



13395 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region in Eta Carinae

Cycle: 21, Proposal Category: GO

(Availability Mode: AVAILABLE)

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) ETA-CAR WAVE	STIS/CCD	1	20-Jan-2015 15:11:26.0	yes
02	(1) ETA-CAR CCDFLAT WAVE	STIS/CCD	4	20-Jan-2015 15:13:14.0	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>
03	(1) ETA-CAR WAVE	STIS/CCD	2	20-Jan-2015 15:14:19.0	yes
04	(1) ETA-CAR CCDFLAT WAVE	STIS/CCD	3	20-Jan-2015 15:16:15.0	yes
07	(1) ETA-CAR WAVE	STIS/CCD	2	20-Jan-2015 15:16:52.0	yes
09	(1) ETA-CAR WAVE	STIS/CCD	1	20-Jan-2015 15:17:06.0	yes

13 Total Orbits Used

ABSTRACT

Our primary goal is to constrain the physical properties of Eta Car's wind-wind collision region and the properties of Eta Car B, the hot, very massive secondary companion that is hidden from our view. We propose to do this by measuring the forbidden emission lines in the extended, interacting wind structures resolved in the inner 1.5 arcseconds region. As the mass-loss structures evolve across the 5.54-year orbital period, we will selectively map their spatial and velocity changes at critical phases using the spatial resolution of HST and moderate spectral resolving power of the STIS to generate spatial (2-D), velocity (1-D) data cubes of regions of critical collisional densities. We will use these spatial-velocity data cubes to drive ongoing 3-D models of the interacting winds, adding radiative transfer. We will (A) strongly constrain the 3-D mass loss from the system and (B) determine the properties of Eta Car B, the source of FUV radiation and the driving wind creating the X-ray emitting cavity out of the dominating wind of Eta Car A.

OBSERVING DESCRIPTION

These observations are planned to observe the extended winds of Eta Carinae at critical times to test current and developing 3D hydrodynamic models that eventually will incorporate radiative transfer. Each visit will map the 1.5" extended winds in forbidden emission lines of high and low ionization species including Fe⁺⁺, Ar⁺⁺, N⁺, Fe⁺ and Ni⁺. CVZ is requested to obtain complete mappings in each of these lines using one G430M grating setting (4706A) and two G750M grating settings (7354 and 5734). The mapping is accomplished with a 52"X0.1" aperture at arbitrary position angles, sampled at 0.05" spacing.

The observations under this program will occur at apastron (phase 0.5) in fall 2011. Cycle 20 observations will be scheduled one year before

Proposal 13395 (STScI Edit Number: 3, Created: Tuesday, January 20, 2015 3:17:10 PM EST) - Overview

periastron (phase 0.8) in summer 2013. Cycle 21 is intended to begin weeks before periastron (phase 0.98) in June 2014, and continue at critical phases just after periastron in fall 2015 (near phases 1.06 and 1.09). We anticipate a very asymmetric recovery structure in [Fe III] and [Ar III] near phase 1.06 with symmetry accomplished by 1.09. The reference phase for structure is at apastron and maximum structures should be between phase 0.8 and 0.98. Mappings already exist for phases 0.084, 0.163 and 0.323 from programs 11506 and 12013 and have been fitted by SPH modeling (Madura et al 2012).

November 26: Visit 3 failed due to guide star loss of lock.

We re-evaluated the science goals and requested regular orbits to accomplish the mappings.

Visit 3 is now broken into two mappings. One mapping in 4706 as soon as schedulable beginning December 15. The other mapping planned for mid-March with 4706 to follow the evolution of [Fe III] and [Fe II] along with He I and He II changes. Note that the maps have been trimmed to 39 positions to fit the two orbit allocation.

Proposal 13395 - Visit 01 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

Tue Jan 20 20:17:10 GMT 2015

Visit	Proposal 13395, Visit 01, completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: PCS MODE FINE; GYRO MODE 3GOBAD; CVZ; BETWEEN 01-FEB-2014:00:00:00 AND 28-FEB-2014:00:00:00 Comments: Schedule near phase 12.9 Feb 2014					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
	(7)	Pattern Type=STIS-PERP-TO-SLIT Purpose=MOSAIC Number Of Points=41 Point Spacing=.05 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=true		(3)	
	(9)	Pattern Type=STIS-PERP-TO-SLIT Purpose=MOSAIC Number Of Points=3 Point Spacing=0.05 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=true		(5)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	ETA-CAR	RA: 10 45 3.5910 (161.2649625d) Dec: -59 41 4.26 (-59.68452d) Equinox: J2000 Plate Id: ZZZQ		V=4.5+/-0.2	Reference Frame: GSC1
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.					

Proposal 13395 - Visit 01 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Acquisition exposure	(1) ETA-CAR	STIS/CCD, ACQ, F25ND3	MIRROR				0.5 Secs (0.5 Secs)	
								[==>]	[1]
<i>Comments: Peak=9290 e-, Total=15480 e-, S/N=123</i>									
2	ACQ/Peak	(1) ETA-CAR	STIS/CCD, ACQ/PEAK, 52X0.1	G750M 7795 A				0.5 Secs (0.5 Secs)	
								[==>]	[1]

Exposures

Proposal 13395 - Visit 01 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

3	Mapping [F (1) ETA-CAR e III], [Fe II] , Fe II	STIS/CCD, ACCUM, 52X0.1	G430M 4706 A	CR-SPLIT=2; GAIN=4; SIZEAXIS2=128; WAVECAL=NO	Pattern 7, Exps 3-3 i n Visit 01 (7)	22. Secs (902 Secs)
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[==>(Pattern 1, Split 1)]
[==>(Pattern 1, Split 2)]
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[==>(Pattern 22, Split 2)]
[==>(Pattern 23, Split 1)]

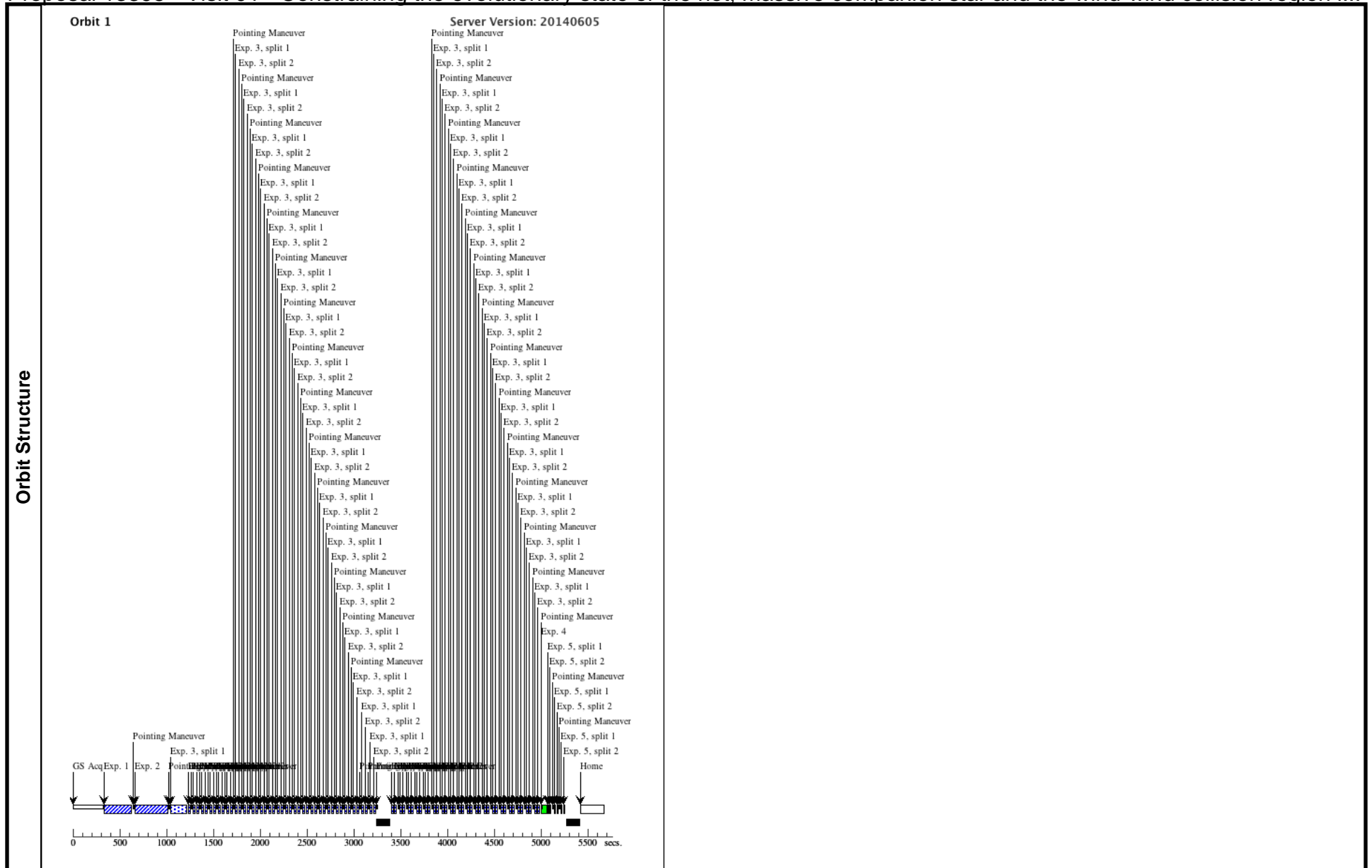
[1]

Proposal 13395 - Visit 01 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

	<p>[==>(Pattern 23, Split 2)] [==>(Pattern 24, Split 1)] [==>(Pattern 24, Split 2)] [==>(Pattern 25, Split 1)] [==>(Pattern 25, Split 2)] [==>(Pattern 26, Split 1)] [==>(Pattern 26, Split 2)] [==>(Pattern 27, Split 1)] [==>(Pattern 27, Split 2)] [==>(Pattern 28, Split 1)] [==>(Pattern 28, Split 2)] [==>(Pattern 29, Split 1)] [==>(Pattern 29, Split 2)] [==>(Pattern 30, Split 1)] [==>(Pattern 30, Split 2)] [==>(Pattern 31, Split 1)] [==>(Pattern 31, Split 2)] [==>(Pattern 32, Split 1)] [==>(Pattern 32, Split 2)] [==>(Pattern 33, Split 1)] [==>(Pattern 33, Split 2)] [==>(Pattern 34, Split 1)] [==>(Pattern 34, Split 2)] [==>(Pattern 35, Split 1)] [==>(Pattern 35, Split 2)] [==>(Pattern 36, Split 1)] [==>(Pattern 36, Split 2)] [==>(Pattern 37, Split 1)] [==>(Pattern 37, Split 2)] [==>(Pattern 38, Split 1)] [==>(Pattern 38, Split 2)] [==>(Pattern 39, Split 1)] [==>(Pattern 39, Split 2)] [==>(Pattern 40, Split 1)] [==>(Pattern 40, Split 2)] [==>(Pattern 41, Split 1)] [==>(Pattern 41, Split 2)]</p>	
<p><i>Comments: two [Fe III] and one [Fe II] line within this grating coverage.</i></p>		
<p>4 4706 WAV WAVE STIS/CCD, ACCUM, 52X0.1 G430M ECAL 4706 A</p>	<p>[==>]</p>	<p>[1]</p>
<p><i>Comments: Placed in earth occultation</i></p>		

Proposal 13395 - Visit 01 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

5	Submapping (1) ETA-CAR [Fe III], [Fe II]	STIS/CCD, ACCUM, 52X0.1	G430M 4706 A	CR-SPLIT=2; GAIN=4; SIZEAXIS2=64	Pattern 9, Exps 5-5 i n Visit 01 (9)	5.0 Secs (15 Secs) [=>(Pattern 1, Split 1)] [=>(Pattern 1, Split 2)] [=>(Pattern 2, Split 1)] [=>(Pattern 2, Split 2)] [=>(Pattern 3, Split 1)] [=>(Pattern 3, Split 2)]	[1]
<i>Comments: Submapping on bright stellar positions.</i>							



Proposal 13395 - Visit 02 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

Visit	Proposal 13395, Visit 02, completed Tue Jan 20 20:17:12 GMT 2015 Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: PCS MODE FINE; GYRO MODE 3GOBAD; CVZ; BETWEEN 31-MAY-2014:00:00:00 AND 30-JUN-2014:00:00:00 Comments: Schedule around 7 June at phase 0.985					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
(6)		Pattern Type=STIS-PERP-TO-SLIT Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=0.0 Number Of Points=7 Angle Between Sides= Point Spacing=0.05 Center Pattern=true Line Spacing=		(5), (8), (11)		
(7)	Pattern Type=STIS-PERP-TO-SLIT Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=0.0 Number Of Points=41 Angle Between Sides= Point Spacing=.05 Center Pattern=true Line Spacing=		(3), (6), (9)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	ETA-CAR	RA: 10 45 3.5910 (161.2649625d) Dec: -59 41 4.26 (-59.68452d) Equinox: J2000 Plate Id: ZZZQ		V=4.5+/-0.2	Reference Frame: GSC1
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.						

