



13791 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Cycle: 22, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) N3372-TR15	ACS/WFC WFC3/UVIS	1	22-Oct-2014 21:06:25.0	yes
02	(4) N3372-POS20	ACS/WFC WFC3/UVIS	1	22-Oct-2014 21:06:28.0	yes
03	(5) N3372-POS21	ACS/WFC WFC3/UVIS	1	22-Oct-2014 21:06:30.0	yes
04	(6) N3372-POS22	ACS/WFC	1	22-Oct-2014 21:06:31.0	yes
05	(7) N3372-POS24	ACS/WFC	1	22-Oct-2014 21:06:33.0	yes
06	(8) N3372-POS25	ACS/WFC	1	22-Oct-2014 21:06:34.0	yes
07	(9) N3372-POS26	ACS/WFC	1	22-Oct-2014 21:06:35.0	yes
08	(10) N3372-POS27	ACS/WFC	1	22-Oct-2014 21:06:37.0	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>
09	(12) N3372-POS30	ACS/WFC	1	22-Oct-2014 21:06:38.0	yes
10	(3) N3372-POS19	ACS/WFC	1	22-Oct-2014 21:06:39.0	yes
11	(13) N3372-POS29	ACS/WFC WFC3/UVIS	1	22-Oct-2014 21:06:41.0	yes
12	(11) N3372-POS28	ACS/WFC	1	22-Oct-2014 21:06:42.0	yes

12 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.

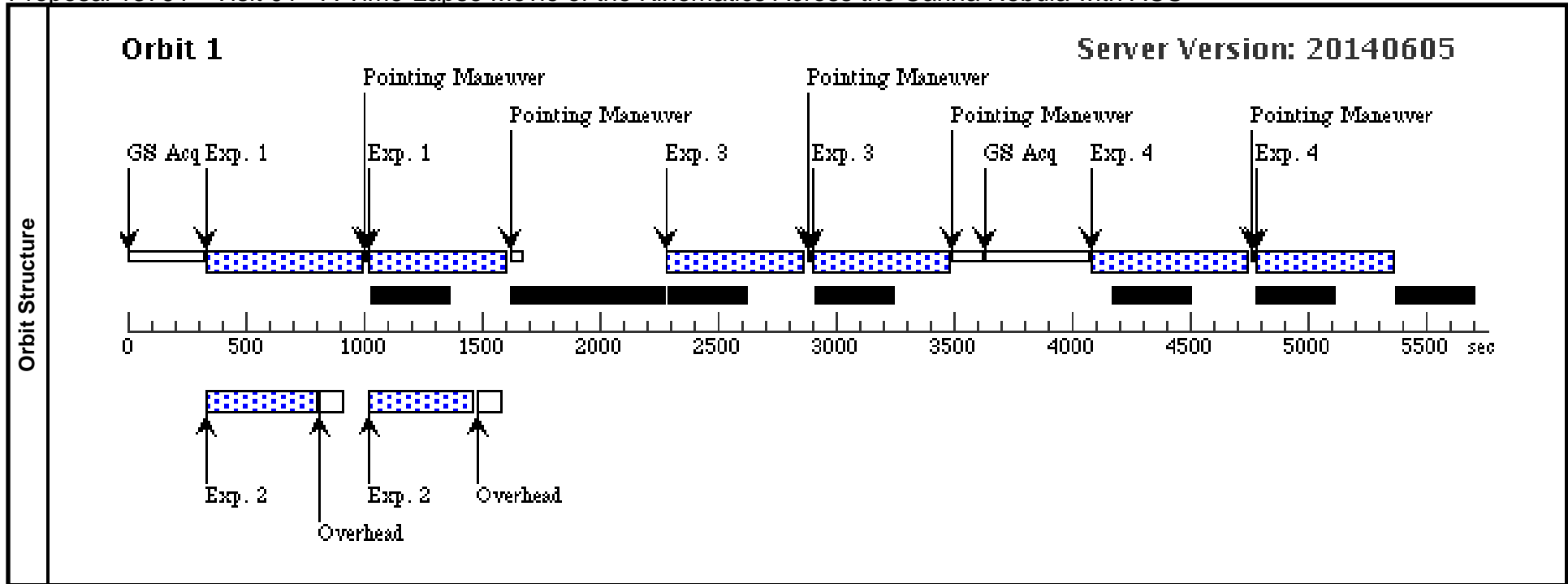
OBSERVING DESCRIPTION

These ACS/WFC primary exposures in the F658N filter are meant to duplicate, as closely as possible, previous observations made in Cycles 6 and 7 for the goal of measuring proper motions of both stars and nebular features. 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.

Proposal 13791 - Visit 01 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Thu Oct 23 01:06:44 GMT 2014

