



# 13381 - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NICMOS Archive

Cycle: 21, 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) HD-30447	STIS/CCD	1	17-Sep-2013 21:49:33.0	yes
02	(5) PSF-HD-30447--HD-32135	STIS/CCD	1	17-Sep-2013 21:49:46.0	yes
03	(1) HD-30447	STIS/CCD	1	17-Sep-2013 21:49:57.0	yes
10	(2) HD-35841	STIS/CCD	1	17-Sep-2013 21:50:06.0	yes
11	(6) PSF-HD-35841--HD-37002	STIS/CCD	1	17-Sep-2013 21:50:13.0	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>
12	(2) HD-35841	STIS/CCD	1	17-Sep-2013 21:50:21.0	yes
20	(3) HD-141943	STIS/CCD	1	17-Sep-2013 21:50:29.0	yes
21	(7) PSF-HD-141943--HD-141885	STIS/CCD	1	17-Sep-2013 21:50:39.0	yes
22	(3) HD-141943	STIS/CCD	1	17-Sep-2013 21:50:48.0	yes
30	(4) HD-191089	STIS/CCD	1	17-Sep-2013 21:50:58.0	yes
31	(8) PSF-HD-191089--HD-196081	STIS/CCD	1	17-Sep-2013 21:51:11.0	yes
32	(4) HD-191089	STIS/CCD	1	17-Sep-2013 21:51:23.0	yes
40	(4) HD-191089	STIS/CCD	1	17-Sep-2013 21:51:38.0	yes
41	(8) PSF-HD-191089--HD-196081	STIS/CCD	1	17-Sep-2013 21:51:49.0	yes
42	(4) HD-191089	STIS/CCD	1	17-Sep-2013 21:52:01.0	yes

15 Total Orbits Used

## ABSTRACT

We propose STIS coronagraphic observations of four debris disks, each recently seen in scattered light for the first time in our archival reanalysis of NICMOS coronagraphy. Our targets are young (<30 Myr) solar type (G2-F3) stars; observing them will triple the number of debris disks imaged around sunlike stars at ages comparable to when terrestrial planets were forming in our solar system. STIS coronagraphy will dramatically surpass the NICMOS discovery images, with 2x better angular resolution and much improved contrast and sensitivity. These observations will allow us to measure in detail the disk geometries, determining whether parent bodies are constrained in "birth rings" analogous to the Kuiper Belt, and to search for the signatures of unseen planets gravitationally stirring the disks, potentially leading to stochastic giant collisions that might produce observable signatures in disk and dust properties. Only HST/STIS is capable of obtaining at optical wavelengths the necessary high angular resolution, subarcsecond high contrast, and image fidelity that are essential for tracing the faint extended components of these disks.

## OBSERVING DESCRIPTION

We are obtaining 2 roll + 1 PSF star STIS coronagraphy for 3 targets, plus 2x(2 roll + 1 PSF star) coronagraphy for our fourth target. Observation plans follow established best practices for STIS coronagraphy, obtaining for each target a series of short exposures at the WEDGE0.6 position followed by deeper exposures at WEDGE1.0. We summarize our plans here, and provide further comments attached to the individual visits and

observations.

1) Visit structure and linkages: For each target we observe pairs of science visits plus one PSF reference star visit between them (so the orbits are ordered Target-PSF-Target). These three visits are linked to execute back-to-back. For clarity, visits are numbered such that the first digit is distinct for each linked set.

2) Orientation Constraints:

(2a) Edge on targets:

For the three of our targets known to have approximately edge on disks, we provide *absolute* orient constraints on one visit to ensure the disk major axis is near perpendicular to the STIS occulting wedge. We use a relative orient constraint to roll the second science visit 15 to 25 degrees relative to that. Approximately 20 degrees is the desired roll between visits since it rotates by about half the angle between the diffraction spikes and the wedge occulter, thereby minimizing the field area obscured in both visits.

The visit with the disk oriented perpendicular to the wedge provides somewhat better inner working angle for our disks (by  $1/\cos(20) \sim 7\%$ ). Since we expect thermal transients and instability may be greatest in the first orbit of each linked set (due to the unknown attitude of HST for prior observations), we choose to place the visit with the disk perpendicular to the wedge as the *third* visit in each set. We set absolute Orient Range constraints accordingly. The first visit in each set has Orient From constraints to set its orientation  $\sim 20$  deg roll from the third visit. For the second visit between them (the PSF star), ideally we prefer to have it at the same orientation as the third visit (this is a lower priority constraint and could easily be dropped if needed to ease scheduling, but in practice with the Visit Planner this does not appear to be a significant constraint).

For all 3 of these targets we found schedulable windows using these constraints. For HD 30447 and HD 35841 the available windows were very narrow (just a couple of days). By setting Schedulability=50 and slightly reducing the integration times to fit within the reduced window, we were able to widen the scheduling windows a bit. If needed we can further adjusting this trade between integration time and scheduling. For HD 141943 we have good opportunities without adjusting the Schedulability setting.

(2b) Lower inclination target:

For the one target known to have a lower inclination (more face on) disk, HD 191089, for more complete position angle coverage we program two duplicate sets of 3 visits, each of which follows the pattern described above. There are no timing constraints between these 2 sets of 3 visits, just the

orient constraints. For this target we do not specify any absolute orient constraints, only the relative ones.

For good position angle coverage, a roll of  $\sim 25$  deg between the two visits in each pair and a roll of  $\sim 80$  deg between the pairs works well. 90 deg roll between the pairs should be avoided because it results in the same regions being blocked behind the diffraction spikes in both. We have found schedulable observing opportunities for this, though it required increasing the Schedulability setting to 50 and reducing the total observing time accordingly. See further notes on Visit 40.

3) Guide Stars: We require pointing and roll control with 2-FGS guiding. Single-FGS guiding does not offer sufficient target position stability for coronagraphy.

4) Target Acquisitions: We expose TA images to achieve  $S/N \sim 100$  using the STIS TA ETC. Because we will use the TA images to assess "behind the wedge" target positions to high precision, higher  $S/N$  than the default 40 is required. We use F25ND3 for all TA exposures.

5) Short exposures: The "short" exposure times are set to achieve 80% of full well depth on the PSF wings just outside the occulting wedge, with the target occulted behind the WEDGE0.6 position. We scale this based on empirical STIS coronagraphic PSFs obtained in the same observing mode in our past STIS programs, principally GO 12228. (Specifically we derive from visits 13, 53, 91 of GO 1228 that a 0th mag F/G star would have  $\sim 2.5e6$  counts/sec/pixel immediately outside the Wedge0.6 position. We scale from that using the Tycho V mags of our targets.) Exactly how much light falls right outside of the wedge depends on the exact placement of the target relative to the wedge, which can vary by up to  $\sim 1/4$  pixel. Based on comparing many PSFs from the GO 12228 sample we estimate up to a 10% variation in peak pixel intensity due to acquisition offsets of the same target. Variation with stellar color between F and G spectral types has  $< 10\%$  effect on that peak intensity. Our target illumination level of 80% of full well ( $\sim 110$  e-/pixel) thus provides sufficient margin against such effects to avoid saturation.

We repeat enough short exposures to fill  $\sim 1/3$  of the target visibility interval after subtracting the time required for acquisition.

The short exposures are obtained with GAIN=4 and subarray SIZEAXIS2=137. This gives a field of view 6.95" in size centered on the WEDGE0.6 position 3.47" inset along the wedge away from the field of view edge. This is the same subarray we have used previously for STIS observations at the wedge 0.6" position.

Query to PC: APT is giving me warnings about 'SUBARRAY OFF OF DETECTOR' and I'm not sure how to fix those. My intent is for the subarray to be at the 'bottom edge' of the detector (i.e running over the rows  $AXIS2=1$  to  $AXIS2=137$ .) Is there some setting I have missed that will appropriately calm these warnings?

6) Long Exposures: Following short exposures we slew HST to the WEDGE1.0 aperture position for the long exposures.

The long exposure times are chosen to fill the remainder of the orbit visibility period and to be  $CR-SPLIT=3$ . The resulting exposure times are 5-10x deeper than the short exposures.

The long exposures are obtained with  $GAIN=4$  and subarray  $SIZEAXIS2=427$ . This gives a field of view 21.65" in size centered on the WEDGE1.0 position 10.82" inset along the wedge away from the field of view edge. This is the same subarray we have used previously for STIS observations at the wedge 1.0" position.

7) PSF star selection. We choose PSF stars that are close in the sky ( $< 5$  deg if possible), at least as bright as the science target, are closely matched in optical colors (UBVRI) and/or measured effective temperature and spectral type, and for which available literature information indicates a high probability these are single stars, not close binaries. Details of the specific selection criteria for each PSF star are provided in target notes.

#### **REAL TIME JUSTIFICATION**

n/a

#### **CALIBRATION JUSTIFICATION**

n/a

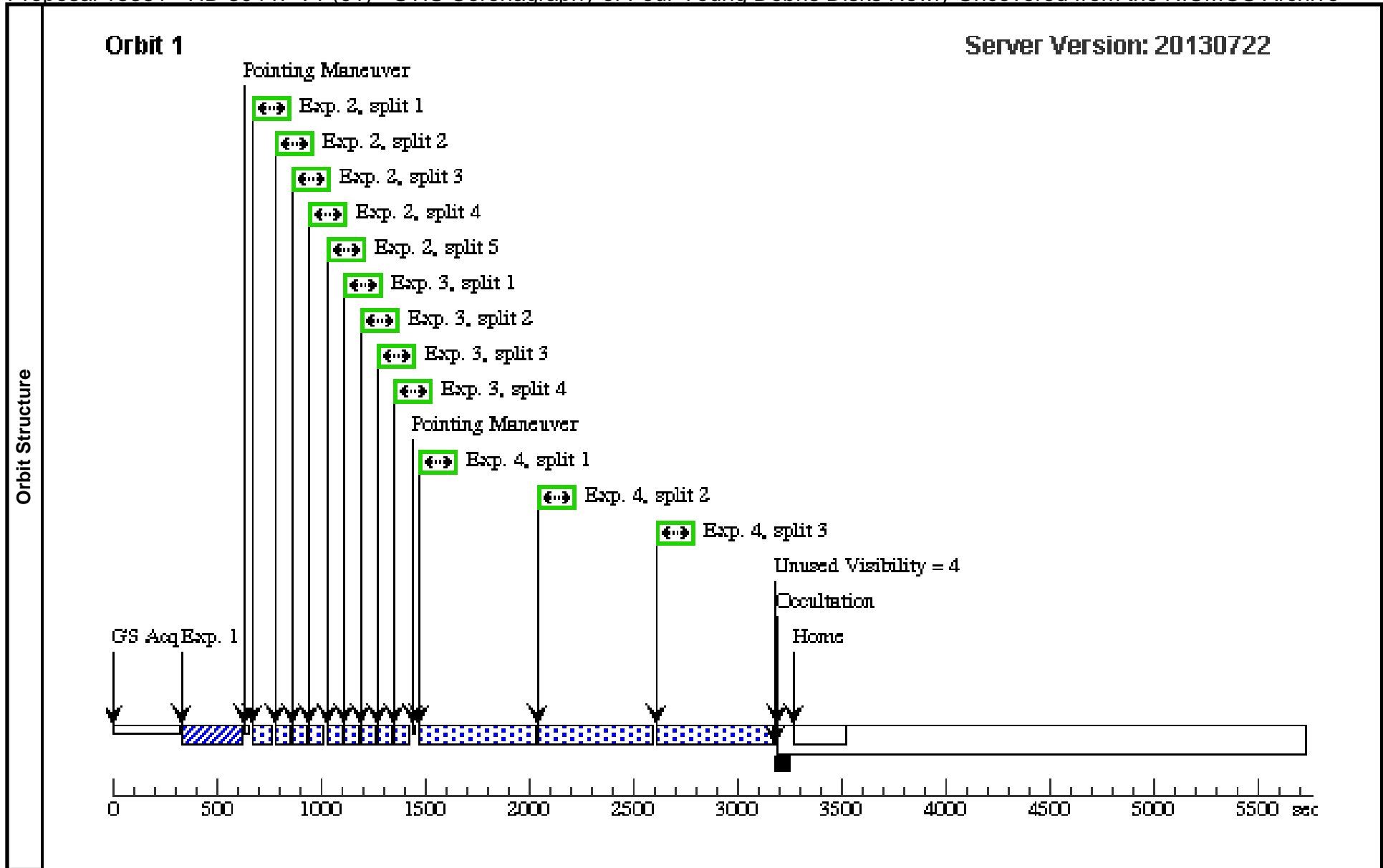
Proposal 13381 - HD 30447 V1 (01) - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NICMOS Archive

Wed Sep 18 01:52:12 GMT 2013

<b>Visit</b>	<p><b>Proposal 13381, HD 30447 V1 (01), implementation</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: STIS/CCD</p> <p>Special Requirements: SCHED 50%; ORIENT 15D TO 25D FROM 03</p> <p><i>Comments: Edge-on disk major axis is at position angle ~ 38 degrees.</i></p> <p><i>As noted in the Proposal Description, we prefer to schedule the 2nd science visit (3rd visit in each linked set) with the disk perpendicular to the STIS wedge. For this 1st visit, we want it offset in roll angle by either + or - 20 degrees with respect to that third visit, with loose tolerance of ~ 5 deg around that nominal offset.</i></p> <p><i>APT reports it can schedule this visit with an Orient From of 20 +-5 relative to Visit 3, but the PC should not hesitate to change the sign to -20 +-5 if that helps scheduling. The range of allowable orients may be relaxed somewhat if necessary also.</i></p>																
	<p>(HD 30447 V1 (01)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 30447 V1 (01)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 30447 V1 (01)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 30447 V1 (01)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 30447 V1 (01)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 30447 V1 (01)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 30447 V1 (01)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 30447 V1 (01)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 30447 V1 (01)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p>																
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<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>HD-30447</td> <td>RA: 04 46 49.5291 (71.7063712d) Dec: -26 18 8.84 (-26.30246d) Equinox: J2000</td> <td>Proper Motion RA: 34.52 mas/yr Proper Motion Dec: -4.13 mas/yr Parallax: 0.01246" Epoch of Position: 2000.0</td> <td>V=7.86 Tycho V mag= 7.909; B-V = 0.415; V-I = 0.46</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	HD-30447	RA: 04 46 49.5291 (71.7063712d) Dec: -26 18 8.84 (-26.30246d) Equinox: J2000	Proper Motion RA: 34.52 mas/yr Proper Motion Dec: -4.13 mas/yr Parallax: 0.01246" Epoch of Position: 2000.0	V=7.86 Tycho V mag= 7.909; B-V = 0.415; V-I = 0.46	Reference Frame: ICRS	<p><i>Comments: Circumstellar disk seen in NICMOS data is edge on with major axis PA= 38 deg E of N.</i></p> <p><i>V-I from Hipparcos catalog. Cross check: Pickles 2010 synthetic photometry color agrees within 0.06 mags.</i></p>			
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Proposal 13381 - HD 30447 V1 (01) - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NICMOS Archive