Proposal 13395 - Visit 02 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Acquisition exposure	(1) ETA-CAR	STIS/CCD, ACQ, F25ND3	MIRROR				0.5 Secs (0.5 Secs)	
								[==>]	[1]
<i>Comments: Peak=9290 e-, Total=15480 e-, S/N=123</i>									
2	ACQ/Peak	(1) ETA-CAR	STIS/CCD, ACQ/PEAK, 52X0.1	G750M 7795 A				0.5 Secs (0.5 Secs)	
								[==>]	[1]

Exposures

Proposal 13395 - Visit 02 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

3	Mapping [F (1) ETA-CAR e III], [Fe II] , Fe II	STIS/CCD, ACCUM, 52X0.1	G430M 4706 A	CR-SPLIT=2; GAIN=4; SIZEAXIS2=128; WAVECAL=NO	Pattern 7, Exps 3-3 i n Visit 02 (7)	26 Secs (1066 Secs)	
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	<p>[==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)] [==>(Pattern 4, Split 1)] [==>(Pattern 4, Split 2)] [==>(Pattern 5, Split 1)] [==>(Pattern 5, Split 2)] [==>(Pattern 6, Split 1)] [==>(Pattern 6, Split 2)] [==>(Pattern 7, Split 1)] [==>(Pattern 7, Split 2)] [==>(Pattern 8, Split 1)] [==>(Pattern 8, Split 2)] [==>(Pattern 9, Split 1)] [==>(Pattern 9, Split 2)] [==>(Pattern 10, Split 1)] [==>(Pattern 10, Split 2)] [==>(Pattern 11, Split 1)] [==>(Pattern 11, Split 2)] [==>(Pattern 12, Split 1)] [==>(Pattern 12, Split 2)] [==>(Pattern 13, Split 1)] [==>(Pattern 13, Split 2)] [==>(Pattern 14, Split 1)] [==>(Pattern 14, Split 2)] [==>(Pattern 15, Split 1)] [==>(Pattern 15, Split 2)] [==>(Pattern 16, Split 1)] [==>(Pattern 16, Split 2)] [==>(Pattern 17, Split 1)] [==>(Pattern 17, Split 2)] [==>(Pattern 18, Split 1)] [==>(Pattern 18, Split 2)] [==>(Pattern 19, Split 1)] [==>(Pattern 19, Split 2)] [==>(Pattern 20, Split 1)] [==>(Pattern 20, Split 2)] [==>(Pattern 21, Split 1)] [==>(Pattern 21, Split 2)] [==>(Pattern 22, Split 1)] [==>(Pattern 22, Split 2)] [==>(Pattern 23, Split 1)]</p>	<p>[1]</p>
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Proposal 13395 - Visit 02 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

	<p>[==>(Pattern 23, Split 2)] [==>(Pattern 24, Split 1)] [==>(Pattern 24, Split 2)] [==>(Pattern 25, Split 1)] [==>(Pattern 25, Split 2)] [==>(Pattern 26, Split 1)] [==>(Pattern 26, Split 2)] [==>(Pattern 27, Split 1)] [==>(Pattern 27, Split 2)] [==>(Pattern 28, Split 1)] [==>(Pattern 28, Split 2)] [==>(Pattern 29, Split 1)] [==>(Pattern 29, Split 2)] [==>(Pattern 30, Split 1)] [==>(Pattern 30, Split 2)] [==>(Pattern 31, Split 1)] [==>(Pattern 31, Split 2)] [==>(Pattern 32, Split 1)] [==>(Pattern 32, Split 2)] [==>(Pattern 33, Split 1)] [==>(Pattern 33, Split 2)] [==>(Pattern 34, Split 1)] [==>(Pattern 34, Split 2)] [==>(Pattern 35, Split 1)] [==>(Pattern 35, Split 2)] [==>(Pattern 36, Split 1)] [==>(Pattern 36, Split 2)] [==>(Pattern 37, Split 1)] [==>(Pattern 37, Split 2)] [==>(Pattern 38, Split 1)] [==>(Pattern 38, Split 2)] [==>(Pattern 39, Split 1)] [==>(Pattern 39, Split 2)] [==>(Pattern 40, Split 1)] [==>(Pattern 40, Split 2)] [==>(Pattern 41, Split 1)] [==>(Pattern 41, Split 2)]</p>	
<p><i>Comments: two [Fe III] and one [Fe II] line within this grating coverage.</i></p>		
<p>4 4706 WAV WAVE STIS/CCD, ACCUM, 52X0.1 G430M ECAL 4706 A</p>	<p>[==>]</p>	<p>[1]</p>
<p><i>Comments: Placed in earth occultation</i></p>		

Proposal 13395 - Visit 02 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

5	Submapping (1) ETA-CAR [Fe III], [Fe II]	STIS/CCD, ACCUM, 52X0.1	G430M 4706 A	CR-SPLIT=2; GAIN=4; SIZEAXIS2=64	Pattern 6, Exps 5-5 i n Visit 02 (6)	5.0 Secs (35 Secs)	[=>(Pattern 1, Split 1)] [=>(Pattern 1, Split 2)] [=>(Pattern 2, Split 1)] [=>(Pattern 2, Split 2)] [=>(Pattern 3, Split 1)] [=>(Pattern 3, Split 2)] [=>(Pattern 4, Split 1)] [=>(Pattern 4, Split 2)] [=>(Pattern 5, Split 1)] [=>(Pattern 5, Split 2)] [=>(Pattern 6, Split 1)] [=>(Pattern 6, Split 2)]	[1]
[=>(Pattern 7, Split 1)] [=>(Pattern 7, Split 2)]							[2]	
Comments: Submapping on bright stellar positions.								

Proposal 13395 - Visit 02 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

6	Submapping (1) ETA-CAR [N II]	STIS/CCD, ACCUM, 52X0.1	G750M 5734 A	CR-SPLIT=2; GAIN=4; SIZEAXIS2=128	Pattern 7, Exps 6-6 i n Visit 02 (7)	35.0 Secs (1435 Secs)	
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[==>(Pattern 1, Split 1)]
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[2]

Proposal 13395 - Visit 02 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

	<p>[==>(Pattern 23, Split 2)] [==>(Pattern 24, Split 1)] [==>(Pattern 24, Split 2)] [==>(Pattern 25, Split 1)] [==>(Pattern 25, Split 2)] [==>(Pattern 26, Split 1)] [==>(Pattern 26, Split 2)] [==>(Pattern 27, Split 1)] [==>(Pattern 27, Split 2)] [==>(Pattern 28, Split 1)] [==>(Pattern 28, Split 2)] [==>(Pattern 29, Split 1)] [==>(Pattern 29, Split 2)] [==>(Pattern 30, Split 1)] [==>(Pattern 30, Split 2)] [==>(Pattern 31, Split 1)] [==>(Pattern 31, Split 2)] [==>(Pattern 32, Split 1)] [==>(Pattern 32, Split 2)] [==>(Pattern 33, Split 1)] [==>(Pattern 33, Split 2)] [==>(Pattern 34, Split 1)] [==>(Pattern 34, Split 2)] [==>(Pattern 35, Split 1)] [==>(Pattern 35, Split 2)] [==>(Pattern 36, Split 1)] [==>(Pattern 36, Split 2)] [==>(Pattern 37, Split 1)] [==>(Pattern 37, Split 2)] [==>(Pattern 38, Split 1)] [==>(Pattern 38, Split 2)] [==>(Pattern 39, Split 1)] [==>(Pattern 39, Split 2)] [==>(Pattern 40, Split 1)] [==>(Pattern 40, Split 2)] [==>(Pattern 41, Split 1)] [==>(Pattern 41, Split 2)]</p>	
<p><i>Comments: Mapping [N II] 5755</i></p>		
<p>7 5734 WAV WAVE STIS/CCD, ACCUM, 52X0.1 G750M ECAL 5734 A</p>	<p>[==>]</p>	<p>[2]</p>
<p><i>Comments: WAVECAL inserted in earth occultation or after exposure 7-7 completed</i></p>		

Proposal 13395 - Visit 02 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

8	Mapping [N (1) ETA-CAR II], He I	STIS/CCD, ACCUM, 52X0.1	G750M 5734 A	CR-SPLIT=2; GAIN=4; SIZEAXIS2=64	Pattern 6, Exps 8-8 i n Visit 02 (6)	5 Secs (35 Secs)	[==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)] [==>(Pattern 4, Split 1)] [==>(Pattern 4, Split 2)] [==>(Pattern 5, Split 1)] [==>(Pattern 5, Split 2)] [==>(Pattern 6, Split 1)] [==>(Pattern 6, Split 2)] [==>(Pattern 7, Split 1)] [==>(Pattern 7, Split 2)]	[2]
<i>Comments: Bright stellar core mapping</i>								