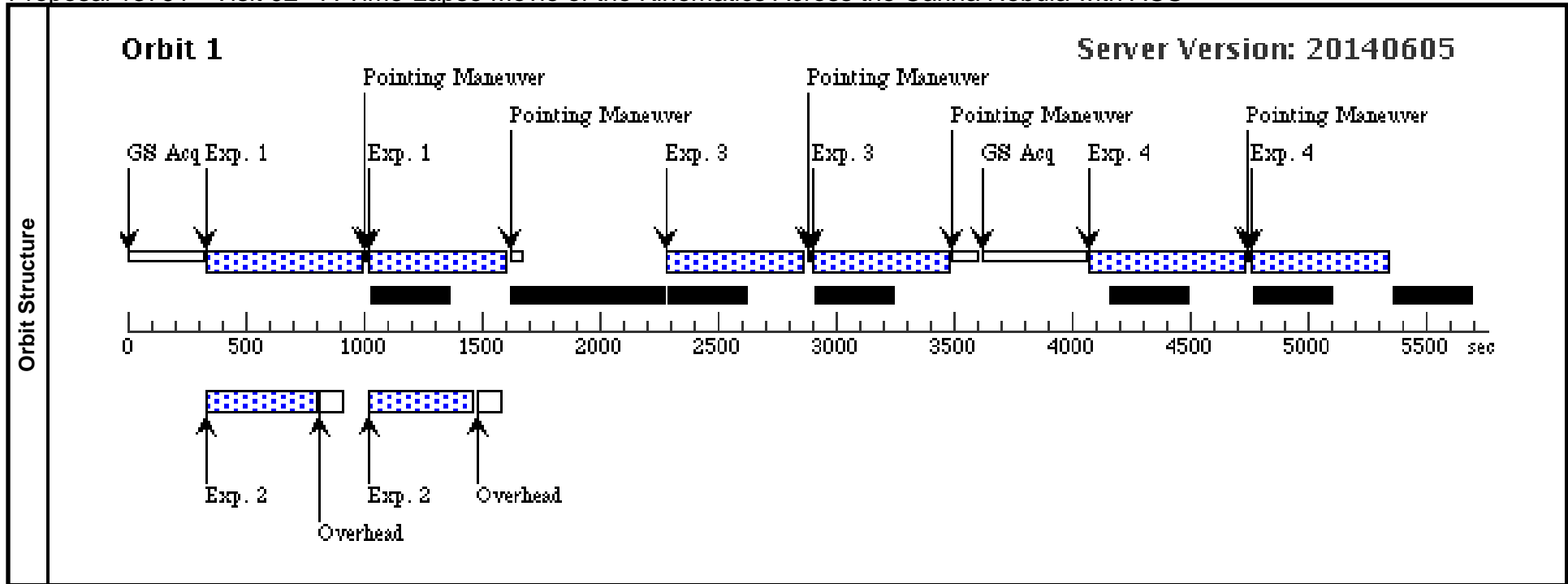
Visit	Proposal 13791, Visit 01, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: CVZ; ORIENT 274D TO 276 D									
	(Visit 01) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE									
Diagnosics										
Patterns	#	Primary Pattern	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), (4)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	N3372-TR15	RA: 10 44 57.0000 (161.2375000d) Dec: -59 27 4.00 (-59.45111d) Equinox: J2000		V=10.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) N3372-TR15	(1) N3372-TR15	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,96.8 16; GS ACQ SCENARI O BASE1B3	Pattern 2, Exps 1-2 i n Visit 01 (2) Prime + Parallel Gro up 1-2 in Pattern 2, E xps 1-2 in Visit 01	455.0 Secs (910 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(1) N3372-TR15	(1) N3372-TR15	WFC3/UVIS, ACCUM, UVIS	F656N			Pattern 2, Exps 1-2 i n Visit 01 (2) Prime + Parallel Gro up 1-2 in Pattern 2, E xps 1-2 in Visit 01	440.0 Secs (880 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(1) N3372-TR15	(1) N3372-TR15	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,0.0	Pattern 2, Exps 3-3 i n Visit 01 (2)	455.0 Secs (910 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	(1) N3372-TR15	(1) N3372-TR15	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,193. 63; GS ACQ SCENARI O BASE1B3	Pattern 2, Exps 4-4 i n Visit 01 (2)	455.0 Secs (910 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 13791 - Visit 02 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Thu Oct 23 01:06:45 GMT 2014

