



12281 - STIS Coronagraphic Imaging of the Kuiper Belt Surrounding the HR 8799 Planetary System.

Cycle: 18, 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) HR8799	STIS/CCD	1	01-Sep-2011 21:01:05.0	yes
02	(1) HR8799	STIS/CCD	1	01-Sep-2011 21:01:10.0	yes
03	(1) HR8799	STIS/CCD	1	01-Sep-2011 21:01:13.0	yes
04	(3) HIP117990	STIS/CCD	1	01-Sep-2011 21:01:16.0	yes
05	(1) HR8799	STIS/CCD	1	01-Sep-2011 21:01:20.0	yes
06	(1) HR8799	STIS/CCD	1	01-Sep-2011 21:01:23.0	yes
07	(1) HR8799	STIS/CCD	1	01-Sep-2011 21:01:26.0	yes
08	(3) HIP117990	STIS/CCD	1	01-Sep-2011 21:01:29.0	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	(1) HR8799	STIS/CCD	1	01-Sep-2011 21:01:36.0	yes
10	(1) HR8799	STIS/CCD	1	01-Sep-2011 21:01:49.0	yes
11	(1) HR8799	STIS/CCD	1	01-Sep-2011 21:02:00.0	yes
12	(3) HIP117990	STIS/CCD	1	01-Sep-2011 21:02:06.0	yes

12 Total Orbits Used

ABSTRACT

The recent imaging detection of exoplanets in wide orbits around Fomalhaut and HR8799 represents the start of a new era in the study of exoplanets. Both planet detections are associated with the presence of a debris disk. Spitzer tells us that HR 8799's debris disk has a warm inner component inside the orbit of HR 8799d, a cooler outer component with a sharp inner edge just beyond the orbit of HR 8799b, and an extended halo of small particles. The disk around HR 8799 has not been imaged in scattered light and is a prime candidate for imaging with the STIS coronagraph. Obtaining a resolved, scattered light image is a key observation, since it would allow: 1) the position angle and inclination of the HR 8799 exoplanetary system to be determined, thus providing the astrometric information required to refine the planetary orbits and constrain their masses; 2) an independent upper limit on the mass of HR 8799b, via its interaction with the outer dust disk, providing a constraint on planetary structure models; 3) constraints on the dust's physical properties and origin; 4) determination of the architecture of HR 8799's exoplanetary system; and 5) limits to be set on the optical photometry for two of the planets.

OBSERVING DESCRIPTION

This is a STIS coronagraphic program. Faint and extended circumstellar material around HR 8799 will be detected using a combination of PSF star imaging and roll-deconvolution.

Proposal 12281 - Visit 01 - STIS Coronagraphic Imaging of the Kuiper Belt Surrounding the HR 8799 Planetary System.

Visit	Proposal 12281, Visit 01, implementation										Fri Sep 02 01:02:10 GMT 2011	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: STIS/CCD											
	Special Requirements: GROUP 01,02,03,04 WITHIN 4 Orbits											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(1)	HR8799	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000				V=5.964		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit	
	1		(1) HR8799	STIS/CCD, ACQ, F25ND3	MIRROR				1 Secs			
									[==>]		[1]	
	2		(1) HR8799	STIS/CCD, ACCUM, WEDGE2.0	MIRROR		CR-SPLIT=5; GAIN=4			2300 Secs		
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)]		[1]	
Orbit Structure	Orbit 1											Server Version: 20110811

Proposal 12281 - Visit 02 - STIS Coronagraphic Imaging of the Kuiper Belt Surrounding the HR 8799 Planetary System.

