]	
								[==>(Pattern 1)] [==>(Pattern 2)]		
7	(2) NGC3372-TR16	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -385.988,387.264;	GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 7-7 in Visit 08 (2)	520.0 Secs (1040 Secs)	[2]	
								[==>(Pattern 1)] [==>(Pattern 2)]		



Orbit 3

Server Version: 20150417



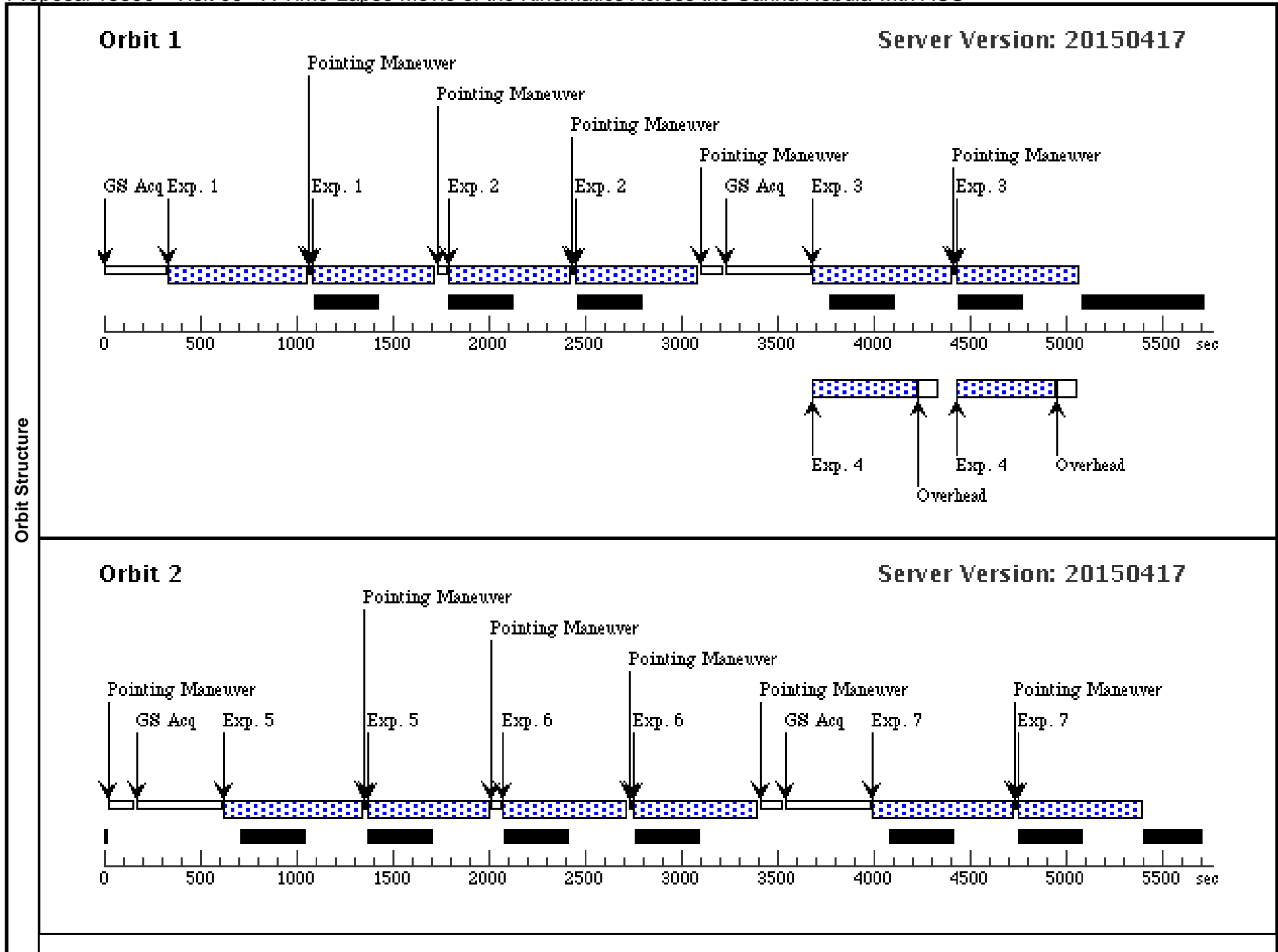
Proposal 13390 - Visit 09 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Wed May 20 01:01:35 GMT 2015