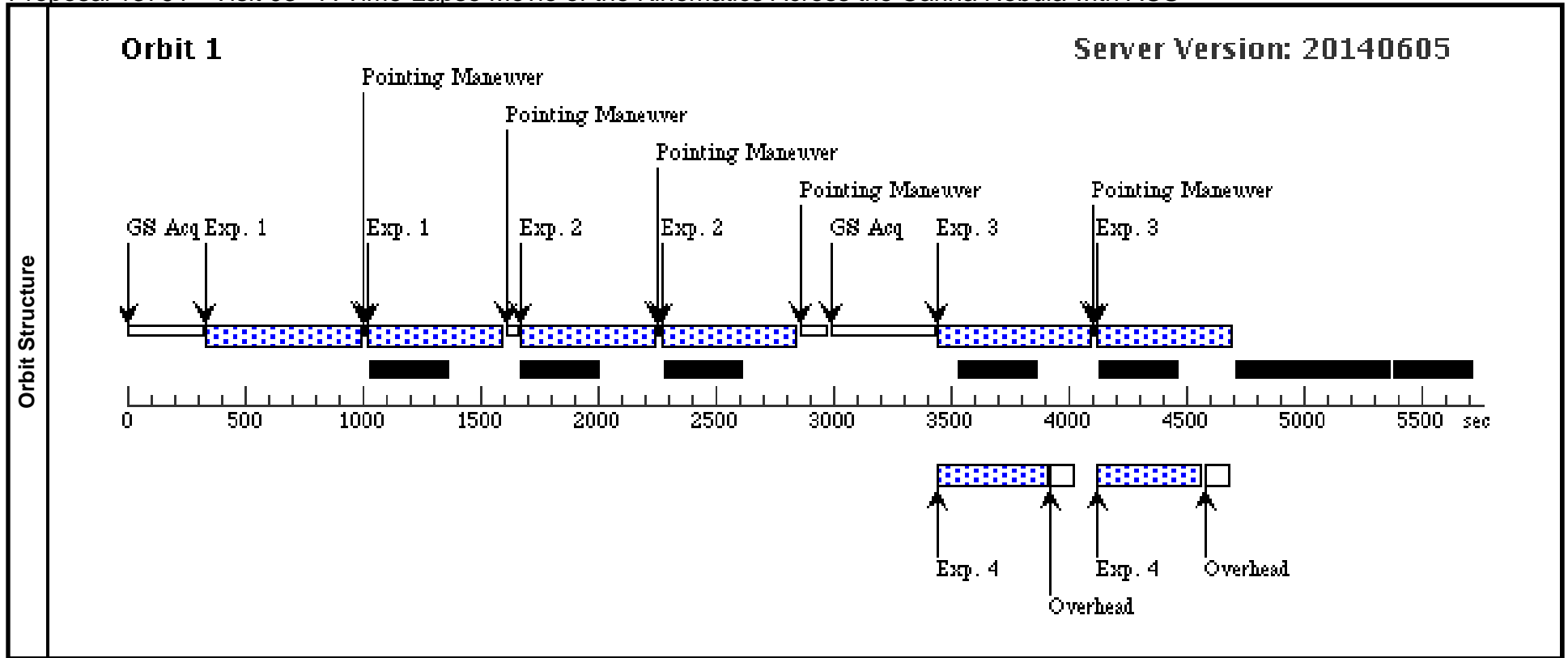
Visit	Proposal 13791, Visit 02, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: CVZ; ORIENT 7D TO 9 D										
	(Visit 02) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE										
Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern			Exposures		
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Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(4)	N3372-POS20	RA: 10 47 1.0000 (161.7541667d) Dec: -60 03 0.00 (-60.05000d) Equinox: J2000				V=10.0	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(4) N3372-POS20	(4) N3372-POS20	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,193.63; GS ACQ SCENARI O BASE1B3	Pattern 2, Exps 1-2 in Visit 02 (2) Prime + Parallel Group 1-2 in Pattern 2, Exps 1-2 in Visit 02	455.0 Secs (910 Secs) [==>(Pattern 1)] [==>(Pattern 2)]		[1]
	2	(4) N3372-POS20	(4) N3372-POS20	WFC3/UVIS, ACCUM, UVIS	F656N			Pattern 2, Exps 1-2 in Visit 02 (2) Prime + Parallel Group 1-2 in Pattern 2, Exps 1-2 in Visit 02	440.0 Secs (880 Secs) [==>(Pattern 1)] [==>(Pattern 2)]		[1]
	3	(4) N3372-POS20	(4) N3372-POS20	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,96.816	Pattern 2, Exps 3-3 in Visit 02 (2)	455.0 Secs (910 Secs) [==>(Pattern 1)] [==>(Pattern 2)]		[1]
	4	(4) N3372-POS20	(4) N3372-POS20	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,0.0; GS ACQ SCENARI O BASE1B3	Pattern 2, Exps 4-4 in Visit 02 (2)	455.0 Secs (910 Secs) [==>(Pattern 1)] [==>(Pattern 2)]		[1]



Proposal 13791 - Visit 03 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

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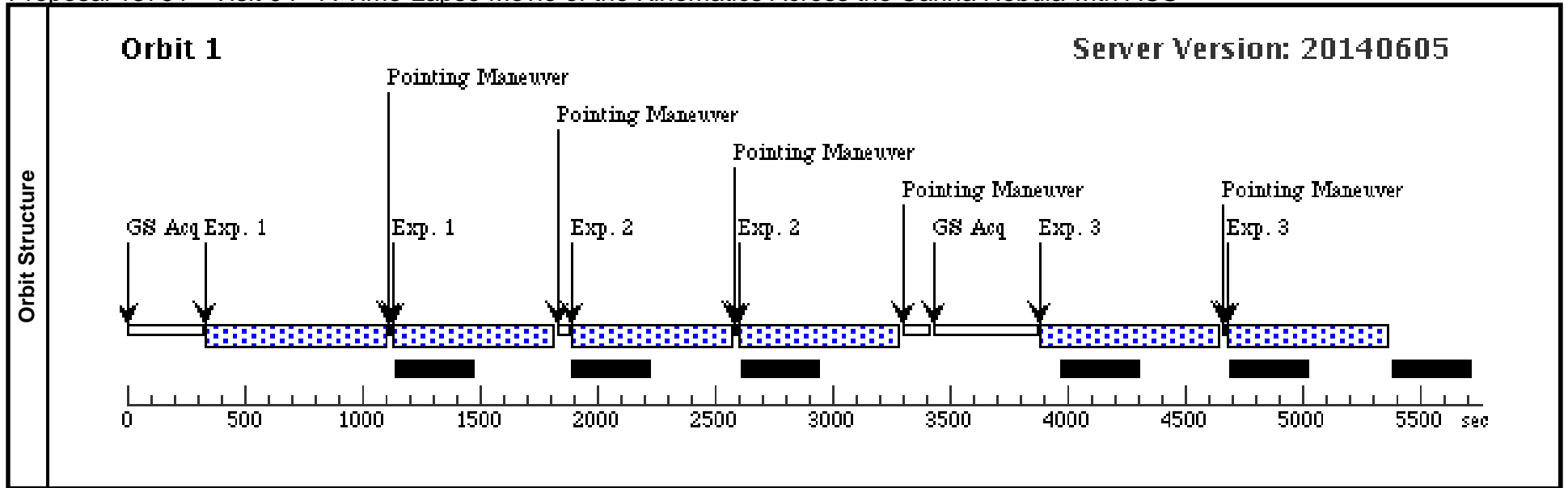
Visit	Proposal 13791, Visit 03, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: CVZ; ORIENT 7D TO 9 D									
	(Visit 03) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	N3372-POS21	RA: 10 46 47.0000 (161.6958333d) Dec: -60 09 15.00 (-60.15417d) Equinox: J2000		V=10.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(5) N3372-POS21	(5) N3372-POS21	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 03 (2)	450.0 Secs (900 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
	2	(5) N3372-POS21	(5) N3372-POS21	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,96.816	Pattern 2, Exps 2-2 in Visit 03 (2)	450.0 Secs (900 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
	3	(5) N3372-POS21	(5) N3372-POS21	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,0.0; 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	445.0 Secs (890 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
	4	(5) N3372-POS21	(5) N3372-POS21	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	440.0 Secs (880 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 13791 - Visit 04 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