Visit	Proposal 12281, Visit 02, implementation					Fri Sep 02 01:02:11 GMT 2011				
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: STIS/CCD									
	Special Requirements: ORIENT 15D TO 15.1D FROM 01									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(1)	HR8799	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>			V=5.964		Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) HR8799		STIS/CCD, ACQ, F25ND3	MIRROR				1 Secs [==>]	[1]
	2	(1) HR8799		STIS/CCD, ACCUM, WEDGE2.0	MIRROR	CR-SPLIT=5; GAIN=4			2300 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)]	[1]
Orbit Structure	Orbit 1					Server Version: 20110811				

Proposal 12281 - Visit 03 - STIS Coronagraphic Imaging of the Kuiper Belt Surrounding the HR 8799 Planetary System.

Visit	Proposal 12281, Visit 03, implementation										Fri Sep 02 01:02:11 GMT 2011	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: STIS/CCD											
	Special Requirements: ORIENT 30D TO 30.1D FROM 01											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(1)	HR8799	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000				V=5.964		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit		
	1		(1) HR8799	STIS/CCD, ACQ, F25ND3	MIRROR				1 Secs			
									[==>]	[1]		
	2		(1) HR8799	STIS/CCD, ACCUM, WEDGE2.0	MIRROR	CR-SPLIT=5; GAIN=4			2300 Secs			
									[==>(Split 1)]			
									[==>(Split 2)]			
									[==>(Split 3)]			
									[==>(Split 4)]	[1]		
									[==>(Split 5)]			
Orbit Structure	Orbit 1											Server Version: 20110811

Proposal 12281 - Visit 04 - STIS Coronagraphic Imaging of the Kuiper Belt Surrounding the HR 8799 Planetary System.

Visit	Proposal 12281, Visit 04, implementation					Fri Sep 02 01:02:12 GMT 2011				
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: STIS/CCD									
	Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	HIP117990	RA: 23 55 58.3870 (358.9932792d) Dec: +21 09 57.42 (21.16595d) Equinox: J2000	Proper Motion RA: 17.77 mas/yr Proper Motion Dec: 14.66 mas/yr Epoch of Position: 2000	V=6.748	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(3) HIP117990	STIS/CCD, ACQ, F25ND3	MIRROR					1 Secs [==>]	[1]
	2	(3) HIP117990	STIS/CCD, ACCUM, WEDGE2.0	MIRROR		CR-SPLIT=5; GAIN=4			2300 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)]	[1]
Orbit Structure	Orbit 1 Server Version: 20110811									

Proposal 12281 - Visit 05 - STIS Coronagraphic Imaging of the Kuiper Belt Surrounding the HR 8799 Planetary System.

Visit	Proposal 12281, Visit 05, pi										Fri Sep 02 01:02:13 GMT 2011
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: STIS/CCD										
	Special Requirements: ORIENT 45D TO 90D FROM 01; GROUP 05,06,07,08 WITHIN 4 Orbits										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous			
	(1)	HR8799	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000				V=5.964	Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	(1) HR8799		STIS/CCD, ACQ, F25ND3	MIRROR				1 Secs		
									[==>]	[1]	
	2	(1) HR8799		STIS/CCD, ACCUM, WEDGE2.0	MIRROR	CR-SPLIT=5; GAIN=4			2300 Secs		
									[==>(Split 1)]		
									[==>(Split 2)]		
									[==>(Split 3)]		
									[==>(Split 4)]		
									[==>(Split 5)]	[1]	
Orbit Structure	Orbit 1 Server Version: 20110811										

Proposal 12281 - Visit 06 - STIS Coronagraphic Imaging of the Kuiper Belt Surrounding the HR 8799 Planetary System.

Visit	Proposal 12281, Visit 06, pi										Fri Sep 02 01:02:13 GMT 2011													
	Diagnostic Status: No Diagnostics																							
	Scientific Instruments: STIS/CCD																							
	Special Requirements: ORIENT 15D TO 15.1D FROM 05																							
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous															
	(1)	HR8799	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000				V=5.964		Reference Frame: ICRS															
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.																								
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit												
	1		(1) HR8799	STIS/CCD, ACQ, F25ND3		MIRROR				1 Secs														
										[==>]		[1]												
	2		(1) HR8799	STIS/CCD, ACCUM, WEDGE2.0		MIRROR	CR-SPLIT=5; GAIN=4				2300 Secs													
										[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)]		[1]												
Orbit Structure	Orbit 1												Server Version: 20110811											

Proposal 12281 - Visit 07 - STIS Coronagraphic Imaging of the Kuiper Belt Surrounding the HR 8799 Planetary System.