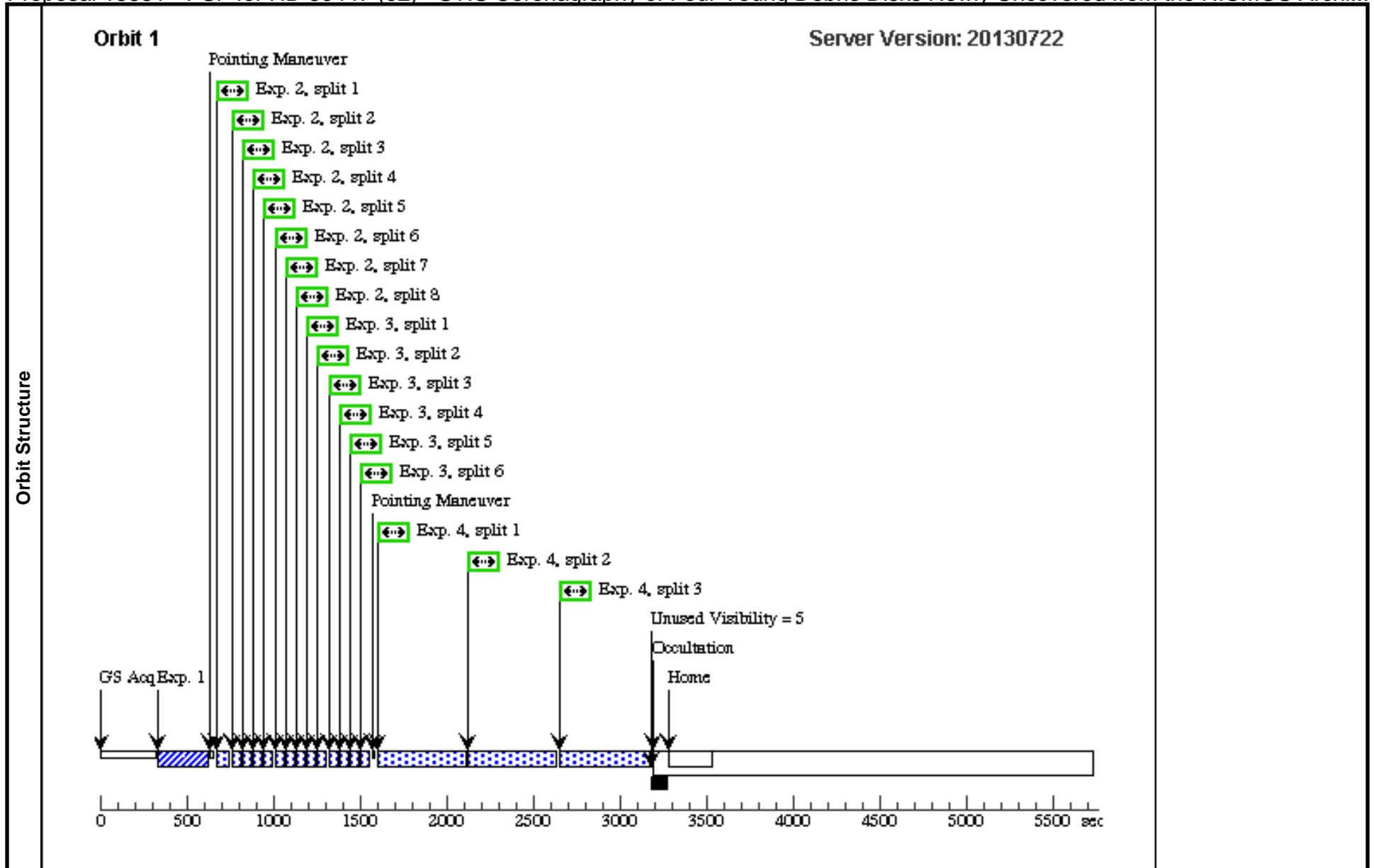
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	HD 30447 A CQ	(1) HD-30447	STIS/CCD, ACQ, F25ND3	MIRROR	ACQTYPE=POINT	GS ACQ SCENARI O BASE1BN3		0.6 Secs (0.6 Secs)	
									[==>]	[1]
	2	HD 30447 S horts	(1) HD-30447	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	GAIN=4; SIZEAXIS2=137; CR-SPLIT=5			300 Secs (300 Secs)	
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)]	[1]
	<p>Comments: Short exposure time set to 60 s, to achieve 80% full well (~110k e-/pixel) for the brightest part of the PSF wings just outside the Wedge0.6 position for a V=7.8 target. Repeated 9 x via CR-splits.</p> <p>SIZEAXIS2=137 used for the Wedge 0.6 position</p>									
3	HD 30447 S horts 2	(1) HD-30447	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	GAIN=4; SIZEAXIS2=137; CR-SPLIT=4			240 Secs (240 Secs)		
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]	
	<p>Comments: Short exposure time set to 60 s, to achieve 80% full well (~110k e-/pixel) for the brightest part of the PSF wings just outside the Wedge0.6 position for a V=7.8 target. Repeated 9 x via CR-splits.</p> <p>SIZEAXIS2=137 used for the Wedge 0.6 position</p>									
4	HD 30447 L ongs	(1) HD-30447	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	GAIN=4; SIZEAXIS2=427; CR-SPLIT=3			1620 Secs (1620 Secs)		
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]	
	<p>Comments: Long exposure time set to fill the remainder of the orbit, CR-split=3.</p> <p>SIZEAXIS2 = 427 is used, appropriate for the Wedge 1.0 position.</p>									



<b>Visit</b>	<p><b>Proposal 13381, PSF for HD 30447 (02), implementation</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: STIS/CCD</p> <p>Special Requirements: SCHED 50%; ORIENT -5D TO 5D FROM 03; AFTER 01 BY 0.5 Orbits TO 1.5 Orbits</p> <p><i>Comments: PSF star for visits 1 and 3. Ideally this should be observed at similar spacecraft orientation as Visit 3, but this constraint can be relaxed if needed for schedulability.</i></p>																
	<p>(PSF for HD 30447 (02)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 30447 (02)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p> <p>(PSF for HD 30447 (02)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 30447 (02)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 30447 (02)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 30447 (02)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 30447 (02)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 30447 (02)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 30447 (02)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 30447 (02)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 30447 (02)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p> <p>(PSF for HD 30447 (02)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 30447 (02)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 30447 (02)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 30447 (02)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 30447 (02)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 30447 (02)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 30447 (02)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 30447 (02)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p> <p>(PSF for HD 30447 (02)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p>																
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Proposal 13381 - PSF for HD 30447 (02) - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NICMOS Archi...

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	HD 32135 A CQ (STIS.ta.516654)	(5) PSF-HD-30447-- HD-32135	STIS/CCD, ACQ, F25ND3	MIRROR	ACQTYPE=POINT	GS ACQ SCENARI O BASE1BN3	0.4 Secs (0.4 Secs) [==>]	[1]
	2	HD 32135 S horts	(5) PSF-HD-30447-- HD-32135	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	GAIN=4; SIZEAXIS2=137; CR-SPLIT=8		320 Secs (320 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)] [==>(Split 8)]	[1]
	<p>Comments: Short exposure time set to 40 s, to achieve 80% full well (~110k e-/pixel) for the brightest part of the PSF wings just outside the Wedge0.6 position for a V=7.45 target. Repeated 14 x via CR-splits.</p> <p>SIZEAXIS2=137 used for the Wedge 0.6 position</p>								
	3	HD 32135 Shorts 2	(5) PSF-HD-30447-- HD-32135	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	GAIN=4; SIZEAXIS2=137; CR-SPLIT=6		240 Secs (240 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
<p>Comments: *TODO* Update with optimal exposure time for this star - this is just a placeholder value!</p>									
4	HD 32135 Longs	(5) PSF-HD-30447-- HD-32135	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	GAIN=4; SIZEAXIS2=427; CR-SPLIT=3		1490 Secs (1490 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]	
<p>Comments: Long exposure time set to fill the remainder of the orbit, CR-split=3.</p> <p>SIZEAXIS2 = 427 is used, appropriate for the Wedge 1.0 position.</p>									



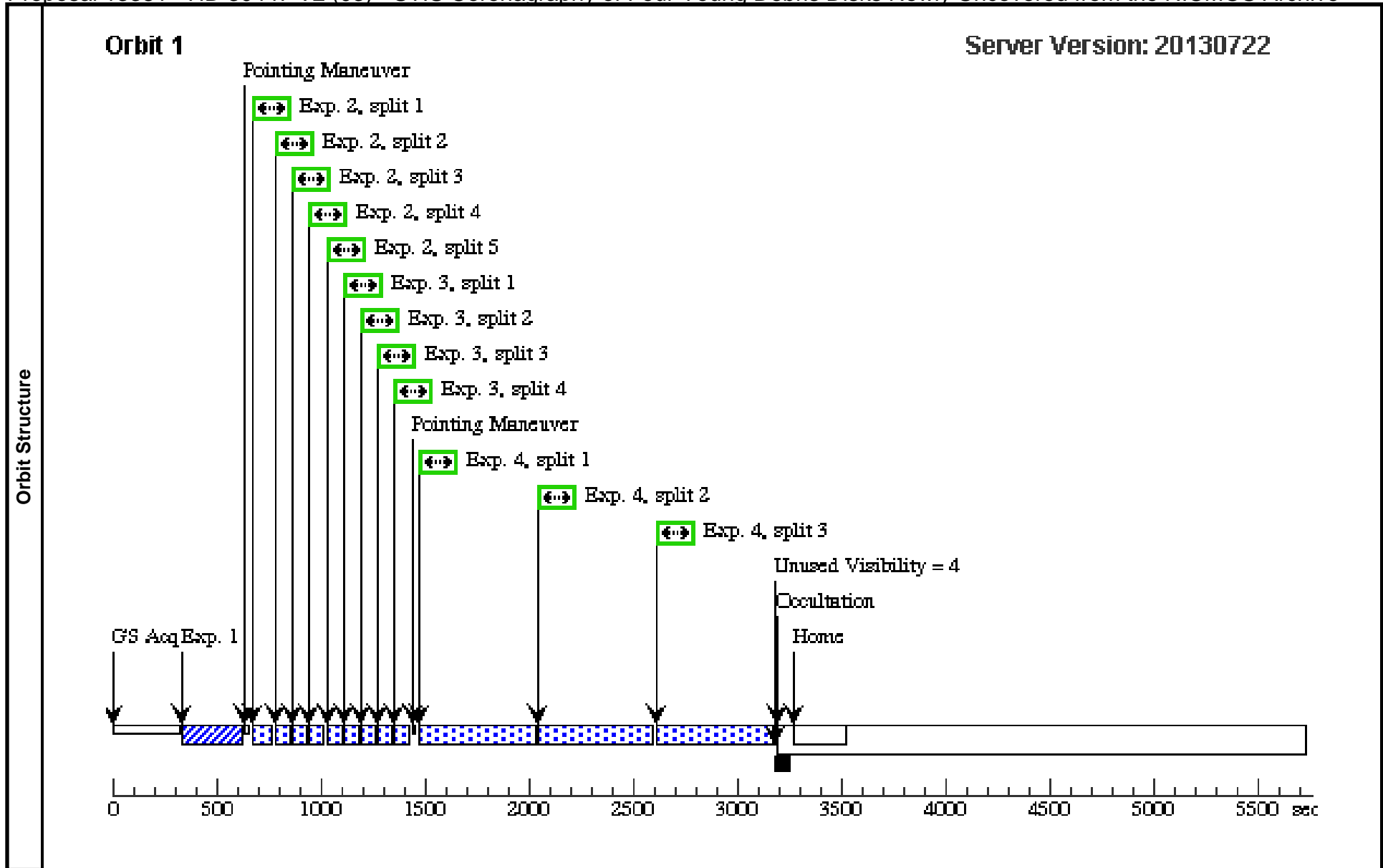
Proposal 13381 - HD 30447 V2 (03) - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NICMOS Archive

Wed Sep 18 01:52:15 GMT 2013

<b>Visit</b>	<p><b>Proposal 13381, HD 30447 V2 (03), implementation</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: STIS/CCD</p> <p>Special Requirements: SCHED 50%; ORIENT 168D TO 178 D; ORIENT 348D TO 358 D; AFTER 02 BY 0.5 Orbits TO 1.5 Orbits</p> <p><i>Comments: Edge-on disk major axis is at position angle ~ 38 degrees.</i></p> <p><i>As noted in the Proposal Description, we prefer to schedule the 2nd science visit (3rd visit in each linked set) with the disk perpendicular to the STIS wedge.</i></p> <p><i>We want to observe with this perpendicular to the STIS occulting wedge, hence PA=38 should be parallel with the AXIS1 direction. To achieve this we add either 135 or 315 degrees to that PA. Hence the desired orientation for this visit is either ORIENT ~ 173 or ORIENT ~ 353. (No preference between those two) We specify a +- 5 deg range around the nominal orientation. If scheduling proves difficult this constraint could be relaxed slightly.</i></p>																
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	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(1)	HD-30447	RA: 04 46 49.5291 (71.7063712d) Dec: -26 18 8.84 (-26.30246d) Equinox: J2000	Proper Motion RA: 34.52 mas/yr Proper Motion Dec: -4.13 mas/yr Parallax: 0.01246" Epoch of Position: 2000.0	V=7.86 Tycho V mag= 7.909; B-V = 0.415; V-I = 0.46	Reference Frame: ICRS												