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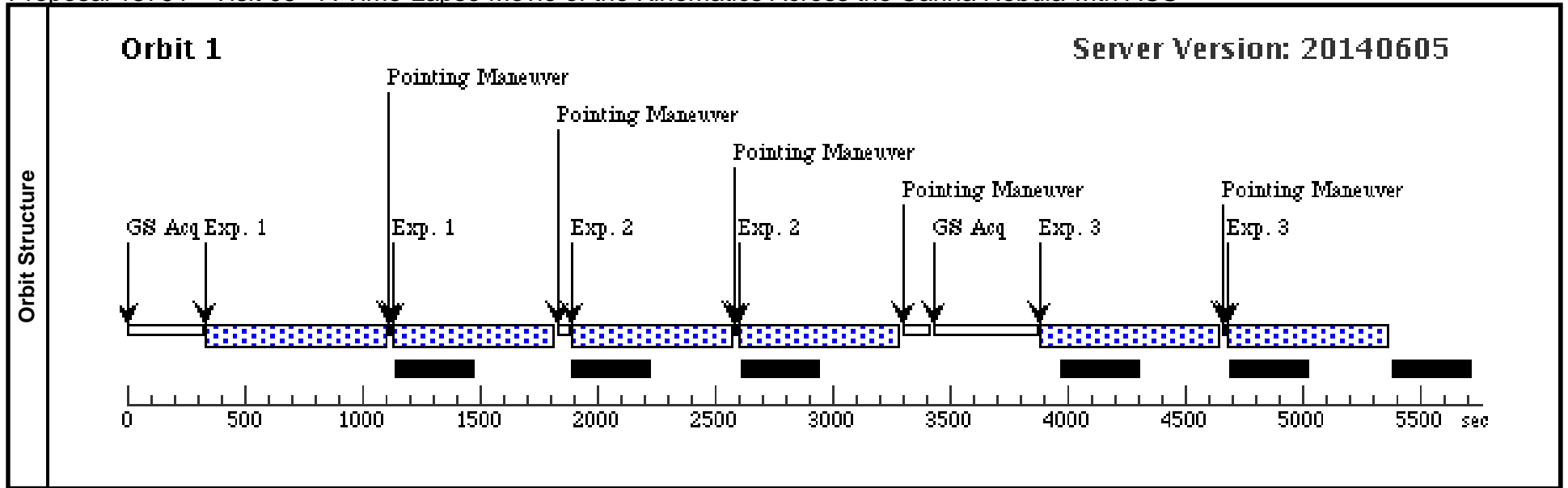
Visit	Proposal 13791, Visit 04, implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: CVZ; ORIENT 7D TO 9 D									
	(Visit 04) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	N3372-POS22	RA: 10 46 32.0000 (161.6333333d) Dec: -60 05 0.00 (-60.08333d) Equinox: J2000		V=10.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(6) N3372-POS22	(6) N3372-POS22	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,193.63; GS ACQ SCENARI O BASE1B3	Pattern 2, Exps 1-1 i n Visit 04 (2)	560.0 Secs (1120 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(6) N3372-POS22	(6) N3372-POS22	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,96.8 16	Pattern 2, Exps 2-2 i n Visit 04 (2)	560.0 Secs (1120 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(6) N3372-POS22	(6) N3372-POS22	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,0.0; GS ACQ SCENARI O BASE1B3	Pattern 2, Exps 3-3 i n Visit 04 (2)	559.0 Secs (1118 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 13791 - Visit 05 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Thu Oct 23 01:06:45 GMT 2014