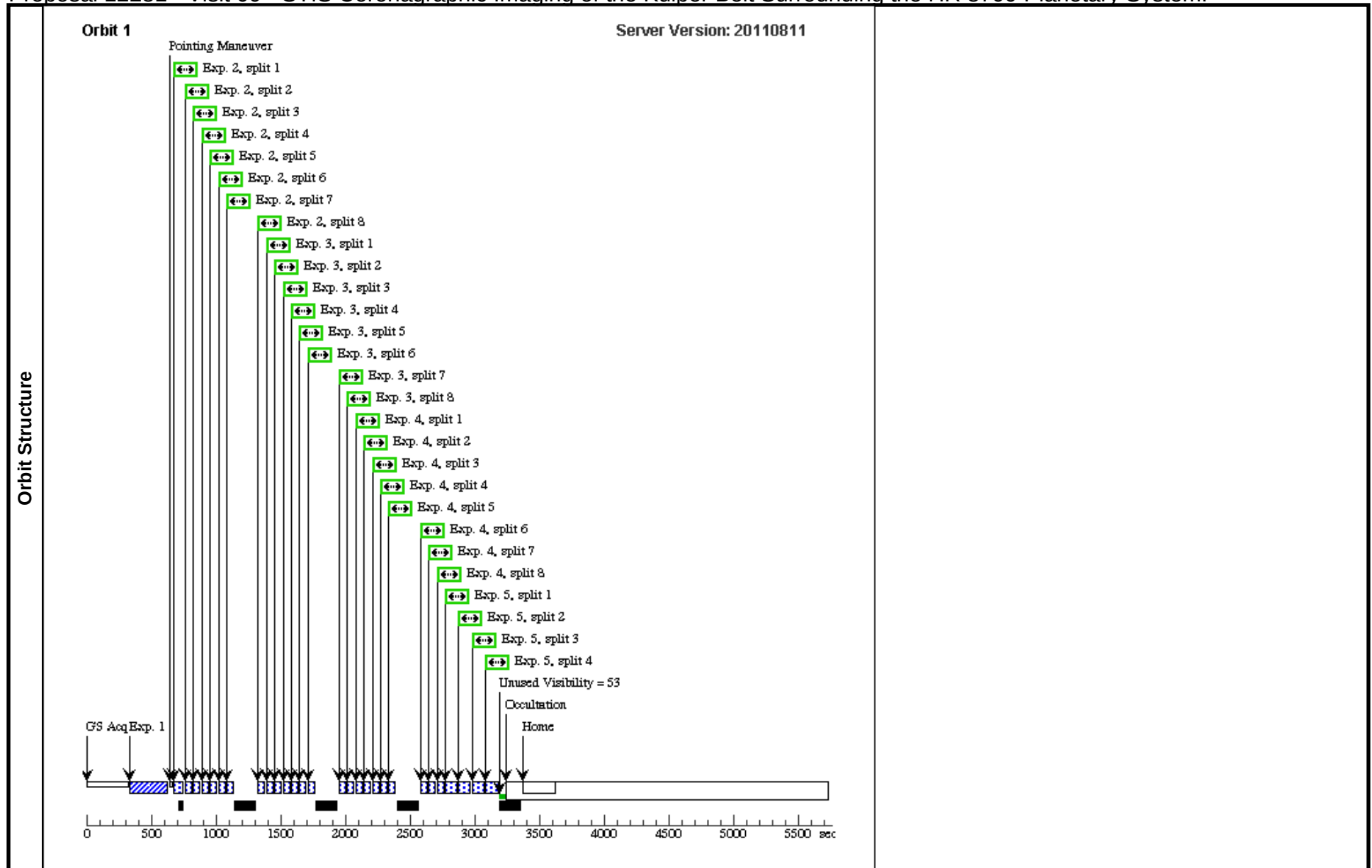
Visit	Proposal 12281, Visit 07, pi					Fri Sep 02 01:02:13 GMT 2011				
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: STIS/CCD									
	Special Requirements: ORIENT 30D TO 30.1D FROM 05									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	HR8799	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000		V=5.964	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) HR8799		STIS/CCD, ACQ, F25ND3	MIRROR				1 Secs	
									[==>]	[1]
	2	(1) HR8799		STIS/CCD, ACCUM, WEDGE2.0	MIRROR	CR-SPLIT=5; GAIN=4			2300 Secs	
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)]	[1]
Orbit Structure	Orbit 1 Server Version: 20110811									

