



## 10599 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

Cycle: 14, Proposal Category: GO

(Availability Mode: SUPPORTED)

### INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
<b>Dr. Paul Kalas (PI)</b>	<b>University of California - Berkeley</b>	<b>kalas@astron.berkeley.edu</b>
Dr. James R. Graham (CoI)	University of California - Berkeley	jrg@astron.berkeley.edu
Dr. Mark Clampin (CoI)	NASA Goddard Space Flight Center	mark.clampin@nasa.gov

### 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-53143	ACS/HRC	1	16-Jul-2007 21:01:14.0	yes
02	(1) HD-53143	ACS/HRC	1	16-Jul-2007 21:01:18.0	yes
03	(1) HD-53143	ACS/HRC	1	16-Jul-2007 21:01:21.0	yes
04	(3) HD-10476-PSF	ACS/HRC	1	16-Jul-2007 21:01:24.0	yes
05	(3) HD-10476-PSF	ACS/HRC	1	16-Jul-2007 21:01:26.0	yes
06	(1) HD-53143	ACS/HRC	1	16-Jul-2007 21:01:29.0	yes
07	(1) HD-53143	ACS/HRC	1	16-Jul-2007 21:01:30.0	yes
08	(1) HD-53143	ACS/HRC	1	16-Jul-2007 21:01:32.0	yes
09	(3) HD-10476-PSF	ACS/HRC	1	16-Jul-2007 21:01:34.0	yes

Proposal 10599 (STScI Edit Number: 4, Created: Monday, July 16, 2007 8:02:53 PM EST) - Overview

<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>
10	(2) HD-139664	ACS/HRC	1	16-Jul-2007 21:01:36.0	yes
11	(2) HD-139664	ACS/HRC	1	16-Jul-2007 21:01:39.0	yes
12	(2) HD-139664	ACS/HRC	1	16-Jul-2007 21:01:42.0	yes
13	(4) HD-142860-PSF	ACS/HRC	1	16-Jul-2007 21:01:44.0	yes
14	(4) HD-142860-PSF	ACS/HRC	1	16-Jul-2007 21:01:47.0	yes
15	(2) HD-139664	ACS/HRC	1	16-Jul-2007 21:01:49.0	yes
16	(2) HD-139664	ACS/HRC	1	16-Jul-2007 21:01:51.0	yes
17	(2) HD-139664	ACS/HRC	1	16-Jul-2007 21:01:52.0	yes
18	(4) HD-142860-PSF	ACS/HRC	1	16-Jul-2007 21:01:54.0	yes
19	(1) HD-53143	NIC2	1	16-Jul-2007 21:01:57.0	yes
20	(2) HD-139664	NIC2	1	16-Jul-2007 21:02:01.0	yes
21	(2) HD-139664	ACS/HRC	1	16-Jul-2007 21:02:04.0	yes
22	(6) HD-221354	NIC2	1	16-Jul-2007 21:02:06.0	yes
23	(2) HD-139664	NIC2	1	16-Jul-2007 21:02:11.0	yes
24	(2) HD-139664	NIC2	1	16-Jul-2007 21:02:18.0	yes
25	(2) HD-139664	NIC2	1	16-Jul-2007 21:02:22.0	yes
26	(5) HD-128167	NIC2	1	16-Jul-2007 21:02:26.0	yes
51	(1) HD-53143	WFPC2	1	16-Jul-2007 21:02:29.0	yes
52	(1) HD-53143	WFPC2	1	16-Jul-2007 21:02:32.0	yes
53	(1) HD-53143	WFPC2	1	16-Jul-2007 21:02:35.0	yes
54	(3) HD-10476-PSF	WFPC2	1	16-Jul-2007 21:02:37.0	yes
55	(1) HD-53143	WFPC2	1	16-Jul-2007 21:02:39.0	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>
56	(1) HD-53143	WFPC2	1	16-Jul-2007 21:02:42.0	yes
57	(1) HD-53143	WFPC2	1	16-Jul-2007 21:02:44.0	yes
58	(3) HD-10476-PSF	WFPC2	1	16-Jul-2007 21:02:47.0	yes
59	(1) HD-53143	WFPC2	1	16-Jul-2007 21:02:49.0	yes
60	(3) HD-10476-PSF	WFPC2	1	16-Jul-2007 21:02:52.0	yes

36 Total Orbits Used

### **ABSTRACT**

We report the first scattered light detections of two debris disk around an F star and a K star using optical coronagraphy and the Hubble Space Telescope. With ages ~1 Gyr, these are the oldest debris disks thus far seen in the optical. We propose deep, multi-roll angle coronagraphic imaging with HST ACS and NICMOS to confirm and characterize the disks in terms of structure and composition. The disks appear to have belt-like morphology that is consistent with the existence of planetary companions or other perturbing bodies. Since these disks are close to our Kuiper Belt in an evolutionary context, detailed understanding of their mass, structure and composition will provide a fresh perspective for inferring the history and properties of our own trans-Neptunian region.