Proposal 13381 - HD 30447 V2 (03) - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NICMOS Archive

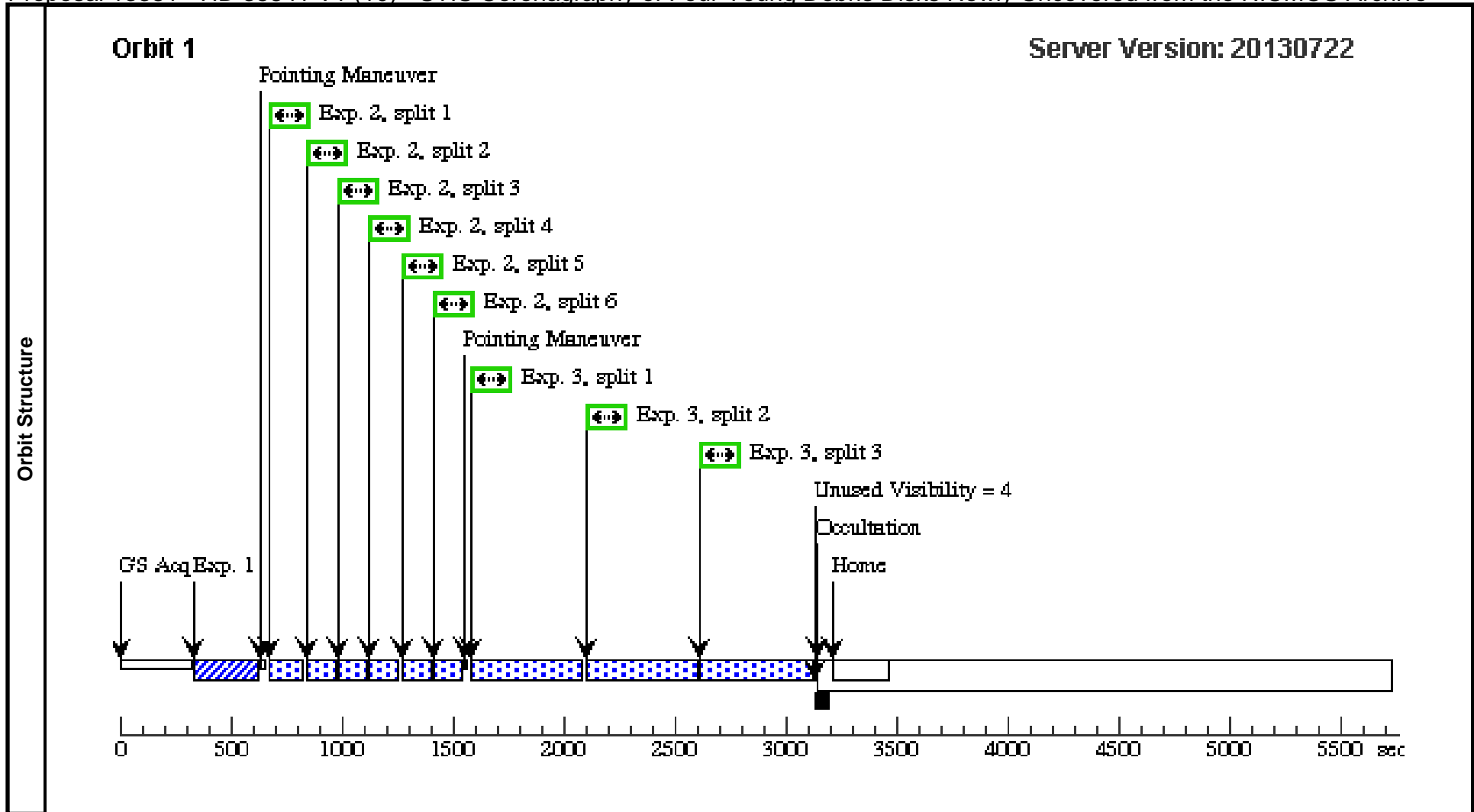
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	HD 30447 A CQ	(1) HD-30447	STIS/CCD, ACQ, F25ND3	MIRROR		ACQTYPE=POINT	GS ACQ SCENARI O BASE1BN3		0.6 Secs (0.6 Secs)	
									[==>]	[1]	
	2	HD 30447 S horts	(1) HD-30447	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR		GAIN=4; SIZEAXIS2=137; CR-SPLIT=5			300 Secs (300 Secs)	
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)]	[1]	
	<p>Comments: Short exposure time set to 60 s, to achieve 80% full well (~110k e-/pixel) for the brightest part of the PSF wings just outside the Wedge0.6 position for a V=7.8 target. Repeated 9 x via CR-splits.</p> <p>SIZEAXIS2=137 used for the Wedge 0.6 position</p>										
3	HD 30447 S horts 2	(1) HD-30447	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR		GAIN=4; SIZEAXIS2=137; CR-SPLIT=4			240 Secs (240 Secs)		
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]	
	<p>Comments: Short exposure time set to 60 s, to achieve 80% full well (~110k e-/pixel) for the brightest part of the PSF wings just outside the Wedge0.6 position for a V=7.8 target. Repeated 9 x via CR-splits.</p> <p>SIZEAXIS2=137 used for the Wedge 0.6 position</p>										
4	HD 30447 L ongs	(1) HD-30447	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR		GAIN=4; SIZEAXIS2=427; CR-SPLIT=3			1620 Secs (1620 Secs)		
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]	
	<p>Comments: Long exposure time set to fill the remainder of the orbit, CR-split=3.</p> <p>SIZEAXIS2 = 427 is used, appropriate for the Wedge 1.0 position.</p>										



Proposal 13381 - HD 35841 V1 (10) - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NICMOS Archive

Wed Sep 18 01:52:16 GMT 2013

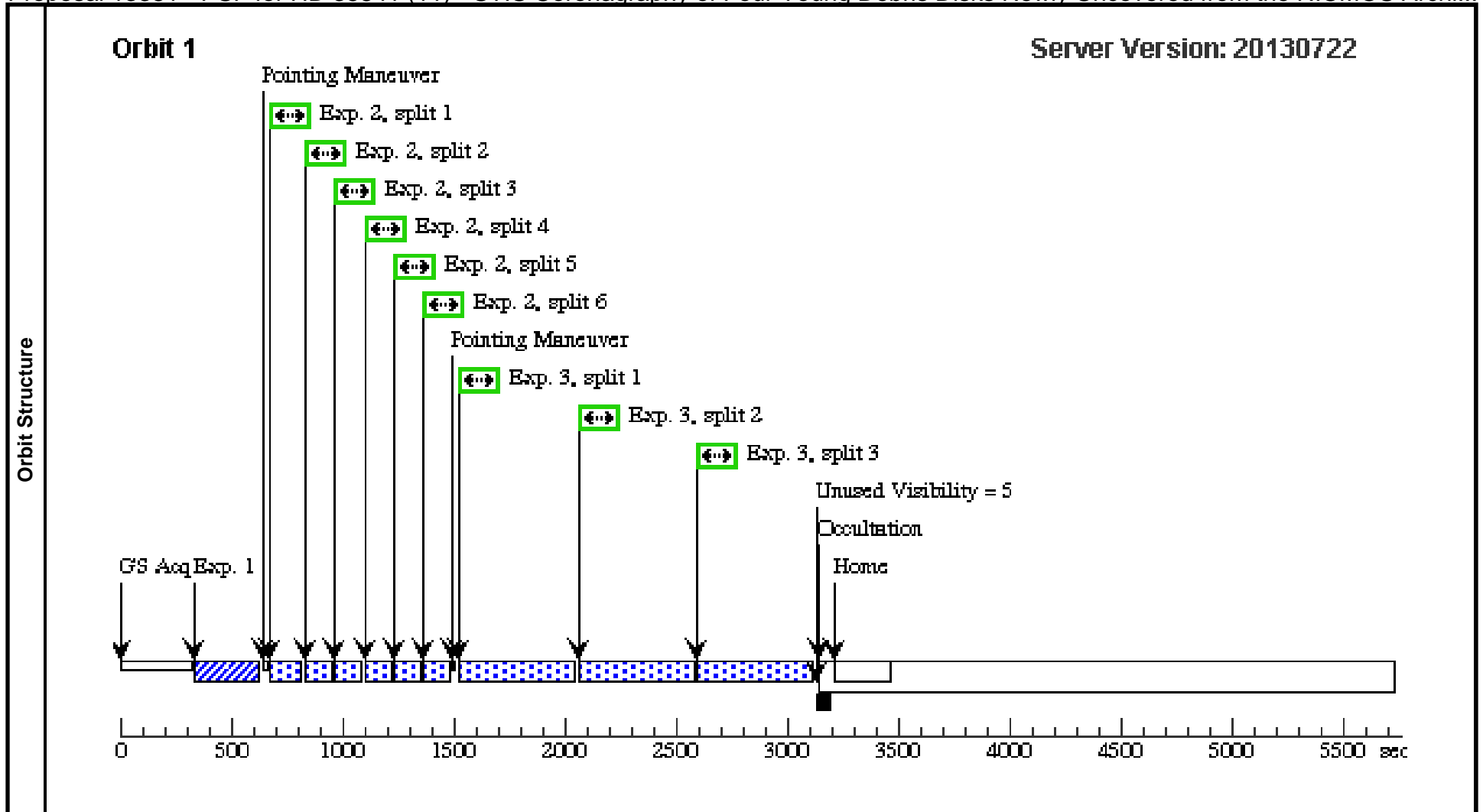
<b>Visit</b>	<p><b>Proposal 13381, HD 35841 V1 (10), implementation</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: STIS/CCD</p> <p>Special Requirements: SCHED 60%; ORIENT 15D TO 25D FROM 12</p> <p>Comments: Edge-on disk major axis is at position angle ~ 170 degrees.</p> <p>As noted in the Proposal Description, we prefer to schedule the 2nd science visit (3rd visit in each linked set) with the disk perpendicular to the STIS wedge. For this 1st visit, we want it offset in roll angle by either + or - 20 degrees with respect to that third visit, with loose tolerance of ~ 5 deg around that nominal offset.</p> <p>APT reports it can schedule this visit with an Orient From of 20 +-5 relative to Visit 3, but the PC should not hesitate to change the sign to -20 +-5 if that helps scheduling. The range of allowable orients may be relaxed somewhat if necessary also.</p>																																												
	<p>(HD 35841 V1 (10)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 35841 V1 (10)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 35841 V1 (10)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 35841 V1 (10)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 35841 V1 (10)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 35841 V1 (10)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p>																																												
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Proposal 13381 - PSF for HD 35841 (11) - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NICMOS Archi...

Wed Sep 18 01:52:17 GMT 2013

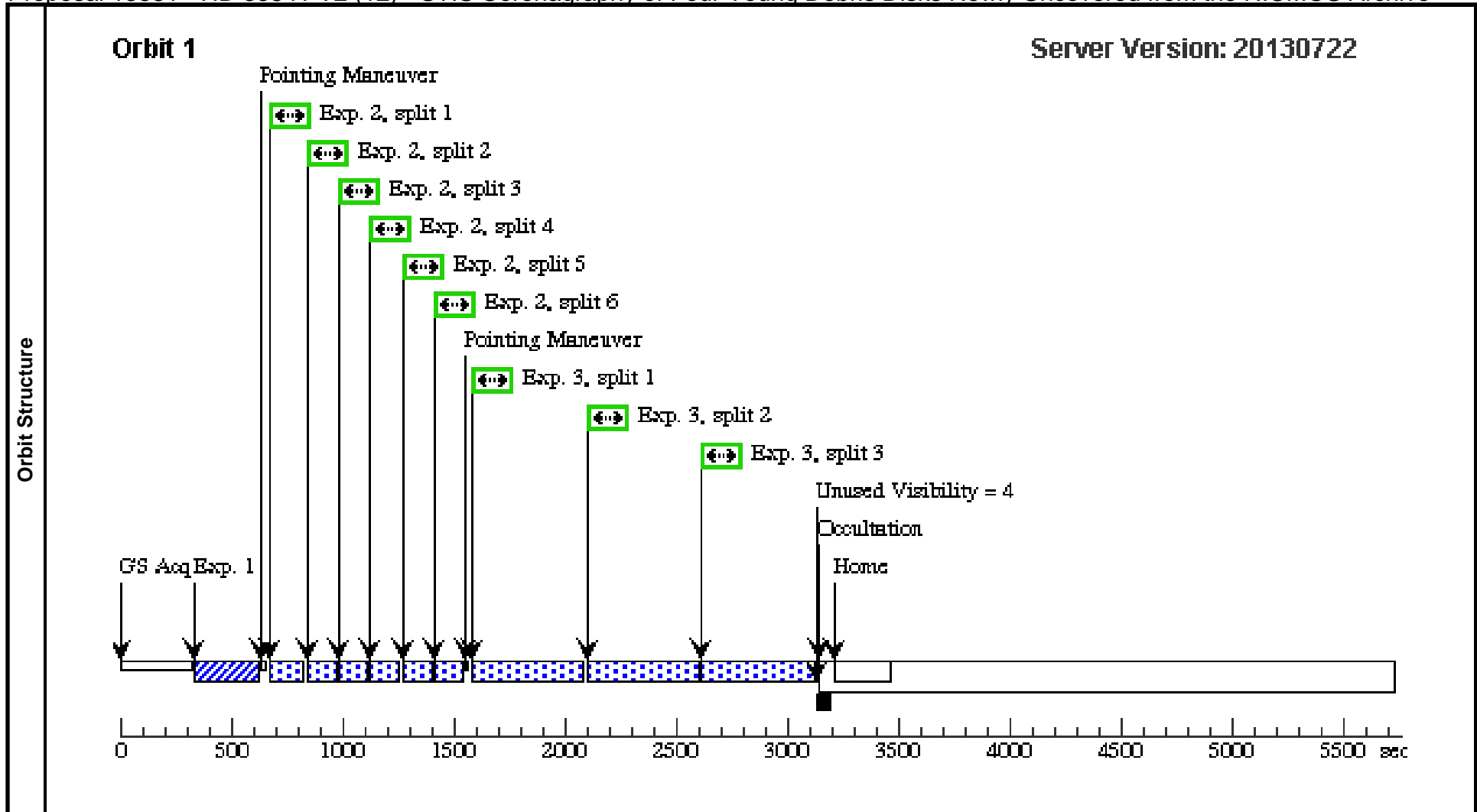
<b>Visit</b>	<b>Proposal 13381, PSF for HD 35841 (11), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: STIS/CCD Special Requirements: SCHED 60%; ORIENT -5D TO 5D FROM 12; AFTER 10 BY 0.5 Orbits TO 1.5 Orbits <i>Comments: PSF star for visits 10 and 12. Ideally this should be observed at similar spacecraft orientation as Visit 12, but this constraint can be relaxed if needed for schedulability.</i>																																																																
	<b>Diagnosics</b> (PSF for HD 35841 (11)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR (PSF for HD 35841 (11)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR (PSF for HD 35841 (11)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR (PSF for HD 35841 (11)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS (PSF for HD 35841 (11)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS (PSF for HD 35841 (11)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR (PSF for HD 35841 (11)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS (PSF for HD 35841 (11)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR (PSF for HD 35841 (11)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR																																																																
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Proposal 13381 - HD 35841 V2 (12) - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NICMOS Archive