Proposal 12281 - Visit 08 - STIS Coronagraphic Imaging of the Kuiper Belt Surrounding the HR 8799 Planetary System.

Visit	Proposal 12281, Visit 08, pi					Fri Sep 02 01:02:14 GMT 2011				
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: STIS/CCD									
	Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	HIP117990	RA: 23 55 58.3870 (358.9932792d) Dec: +21 09 57.42 (21.16595d) Equinox: J2000	Proper Motion RA: 17.77 mas/yr Proper Motion Dec: 14.66 mas/yr Epoch of Position: 2000	V=6.748	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(3) HIP117990	STIS/CCD, ACQ, F25ND3	MIRROR					1 Secs	
									[==>]	[1]
	2	(3) HIP117990	STIS/CCD, ACCUM, WEDGE2.0	MIRROR		CR-SPLIT=5; GAIN=4			2300 Secs	
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)]	[1]
Orbit Structure	Orbit 1					Server Version: 20110811				

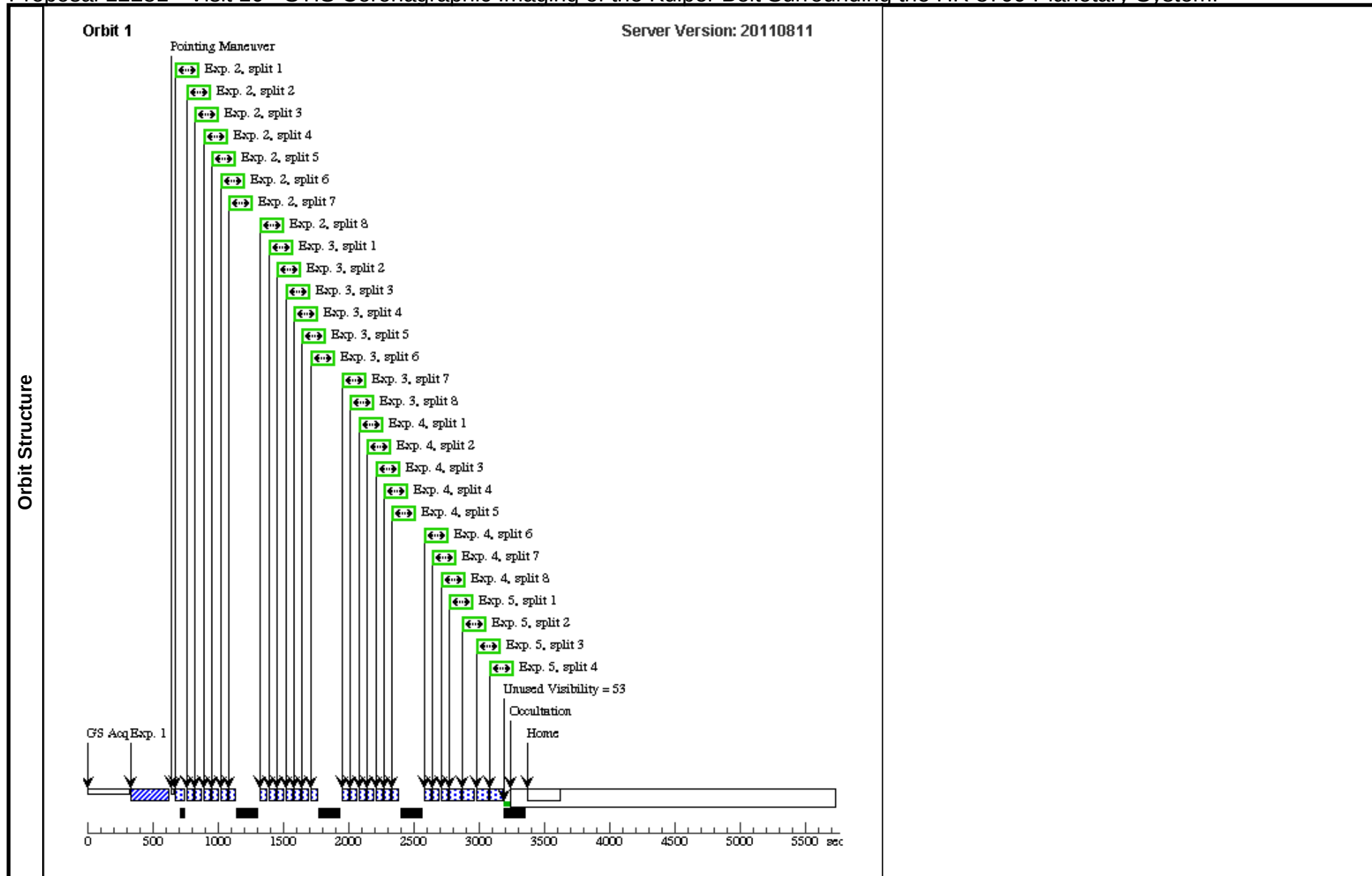
Proposal 12281 - Visit 09 - STIS Coronagraphic Imaging of the Kuiper Belt Surrounding the HR 8799 Planetary System.

Visit	Proposal 12281, Visit 09, implementation										Fri Sep 02 01:02:14 GMT 2011
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: STIS/CCD										
	Special Requirements: ORIENT 75D TO 75.1 D; GROUP 09,10,11,12 WITHIN 4 Orbits										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous		
	(1)	HR8799	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000				V=5.964		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(1) HR8799	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARI O BASE1B3		1 Secs		
									[==>]	[1]	
	2		(1) HR8799	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	CR-SPLIT=8; GAIN=4			160 Secs		
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)] [==>(Split 8)]	[1]	
	3		(1) HR8799	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	CR-SPLIT=8; GAIN=4			160 Secs		
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)] [==>(Split 8)]	[1]	
	4		(1) HR8799	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	CR-SPLIT=8; GAIN=4			160 Secs		
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)] [==>(Split 8)]	[1]	
	5		(1) HR8799	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	CR-SPLIT=4; GAIN=4			240 Secs		
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]	