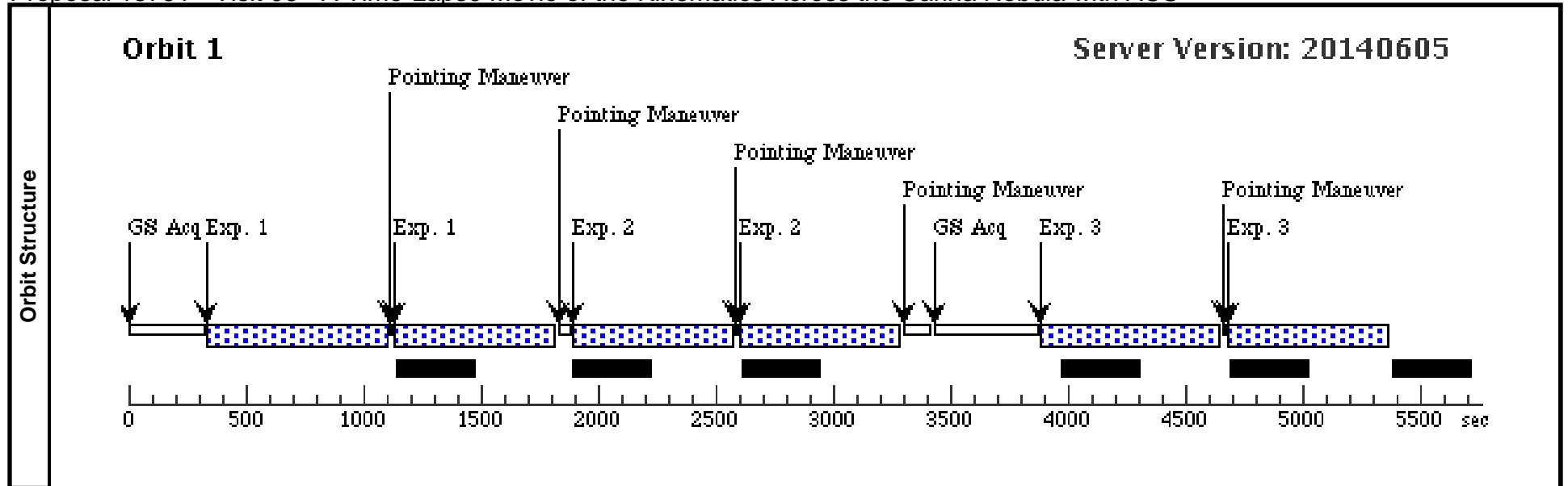
Visit	Proposal 13791, Visit 05, implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: CVZ; ORIENT 7D TO 9 D									
	(Visit 05) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	N3372-POS24	RA: 10 45 53.0000 (161.4708333d)		V=10.0	Reference Frame: ICRS				
		Alt Name1: TREASURE-CHEST	Dec: -59 57 4.00 (-59.95111d)							
		Alt Name2: CPD-592661	Equinox: J2000							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(7) N3372-POS24		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 05 (2)	560.0 Secs (1120 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(7) N3372-POS24		ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,96.816	Pattern 2, Exps 2-2 in Visit 05 (2)	560.0 Secs (1120 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(7) N3372-POS24		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 05 (2)	559.0 Secs (1118 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 13791 - Visit 06 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Thu Oct 23 01:06:45 GMT 2014

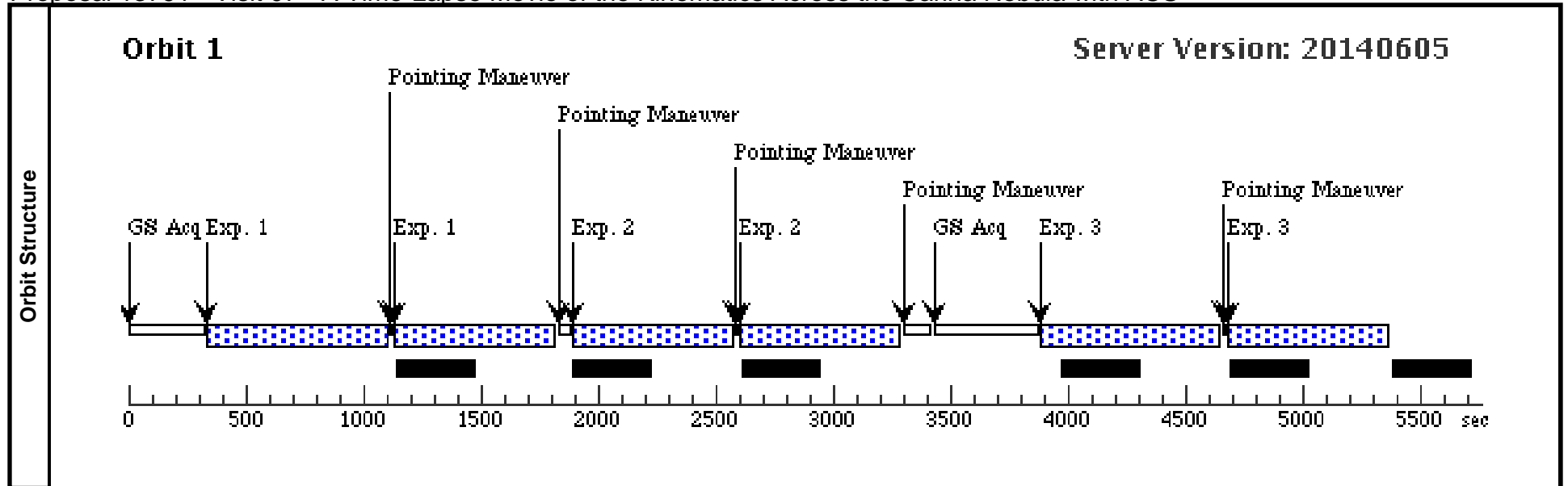
Visit	Proposal 13791, Visit 06, implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: CVZ; ORIENT 9D TO 10.5 D										
	(Visit 06) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE										
Diagnosics											
Patterns	#	Primary Pattern				Secondary 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			
	(8)	N3372-POS25	RA: 10 44 36.0000 (161.1500000d) Dec: -60 25 10.00 (-60.41944d) Equinox: J2000				V=10.0	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(8) N3372-POS25	(8) N3372-POS25	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,-218.63; GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 1-1 in Visit 06 (2)	560.0 Secs (1120 Secs)		
									[==>(Pattern 1)]		[1]
									[==>(Pattern 2)]		
2	(8) N3372-POS25	(8) N3372-POS25	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,-121.816	Pattern 2, Exps 2-2 in Visit 06 (2)	560.0 Secs (1120 Secs)			
								[==>(Pattern 1)]		[1]	
								[==>(Pattern 2)]			
3	(8) N3372-POS25	(8) N3372-POS25	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,-25.0; GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 3-3 in Visit 06 (2)	559.0 Secs (1118 Secs)			
								[==>(Pattern 1)]		[1]	
								[==>(Pattern 2)]			