Wed Sep 18 01:52:18 GMT 2013

<b>Visit</b>	<p><b>Proposal 13381, HD 35841 V2 (12), implementation</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: STIS/CCD</p> <p>Special Requirements: SCHED 60%; ORIENT 120D TO 130 D; ORIENT 300D TO 310 D; AFTER 11 BY 0.5 Orbits TO 1.5 Orbits</p> <p>Comments: Edge-on disk major axis is at position angle ~ 170 degrees.</p> <p>As noted in the Proposal Description, we prefer to schedule the 2nd science visit (3rd visit in each linked set) with the disk perpendicular to the STIS wedge.</p> <p>We want to observe with this perpendicular to the STIS occulting wedge, hence PA=170 should be parallel with the AXIS1 direction. To achieve this we add either 135 or 315 degrees to that PA. Hence the desired orientation for this visit is either ORIENT ~ 305 or ORIENT ~ 125. (No preference between those two) We specify a +- 5 deg range around the nominal orientation. If scheduling proves difficult this constraint could be relaxed slightly.</p>																																												
	<p>(HD 35841 V2 (12)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 35841 V2 (12)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 35841 V2 (12)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 35841 V2 (12)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 35841 V2 (12)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 35841 V2 (12)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p>																																												
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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																				
1	HD 35841 A CQ	(2) HD-35841	STIS/CCD, ACQ, F25ND3	MIRROR	ACQTYPE=POINT	GS ACQ SCENARI O BASE1BN3		0.6 Secs (0.6 Secs) [==>]	[1]																																				
2	HD 35841 S horts	(2) HD-35841	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	GAIN=4; SIZEAXIS2=137; CR-SPLIT=6			720 Secs (720 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]																																				
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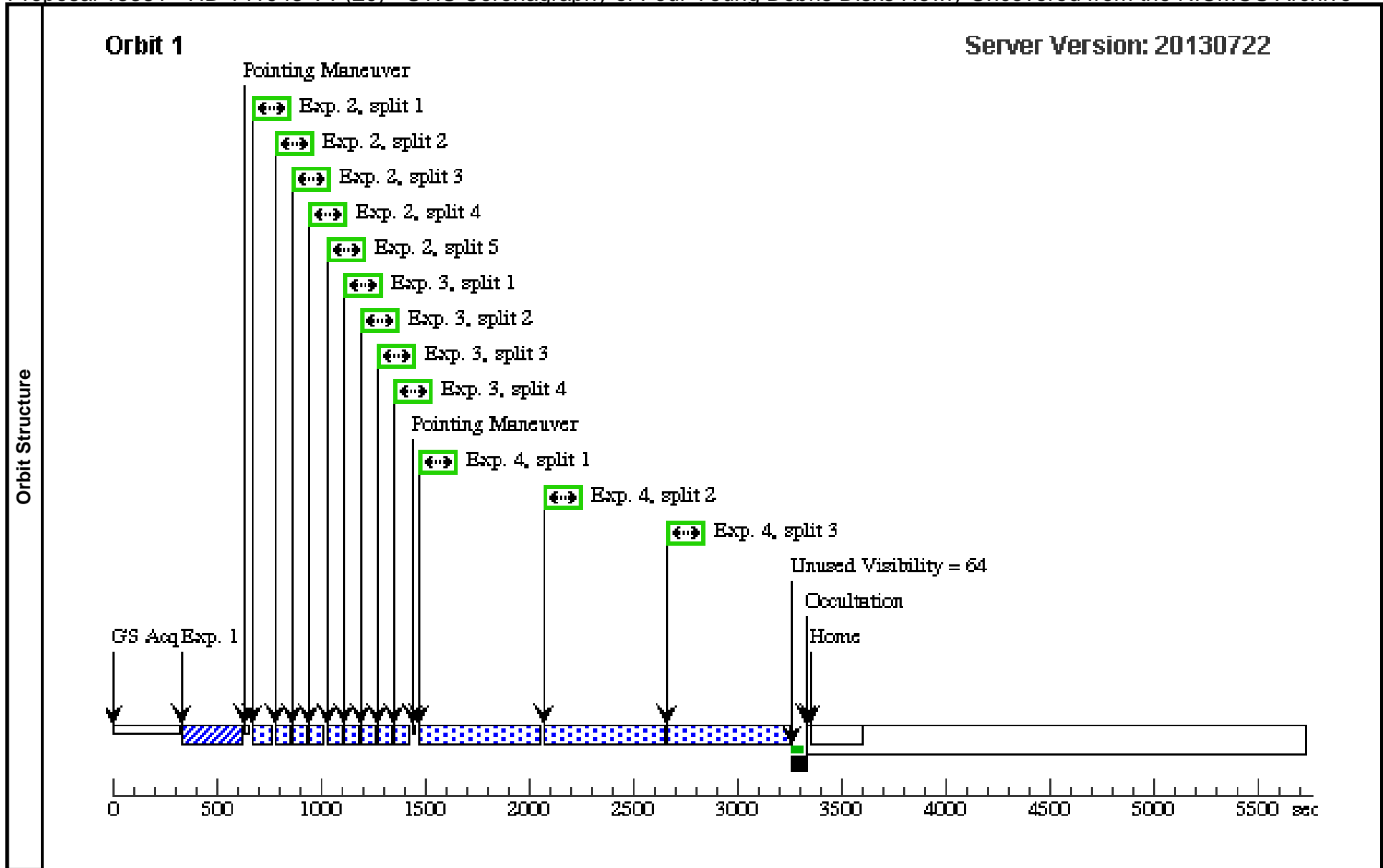
Proposal 13381 - HD 141943 V1 (20) - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NICMOS Archive

Wed Sep 18 01:52:19 GMT 2013

<b>Visit</b>	<p><b>Proposal 13381, HD 141943 V1 (20), implementation</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: STIS/CCD</p> <p>Special Requirements: ORIENT 15D TO 25D FROM 22</p> <p><i>Comments: Edge-on disk major axis is at position angle ~ 145 degrees.</i></p> <p><i>As noted in the Proposal Description, we prefer to schedule the 2nd science visit (3rd visit in each linked set) with the disk perpendicular to the STIS wedge. For this 1st visit, we want it offset in roll angle by either + or - 20 degrees with respect to that third visit, with loose tolerance of ~ 5 deg around that nominal offset.</i></p> <p><i>APT reports it can schedule this visit with an Orient From of 20 +-5 relative to Visit 3, but the PC should not hesitate to change the sign to -20 +-5 if that helps scheduling. The range of allowable orients may be relaxed somewhat if necessary also.</i></p>																
	<p>(HD 141943 V1 (20)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 141943 V1 (20)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p> <p>(HD 141943 V1 (20)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 141943 V1 (20)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 141943 V1 (20)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 141943 V1 (20)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 141943 V1 (20)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 141943 V1 (20)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 141943 V1 (20)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 141943 V1 (20)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 141943 V1 (20)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 141943 V1 (20)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 141943 V1 (20)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 141943 V1 (20)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p>																
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	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(3)	HD-141943	RA: 15 53 27.2950 (238.3637292d) Dec: -42 16 0.71 (-42.26686d) Equinox: J2000	Proper Motion RA: -42.2 mas/yr Proper Motion Dec: -65.3 mas/yr Parallax: 0.0204" Epoch of Position: 2000.0	V=7.85 Tycho V mag= 7.919 ; B-V = 0.706; V-I = 0.73	Reference Frame: ICRS												
<p><i>Comments: Circumstellar disk seen in NICMOS data is edge on with major axis PA= 145 deg E of N.</i></p> <p><i>No reliable I mag flux in literature; V-I color from Pickles 2010 spectral fits to Tycho+USNO+2MASS.</i></p>																	

Proposal 13381 - HD 141943 V1 (20) - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NICMOS Archive

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	HD 141943 ACQ (STIS.ta.514 552)	(3) HD-141943	STIS/CCD, ACQ, F25ND3	MIRROR	ACQTYPE=POINT	GS ACQ SCENARI O BASE1BN3	0.6 Secs (0.6 Secs) [==>]	[1]
	2	HD 141943 Shorts	(3) HD-141943	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	GAIN=4; SIZEAXIS2=137; CR-SPLIT=5		300 Secs (300 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)]	[1]
	<p>Comments: Short exposure time set to 60 s, to achieve 80% full well (~110k e-/pixel) for the brightest part of the PSF wings just outside the Wedge0.6 position for a V=7.8 target. Repeated 9 x via CR-splits.</p> <p>SIZEAXIS2=137 used for the Wedge 0.6 position</p>								
	3	HD 141943 Shorts 2	(3) HD-141943	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	GAIN=4; SIZEAXIS2=137; CR-SPLIT=4			240 Secs (240 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]
<p>Comments: Short exposure time set to 60 s, to achieve 80% full well (~110k e-/pixel) for the brightest part of the PSF wings just outside the Wedge0.6 position for a V=7.8 target. Repeated 9 x via CR-splits.</p> <p>SIZEAXIS2=137 used for the Wedge 0.6 position</p>									
4	HD 141943 Longs	(3) HD-141943	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	GAIN=4; SIZEAXIS2=427; CR-SPLIT=3			1700 Secs (1700 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]
<p>Comments: Long exposure time set to fill the remainder of the orbit, CR-split=3.</p> <p>SIZEAXIS2 = 427 is used, appropriate for the Wedge 1.0 position.</p>									



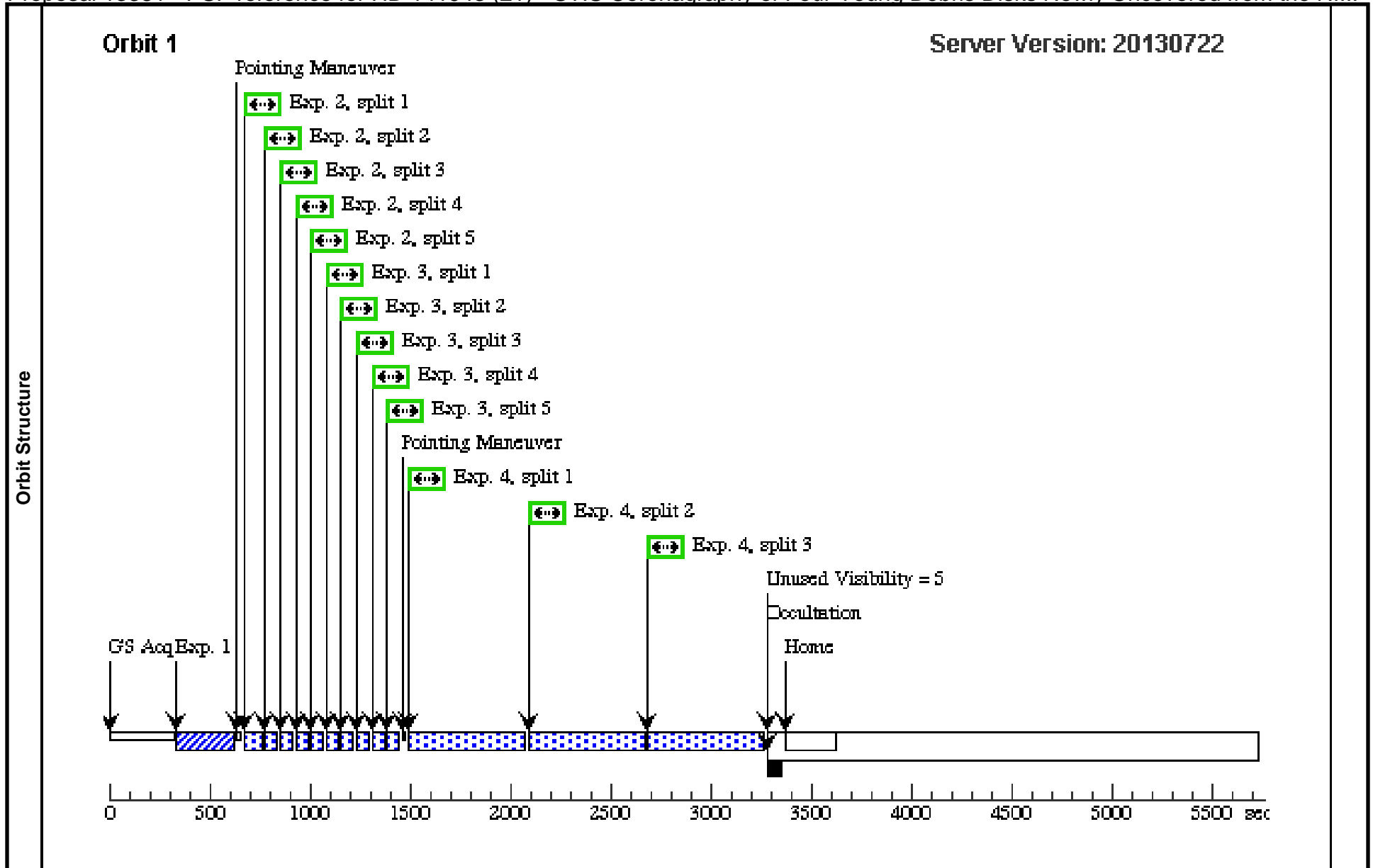
Proposal 13381 - PSF reference for HD 141943 (21) - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NI...