Proposal 13395 - Visit 02 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

9	Mapping [Ar III], [Fe II], [Ni II]	(1) ETA-CAR	STIS/CCD, ACCUM, 52X0.1	G750M 7283 A	CR-SPLIT=2; GAIN=4; SIZEAXIS2=128	Pattern 7, Exps 9-9 in Visit 02 (7)	34 Secs (1394 Secs) [=>(Pattern 1, Split 1)] [=>(Pattern 1, Split 2)] [=>(Pattern 2, Split 1)] [=>(Pattern 2, Split 2)] [=>(Pattern 3, Split 1)]	[2]
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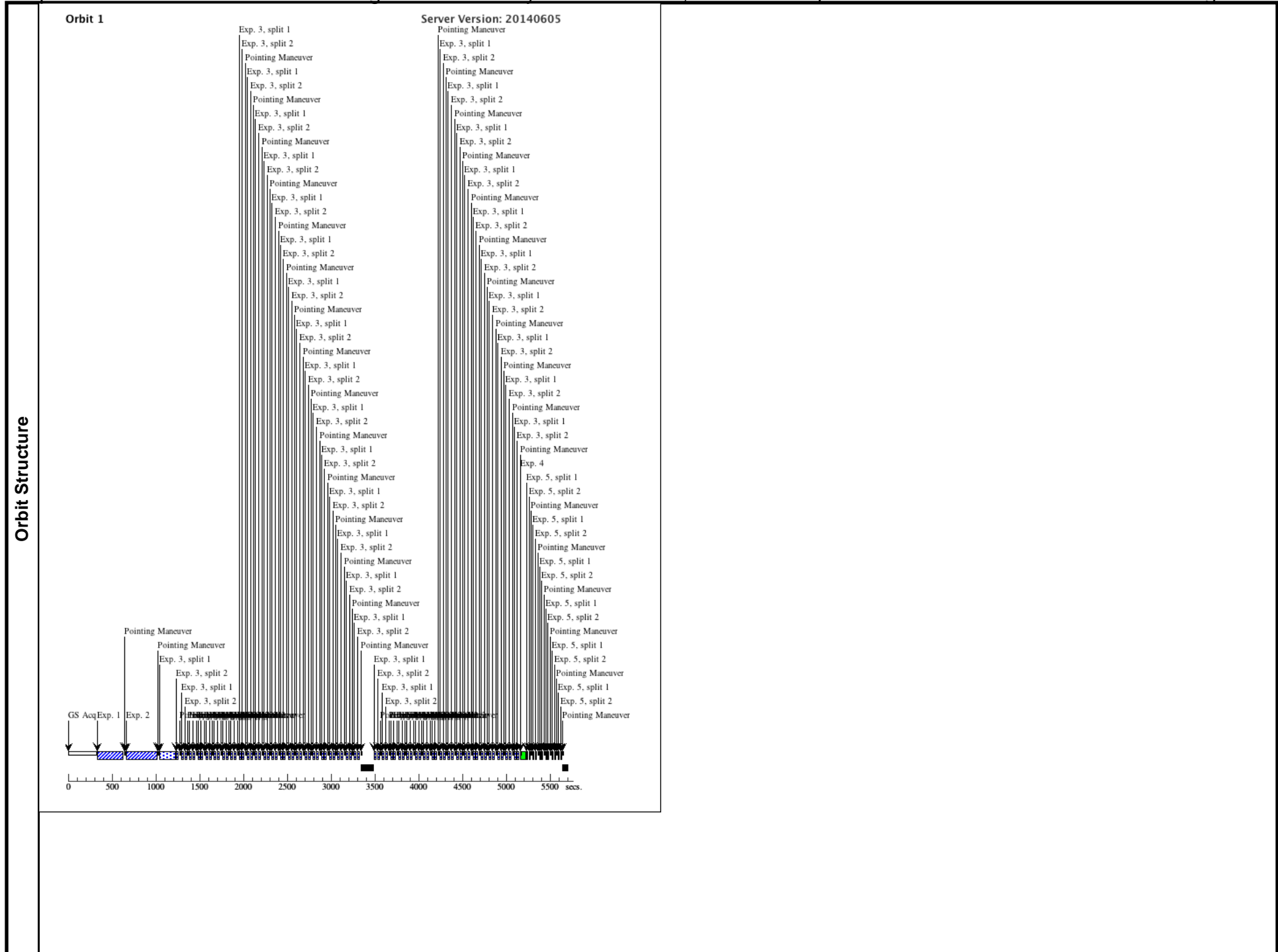
	<p>[==>(Pattern 3, Split 2)] [==>(Pattern 4, Split 1)] [==>(Pattern 4, Split 2)] [==>(Pattern 5, Split 1)] [==>(Pattern 5, Split 2)] [==>(Pattern 6, Split 1)] [==>(Pattern 6, Split 2)] [==>(Pattern 7, Split 1)] [==>(Pattern 7, Split 2)] [==>(Pattern 8, Split 1)] [==>(Pattern 8, Split 2)] [==>(Pattern 9, Split 1)] [==>(Pattern 9, Split 2)] [==>(Pattern 10, Split 1)] [==>(Pattern 10, Split 2)] [==>(Pattern 11, Split 1)] [==>(Pattern 11, Split 2)] [==>(Pattern 12, Split 1)] [==>(Pattern 12, Split 2)] [==>(Pattern 13, Split 1)] [==>(Pattern 13, Split 2)] [==>(Pattern 14, Split 1)] [==>(Pattern 14, Split 2)] [==>(Pattern 15, Split 1)] [==>(Pattern 15, Split 2)] [==>(Pattern 16, Split 1)] [==>(Pattern 16, Split 2)] [==>(Pattern 17, Split 1)] [==>(Pattern 17, Split 2)] [==>(Pattern 18, Split 1)] [==>(Pattern 18, Split 2)] [==>(Pattern 19, Split 1)] [==>(Pattern 19, Split 2)] [==>(Pattern 20, Split 1)] [==>(Pattern 20, Split 2)] [==>(Pattern 21, Split 1)] [==>(Pattern 21, Split 2)] [==>(Pattern 22, Split 1)] [==>(Pattern 22, Split 2)] [==>(Pattern 23, Split 1)] [==>(Pattern 23, Split 2)] [==>(Pattern 24, Split 1)] [==>(Pattern 24, Split 2)] [==>(Pattern 25, Split 1)] [==>(Pattern 25, Split 2)]</p>	<p>[3]</p>
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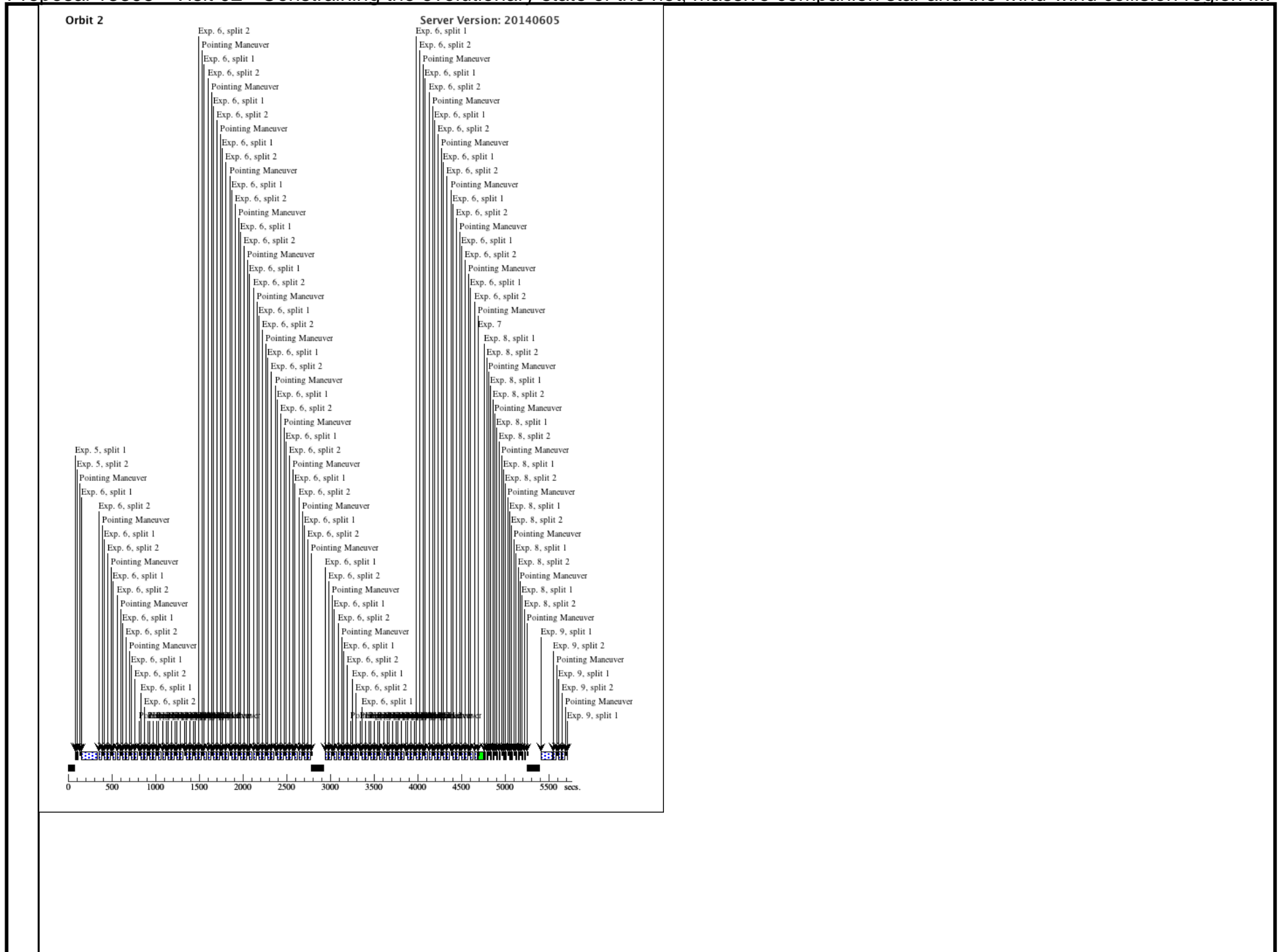
Proposal 13395 - Visit 02 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

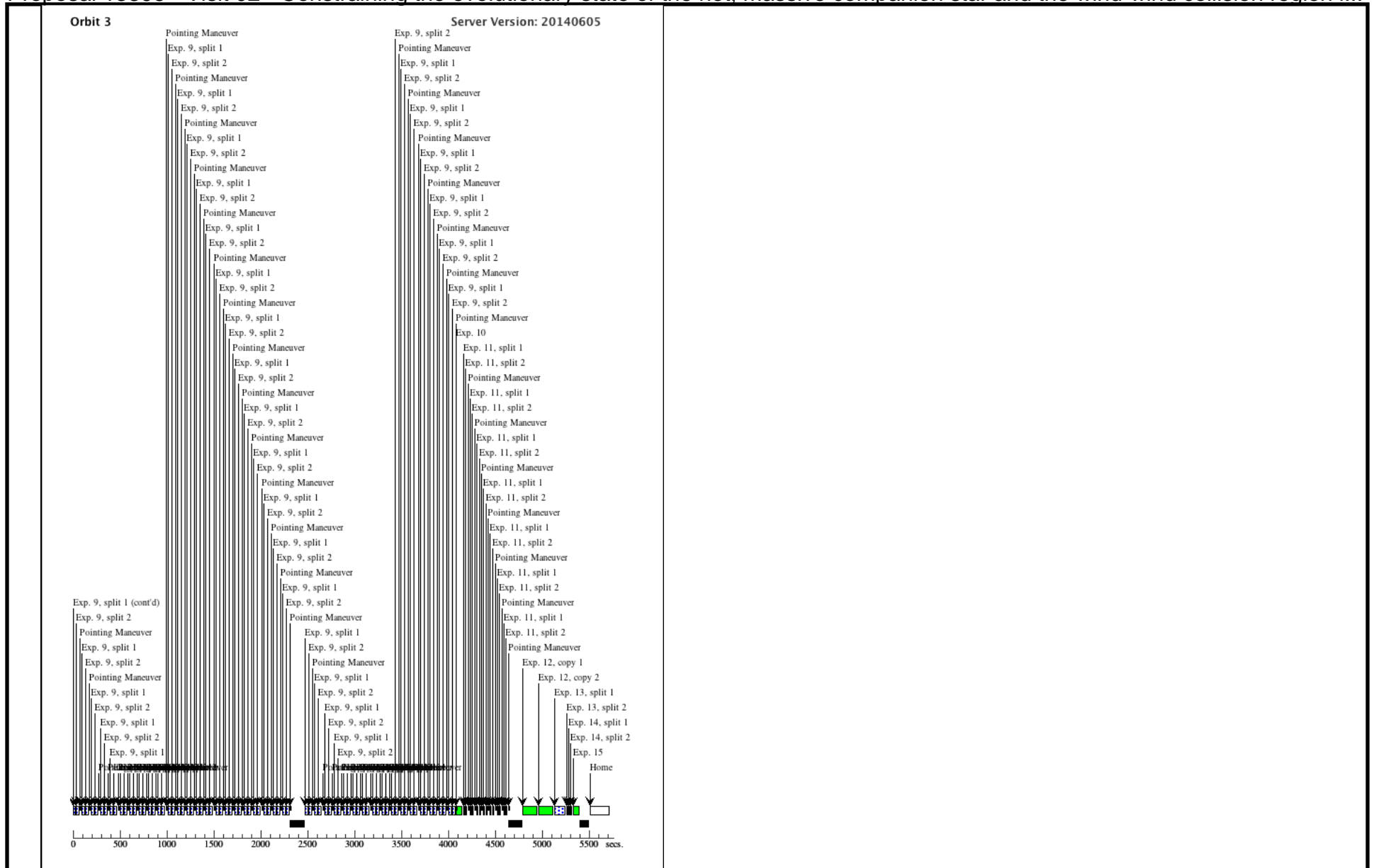
		<p>[==>(Pattern 26, Split 1)] [==>(Pattern 26, Split 2)] [==>(Pattern 27, Split 1)] [==>(Pattern 27, Split 2)] [==>(Pattern 28, Split 1)] [==>(Pattern 28, Split 2)] [==>(Pattern 29, Split 1)] [==>(Pattern 29, Split 2)] [==>(Pattern 30, Split 1)] [==>(Pattern 30, Split 2)] [==>(Pattern 31, Split 1)] [==>(Pattern 31, Split 2)] [==>(Pattern 32, Split 1)] [==>(Pattern 32, Split 2)] [==>(Pattern 33, Split 1)] [==>(Pattern 33, Split 2)] [==>(Pattern 34, Split 1)] [==>(Pattern 34, Split 2)] [==>(Pattern 35, Split 1)] [==>(Pattern 35, Split 2)] [==>(Pattern 36, Split 1)] [==>(Pattern 36, Split 2)] [==>(Pattern 37, Split 1)] [==>(Pattern 37, Split 2)] [==>(Pattern 38, Split 1)] [==>(Pattern 38, Split 2)] [==>(Pattern 39, Split 1)] [==>(Pattern 39, Split 2)] [==>(Pattern 40, Split 1)] [==>(Pattern 40, Split 2)] [==>(Pattern 41, Split 1)] [==>(Pattern 41, Split 2)]</p>	
10	<p>7283 Wavec WAVE al STIS/CCD, ACCUM, 52X0.1 G750M 7283 A</p>	<p>[==>]</p>	<p>[3]</p>