### **OBSERVING DESCRIPTION**

These are the usual coronagraphic observations to be performed with NICMOS and ACS/HRC that require: absolute orients, orient froms, acquisitions behind occulting spots, consecutive orbits, rolls between orbits, observations of PSF reference stars, and the suppression of calibration programs during Earth occultation in order to maintain instrument stability, and hence PSF stability.

One visit = one orbit

Visits 01-09 are HRC observations of HD 53143 and the PSF star.

Visits 10-28 are HRC observations of HD 139664 and the PSF star.

Visits 19-22 are NIC2 observations of HD 53143 and the PSF star.

Visits 23-26 are NIC2 observations of HD 139664 and the PSF star.

### **ADDITIONAL COMMENTS**

NICMOS observations will have target acquisition difficulty that we should review, may need to request fainter PSF reference stars in place of HD 10476 and HD 142860.

From NICMOS ETC:

For NIC2,F187N,  $t=0.228$  s

HD 53143, K1V,  $V=6.30 \rightarrow 65K$  elec in brightest pixel

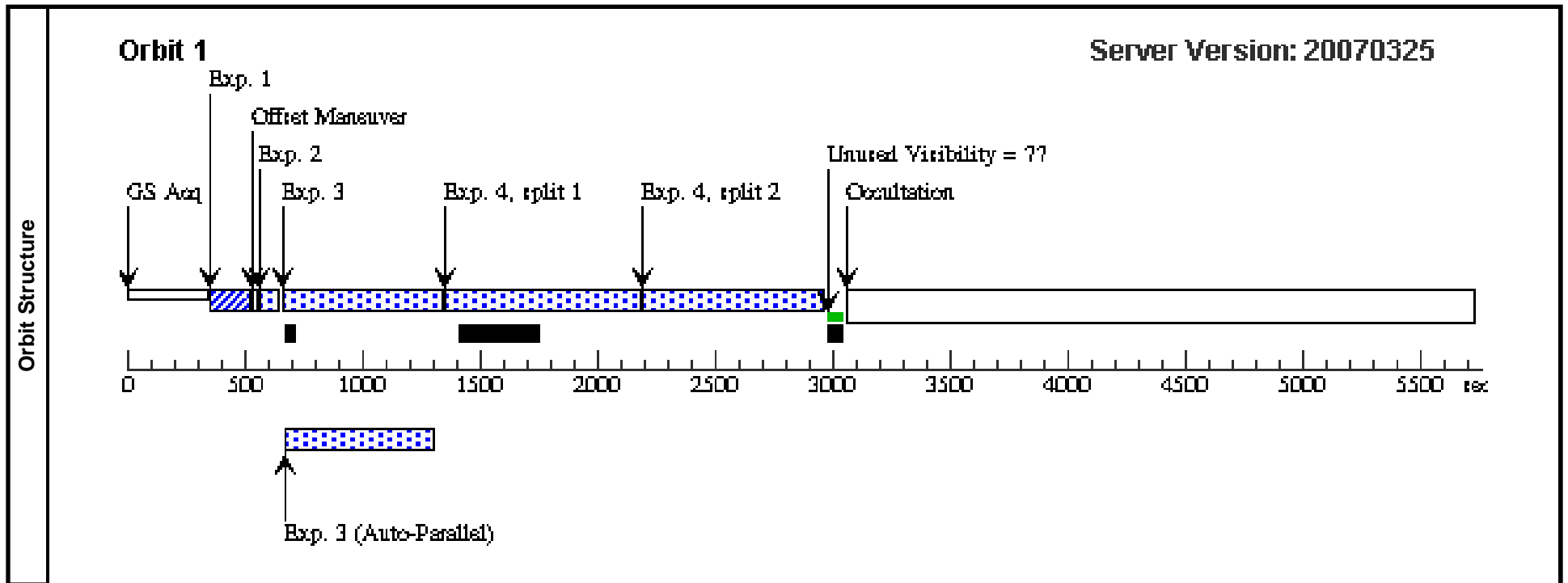
HD 10476, K1V,  $V=5.20 \rightarrow 178K$  elec in brightest pixel