Wed Sep 18 01:52:20 GMT 2013

<b>Visit</b>	<p><b>Proposal 13381, PSF reference for HD 141943 (21), implementation</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: STIS/CCD</p> <p>Special Requirements: ORIENT -5D TO 5D FROM 22; AFTER 20 BY 0.5 Orbits TO 1.5 Orbits</p> <p><i>Comments: PSF star for visits 20 and 22. Ideally this should be observed at similar spacecraft orientation as Visit 22, but this constraint can be relaxed if needed for schedulability.</i></p>						
	<b>Diagnostics</b>	<p>(PSF reference for HD 141943 (21)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF reference for HD 141943 (21)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF reference for HD 141943 (21)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF reference for HD 141943 (21)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p> <p>(PSF reference for HD 141943 (21)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF reference for HD 141943 (21)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p> <p>(PSF reference for HD 141943 (21)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF reference for HD 141943 (21)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF reference for HD 141943 (21)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p> <p>(PSF reference for HD 141943 (21)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF reference for HD 141943 (21)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF reference for HD 141943 (21)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF reference for HD 141943 (21)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p>					
<b>Fixed Targets</b>		<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
		(7)	PSF-HD-141943--HD-141885 Alt Name1: HD-141885	RA: 15 52 52.0830 (238.2170125d) Dec: -37 23 54.92 (-37.39859d) Equinox: J2000	Proper Motion RA: 6.29 mas/yr Proper Motion Dec: -31.60 mas/yr Parallax: 0.00945" Epoch of Position: 2000.0	V=7.73 Tycho V mag= 7.803; B-V = 0.708; V-I = 0.72	Reference Frame: ICRS
<p><i>Comments: PSF star selected for HD 141943. This is the best color match among suitably bright stars within 0.5 degrees. The effective temperature reported in Ammons et al. 2006 (5935 K) is a great match for the Geneva-Copenhagen survey reported temperature for HD 141943 (5963 K). Furthermore this is a Doppler exoplanet survey RV standard star (Crifo et al. 2010); highly stable RV provides strong evidence that this is not a binary. PSF star is 4.9 deg from science target. V-I color from Hipparcos catalog.</i></p>							

Proposal 13381 - PSF reference for HD 141943 (21) - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NI...

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	HD 141885 ACQ (STIS.ta.514 559)	(7) PSF-HD-141943- HD-141885	STIS/CCD, ACQ, F25ND3	MIRROR	ACQTYPE=POINT	GS ACQ SCENARI O BASE1BN3	0.5 Secs (0.5 Secs) [==>]	[1]
	2	HD 141885 Shorts	(7) PSF-HD-141943- HD-141885	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	GAIN=4; SIZEAXIS2=137; CR-SPLIT=5		270 Secs (270 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)]	[1]
	<p>Comments: Short exposure time set to 54 s, to achieve 80% full well (~110k e-/pixel) for the brightest part of the PSF wings just outside the Wedge0.6 position for a V=7.7 target. Repeated 10 x via CR-splits.</p> <p>SIZEAXIS2=137 used for the Wedge 0.6 position</p>								
	3	HD 141885 Shorts 2	(7) PSF-HD-141943- HD-141885	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	GAIN=4; SIZEAXIS2=137; CR-SPLIT=5		270 Secs (270 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)]	[1]
<p>Comments: Short exposure time set to 54 s, to achieve 80% full well (~110k e-/pixel) for the brightest part of the PSF wings just outside the Wedge0.6 position for a V=7.7 target. Repeated 10 x via CR-splits.</p> <p>SIZEAXIS2=137 used for the Wedge 0.6 position</p>									
4	HD 141885 Longs	(7) PSF-HD-141943- HD-141885	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	GAIN=4; SIZEAXIS2=427; CR-SPLIT=3		1690 Secs (1690 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]	
<p>Comments: Long exposure time set to fill the remainder of the orbit, CR-split=3.</p> <p>SIZEAXIS2 = 427 is used, appropriate for the Wedge 1.0 position.</p>									



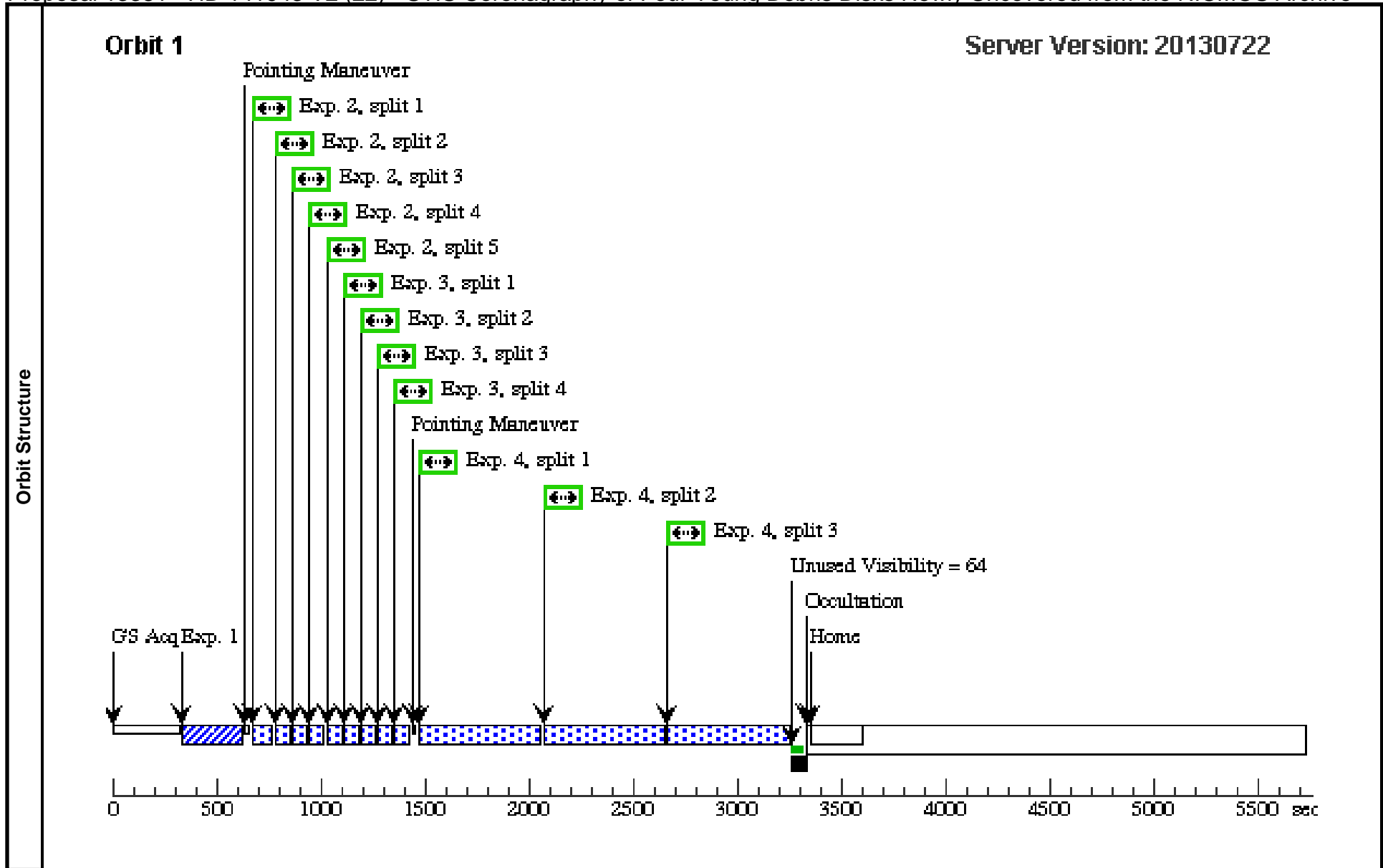
Proposal 13381 - HD 141943 V2 (22) - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NICMOS Archive

Wed Sep 18 01:52:21 GMT 2013

<b>Visit</b>	<p><b>Proposal 13381, HD 141943 V2 (22), implementation</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: STIS/CCD</p> <p>Special Requirements: ORIENT 275D TO 285 D; ORIENT 95D TO 105 D; AFTER 21 BY 0.5 Orbits TO 1.5 Orbits</p> <p><i>Comments: Edge-on disk major axis is at position angle ~ 145 degrees.</i></p> <p><i>As noted in the Proposal Description, we prefer to schedule the 2nd science visit (3rd visit in each linked set) with the disk perpendicular to the STIS wedge.</i></p> <p><i>We want to observe with this perpendicular to the STIS occulting wedge, hence PA=145 should be parallel with the AXIS1 direction. To achieve this we add either 135 or 315 degrees to that PA. Hence the desired orientation for this visit is either ORIENT ~ 280 or ORIENT ~ 100. (No preference between those two) We specify a +- 5 deg range around the nominal orientation. If scheduling proves difficult this constraint could be relaxed slightly.</i></p>																
	<p>(HD 141943 V2 (22)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p> <p>(HD 141943 V2 (22)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 141943 V2 (22)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p> <p>(HD 141943 V2 (22)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 141943 V2 (22)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 141943 V2 (22)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 141943 V2 (22)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 141943 V2 (22)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 141943 V2 (22)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 141943 V2 (22)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 141943 V2 (22)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 141943 V2 (22)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 141943 V2 (22)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p>																
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<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>HD-141943</td> <td>RA: 15 53 27.2950 (238.3637292d) Dec: -42 16 0.71 (-42.26686d) Equinox: J2000</td> <td>Proper Motion RA: -42.2 mas/yr Proper Motion Dec: -65.3 mas/yr Parallax: 0.0204" Epoch of Position: 2000.0</td> <td>V=7.85 Tycho V mag= 7.919 ; B-V = 0.706; V-I = 0.73</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(3)	HD-141943	RA: 15 53 27.2950 (238.3637292d) Dec: -42 16 0.71 (-42.26686d) Equinox: J2000	Proper Motion RA: -42.2 mas/yr Proper Motion Dec: -65.3 mas/yr Parallax: 0.0204" Epoch of Position: 2000.0	V=7.85 Tycho V mag= 7.919 ; B-V = 0.706; V-I = 0.73	Reference Frame: ICRS				
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(3)	HD-141943	RA: 15 53 27.2950 (238.3637292d) Dec: -42 16 0.71 (-42.26686d) Equinox: J2000	Proper Motion RA: -42.2 mas/yr Proper Motion Dec: -65.3 mas/yr Parallax: 0.0204" Epoch of Position: 2000.0	V=7.85 Tycho V mag= 7.919 ; B-V = 0.706; V-I = 0.73	Reference Frame: ICRS												
<p><i>Comments: Circumstellar disk seen in NICMOS data is edge on with major axis PA= 145 deg E of N.</i></p> <p><i>No reliable I mag flux in literature; V-I color from Pickles 2010 spectral fits to Tycho+USNO+2MASS.</i></p>																	

Proposal 13381 - HD 141943 V2 (22) - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NICMOS Archive

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	HD 141943 ACQ (STIS.ta.514 552)	(3) HD-141943	STIS/CCD, ACQ, F25ND3	MIRROR	ACQTYPE=POINT	GS ACQ SCENARI O BASE1BN3	0.6 Secs (0.6 Secs) [==>]	[1]
	2	HD 141943 Shorts	(3) HD-141943	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	GAIN=4; SIZEAXIS2=137; CR-SPLIT=5		300 Secs (300 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)]	[1]
	<p>Comments: Short exposure time set to 60 s, to achieve 80% full well (~110k e-/pixel) for the brightest part of the PSF wings just outside the Wedge0.6 position for a V=7.8 target. Repeated 9 x via CR-splits.</p> <p>SIZEAXIS2=137 used for the Wedge 0.6 position</p>								
	3	HD 141943 Shorts	(3) HD-141943	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	GAIN=4; SIZEAXIS2=137; CR-SPLIT=4			240 Secs (240 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]
<p>Comments: Short exposure time set to 60 s, to achieve 80% full well (~110k e-/pixel) for the brightest part of the PSF wings just outside the Wedge0.6 position for a V=7.8 target. Repeated 9 x via CR-splits.</p> <p>SIZEAXIS2=137 used for the Wedge 0.6 position</p>									
4	HD 141943 Longs	(3) HD-141943	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	GAIN=4; SIZEAXIS2=427; CR-SPLIT=3			1700 Secs (1700 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]
<p>Comments: Long exposure time set to fill the remainder of the orbit, CR-split=3.</p> <p>SIZEAXIS2 = 427 is used, appropriate for the Wedge 1.0 position.</p>									