Proposal 13791 - Visit 07 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Thu Oct 23 01:06:45 GMT 2014

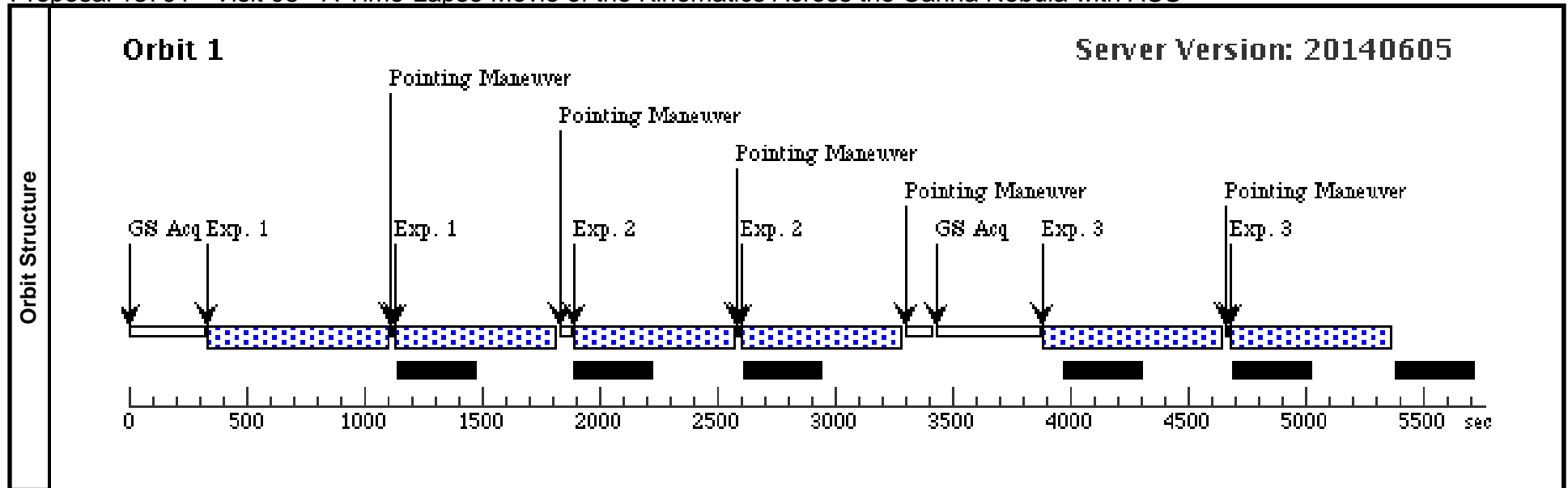
Visit	Proposal 13791, Visit 07, implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: CVZ; ORIENT 7D TO 9 D									
	(Visit 07) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	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				
	(9)	N3372-POS26	RA: 10 45 15.5000 (161.3145833d) Dec: -59 58 25.00 (-59.97361d) Equinox: J2000		V=10.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(9) N3372-POS26	(9) N3372-POS26	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 07 (2)	560.0 Secs (1120 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(9) N3372-POS26	(9) N3372-POS26	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,96.816	Pattern 2, Exps 2-2 in Visit 07 (2)	560.0 Secs (1120 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(9) N3372-POS26	(9) N3372-POS26	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 07 (2)	559.0 Secs (1118 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 13791 - Visit 08 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

Thu Oct 23 01:06:45 GMT 2014

Visit	Proposal 13791, Visit 08, implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: CVZ; ORIENT 8D TO 9 D									
	(Visit 08) 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				
	(10)	N3372-POS27 Alt Name1: TEARDROP	RA: 10 44 43.0000 (161.1791667d) Dec: -59 56 20.00 (-59.93889d) Equinox: J2000		V=10.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(10) N3372-POS27	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,193.63;	GS ACQ SCENARI O BASE1B3	Pattern 2, Exps 1-1 i n Visit 08 (2)	560.0 Secs (1120 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(10) N3372-POS27	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,96.816		Pattern 2, Exps 2-2 i n Visit 08 (2)	560.0 Secs (1120 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(10) N3372-POS27	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,0.0;	GS ACQ SCENARI O BASE1B3	Pattern 2, Exps 3-3 i n Visit 08 (2)	559.0 Secs (1118 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]