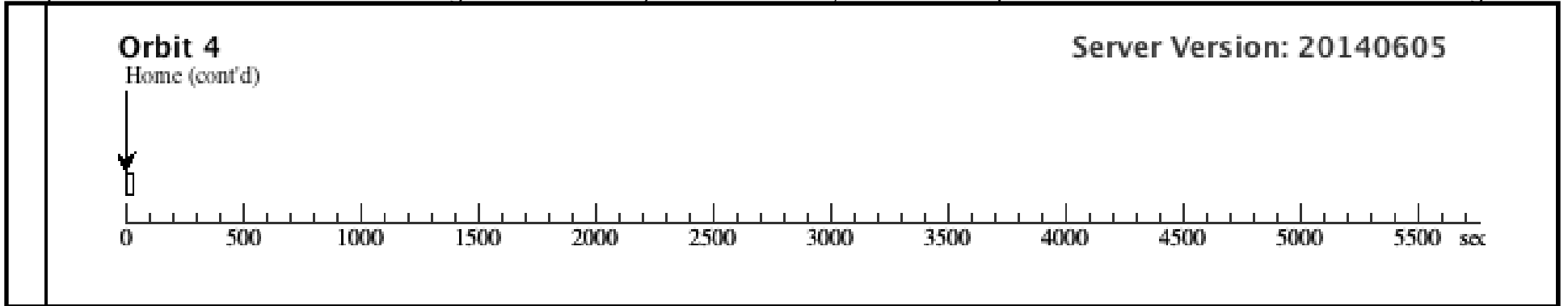
Proposal 13395 - Visit 02 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

11	Sub-mapping g [Ar III], [Fe II], [Ni II]	(1) ETA-CAR	STIS/CCD, ACCUM, 52X0.1	G750M 7283 A	CR-SPLIT=2; GAIN=4; SIZEAXIS2=64	Pattern 6, Exps 11-1 1 in Visit 02 (6)	6 Secs (42 Secs) [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)] [==>(Pattern 4, Split 1)] [==>(Pattern 4, Split 2)] [==>(Pattern 5, Split 1)] [==>(Pattern 5, Split 2)] [==>(Pattern 6, Split 1)] [==>(Pattern 6, Split 2)] [==>(Pattern 7, Split 1)] [==>(Pattern 7, Split 2)]	[3]
<i>Comments: Bright stellar core mapping</i>								
12	7283 Flat	CCDFLAT	STIS/CCD, ACCUM, 52X0.1	G750M 7283 A			[==>(Copy 1)] [==>(Copy 2)]	[3]
13	H alpha short	(1) ETA-CAR	STIS/CCD, ACCUM, 52X0.1	G750M 6768 A	CR-SPLIT=2; GAIN=4; SIZEAXIS2=128		0.2 Secs (0.2 Secs) [==>(Split 1)] [==>(Split 2)]	[3]
14	H alpha long	(1) ETA-CAR	STIS/CCD, ACCUM, 52X0.1	G750M 6768 A	SIZEAXIS2=128; GAIN=4; CR-SPLIT=2		1 Secs (1 Secs) [==>(Split 1)] [==>(Split 2)]	[3]
15	6768 WAV ECAL	WAVE	STIS/CCD, ACCUM, 52X0.1	G750M 6768 A			[==>]	[3]









Proposal 13395 - Visit 03 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

Tue Jan 20 20:17:13 GMT 2015

Visit	Proposal 13395, Visit 03, failed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: PCS MODE FINE; GYRO MODE 3GOBAD; CVZ; BETWEEN 30-OCT-2014:00:00:00 AND 30-NOV-2014:00:00:00 <i>Comments: Schedule around phase 12.7 Oct - Dec, 2014</i>					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
(6)		Pattern Type=STIS-PERP-TO-SLIT Purpose=MOSAIC Number Of Points=7 Point Spacing=0.05 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=true		(5), (8)	
(7)	Pattern Type=STIS-PERP-TO-SLIT Purpose=MOSAIC Number Of Points=41 Point Spacing=.05 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=true		(3), (6)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	ETA-CAR	RA: 10 45 3.5910 (161.2649625d) Dec: -59 41 4.26 (-59.68452d) Equinox: J2000 Plate Id: ZZZQ		V=4.5+/-0.2	Reference Frame: GSC1
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>						

Proposal 13395 - Visit 03 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Acquisition exposure	(1) ETA-CAR	STIS/CCD, ACQ, F25ND3	MIRROR				0.5 Secs (0.5 Secs) [==>]	[1]
<i>Comments: Peak=9290 e-, Total=15480 e-, S/N=123</i>									
2	ACQ/Peak	(1) ETA-CAR	STIS/CCD, ACQ/PEAK, 52X0.1	G750M 7795 A				0.5 Secs (0.5 Secs) [==>]	[1]

Exposures

Proposal 13395 - Visit 03 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

3	Mapping [F (1) ETA-CAR e III], [Fe II] , Fe II	STIS/CCD, ACCUM, 52X0.1	G430M 4706 A	CR-SPLIT=2; GAIN=4; SIZEAXIS2=128; WAVECAL=NO	Pattern 7, Exps 3-3 i n Visit 03 (7)	26 Secs (1066 Secs)	
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	<p>[==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)] [==>(Pattern 4, Split 1)] [==>(Pattern 4, Split 2)] [==>(Pattern 5, Split 1)] [==>(Pattern 5, Split 2)] [==>(Pattern 6, Split 1)] [==>(Pattern 6, Split 2)] [==>(Pattern 7, Split 1)] [==>(Pattern 7, Split 2)] [==>(Pattern 8, Split 1)] [==>(Pattern 8, Split 2)] [==>(Pattern 9, Split 1)] [==>(Pattern 9, Split 2)] [==>(Pattern 10, Split 1)] [==>(Pattern 10, Split 2)] [==>(Pattern 11, Split 1)] [==>(Pattern 11, Split 2)] [==>(Pattern 12, Split 1)] [==>(Pattern 12, Split 2)] [==>(Pattern 13, Split 1)] [==>(Pattern 13, Split 2)] [==>(Pattern 14, Split 1)] [==>(Pattern 14, Split 2)] [==>(Pattern 15, Split 1)] [==>(Pattern 15, Split 2)] [==>(Pattern 16, Split 1)] [==>(Pattern 16, Split 2)] [==>(Pattern 17, Split 1)] [==>(Pattern 17, Split 2)] [==>(Pattern 18, Split 1)] [==>(Pattern 18, Split 2)] [==>(Pattern 19, Split 1)] [==>(Pattern 19, Split 2)] [==>(Pattern 20, Split 1)] [==>(Pattern 20, Split 2)] [==>(Pattern 21, Split 1)] [==>(Pattern 21, Split 2)] [==>(Pattern 22, Split 1)] [==>(Pattern 22, Split 2)] [==>(Pattern 23, Split 1)]</p>	<p>[1]</p>
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Proposal 13395 - Visit 03 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

	<p>[==>(Pattern 23, Split 2)] [==>(Pattern 24, Split 1)] [==>(Pattern 24, Split 2)] [==>(Pattern 25, Split 1)] [==>(Pattern 25, Split 2)] [==>(Pattern 26, Split 1)] [==>(Pattern 26, Split 2)] [==>(Pattern 27, Split 1)] [==>(Pattern 27, Split 2)] [==>(Pattern 28, Split 1)] [==>(Pattern 28, Split 2)] [==>(Pattern 29, Split 1)] [==>(Pattern 29, Split 2)] [==>(Pattern 30, Split 1)] [==>(Pattern 30, Split 2)] [==>(Pattern 31, Split 1)] [==>(Pattern 31, Split 2)] [==>(Pattern 32, Split 1)] [==>(Pattern 32, Split 2)] [==>(Pattern 33, Split 1)] [==>(Pattern 33, Split 2)] [==>(Pattern 34, Split 1)] [==>(Pattern 34, Split 2)] [==>(Pattern 35, Split 1)] [==>(Pattern 35, Split 2)] [==>(Pattern 36, Split 1)] [==>(Pattern 36, Split 2)] [==>(Pattern 37, Split 1)] [==>(Pattern 37, Split 2)] [==>(Pattern 38, Split 1)] [==>(Pattern 38, Split 2)] [==>(Pattern 39, Split 1)] [==>(Pattern 39, Split 2)] [==>(Pattern 40, Split 1)] [==>(Pattern 40, Split 2)] [==>(Pattern 41, Split 1)] [==>(Pattern 41, Split 2)]</p>	
<p><i>Comments: two [Fe III] and one [Fe II] line within this grating coverage.</i></p>		
<p>4 4706 WAV WAVE STIS/CCD, ACCUM, 52X0.1 G430M ECAL 4706 A</p>	<p>[==>]</p>	<p>[1]</p>
<p><i>Comments: Placed in earth occultation</i></p>		

Proposal 13395 - Visit 03 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

5	Submapping (1) ETA-CAR [Fe III], [Fe II]	STIS/CCD, ACCUM, 52X0.1	G430M 4706 A	CR-SPLIT=2; GAIN=4; SIZEAXIS2=64	Pattern 6, Exps 5-5 i n Visit 03 (6)	5.0 Secs (35 Secs)	[=>(Pattern 1, Split 1)] [=>(Pattern 1, Split 2)] [=>(Pattern 2, Split 1)] [=>(Pattern 2, Split 2)] [=>(Pattern 3, Split 1)] [=>(Pattern 3, Split 2)] [=>(Pattern 4, Split 1)] [=>(Pattern 4, Split 2)] [=>(Pattern 5, Split 1)] [=>(Pattern 5, Split 2)] [=>(Pattern 6, Split 1)] [=>(Pattern 6, Split 2)]	[1]
[=>(Pattern 7, Split 1)] [=>(Pattern 7, Split 2)]							[2]	
Comments: Submapping on bright stellar positions.								