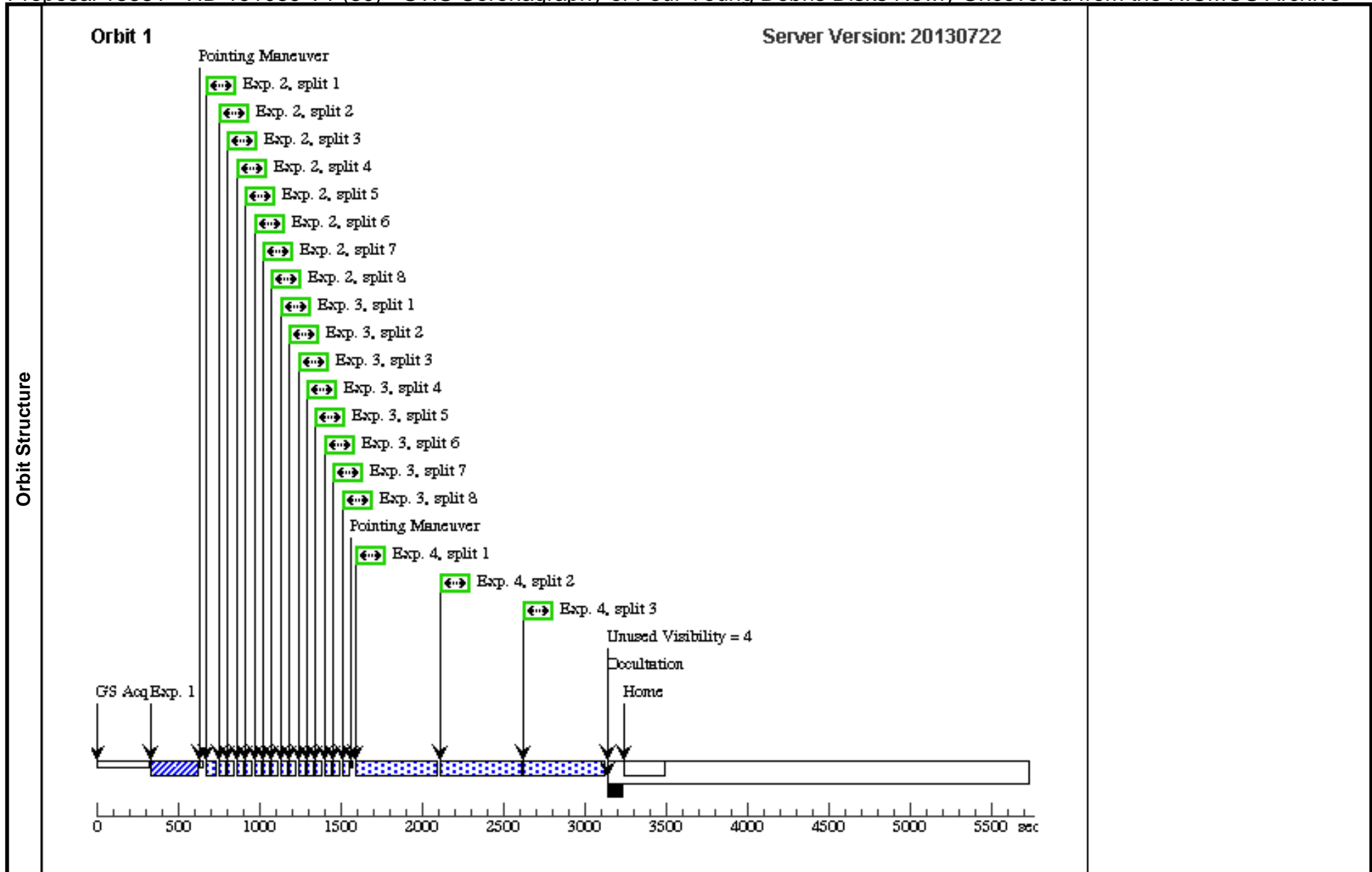
Proposal 13381 - HD 191089 V1 (30) - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NICMOS Archive

Wed Sep 18 01:52:21 GMT 2013

<b>Visit</b>	<p><b>Proposal 13381, HD 191089 V1 (30), implementation</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: STIS/CCD</p> <p>Special Requirements: SCHED 60%</p> <p><i>Comments: HD 191089 is a bit different from our other targets, as its disk is oriented closer to face on (~ 28 deg inclination), not edge on. We therefore do not have a single preferred orientation for the observations but instead want four orbits distributed widely in orientation.</i></p> <p><i>An roll of approx 25 deg works well to move the regions blocked by the wedge and diffraction spike in one pair of orbits. We repeat the second set with an additional 80 deg roll to fill out position angle coverage. The combined four rolls will achieve almost-but-not-quite-complete position angle coverage; getting to 100% would require an additional two rolls as was used in GO 12228. Detailed calculations of the missing "gap" regions indicate that the roll offset between each visit pair should be strictly &gt; 22.5 deg to keep the length of the gaps extending from the occulting spot smaller than the apparent size of the disk. (This is hard to explain in words but is clear with figures.) We therefore set the Orient From constraints to 22.5 - 27.5 for each pair, and 80 deg between the pairs. Note that 80 deg is preferable to 90 since it avoids overlap of the regions blocked by the diffraction spikes.</i></p>																	
	<b>Diagnostics</b>	<p>(HD 191089 V1 (30)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V1 (30)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V1 (30)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p> <p>(HD 191089 V1 (30)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V1 (30)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V1 (30)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V1 (30)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V1 (30)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p> <p>(HD 191089 V1 (30)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V1 (30)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V1 (30)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V1 (30)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V1 (30)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V1 (30)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V1 (30)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V1 (30)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V1 (30)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V1 (30)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p> <p>(HD 191089 V1 (30)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p>																
<b>Fixed Targets</b>		<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>HD-191089</td> <td>RA: 20 09 5.2149 (302.2717287d) Dec: -26 13 26.53 (-26.22404d) Equinox: J2000</td> <td>Proper Motion RA: 39.17 mas/yr Proper Motion Dec: -68.25 mas/yr Parallax: 0.01915" Epoch of Position: 2000.0</td> <td>V=7.18 Tycho V mag= 7.233 ; B-V = 0.472; V-I = 0.55</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Circumstellar disk seen in NICMOS data is close to face on (inclination ~ 28 deg based on ellipse fitting) with major axis PA between approx 55 to 70 deg E of N.</i></p> <p><i>V-I from Hipparcos catalog. V-I from Hipparcos catalog. Cross check: Pickles 2010 synthetic photometry color agrees within 0.03 mags.</i></p>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(4)	HD-191089	RA: 20 09 5.2149 (302.2717287d) Dec: -26 13 26.53 (-26.22404d) Equinox: J2000	Proper Motion RA: 39.17 mas/yr Proper Motion Dec: -68.25 mas/yr Parallax: 0.01915" Epoch of Position: 2000.0	V=7.18 Tycho V mag= 7.233 ; B-V = 0.472; V-I = 0.55	Reference Frame: ICRS
		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(4)		HD-191089	RA: 20 09 5.2149 (302.2717287d) Dec: -26 13 26.53 (-26.22404d) Equinox: J2000	Proper Motion RA: 39.17 mas/yr Proper Motion Dec: -68.25 mas/yr Parallax: 0.01915" Epoch of Position: 2000.0	V=7.18 Tycho V mag= 7.233 ; B-V = 0.472; V-I = 0.55	Reference Frame: ICRS												

Proposal 13381 - HD 191089 V1 (30) - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NICMOS Archive

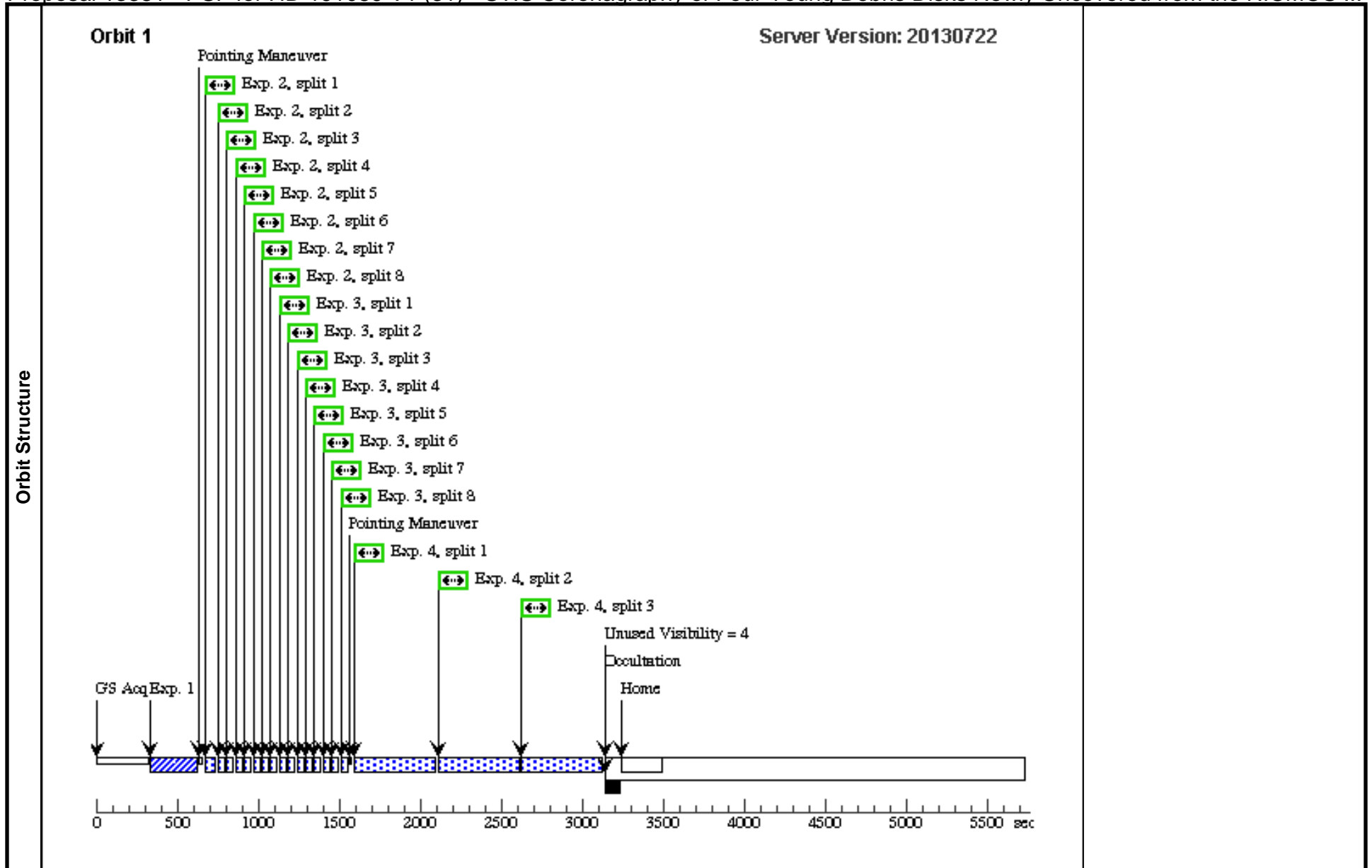
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	HD 191089 ACQ (STIS.ta.514 552)	(4) HD-191089	STIS/CCD, ACQ, F25ND3	MIRROR	ACQTYPE=POINT	GS ACQ SCENARI O BASE1BN3		0.3 Secs (0.3 Secs) [==>]	[1]	
	2	HD 191089 Shorts	(4) HD-191089	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	GAIN=4; SIZEAXIS2=137; CR-SPLIT=8			256 Secs (256 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)] [==>(Split 8)]	[1]	
	<i>Comments: Short exposure time set to 32 s, to achieve 80% full well (~110k e-/pixel) for the brightest part of the PSF wings just outside the Wedge0.6 position for a V=7.2 target. Repeated 16 x via CR-splits.</i> SIZEAXIS2=137 used for the Wedge 0.6 position										
	3	HD 191089 Shorts 2	(4) HD-191089	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	GAIN=4; SIZEAXIS2=137; CR-SPLIT=8			256 Secs (256 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)] [==>(Split 8)]	[1]	
	<i>Comments: Short exposure time set to 32 s, to achieve 80% full well (~110k e-/pixel) for the brightest part of the PSF wings just outside the Wedge0.6 position for a V=7.2 target. Repeated 16 x via CR-splits.</i> SIZEAXIS2=137 used for the Wedge 0.6 position										
	4	HD 191089 Longs	(4) HD-191089	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	GAIN=4; SIZEAXIS2=427; CR-SPLIT=3			1450 Secs (1450 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]	
	<i>Comments: Long exposure time set to fill the remainder of the orbit, CR-split=3.</i> SIZEAXIS2 = 427 is used, appropriate for the Wedge 1.0 position.										



<b>Visit</b>	<p><b>Proposal 13381, PSF for HD 191089 V1 (31), implementation</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: STIS/CCD</p> <p>Special Requirements: SCHED 60%; AFTER 30 BY 0.5 Orbits TO 1.5 Orbits</p>						
	<b>Diagnostics</b>	<p>(PSF for HD 191089 V1 (31)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V1 (31)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p> <p>(PSF for HD 191089 V1 (31)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p> <p>(PSF for HD 191089 V1 (31)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V1 (31)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V1 (31)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V1 (31)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V1 (31)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V1 (31)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V1 (31)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V1 (31)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V1 (31)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V1 (31)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V1 (31)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V1 (31)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V1 (31)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V1 (31)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V1 (31)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V1 (31)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V1 (31)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p>					
<b>Fixed Targets</b>		<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
		(8)	PSF-HD-191089--HD-196081 Alt Name1: HD-196081	RA: 20 35 54.4764 (308.9769850d) Dec: -26 46 24.30 (-26.77342d) Equinox: J2000	Proper Motion RA: 94.14 mas/yr Proper Motion Dec: 21.63 mas/yr Parallax: 0.0174" Epoch of Position: 2000.0	V=7.2 Tycho V mag=7.238; B-V = 0.46; V-I = 0.49 (Hipparcos), 0.51 (Pickles synthetic photom fits)	Reference Frame: ICRS
<p><i>Comments: PSF star selected for HD 191089.</i></p> <p><i>In this case there are no really great PSF star candidates very nearby to the science target, and we have to widen our search radius a bit. This star is 6.0 arcsec from the science target. It is a good match in Tycho colors and Geneva-Copenhagen Survey estimated effective temperatures. The Hipparcos V-I is a bit discrepant with the science target but (a) still within the 0.08 mag desired threshold, and (b) other evidence including the Pickles spectral model fits suggests the V-I colors may be more similar than is listed in the Hipparcos catalog. This PSF star is equal brightness to the science target.</i></p>							

Proposal 13381 - PSF for HD 191089 V1 (31) - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NICMOS ...