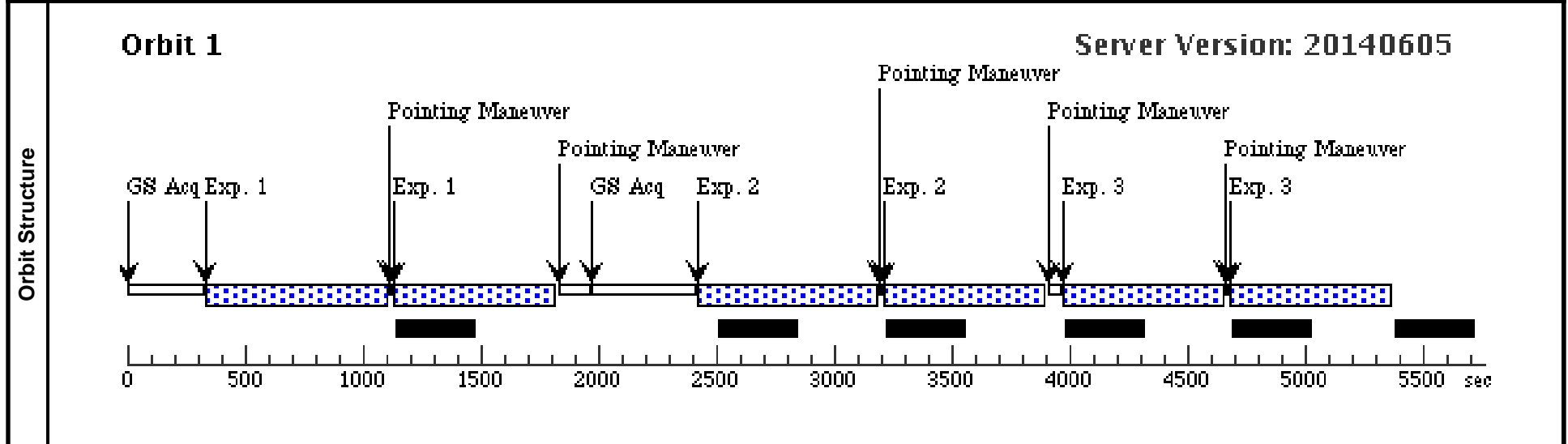


Visit	Proposal 13791, Visit 09, implementation	
	Diagnostic Status: No Diagnostics	
	Scientific Instruments: ACS/WFC	
	Special Requirements: CVZ; ORIENT 10D TO 11 D	

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
	(12)	N3372-POS30	RA: 10 41 38.0000 (160.4083333d) Dec: -59 46 30.00 (-59.77500d) Equinox: J2000		V=10.0	Reference Frame: ICRS

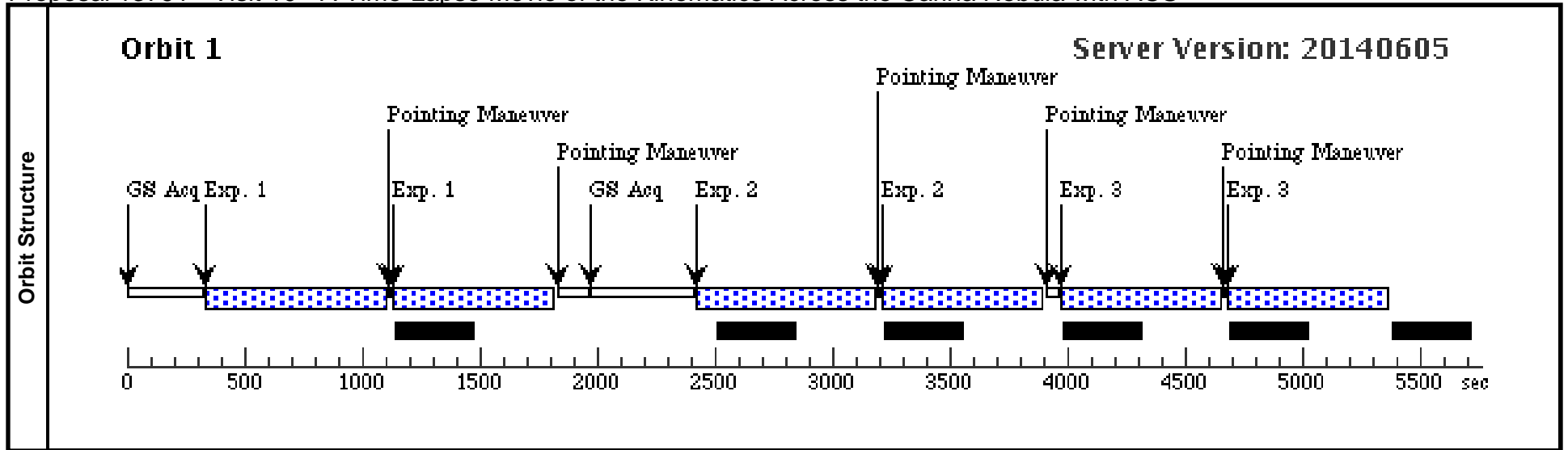
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(12) N3372-POS30	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG -70.0,71.816; GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 1-1 in Visit 09 (2)	560.0 Secs (1120 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
	2		(12) N3372-POS30	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,-121.816; GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 2-2 in Visit 09 (2)	556.0 Secs (1112 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
	3		(12) N3372-POS30	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,-25.0	Pattern 2, Exps 3-3 in Visit 09 (2)	556.0 Secs (1112 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 13791 - Visit 10 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