Proposal 13395 - Visit 03 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

6	Submapping (1) ETA-CAR [N II]	STIS/CCD, ACCUM, 52X0.1	G750M 5734 A	CR-SPLIT=2; GAIN=4; SIZEAXIS2=128	Pattern 7, Exps 6-6 i n Visit 03 (7)	35.0 Secs (1435 Secs)	
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[==>(Pattern 1, Split 1)]
[==>(Pattern 1, Split 2)]
[==>(Pattern 2, Split 1)]
[==>(Pattern 2, Split 2)]
[==>(Pattern 3, Split 1)]
[==>(Pattern 3, Split 2)]
[==>(Pattern 4, Split 1)]
[==>(Pattern 4, Split 2)]
[==>(Pattern 5, Split 1)]
[==>(Pattern 5, Split 2)]
[==>(Pattern 6, Split 1)]
[==>(Pattern 6, Split 2)]
[==>(Pattern 7, Split 1)]
[==>(Pattern 7, Split 2)]
[==>(Pattern 8, Split 1)]
[==>(Pattern 8, Split 2)]
[==>(Pattern 9, Split 1)]
[==>(Pattern 9, Split 2)]
[==>(Pattern 10, Split 1)]
[==>(Pattern 10, Split 2)]
[==>(Pattern 11, Split 1)]
[==>(Pattern 11, Split 2)]
[==>(Pattern 12, Split 1)]
[==>(Pattern 12, Split 2)]
[==>(Pattern 13, Split 1)]
[==>(Pattern 13, Split 2)]
[==>(Pattern 14, Split 1)]
[==>(Pattern 14, Split 2)]
[==>(Pattern 15, Split 1)]
[==>(Pattern 15, Split 2)]
[==>(Pattern 16, Split 1)]
[==>(Pattern 16, Split 2)]
[==>(Pattern 17, Split 1)]
[==>(Pattern 17, Split 2)]
[==>(Pattern 18, Split 1)]
[==>(Pattern 18, Split 2)]
[==>(Pattern 19, Split 1)]
[==>(Pattern 19, Split 2)]
[==>(Pattern 20, Split 1)]
[==>(Pattern 20, Split 2)]
[==>(Pattern 21, Split 1)]
[==>(Pattern 21, Split 2)]
[==>(Pattern 22, Split 1)]
[==>(Pattern 22, Split 2)]
[==>(Pattern 23, Split 1)]

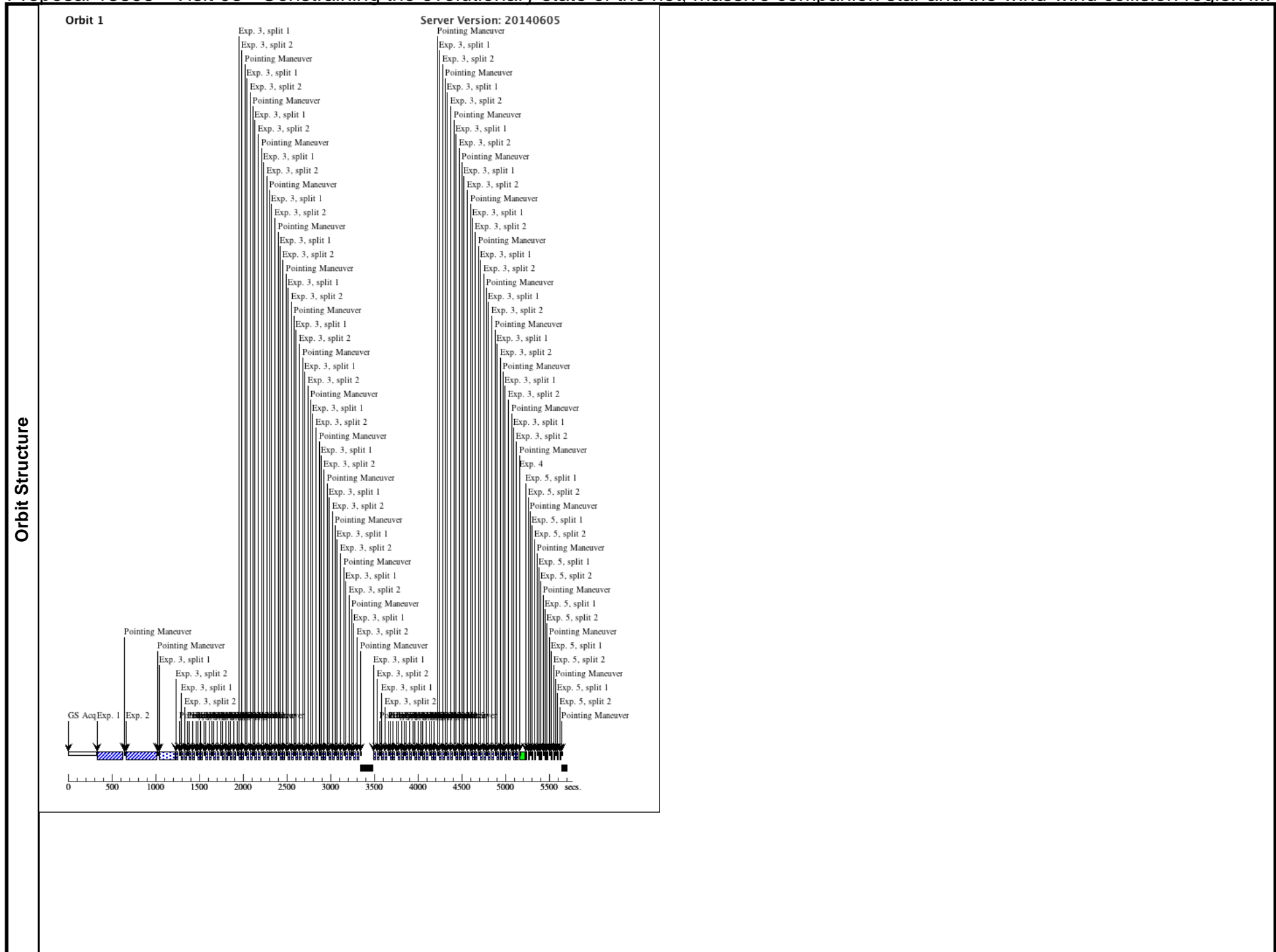
[2]

Proposal 13395 - Visit 03 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

	<p>[==>(Pattern 23, Split 2)] [==>(Pattern 24, Split 1)] [==>(Pattern 24, Split 2)] [==>(Pattern 25, Split 1)] [==>(Pattern 25, Split 2)] [==>(Pattern 26, Split 1)] [==>(Pattern 26, Split 2)] [==>(Pattern 27, Split 1)] [==>(Pattern 27, Split 2)] [==>(Pattern 28, Split 1)] [==>(Pattern 28, Split 2)] [==>(Pattern 29, Split 1)] [==>(Pattern 29, Split 2)] [==>(Pattern 30, Split 1)] [==>(Pattern 30, Split 2)] [==>(Pattern 31, Split 1)] [==>(Pattern 31, Split 2)] [==>(Pattern 32, Split 1)] [==>(Pattern 32, Split 2)] [==>(Pattern 33, Split 1)] [==>(Pattern 33, Split 2)] [==>(Pattern 34, Split 1)] [==>(Pattern 34, Split 2)] [==>(Pattern 35, Split 1)] [==>(Pattern 35, Split 2)] [==>(Pattern 36, Split 1)] [==>(Pattern 36, Split 2)] [==>(Pattern 37, Split 1)] [==>(Pattern 37, Split 2)] [==>(Pattern 38, Split 1)] [==>(Pattern 38, Split 2)] [==>(Pattern 39, Split 1)] [==>(Pattern 39, Split 2)] [==>(Pattern 40, Split 1)] [==>(Pattern 40, Split 2)] [==>(Pattern 41, Split 1)] [==>(Pattern 41, Split 2)]</p>	
<p><i>Comments: Mapping [N II] 5755</i></p>		
<p>7 5734 WAV WAVE STIS/CCD, ACCUM, 52X0.1 G750M ECAL 5734 A</p>	<p>[==>]</p>	<p>[2]</p>
<p><i>Comments: WAVECAL inserted in earth occultation or after exposure 7-7 completed</i></p>		

Proposal 13395 - Visit 03 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

8	Mapping [N (1) ETA-CAR II], He I	STIS/CCD, ACCUM, 52X0.1	G750M 5734 A	CR-SPLIT=2; GAIN=4; SIZEAXIS2=64	Pattern 6, Exps 8-8 i n Visit 03 (6)	5 Secs (35 Secs)	[==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)] [==>(Pattern 4, Split 1)] [==>(Pattern 4, Split 2)] [==>(Pattern 5, Split 1)] [==>(Pattern 5, Split 2)] [==>(Pattern 6, Split 1)] [==>(Pattern 6, Split 2)] [==>(Pattern 7, Split 1)] [==>(Pattern 7, Split 2)]	[2]
<i>Comments: Bright stellar core mapping</i>								



Proposal 13395 - Visit 04 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

Visit	Proposal 13395, Visit 04, scheduled Tue Jan 20 20:17:14 GMT 2015 Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: PCS MODE FINE; GYRO MODE 3GOBAD; CVZ; BETWEEN 05-JAN-2015:00:00:00 AND 31-JAN-2015:00:00:00 <i>Comments: Schedule around January 2015.</i>					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
(6)		Pattern Type=STIS-PERP-TO-SLIT Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=0.0 Number Of Points=7 Angle Between Sides= Point Spacing=0.05 Center Pattern=true Line Spacing=		(5), (8), (11)		
(7)	Pattern Type=STIS-PERP-TO-SLIT Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=0.0 Number Of Points=41 Angle Between Sides= Point Spacing=.05 Center Pattern=true Line Spacing=		(3), (6), (9)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	ETA-CAR	RA: 10 45 3.5910 (161.2649625d) Dec: -59 41 4.26 (-59.68452d) Equinox: J2000 Plate Id: ZZZQ		V=4.5+/-0.2	Reference Frame: GSC1
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>						

Proposal 13395 - Visit 04 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Acquisition exposure	(1) ETA-CAR	STIS/CCD, ACQ, F25ND3	MIRROR				0.5 Secs (0.5 Secs)	
								[==>]	[1]
<i>Comments: Peak=9290 e-, Total=15480 e-, S/N=123</i>									
2	ACQ/Peak	(1) ETA-CAR	STIS/CCD, ACQ/PEAK, 52X0.1	G750M 7795 A				0.5 Secs (0.5 Secs)	
								[==>]	[1]

Exposures

Proposal 13395 - Visit 04 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

3	Mapping [F (1) ETA-CAR e III], [Fe II] , Fe II	STIS/CCD, ACCUM, 52X0.1	G430M 4706 A	CR-SPLIT=2; GAIN=4; SIZEAXIS2=128; WAVECAL=NO	Pattern 7, Exps 3-3 i n Visit 04 (7)	26 Secs (1066 Secs)	
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	<p>[==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)] [==>(Pattern 4, Split 1)] [==>(Pattern 4, Split 2)] [==>(Pattern 5, Split 1)] [==>(Pattern 5, Split 2)] [==>(Pattern 6, Split 1)] [==>(Pattern 6, Split 2)] [==>(Pattern 7, Split 1)] [==>(Pattern 7, Split 2)] [==>(Pattern 8, Split 1)] [==>(Pattern 8, Split 2)] [==>(Pattern 9, Split 1)] [==>(Pattern 9, Split 2)] [==>(Pattern 10, Split 1)] [==>(Pattern 10, Split 2)] [==>(Pattern 11, Split 1)] [==>(Pattern 11, Split 2)] [==>(Pattern 12, Split 1)] [==>(Pattern 12, Split 2)] [==>(Pattern 13, Split 1)] [==>(Pattern 13, Split 2)] [==>(Pattern 14, Split 1)] [==>(Pattern 14, Split 2)] [==>(Pattern 15, Split 1)] [==>(Pattern 15, Split 2)] [==>(Pattern 16, Split 1)] [==>(Pattern 16, Split 2)] [==>(Pattern 17, Split 1)] [==>(Pattern 17, Split 2)] [==>(Pattern 18, Split 1)] [==>(Pattern 18, Split 2)] [==>(Pattern 19, Split 1)] [==>(Pattern 19, Split 2)] [==>(Pattern 20, Split 1)] [==>(Pattern 20, Split 2)] [==>(Pattern 21, Split 1)] [==>(Pattern 21, Split 2)] [==>(Pattern 22, Split 1)] [==>(Pattern 22, Split 2)] [==>(Pattern 23, Split 1)]</p>	<p>[1]</p>
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Proposal 13395 - Visit 04 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