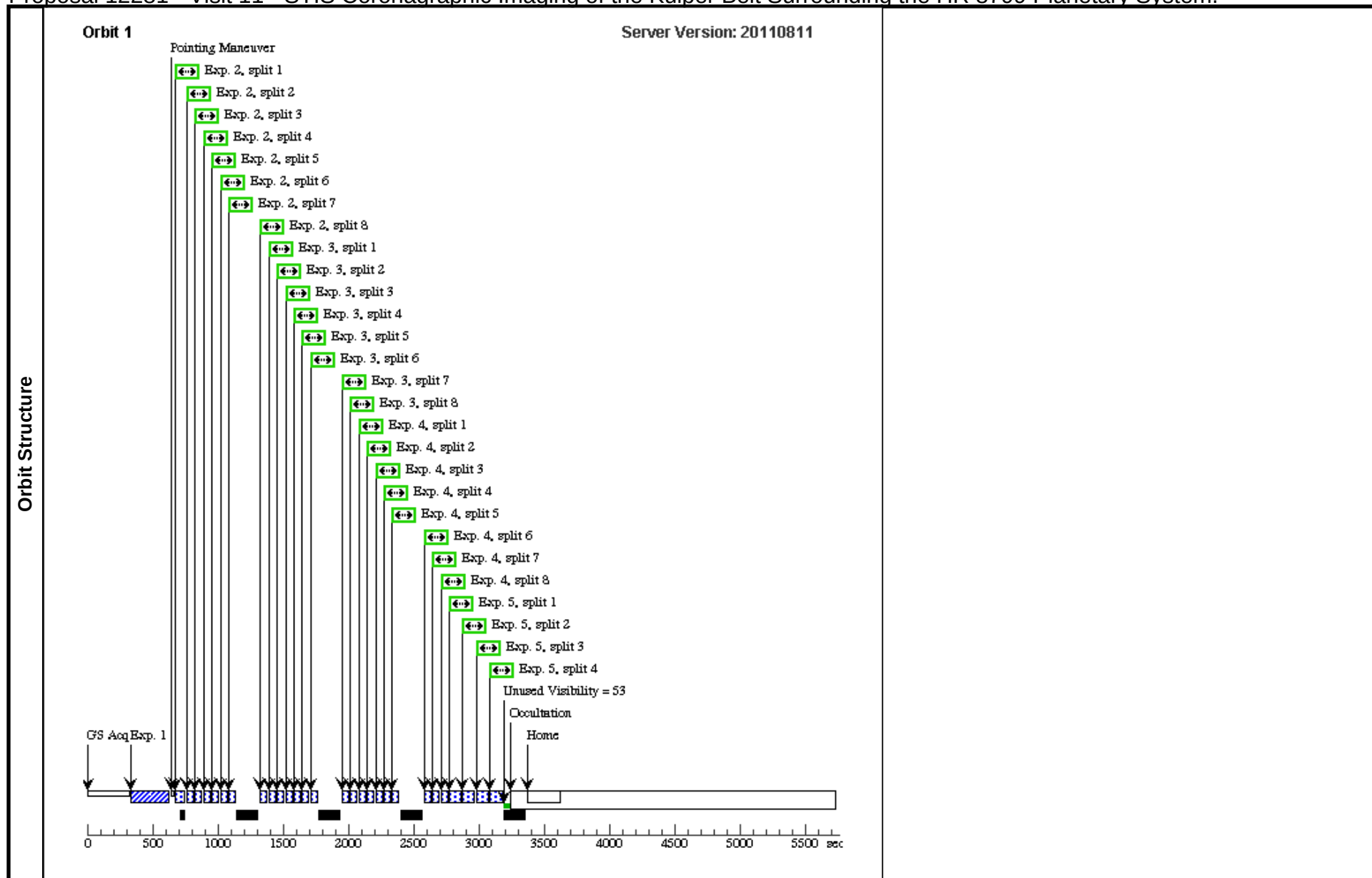
Proposal 12281 - Visit 10 - STIS Coronagraphic Imaging of the Kuiper Belt Surrounding the HR 8799 Planetary System.