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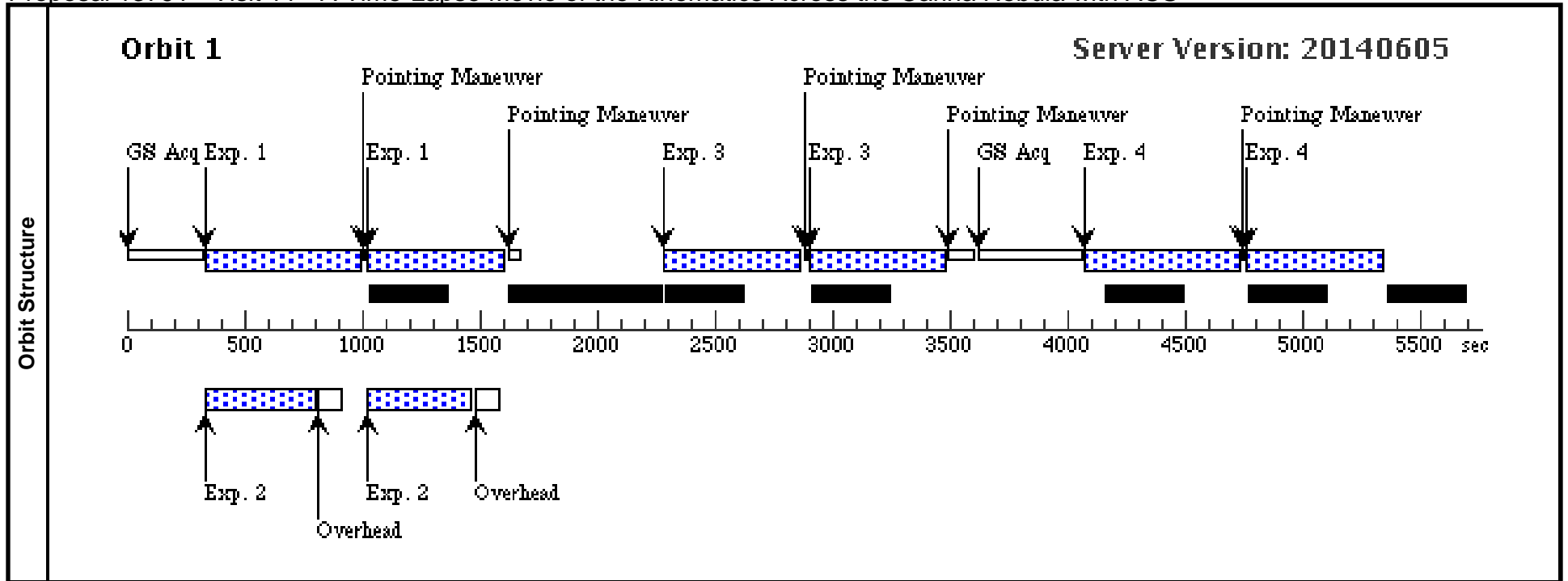
Visit	Proposal 13791, Visit 10, implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: CVZ; ORIENT 8.5D TO 9.5 D										
	(Visit 10) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE										
Diagnosics											
Patterns	#	Primary Pattern				Secondary 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			
	(3)	N3372-POS19	RA: 10 42 25.0000 (160.6041667d) Dec: -59 19 10.00 (-59.31944d) Equinox: J2000				V=10.0	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(3) N3372-POS19	(3) N3372-POS19	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 180.0,0.0;	Pattern 2, Exps 1-1 in Visit 10 (2)	560.0 Secs (1120 Secs)		
							GS ACQ SCENARIO BASE1B3		[==>(Pattern 1)] [==>(Pattern 2)]		[1]
	2	(3) N3372-POS19	(3) N3372-POS19	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,96.816;	Pattern 2, Exps 2-2 in Visit 10 (2)	556.0 Secs (1112 Secs)		
						GS ACQ SCENARIO BASE1B3		[==>(Pattern 1)] [==>(Pattern 2)]		[1]	
3	(3) N3372-POS19	(3) N3372-POS19	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,0.0	Pattern 2, Exps 3-3 in Visit 10 (2)	556.0 Secs (1112 Secs)			
								[==>(Pattern 1)] [==>(Pattern 2)]		[1]	



Proposal 13791 - Visit 11 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

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Visit	Proposal 13791, Visit 11, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: CVZ; ORIENT 16D TO 19 D									
	(Visit 11) 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), (4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(13)	N3372-POS29 Alt Name1: CR228	RA: 10 44 1.0000 (161.0041667d) Dec: -60 03 55.00 (-60.06528d) Equinox: J2000		V=12	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(13) N3372-POS29	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,193.63; GS ACQ SCENARI O BASE1B3	Pattern 2, Exps 1-2 in Visit 11 (2) Prime + Parallel Group 1-2 in Pattern 2, Exps 1-2 in Visit 11	455.0 Secs (910 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	2	(13) N3372-POS29	WFC3/UVIS, ACCUM, UVIS	F656N			Pattern 2, Exps 1-2 in Visit 11 (2) Prime + Parallel Group 1-2 in Pattern 2, Exps 1-2 in Visit 11	440.0 Secs (880 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	3	(13) N3372-POS29	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,96.816	Pattern 2, Exps 3-3 in Visit 11 (2)	455.0 Secs (910 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	4	(13) N3372-POS29	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,0.0; GS ACQ SCENARI O BASE1B3	Pattern 2, Exps 4-4 in Visit 11 (2)	455.0 Secs (910 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]	



Proposal 13791 - Visit 12 - A Time-Lapse Movie of the Kinematics Across the Carina Nebula with ACS

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Visit	Proposal 13791, Visit 12, implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: CVZ; ORIENT 74D TO 76 D									
	(Visit 12) 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				
	(11)	N3372-POS28	RA: 10 39 5.0000 (159.7708333d) Dec: -59 36 0.00 (-59.60000d) Equinox: J2000		V=10.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(11) N3372-POS28	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 12 (2)	560.0 Secs (1120 Secs)	
									[==>(Pattern 1)]	[1]
									[==>(Pattern 2)]	
	2	(11) N3372-POS28	ACS/WFC, ACCUM, WFC	F658N	CR-SPLIT=NO	POS TARG 0.0,96.816		Pattern 2, Exps 2-2 in Visit 12 (2)	560.0 Secs (1120 Secs)	
									[==>(Pattern 1)]	[1]
								[==>(Pattern 2)]		
3	(11) N3372-POS28	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 12 (2)	559.0 Secs (1118 Secs)		
								[==>(Pattern 1)]	[1]	
								[==>(Pattern 2)]		