	<p>[==>(Pattern 23, Split 2)] [==>(Pattern 24, Split 1)] [==>(Pattern 24, Split 2)] [==>(Pattern 25, Split 1)] [==>(Pattern 25, Split 2)] [==>(Pattern 26, Split 1)] [==>(Pattern 26, Split 2)] [==>(Pattern 27, Split 1)] [==>(Pattern 27, Split 2)] [==>(Pattern 28, Split 1)] [==>(Pattern 28, Split 2)] [==>(Pattern 29, Split 1)] [==>(Pattern 29, Split 2)] [==>(Pattern 30, Split 1)] [==>(Pattern 30, Split 2)] [==>(Pattern 31, Split 1)] [==>(Pattern 31, Split 2)] [==>(Pattern 32, Split 1)] [==>(Pattern 32, Split 2)] [==>(Pattern 33, Split 1)] [==>(Pattern 33, Split 2)] [==>(Pattern 34, Split 1)] [==>(Pattern 34, Split 2)] [==>(Pattern 35, Split 1)] [==>(Pattern 35, Split 2)] [==>(Pattern 36, Split 1)] [==>(Pattern 36, Split 2)] [==>(Pattern 37, Split 1)] [==>(Pattern 37, Split 2)] [==>(Pattern 38, Split 1)] [==>(Pattern 38, Split 2)] [==>(Pattern 39, Split 1)] [==>(Pattern 39, Split 2)] [==>(Pattern 40, Split 1)] [==>(Pattern 40, Split 2)] [==>(Pattern 41, Split 1)] [==>(Pattern 41, Split 2)]</p>	
<p><i>Comments: two [Fe III] and one [Fe II] line within this grating coverage.</i></p>		
<p>4 4706 WAV WAVE STIS/CCD, ACCUM, 52X0.1 G430M ECAL 4706 A</p>	<p>[==>]</p>	<p>[1]</p>
<p><i>Comments: Placed in earth occultation</i></p>		

Proposal 13395 - Visit 04 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

5	Submapping (1) ETA-CAR [Fe III], [Fe II]	STIS/CCD, ACCUM, 52X0.1	G430M 4706 A	CR-SPLIT=2; GAIN=4; SIZEAXIS2=64	Pattern 6, Exps 5-5 i n Visit 04 (6)	5.0 Secs (35 Secs)	[=>(Pattern 1, Split 1)] [=>(Pattern 1, Split 2)] [=>(Pattern 2, Split 1)] [=>(Pattern 2, Split 2)] [=>(Pattern 3, Split 1)] [=>(Pattern 3, Split 2)] [=>(Pattern 4, Split 1)] [=>(Pattern 4, Split 2)] [=>(Pattern 5, Split 1)] [=>(Pattern 5, Split 2)] [=>(Pattern 6, Split 1)] [=>(Pattern 6, Split 2)]	[1]
[=>(Pattern 7, Split 1)] [=>(Pattern 7, Split 2)]							[2]	
Comments: Submapping on bright stellar positions.								

Proposal 13395 - Visit 04 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

6	Submapping (1) ETA-CAR [N II]	STIS/CCD, ACCUM, 52X0.1	G750M 5734 A	CR-SPLIT=2; GAIN=4; SIZEAXIS2=128	Pattern 7, Exps 6-6 i n Visit 04 (7)	34.0 Secs (1394 Secs)	
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[==>(Pattern 1, Split 1)]
[==>(Pattern 1, Split 2)]
[==>(Pattern 2, Split 1)]
[==>(Pattern 2, Split 2)]
[==>(Pattern 3, Split 1)]
[==>(Pattern 3, Split 2)]
[==>(Pattern 4, Split 1)]
[==>(Pattern 4, Split 2)]
[==>(Pattern 5, Split 1)]
[==>(Pattern 5, Split 2)]
[==>(Pattern 6, Split 1)]
[==>(Pattern 6, Split 2)]
[==>(Pattern 7, Split 1)]
[==>(Pattern 7, Split 2)]
[==>(Pattern 8, Split 1)]
[==>(Pattern 8, Split 2)]
[==>(Pattern 9, Split 1)]
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[==>(Pattern 21, Split 1)]
[==>(Pattern 21, Split 2)]
[==>(Pattern 22, Split 1)]
[==>(Pattern 22, Split 2)]
[==>(Pattern 23, Split 1)]

[2]

Proposal 13395 - Visit 04 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

	<p>[==>(Pattern 23, Split 2)] [==>(Pattern 24, Split 1)] [==>(Pattern 24, Split 2)] [==>(Pattern 25, Split 1)] [==>(Pattern 25, Split 2)] [==>(Pattern 26, Split 1)] [==>(Pattern 26, Split 2)] [==>(Pattern 27, Split 1)] [==>(Pattern 27, Split 2)] [==>(Pattern 28, Split 1)] [==>(Pattern 28, Split 2)] [==>(Pattern 29, Split 1)] [==>(Pattern 29, Split 2)] [==>(Pattern 30, Split 1)] [==>(Pattern 30, Split 2)] [==>(Pattern 31, Split 1)] [==>(Pattern 31, Split 2)] [==>(Pattern 32, Split 1)] [==>(Pattern 32, Split 2)] [==>(Pattern 33, Split 1)] [==>(Pattern 33, Split 2)] [==>(Pattern 34, Split 1)] [==>(Pattern 34, Split 2)] [==>(Pattern 35, Split 1)] [==>(Pattern 35, Split 2)] [==>(Pattern 36, Split 1)] [==>(Pattern 36, Split 2)] [==>(Pattern 37, Split 1)] [==>(Pattern 37, Split 2)] [==>(Pattern 38, Split 1)] [==>(Pattern 38, Split 2)] [==>(Pattern 39, Split 1)] [==>(Pattern 39, Split 2)] [==>(Pattern 40, Split 1)] [==>(Pattern 40, Split 2)] [==>(Pattern 41, Split 1)] [==>(Pattern 41, Split 2)]</p>	
<p><i>Comments: Mapping [N II] 5755</i></p>		
<p>7 5734 WAV WAVE STIS/CCD, ACCUM, 52X0.1 G750M ECAL 5734 A</p>	<p>[==>]</p>	<p>[2]</p>
<p><i>Comments: WAVECAL inserted in earth occultation or after exposure 7-7 completed</i></p>		

Proposal 13395 - Visit 04 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

8	Mapping [N (1) ETA-CAR II], He I	STIS/CCD, ACCUM, 52X0.1	G750M 5734 A	CR-SPLIT=2; GAIN=4; SIZEAXIS2=64	Pattern 6, Exps 8-8 i n Visit 04 (6)	5 Secs (35 Secs)	[=>(Pattern 1, Split 1)] [=>(Pattern 1, Split 2)] [=>(Pattern 2, Split 1)] [=>(Pattern 2, Split 2)] [=>(Pattern 3, Split 1)] [=>(Pattern 3, Split 2)] [=>(Pattern 4, Split 1)] [=>(Pattern 4, Split 2)] [=>(Pattern 5, Split 1)] [=>(Pattern 5, Split 2)] [=>(Pattern 6, Split 1)] [=>(Pattern 6, Split 2)] [=>(Pattern 7, Split 1)] [=>(Pattern 7, Split 2)]	[2]
<i>Comments: Bright stellar core mapping</i>								

Proposal 13395 - Visit 04 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

9	Mapping [Ar III], [Fe II], [Ni II]	(1) ETA-CAR	STIS/CCD, ACCUM, 52X0.1	G750M 7283 A	CR-SPLIT=2; GAIN=4; SIZEAXIS2=128	Pattern 7, Exps 9-9 in Visit 04 (7)	34 Secs (1394 Secs) [=>(Pattern 1, Split 1)] [=>(Pattern 1, Split 2)] [=>(Pattern 2, Split 1)] [=>(Pattern 2, Split 2)] [=>(Pattern 3, Split 1)] [=>(Pattern 3, Split 2)]	[2]
---	------------------------------------	-------------	-------------------------	-----------------	---	-------------------------------------	---	-----

[==>(Pattern 4, Split 1)]
[==>(Pattern 4, Split 2)]
[==>(Pattern 5, Split 1)]
[==>(Pattern 5, Split 2)]
[==>(Pattern 6, Split 1)]
[==>(Pattern 6, Split 2)]
[==>(Pattern 7, Split 1)]
[==>(Pattern 7, Split 2)]
[==>(Pattern 8, Split 1)]
[==>(Pattern 8, Split 2)]
[==>(Pattern 9, Split 1)]
[==>(Pattern 9, Split 2)]
[==>(Pattern 10, Split 1)]
[==>(Pattern 10, Split 2)]
[==>(Pattern 11, Split 1)]
[==>(Pattern 11, Split 2)]
[==>(Pattern 12, Split 1)]
[==>(Pattern 12, Split 2)]
[==>(Pattern 13, Split 1)]
[==>(Pattern 13, Split 2)]
[==>(Pattern 14, Split 1)]
[==>(Pattern 14, Split 2)]
[==>(Pattern 15, Split 1)]
[==>(Pattern 15, Split 2)]
[==>(Pattern 16, Split 1)]
[==>(Pattern 16, Split 2)]
[==>(Pattern 17, Split 1)]
[==>(Pattern 17, Split 2)]
[==>(Pattern 18, Split 1)]
[==>(Pattern 18, Split 2)]
[==>(Pattern 19, Split 1)]
[==>(Pattern 19, Split 2)]
[==>(Pattern 20, Split 1)]
[==>(Pattern 20, Split 2)]
[==>(Pattern 21, Split 1)]
[==>(Pattern 21, Split 2)]
[==>(Pattern 22, Split 1)]
[==>(Pattern 22, Split 2)]
[==>(Pattern 23, Split 1)]
[==>(Pattern 23, Split 2)]
[==>(Pattern 24, Split 1)]
[==>(Pattern 24, Split 2)]
[==>(Pattern 25, Split 1)]
[==>(Pattern 25, Split 2)]
[==>(Pattern 26, Split 1)]