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	HD 196081 ACQ (STIS.ta.516665)	(8) PSF-HD-191089- -HD-196081	STIS/CCD, ACQ, F25ND3	MIRROR	ACQTYPE=POINT	GS ACQ SCENARI O BASE1BN3	0.3 Secs (0.3 Secs) [==>]	[1]
	2	HD 196081 Shorts	(8) PSF-HD-191089- -HD-196081	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	GAIN=4; SIZEAXIS2=137; CR-SPLIT=8		256 Secs (256 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)] [==>(Split 8)]	[1]
	<p>Comments: Short exposure time set to 32 s, to achieve 80% full well (~110k e-/pixel) for the brightest part of the PSF wings just outside the Wedge0.6 position for a V=7.2 target. Repeated 16 x via CR-splits.</p> <p>SIZEAXIS2=137 used for the Wedge 0.6 position</p>								
	3	HD 196081 Shorts 2	(8) PSF-HD-191089- -HD-196081	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	GAIN=4; SIZEAXIS2=137; CR-SPLIT=8			256 Secs (256 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)] [==>(Split 8)]
<p>Comments: Short exposure time set to 32 s, to achieve 80% full well (~110k e-/pixel) for the brightest part of the PSF wings just outside the Wedge0.6 position for a V=7.2 target. Repeated 16 x via CR-splits.</p> <p>SIZEAXIS2=137 used for the Wedge 0.6 position</p>									
4	HD 196081 Longs	(8) PSF-HD-191089- -HD-196081	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	GAIN=4; SIZEAXIS2=427; CR-SPLIT=3			1450 Secs (1450 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]
<p>Comments: *TODO* Update with optimal exposure time for this star - this is just a placeholder value!</p>									



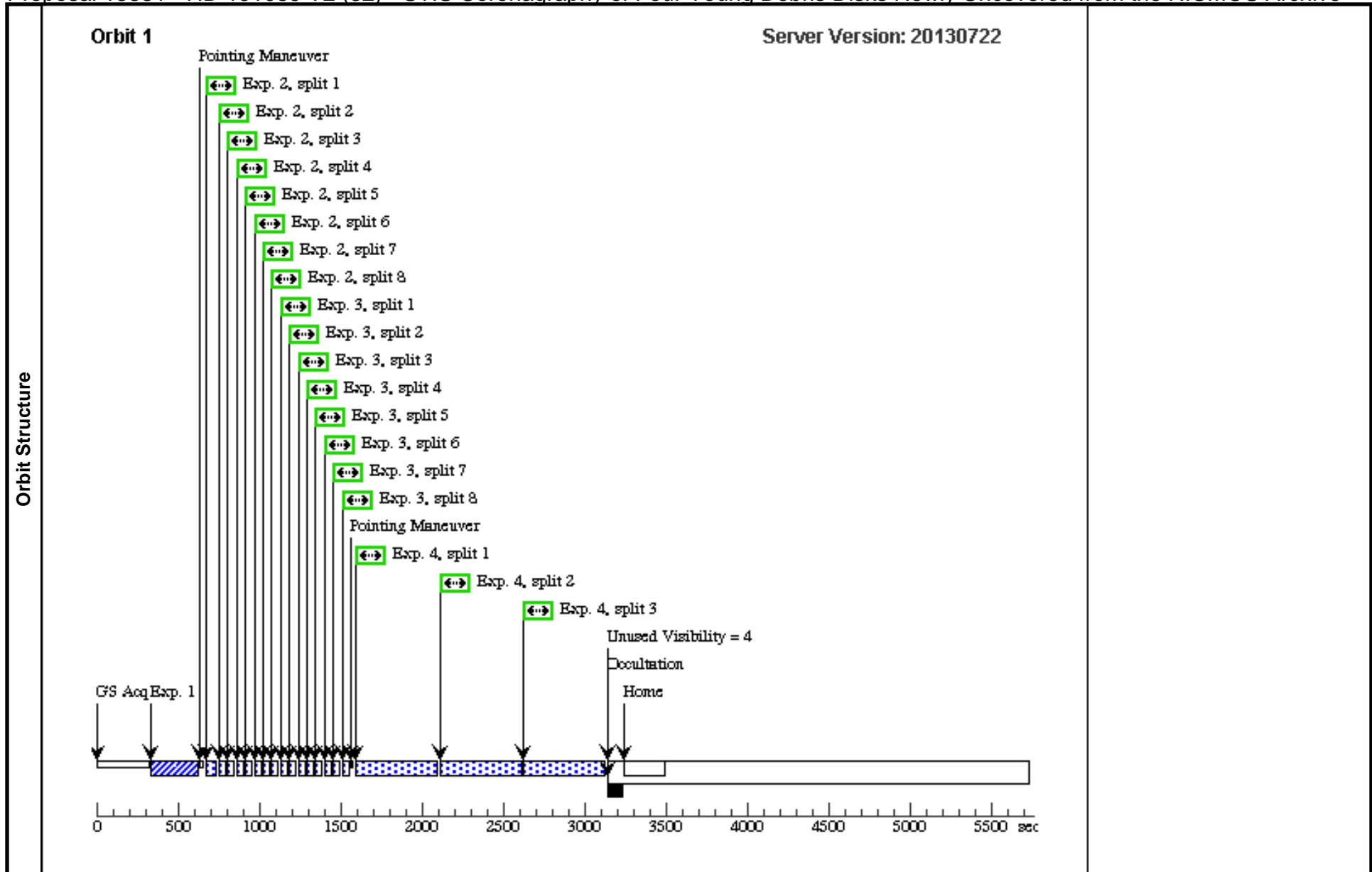
Proposal 13381 - HD 191089 V2 (32) - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NICMOS Archive

Wed Sep 18 01:52:23 GMT 2013

<b>Visit</b>	<p><b>Proposal 13381, HD 191089 V2 (32), implementation</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: STIS/CCD</p> <p>Special Requirements: SCHED 60%; ORIENT 23D TO 30D FROM 30; AFTER 31 BY 0.5 Orbits TO 1.5 Orbits</p>																	
	<b>Diagnostics</b>	<p>(HD 191089 V2 (32)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V2 (32)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V2 (32)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V2 (32)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V2 (32)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V2 (32)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V2 (32)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V2 (32)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V2 (32)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p> <p>(HD 191089 V2 (32)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V2 (32)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V2 (32)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p> <p>(HD 191089 V2 (32)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V2 (32)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V2 (32)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V2 (32)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p> <p>(HD 191089 V2 (32)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V2 (32)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V2 (32)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p>																
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(4)		HD-191089	RA: 20 09 5.2149 (302.2717287d) Dec: -26 13 26.53 (-26.22404d) Equinox: J2000	Proper Motion RA: 39.17 mas/yr Proper Motion Dec: -68.25 mas/yr Parallax: 0.01915" Epoch of Position: 2000.0	V=7.18 Tycho V mag= 7.233 ; B-V = 0.472; V-I = 0.55	Reference Frame: ICRS												
<p><i>Comments: Circumstellar disk seen in NICMOS data is close to face on (inclination ~ 28 deg based on ellipse fitting) with major axis PA between approx 55 to 70 deg E of N.</i></p> <p><i>V-I from Hipparcos catalog. V-I from Hipparcos catalog. Cross check: Pickles 2010 synthetic photometry color agrees within 0.03 mags.</i></p>																		

Proposal 13381 - HD 191089 V2 (32) - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NICMOS Archive

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	HD 191089 ACQ (STIS.ta.514 552)	(4) HD-191089	STIS/CCD, ACQ, F25ND3	MIRROR	ACQTYPE=POINT	GS ACQ SCENARI O BASE1BN3		0.3 Secs (0.3 Secs) [==>]	[1]	
	2	HD 191089 Shorts	(4) HD-191089	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	GAIN=4; SIZEAXIS2=137; CR-SPLIT=8			256 Secs (256 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)] [==>(Split 8)]	[1]	
	<i>Comments: Short exposure time set to 32 s, to achieve 80% full well (~110k e-/pixel) for the brightest part of the PSF wings just outside the Wedge0.6 position for a V=7.2 target. Repeated 16 x via CR-splits.</i> <i>SIZEAXIS2=137 used for the Wedge 0.6 position</i>										
	3	HD 191089 Shorts 2	(4) HD-191089	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	GAIN=4; SIZEAXIS2=137; CR-SPLIT=8			256 Secs (256 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)] [==>(Split 8)]	[1]	
	<i>Comments: Short exposure time set to 32 s, to achieve 80% full well (~110k e-/pixel) for the brightest part of the PSF wings just outside the Wedge0.6 position for a V=7.2 target. Repeated 16 x via CR-splits.</i> <i>SIZEAXIS2=137 used for the Wedge 0.6 position</i>										
	4	HD 191089 Longs	(4) HD-191089	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	GAIN=4; SIZEAXIS2=427; CR-SPLIT=3			1450 Secs (1450 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]	
	<i>Comments: Long exposure time set to fill the remainder of the orbit, CR-split=3.</i> <i>SIZEAXIS2 = 427 is used, appropriate for the Wedge 1.0 position.</i>										



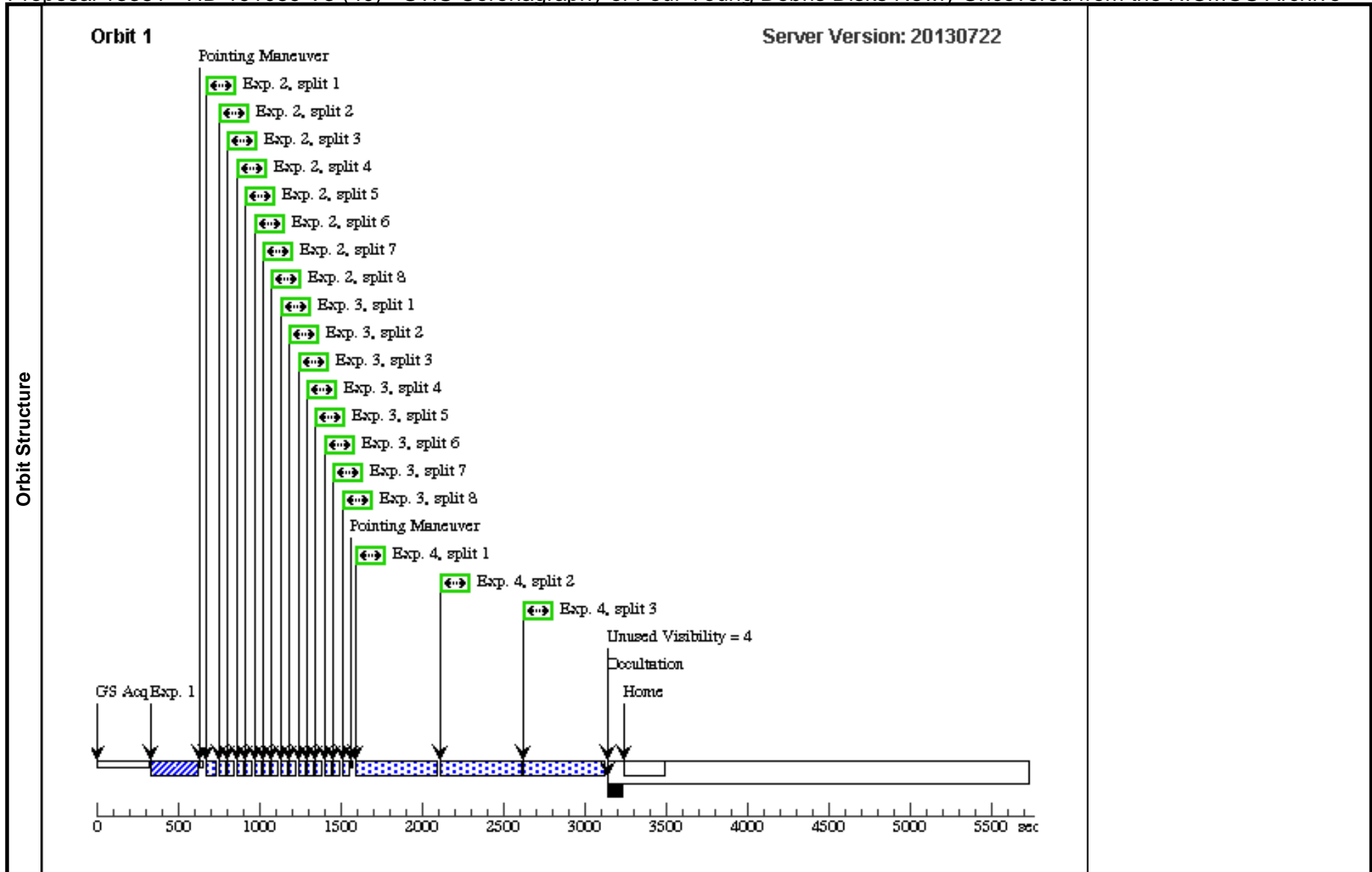
Proposal 13381 - HD 191089 V3 (40) - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NICMOS Archive