Visit	Proposal 12281, Visit 10, implementation Fri Sep 02 01:02:15 GMT 2011 Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: ORIENT 10D TO 10.1D FROM 09								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	HR8799	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>		V=5.964	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]
	1	(1) HR8799		STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARI O BASE1B3		1 Secs
									[==>]
									[1]
	2	(1) HR8799		STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	CR-SPLIT=8; GAIN=4			160 Secs
									[==>(Split 1)]
									[==>(Split 2)]
									[==>(Split 3)]
									[==>(Split 4)]
									[==>(Split 5)]
									[==>(Split 6)]
									[==>(Split 7)]
									[==>(Split 8)]
									[1]
	3	(1) HR8799		STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	CR-SPLIT=8; GAIN=4			160 Secs
									[==>(Split 1)]
									[==>(Split 2)]
									[==>(Split 3)]
									[==>(Split 4)]
									[==>(Split 5)]
									[==>(Split 6)]
									[==>(Split 7)]
									[==>(Split 8)]
									[1]
	4	(1) HR8799		STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	CR-SPLIT=8; GAIN=4			160 Secs
									[==>(Split 1)]
									[==>(Split 2)]
									[==>(Split 3)]
									[==>(Split 4)]
									[==>(Split 5)]
									[==>(Split 6)]
									[==>(Split 7)]
									[==>(Split 8)]
									[1]
	5	(1) HR8799		STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	CR-SPLIT=4; GAIN=4			240 Secs
									[==>(Split 1)]
									[==>(Split 2)]
									[==>(Split 3)]
									[==>(Split 4)]
									[1]



Proposal 12281 - Visit 11 - STIS Coronagraphic Imaging of the Kuiper Belt Surrounding the HR 8799 Planetary System.

Visit	Proposal 12281, Visit 11, implementation Fri Sep 02 01:02:15 GMT 2011 Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: ORIENT 20D TO 20.1D FROM 09								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	HR8799	RA: 23 07 28.7150 (346.8696458d) Dec: +21 08 3.30 (21.13425d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>		V=5.964	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]
	1	(1) HR8799		STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARI O BASE1B3		1 Secs
									[==>]
									[1]
	2	(1) HR8799		STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	CR-SPLIT=8; GAIN=4			160 Secs
									[==>(Split 1)]
									[==>(Split 2)]
									[==>(Split 3)]
									[==>(Split 4)]
									[==>(Split 5)]
									[==>(Split 6)]
									[==>(Split 7)]
									[==>(Split 8)]
									[1]
	3	(1) HR8799		STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	CR-SPLIT=8; GAIN=4			160 Secs
									[==>(Split 1)]
									[==>(Split 2)]
									[==>(Split 3)]
									[==>(Split 4)]
									[==>(Split 5)]
									[==>(Split 6)]
									[==>(Split 7)]
									[==>(Split 8)]
									[1]
	4	(1) HR8799		STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	CR-SPLIT=8; GAIN=4			160 Secs
									[==>(Split 1)]
									[==>(Split 2)]
									[==>(Split 3)]
									[==>(Split 4)]
									[==>(Split 5)]
									[==>(Split 6)]
									[==>(Split 7)]
									[==>(Split 8)]
									[1]
	5	(1) HR8799		STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	CR-SPLIT=4; GAIN=4			240 Secs
									[==>(Split 1)]
									[==>(Split 2)]
									[==>(Split 3)]
									[==>(Split 4)]
									[1]



Proposal 12281 - Visit 12 - STIS Coronagraphic Imaging of the Kuiper Belt Surrounding the HR 8799 Planetary System.

Visit	Proposal 12281, Visit 12, implementation								Fri Sep 02 01:02:16 GMT 2011	
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: STIS/CCD									
	Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(3)	HIP117990	RA: 23 55 58.3870 (358.9932792d)	Proper Motion RA: 17.77 mas/yr		V=6.748		Reference Frame: ICRS		
			Dec: +21 09 57.42 (21.16595d)	Proper Motion Dec: 14.66 mas/yr						
			Equinox: J2000	Epoch of Position: 2000						
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) HIP117990	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARI O BASE1B3		1 Secs	
									[==>]	[1]
	2		(3) HIP117990	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	CR-SPLIT=7; GAIN=4			2226 Secs	
									[==>(Split 1)]	[1]
									[==>(Split 2)]	
									[==>(Split 3)]	
								[==>(Split 4)]		
								[==>(Split 5)]		
								[==>(Split 6)]		
								[==>(Split 7)]		