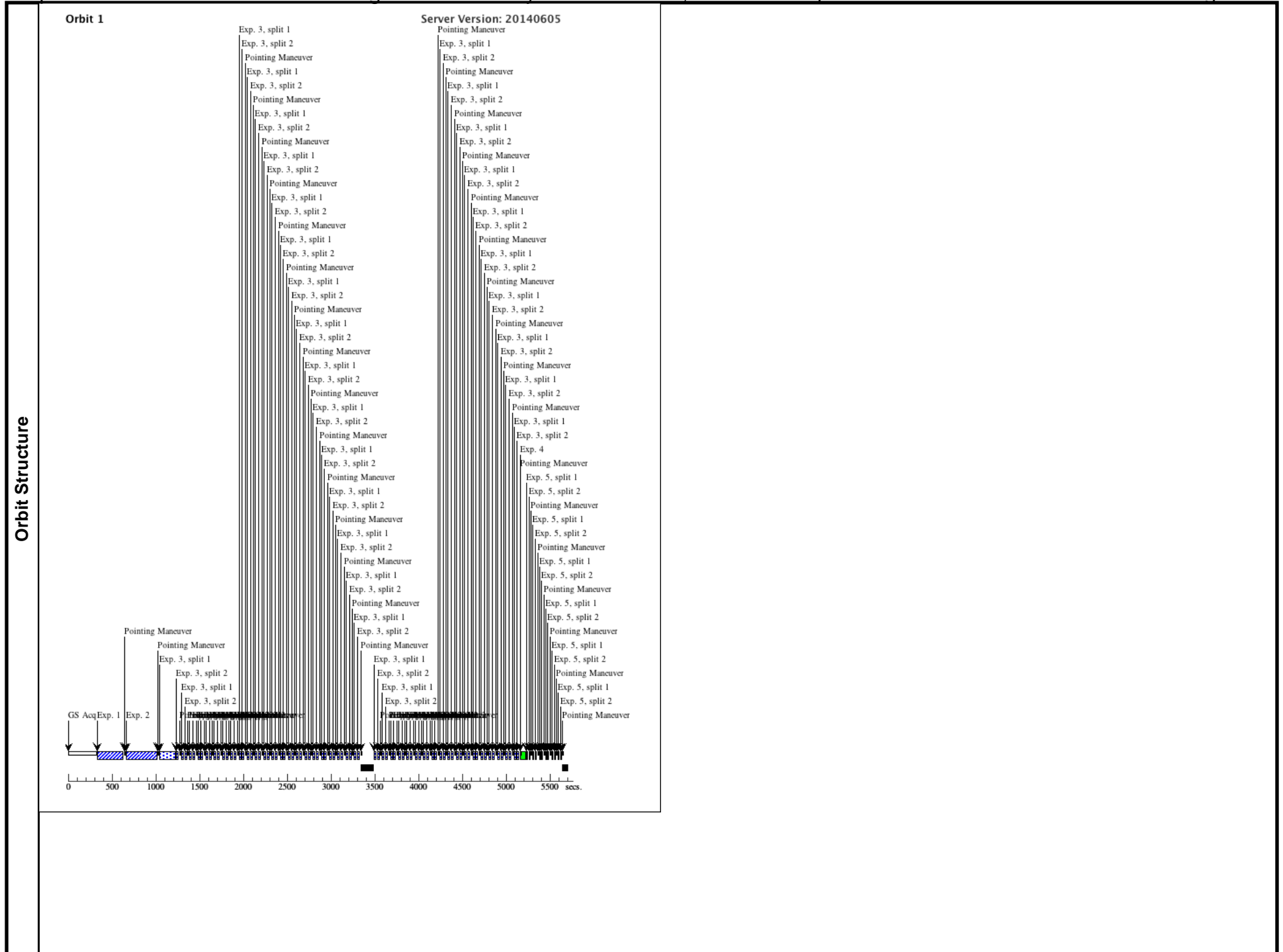
[3]

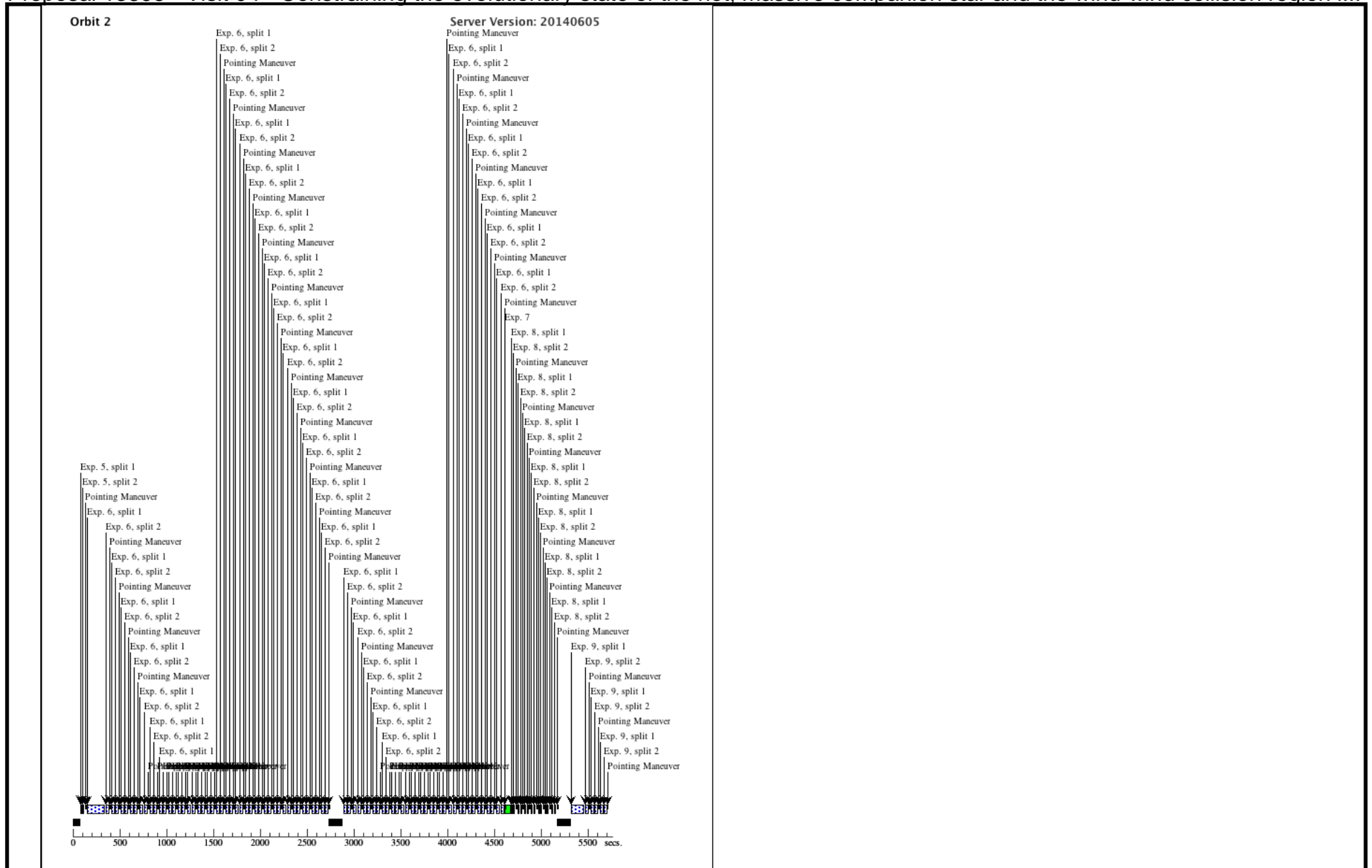
Proposal 13395 - Visit 04 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

		<p>[==>(Pattern 26, Split 2)] [==>(Pattern 27, Split 1)] [==>(Pattern 27, Split 2)] [==>(Pattern 28, Split 1)] [==>(Pattern 28, Split 2)] [==>(Pattern 29, Split 1)] [==>(Pattern 29, Split 2)] [==>(Pattern 30, Split 1)] [==>(Pattern 30, Split 2)] [==>(Pattern 31, Split 1)] [==>(Pattern 31, Split 2)] [==>(Pattern 32, Split 1)] [==>(Pattern 32, Split 2)] [==>(Pattern 33, Split 1)] [==>(Pattern 33, Split 2)] [==>(Pattern 34, Split 1)] [==>(Pattern 34, Split 2)] [==>(Pattern 35, Split 1)] [==>(Pattern 35, Split 2)] [==>(Pattern 36, Split 1)] [==>(Pattern 36, Split 2)] [==>(Pattern 37, Split 1)] [==>(Pattern 37, Split 2)] [==>(Pattern 38, Split 1)] [==>(Pattern 38, Split 2)] [==>(Pattern 39, Split 1)] [==>(Pattern 39, Split 2)] [==>(Pattern 40, Split 1)] [==>(Pattern 40, Split 2)] [==>(Pattern 41, Split 1)] [==>(Pattern 41, Split 2)]</p>	
10	<p>7283 Wavec WAVE al</p> <p>STIS/CCD, ACCUM, 52X0.1</p> <p>G750M 7283 A</p>	<p>[==>]</p>	<p>[3]</p>

Proposal 13395 - Visit 04 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

11	Sub-mapping g [Ar III], [Fe II], [Ni II]	(1) ETA-CAR	STIS/CCD, ACCUM, 52X0.1	G750M 7283 A	CR-SPLIT=2; GAIN=4; SIZEAXIS2=64	Pattern 6, Exps 11-1 1 in Visit 04 (6)	6 Secs (42 Secs) [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)] [==>(Pattern 4, Split 1)] [==>(Pattern 4, Split 2)] [==>(Pattern 5, Split 1)] [==>(Pattern 5, Split 2)] [==>(Pattern 6, Split 1)] [==>(Pattern 6, Split 2)] [==>(Pattern 7, Split 1)] [==>(Pattern 7, Split 2)]	[3]
<i>Comments: Bright stellar core mapping</i>								
12	7283 Flat	CCDFLAT	STIS/CCD, ACCUM, 52X0.1	G750M 7283 A			[==>(Copy 1)] [==>(Copy 2)]	[3]
13	H alpha short	(1) ETA-CAR	STIS/CCD, ACCUM, 52X0.1	G750M 6768 A	CR-SPLIT=2; GAIN=4; SIZEAXIS2=128		0.2 Secs (0.2 Secs) [==>(Split 1)] [==>(Split 2)]	[3]
14	H alpha long	(1) ETA-CAR	STIS/CCD, ACCUM, 52X0.1	G750M 6768 A	SIZEAXIS2=128; GAIN=4; CR-SPLIT=2		1 Secs (1 Secs) [==>(Split 1)] [==>(Split 2)]	[3]
15	6768 WAV ECAL	WAVE	STIS/CCD, ACCUM, 52X0.1	G750M 6768 A			[==>]	[3]





Proposal 13395 - Visit 07 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

Visit	Proposal 13395, Visit 07, completed Tue Jan 20 20:17:15 GMT 2015 Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: PCS MODE FINE; GYRO MODE 3GOBAD; SCHED 100%; BETWEEN 15-DEC-2014:00:00:00 AND 31-DEC-2014:00:00:00 <i>Comments: Schedule asap in December 2014</i>					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
(10)		Pattern Type=STIS-PERP-TO-SLIT Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=0.0 Number Of Points=39 Angle Between Sides= Point Spacing=.05 Center Pattern=true Line Spacing=		(3)		
(6)	Pattern Type=STIS-PERP-TO-SLIT Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=0.0 Number Of Points=7 Angle Between Sides= Point Spacing=0.05 Center Pattern=true Line Spacing=		(5)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	ETA-CAR	RA: 10 45 3.5910 (161.2649625d) Dec: -59 41 4.26 (-59.68452d) Equinox: J2000 Plate Id: ZZZQ		V=4.5+/-0.2	Reference Frame: GSC1
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>						

Proposal 13395 - Visit 07 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Acquisition exposure	(1) ETA-CAR	STIS/CCD, ACQ, F25ND3	MIRROR				0.5 Secs (0.5 Secs)	
								[==>]	[1]
<i>Comments: Peak=9290 e-, Total=15480 e-, S/N=123</i>									
2	ACQ/Peak	(1) ETA-CAR	STIS/CCD, ACQ/PEAK, 52X0.1	G750M 7795 A				0.5 Secs (0.5 Secs)	
								[==>]	[1]