Visit	Proposal 13390, Visit 09, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: CVZ; ORIENT 17.0D TO 23.0 D					
Diagnostics	(Visit 09) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 09) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 09) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 09) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE					
Patterns	#	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)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	NGC3372-HH666	RA: 10 43 44.1000 (160.9337500d) Dec: -59 54 26.00 (-59.90722d) Equinox: J2000		V=8.0	Reference Frame: ICRS
	<i>Comments: Southern globule and dust pillar, HH jet.</i>					

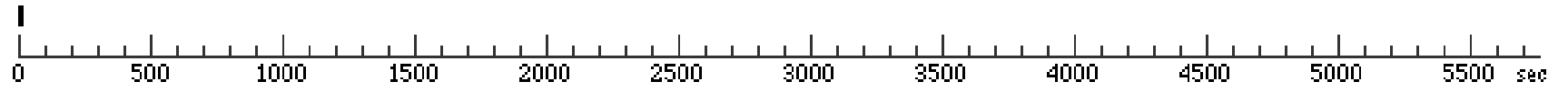
Proposal 13390 - Visit 09 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) NGC3372-HH66 6	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,193.63	Pattern 2, Exps 1-1 in Visit 09 (2)	510.0 Secs (1020 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2		(3) NGC3372-HH66 6	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,96.816	Pattern 2, Exps 2-2 in Visit 09 (2)	510.0 Secs (1020 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3		(3) NGC3372-HH66 6	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,0.0	Pattern 2, Exps 3-4 in Visit 09 (2) Prime + Parallel Group 3-4 in Pattern 2, Exps 3-4 in Visit 09	510.0 Secs (1020 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4		(3) NGC3372-HH66 6	WFC3/UVIS, ACCUM, UVIS	F656N			Pattern 2, Exps 3-4 in Visit 09 (2) Prime + Parallel Group 3-4 in Pattern 2, Exps 3-4 in Visit 09	510.0 Secs (1020 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5		(3) NGC3372-HH66 6	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, 193.63	Pattern 2, Exps 5-5 in Visit 09 (2)	510.0 Secs (1020 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[2]
	6		(3) NGC3372-HH66 6	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, 96.816	Pattern 2, Exps 6-6 in Visit 09 (2)	520.0 Secs (1040 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[2]
	7		(3) NGC3372-HH66 6	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 192.994, 0.0	Pattern 2, Exps 7-7 in Visit 09 (2)	520.0 Secs (1040 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[2]



Orbit 3

Server Version: 20150417



Proposal 13390 - Visit 10 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Wed May 20 01:01:35 GMT 2015

Visit	Proposal 13390, Visit 10, completed Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: CVZ; ORIENT 11D TO 19 D									
	(Visit 10) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE									
Diagnosics										
Patterns	#	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)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	NGC3372-POS23	RA: 10 45 59.5000 (161.4979167d) Dec: -60 04 59.00 (-60.08306d) Equinox: J2000 Comments: Southern globule and dust pillar.		V=8.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(4) NGC3372-POS2 3	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,193.63; GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 1-1 in Visit 10 (2)	560.0 Secs (1120 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	2	(4) NGC3372-POS2 3	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,96.816	Pattern 2, Exps 2-2 in Visit 10 (2)	560.0 Secs (1120 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	3	(4) NGC3372-POS2 3	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,0.0; GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 3-3 in Visit 10 (2)	560.0 Secs (1120 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]	