Wed Sep 18 01:52:24 GMT 2013

<b>Visit</b>	<p><b>Proposal 13381, HD 191089 V3 (40), implementation</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: STIS/CCD</p> <p>Special Requirements: SCHED 60%; ORIENT 78D TO 82D FROM 30</p>						
	<b>Diagnostics</b>	<p>(HD 191089 V3 (40)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V3 (40)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V3 (40)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p> <p>(HD 191089 V3 (40)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V3 (40)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V3 (40)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V3 (40)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p> <p>(HD 191089 V3 (40)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p> <p>(HD 191089 V3 (40)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V3 (40)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V3 (40)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V3 (40)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V3 (40)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V3 (40)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V3 (40)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V3 (40)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V3 (40)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V3 (40)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V3 (40)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p>					
<b>Fixed Targets</b>		<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
		(4)	HD-191089	RA: 20 09 5.2149 (302.2717287d) Dec: -26 13 26.53 (-26.22404d) Equinox: J2000	Proper Motion RA: 39.17 mas/yr Proper Motion Dec: -68.25 mas/yr Parallax: 0.01915" Epoch of Position: 2000.0	V=7.18 Tycho V mag= 7.233 ; B-V = 0.472; V-I = 0.55	Reference Frame: ICRS
<p><i>Comments: Circumstellar disk seen in NICMOS data is close to face on (inclination ~ 28 deg based on ellipse fitting) with major axis PA between approx 55 to 70 deg E of N.</i></p> <p><i>V-I from Hipparcos catalog. V-I from Hipparcos catalog. Cross check: Pickles 2010 synthetic photometry color agrees within 0.03 mags.</i></p>							

Proposal 13381 - HD 191089 V3 (40) - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NICMOS Archive

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	HD 191089 ACQ (STIS.ta.514 552)	(4) HD-191089	STIS/CCD, ACQ, F25ND3	MIRROR	ACQTYPE=POINT	GS ACQ SCENARI O BASE1BN3	0.3 Secs (0.3 Secs) [==>]	[1]
	2	HD 191089 Shorts	(4) HD-191089	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	GAIN=4; SIZEAXIS2=137; CR-SPLIT=8		256 Secs (256 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)] [==>(Split 8)]	[1]
	<p>Comments: Short exposure time set to 32 s, to achieve 80% full well (~110k e-/pixel) for the brightest part of the PSF wings just outside the Wedge0.6 position for a V=7.2 target. Repeated 16 x via CR-splits.</p> <p>SIZEAXIS2=137 used for the Wedge 0.6 position</p>								
	3	HD 191089 Shorts 2	(4) HD-191089	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	GAIN=4; SIZEAXIS2=137; CR-SPLIT=8		256 Secs (256 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)] [==>(Split 8)]	[1]
<p>Comments: Short exposure time set to 32 s, to achieve 80% full well (~110k e-/pixel) for the brightest part of the PSF wings just outside the Wedge0.6 position for a V=7.2 target. Repeated 16 x via CR-splits.</p> <p>SIZEAXIS2=137 used for the Wedge 0.6 position</p>									
4	HD 191089 Longs	(4) HD-191089	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	GAIN=4; SIZEAXIS2=427; CR-SPLIT=3		1450 Secs (1450 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]	
<p>Comments: Long exposure time set to fill the remainder of the orbit, CR-split=3.</p> <p>SIZEAXIS2 = 427 is used, appropriate for the Wedge 1.0 position.</p>									



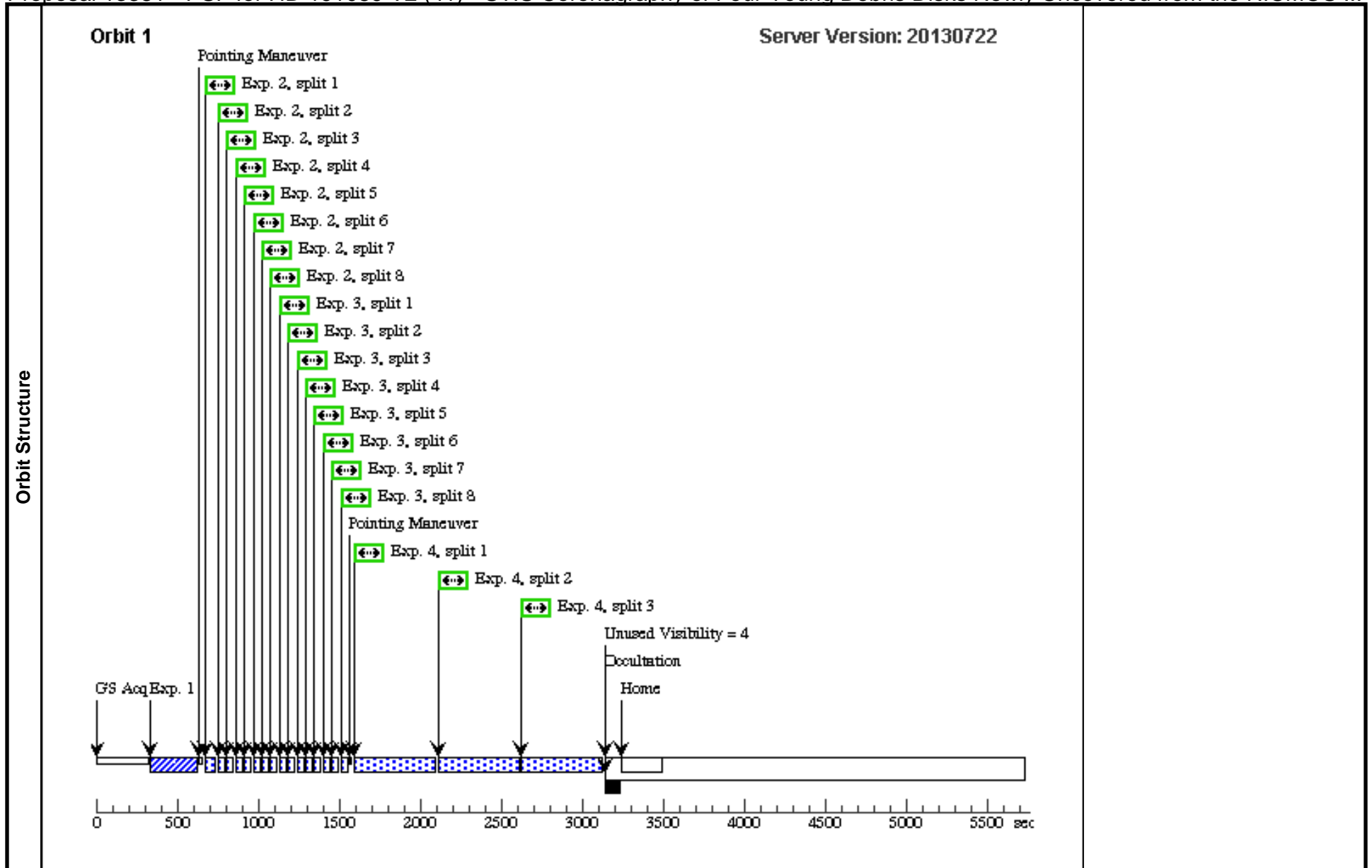
Proposal 13381 - PSF for HD 191089 V2 (41) - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NICMOS ...

Wed Sep 18 01:52:25 GMT 2013

<b>Visit</b>	<p><b>Proposal 13381, PSF for HD 191089 V2 (41), implementation</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: STIS/CCD</p> <p>Special Requirements: SCHED 60%; AFTER 40 BY 0.5 Orbits TO 1.5 Orbits</p>						
	<b>Diagnostics</b>	<p>(PSF for HD 191089 V2 (41)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V2 (41)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p> <p>(PSF for HD 191089 V2 (41)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V2 (41)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V2 (41)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V2 (41)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V2 (41)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p> <p>(PSF for HD 191089 V2 (41)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V2 (41)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p> <p>(PSF for HD 191089 V2 (41)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V2 (41)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V2 (41)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V2 (41)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V2 (41)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V2 (41)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V2 (41)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V2 (41)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(PSF for HD 191089 V2 (41)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p>					
<b>Fixed Targets</b>		<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
		(8)	PSF-HD-191089--HD-196081 Alt Name1: HD-196081	RA: 20 35 54.4764 (308.9769850d) Dec: -26 46 24.30 (-26.77342d) Equinox: J2000	Proper Motion RA: 94.14 mas/yr Proper Motion Dec: 21.63 mas/yr Parallax: 0.0174" Epoch of Position: 2000.0	V=7.2 Tycho V mag=7.238; B-V = 0.46; V-I = 0.49 (Hipparcos), 0.51 (Pickles synthetic photom fits)	Reference Frame: ICRS
<p><i>Comments: PSF star selected for HD 191089.</i></p> <p><i>In this case there are no really great PSF star candidates very nearby to the science target, and we have to widen our search radius a bit. This star is 6.0 arcsec from the science target. It is a good match in Tycho colors and Geneva-Copenhagen Survey estimated effective temperatures. The Hipparcos V-I is a bit discrepant with the science target but (a) still within the 0.08 mag desired threshold, and (b) other evidence including the Pickles spectral model fits suggests the V-I colors may be more similar than is listed in the Hipparcos catalog. This PSF star is equal brightness to the science target.</i></p>							

Proposal 13381 - PSF for HD 191089 V2 (41) - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NICMOS ...

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	HD 196081 ACQ (STIS.ta.514 552)	(8) PSF-HD-191089- HD-196081	STIS/CCD, ACQ, F25ND3	MIRROR	ACQTYPE=POINT	GS ACQ SCENARI O BASE1BN3		0.3 Secs (0.3 Secs) [==>]	[1]	
	2	HD 196081 Shorts	(8) PSF-HD-191089- HD-196081	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	GAIN=4; SIZEAXIS2=137; CR-SPLIT=8			256 Secs (256 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)] [==>(Split 8)]	[1]	
	<p>Comments: Short exposure time set to 32 s, to achieve 80% full well (~110k e-/pixel) for the brightest part of the PSF wings just outside the Wedge0.6 position for a V=7.2 target. Repeated 16 x via CR-splits.</p> <p>SIZEAXIS2=137 used for the Wedge 0.6 position</p>										
	3	HD 196081 Shorts 2	(8) PSF-HD-191089- HD-196081	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	GAIN=4; SIZEAXIS2=137; CR-SPLIT=8			256 Secs (256 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)] [==>(Split 8)]	[1]	
	<p>Comments: Short exposure time set to 32 s, to achieve 80% full well (~110k e-/pixel) for the brightest part of the PSF wings just outside the Wedge0.6 position for a V=7.2 target. Repeated 16 x via CR-splits.</p> <p>SIZEAXIS2=137 used for the Wedge 0.6 position</p>										
	4	HD 196081 Longs	(8) PSF-HD-191089- HD-196081	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	GAIN=4; SIZEAXIS2=427; CR-SPLIT=3			1450 Secs (1450 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]	
	<p>Comments: Long exposure time set to fill the remainder of the orbit, CR-split=3.</p> <p>SIZEAXIS2 = 427 is used, appropriate for the Wedge 1.0 position.</p>										



Proposal 13381 - HD 191089 V4 (42) - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NICMOS Archive

Wed Sep 18 01:52:26 GMT 2013

<b>Visit</b>	<p><b>Proposal 13381, HD 191089 V4 (42), implementation</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: STIS/CCD</p> <p>Special Requirements: SCHED 60%; ORIENT 23D TO 30D FROM 40; AFTER 41 BY 0.5 Orbits TO 1.5 Orbits</p>						
	<b>Diagnostics</b>	<p>(HD 191089 V4 (42)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V4 (42)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V4 (42)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V4 (42)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V4 (42)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V4 (42)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p> <p>(HD 191089 V4 (42)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS</p> <p>(HD 191089 V4 (42)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V4 (42)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V4 (42)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V4 (42)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V4 (42)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V4 (42)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V4 (42)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V4 (42)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V4 (42)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V4 (42)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V4 (42)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p> <p>(HD 191089 V4 (42)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR</p>					
<b>Fixed Targets</b>		<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
		(4)	HD-191089	RA: 20 09 5.2149 (302.2717287d) Dec: -26 13 26.53 (-26.22404d) Equinox: J2000	Proper Motion RA: 39.17 mas/yr Proper Motion Dec: -68.25 mas/yr Parallax: 0.01915" Epoch of Position: 2000.0	V=7.18 Tycho V mag= 7.233 ; B-V = 0.472; V-I = 0.55	Reference Frame: ICRS
<p><i>Comments: Circumstellar disk seen in NICMOS data is close to face on (inclination ~ 28 deg based on ellipse fitting) with major axis PA between approx 55 to 70 deg E of N.</i></p> <p><i>V-I from Hipparcos catalog. V-I from Hipparcos catalog. Cross check: Pickles 2010 synthetic photometry color agrees within 0.03 mags.</i></p>							

Proposal 13381 - HD 191089 V4 (42) - STIS Coronagraphy of Four Young Debris Disks Newly Uncovered from the NICMOS Archive

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	HD 191089 ACQ (STIS.ta.514 552)	(4) HD-191089	STIS/CCD, ACQ, F25ND3	MIRROR	ACQTYPE=POINT	GS ACQ SCENARI O BASE1BN3	0.3 Secs (0.3 Secs) [==>]	[1]
	2	HD 191089 Shorts	(4) HD-191089	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	GAIN=4; SIZEAXIS2=137; CR-SPLIT=8		256 Secs (256 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)] [==>(Split 8)]	[1]
	<p>Comments: Short exposure time set to 32 s, to achieve 80% full well (~110k e-/pixel) for the brightest part of the PSF wings just outside the Wedge0.6 position for a V=7.2 target. Repeated 16 x via CR-splits.</p> <p>SIZEAXIS2=137 used for the Wedge 0.6 position</p>								
	3	HD 191089 Shorts 2	(4) HD-191089	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	GAIN=4; SIZEAXIS2=137; CR-SPLIT=8		256 Secs (256 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)] [==>(Split 8)]	[1]
<p>Comments: Short exposure time set to 32 s, to achieve 80% full well (~110k e-/pixel) for the brightest part of the PSF wings just outside the Wedge0.6 position for a V=7.2 target. Repeated 16 x via CR-splits.</p> <p>SIZEAXIS2=137 used for the Wedge 0.6 position</p>									
4	HD 191089 Longs	(4) HD-191089	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	GAIN=4; SIZEAXIS2=427; CR-SPLIT=3		1450 Secs (1450 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]	
<p>Comments: Long exposure time set to fill the remainder of the orbit, CR-split=3.</p> <p>SIZEAXIS2 = 427 is used, appropriate for the Wedge 1.0 position.</p>									