Exposures

Proposal 13395 - Visit 07 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

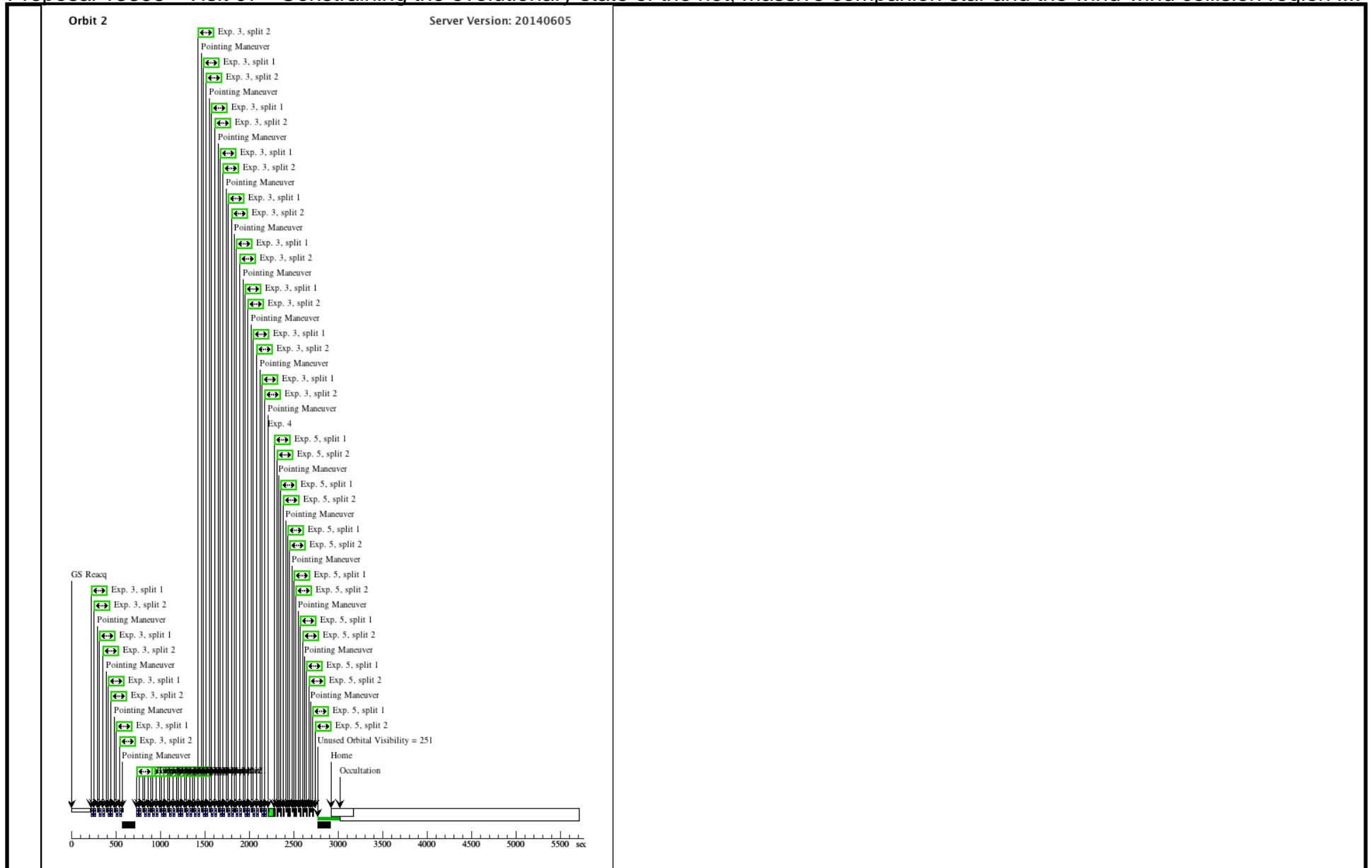
3	Mapping [F (1) ETA-CAR e III], [Fe II] , Fe II	STIS/CCD, ACCUM, 52X0.1	G430M 4706 A	CR-SPLIT=2; GAIN=4; SIZEAXIS2=128; WAVECAL=NO	Pattern 10, Exps 3-3 in Visit 07 (10)	26 Secs (1014 Secs)	[==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)] [==>(Pattern 4, Split 1)] [==>(Pattern 4, Split 2)] [==>(Pattern 5, Split 1)] [==>(Pattern 5, Split 2)] [==>(Pattern 6, Split 1)] [==>(Pattern 6, Split 2)] [==>(Pattern 7, Split 1)] [==>(Pattern 7, Split 2)] [==>(Pattern 8, Split 1)] [==>(Pattern 8, Split 2)] [==>(Pattern 9, Split 1)] [==>(Pattern 9, Split 2)] [==>(Pattern 10, Split 1)] [==>(Pattern 10, Split 2)] [==>(Pattern 11, Split 1)] [==>(Pattern 11, Split 2)] [==>(Pattern 12, Split 1)] [==>(Pattern 12, Split 2)] [==>(Pattern 13, Split 1)] [==>(Pattern 13, Split 2)] [==>(Pattern 14, Split 1)] [==>(Pattern 14, Split 2)] [==>(Pattern 15, Split 1)] [==>(Pattern 15, Split 2)] [==>(Pattern 16, Split 1)] [==>(Pattern 16, Split 2)] [==>(Pattern 17, Split 1)] [==>(Pattern 17, Split 2)] [==>(Pattern 18, Split 1)] [==>(Pattern 18, Split 2)] [==>(Pattern 19, Split 1)] [==>(Pattern 19, Split 2)]	[1]
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Proposal 13395 - Visit 07 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

		<p>[==>(Pattern 20, Split 1)] [==>(Pattern 20, Split 2)] [==>(Pattern 21, Split 1)] [==>(Pattern 21, Split 2)] [==>(Pattern 22, Split 1)] [==>(Pattern 22, Split 2)] [==>(Pattern 23, Split 1)] [==>(Pattern 23, Split 2)] [==>(Pattern 24, Split 1)] [==>(Pattern 24, Split 2)] [==>(Pattern 25, Split 1)] [==>(Pattern 25, Split 2)] [==>(Pattern 26, Split 1)] [==>(Pattern 26, Split 2)] [==>(Pattern 27, Split 1)] [==>(Pattern 27, Split 2)] [==>(Pattern 28, Split 1)] [==>(Pattern 28, Split 2)] [==>(Pattern 29, Split 1)] [==>(Pattern 29, Split 2)] [==>(Pattern 30, Split 1)] [==>(Pattern 30, Split 2)] [==>(Pattern 31, Split 1)] [==>(Pattern 31, Split 2)] [==>(Pattern 32, Split 1)] [==>(Pattern 32, Split 2)] [==>(Pattern 33, Split 1)] [==>(Pattern 33, Split 2)] [==>(Pattern 34, Split 1)] [==>(Pattern 34, Split 2)] [==>(Pattern 35, Split 1)] [==>(Pattern 35, Split 2)] [==>(Pattern 36, Split 1)] [==>(Pattern 36, Split 2)] [==>(Pattern 37, Split 1)] [==>(Pattern 37, Split 2)] [==>(Pattern 38, Split 1)] [==>(Pattern 38, Split 2)] [==>(Pattern 39, Split 1)] [==>(Pattern 39, Split 2)]</p>	<p>[2]</p>
	<p>Comments: two [Fe III] and one [Fe II] line within this grating coverage.</p>		
<p>4</p>	<p>4706 WAV WAVE STIS/CCD, ACCUM, 52X0.1 G430M ECAL 4706 A</p>	<p>[==>]</p>	<p>[2]</p>
	<p>Comments: Placed in earth occultation</p>		

Proposal 13395 - Visit 07 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

5	Submapping (1) ETA-CAR [Fe III], [Fe II]	STIS/CCD, ACCUM, 52X0.1	G430M 4706 A	CR-SPLIT=2; GAIN=4; SIZEAXIS2=64	Pattern 6, Exps 5-5 i n Visit 07 (6)	5.0 Secs (35 Secs)	[==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)] [==>(Pattern 4, Split 1)] [==>(Pattern 4, Split 2)] [==>(Pattern 5, Split 1)] [==>(Pattern 5, Split 2)] [==>(Pattern 6, Split 1)] [==>(Pattern 6, Split 2)] [==>(Pattern 7, Split 1)] [==>(Pattern 7, Split 2)]	[2]
<i>Comments: Submapping on bright stellar positions.</i>								



Proposal 13395 - Visit 09 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

Tue Jan 20 20:17:16 GMT 2015

Visit	Proposal 13395, Visit 09, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: PCS MODE FINE; GYRO MODE 3GOBAD; CVZ; BETWEEN 05-MAR-2015:00:00:00 AND 30-MAR-2015:00:00:00 Comments: Schedule this CVZ visit in March 2015					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
(10)		Pattern Type=STIS-PERP-TO-SLIT Purpose=MOSAIC Number Of Points=39 Point Spacing=.05 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=true		(3)	
(9)		Pattern Type=STIS-PERP-TO-SLIT Purpose=MOSAIC Number Of Points=3 Point Spacing=0.05 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=true		(5)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	ETA-CAR	RA: 10 45 3.5910 (161.2649625d) Dec: -59 41 4.26 (-59.68452d) Equinox: J2000 Plate Id: ZZZQ		V=4.5+/-0.2	Reference Frame: GSC1
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.						

Proposal 13395 - Visit 09 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Acquisition exposure	(1) ETA-CAR	STIS/CCD, ACQ, F25ND3	MIRROR				0.5 Secs (0.5 Secs)	
								[==>]	[1]
<i>Comments: Peak=9290 e-, Total=15480 e-, S/N=123</i>									
2	ACQ/Peak	(1) ETA-CAR	STIS/CCD, ACQ/PEAK, 52X0.1	G750M 7795 A				0.5 Secs (0.5 Secs)	
								[==>]	[1]

Exposures

Proposal 13395 - Visit 09 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

3	Mapping [F (1) ETA-CAR e III], [Fe II] , Fe II	STIS/CCD, ACCUM, 52X0.1	G430M 4706 A	CR-SPLIT=2; GAIN=4; SIZEAXIS2=128; WAVECAL=NO	Pattern 10, Exps 3-3 in Visit 09 (10)	26. Secs (1014 Secs)
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[==>(Pattern 1, Split 1)]
[==>(Pattern 1, Split 2)]
[==>(Pattern 2, Split 1)]
[==>(Pattern 2, Split 2)]
[==>(Pattern 3, Split 1)]
[==>(Pattern 3, Split 2)]
[==>(Pattern 4, Split 1)]
[==>(Pattern 4, Split 2)]
[==>(Pattern 5, Split 1)]
[==>(Pattern 5, Split 2)]
[==>(Pattern 6, Split 1)]
[==>(Pattern 6, Split 2)]
[==>(Pattern 7, Split 1)]
[==>(Pattern 7, Split 2)]
[==>(Pattern 8, Split 1)]
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[==>(Pattern 21, Split 1)]
[==>(Pattern 21, Split 2)]
[==>(Pattern 22, Split 1)]
[==>(Pattern 22, Split 2)]
[==>(Pattern 23, Split 1)]

[1]

Proposal 13395 - Visit 09 - Constraining the evolutionary state of the hot, massive companion star and the wind-wind collision region i...

								[==>(Pattern 23, Split 2)] [==>(Pattern 24, Split 1)] [==>(Pattern 24, Split 2)] [==>(Pattern 25, Split 1)] [==>(Pattern 25, Split 2)] [==>(Pattern 26, Split 1)] [==>(Pattern 26, Split 2)] [==>(Pattern 27, Split 1)] [==>(Pattern 27, Split 2)] [==>(Pattern 28, Split 1)] [==>(Pattern 28, Split 2)] [==>(Pattern 29, Split 1)] [==>(Pattern 29, Split 2)] [==>(Pattern 30, Split 1)] [==>(Pattern 30, Split 2)] [==>(Pattern 31, Split 1)] [==>(Pattern 31, Split 2)] [==>(Pattern 32, Split 1)] [==>(Pattern 32, Split 2)] [==>(Pattern 33, Split 1)] [==>(Pattern 33, Split 2)] [==>(Pattern 34, Split 1)] [==>(Pattern 34, Split 2)] [==>(Pattern 35, Split 1)] [==>(Pattern 35, Split 2)] [==>(Pattern 36, Split 1)] [==>(Pattern 36, Split 2)] [==>(Pattern 37, Split 1)] [==>(Pattern 37, Split 2)] [==>(Pattern 38, Split 1)] [==>(Pattern 38, Split 2)] [==>(Pattern 39, Split 1)] [==>(Pattern 39, Split 2)]	
Comments: two [Fe III] and one [Fe II] line within this grating coverage.									
4	4706 WAV ECAL	WAVE	STIS/CCD, ACCUM, 52X0.1	G430M 4706 A				[==>]	[1]
5	Submapping [Fe III], [Fe II]	(1) ETA-CAR	STIS/CCD, ACCUM, 52X0.1	G430M 4706 A	CR-SPLIT=2; GAIN=4; SIZEAXIS2=64	Pattern 9, Exps 5-5 i n Visit 09 (9)	5.0 Secs (15 Secs)	[==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[1]
Comments: Submapping on bright stellar positions.									