HD 139664, F5V,  $V=4.60 \rightarrow 146K$  elec in brightest pixel

HD 142860, F5V,  $V=3.90 \rightarrow 278K$  elec in brightest pixel

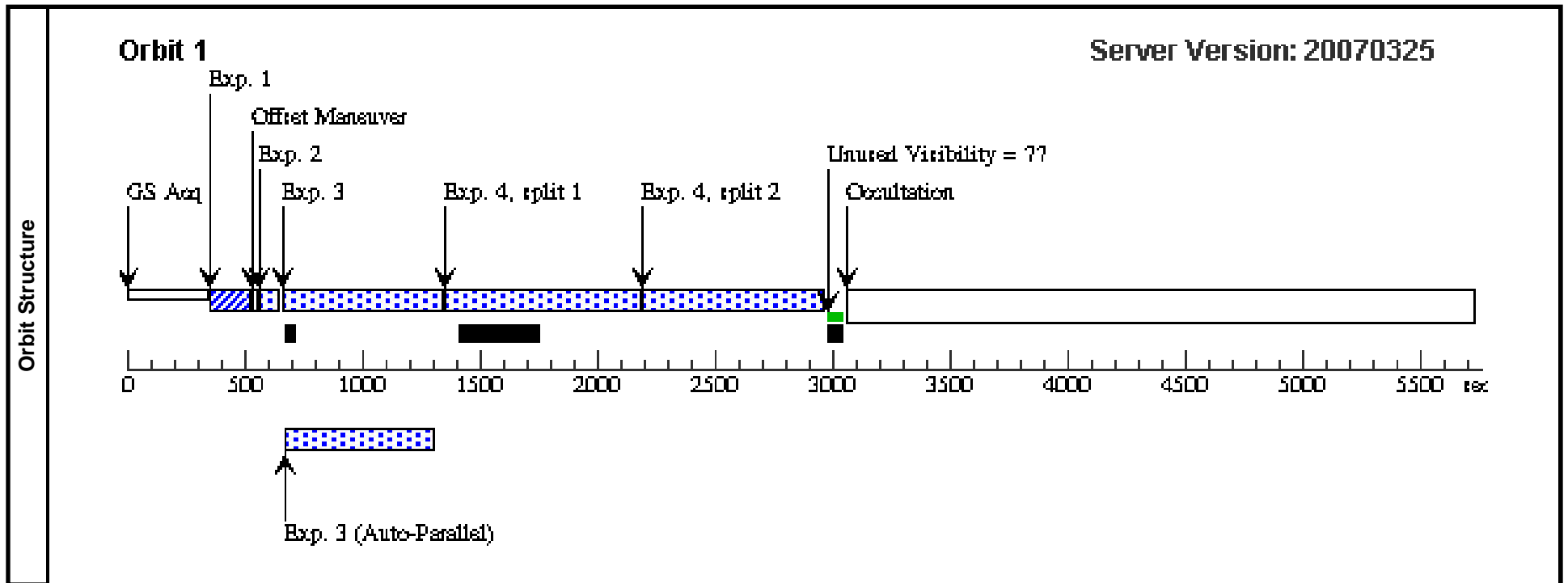
Proposal 10599 - Visit 01 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

Visit	Proposal 10599, Visit 01, withdrawn <span style="float: right;">Tue Jul 17 01:02:54 GMT 2007</span> Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 0.0D TO 60.0 D; ORIENT 180.0D TO 270.0 D; GROUP 01,02,03,04,05 WITHIN 4.3 Orbits																																																		
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>HD-53143</td> <td>RA: 06 59 59.6559 (104.9985662d) Dec: -61 20 10.25 (-61.33618d) Equinox: J2000</td> <td>Proper Motion RA: -0.0224s/yr Proper Motion Dec: 0.2645"/yr Epoch of Position: 2000.0</td> <td>V=6.81</td> <td>Coordinate Source: SIMBAD</td> </tr> <tr> <td colspan="6"><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	HD-53143	RA: 06 59 59.6559 (104.9985662d) Dec: -61 20 10.25 (-61.33618d) Equinox: J2000	Proper Motion RA: -0.0224s/yr Proper Motion Dec: 0.2645"/yr Epoch of Position: 2000.0	V=6.81	Coordinate Source: SIMBAD	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>																																				
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Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>HRC-53143</td> <td>(1) HD-53143</td> <td>ACS/HRC, ACQ, HRC-ACQ</td> <td>F892N</td> <td></td> <td></td> <td></td> <td>0.1 Secs [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>HRC-53143 -short</td> <td>(1) HD-53143</td> <td>ACS/HRC, ACCUM, HRC-CORON1.8</td> <td>F606W</td> <td>CR-SPLIT=NO</td> <td>USE OFFSET 01</td> <td></td> <td>24.0 Secs [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>606w</td> <td>(1) HD-53143</td> <td>ACS/HRC, ACCUM, HRC-CORON1.8</td> <td>F606W</td> <td>CR-SPLIT=NO</td> <td>USE OFFSET 01</td> <td></td> <td>650.0 Secs [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>814w</td> <td>(1) HD-53143</td> <td>ACS/HRC, ACCUM, HRC-CORON1.8</td> <td>F814W</td> <td>CR-SPLIT=2</td> <td>USE OFFSET 01</td> <td></td> <td>1480.0 Secs [==&gt;(Split 1)] [==&gt;(Split 2)]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1	HRC-53143	(1) HD-53143	ACS/HRC, ACQ, HRC-ACQ	F892N				0.1 Secs [==>]	[1]	2	HRC-53143 -short	(1) HD-53143	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=NO	USE OFFSET 01		24.0 Secs [==>]	[1]	3	606w	(1) HD-53143	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=NO	USE OFFSET 01		650.0 Secs [==>]	[1]	4	814w	(1) HD-53143	ACS/HRC, ACCUM, HRC-CORON1.8	F814W	CR-SPLIT=2	USE OFFSET 01		1480.0 Secs [==>(Split 1)] [==>(Split 2)]	[1]
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2	HRC-53143 -short	(1) HD-53143	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=NO	USE OFFSET 01		24.0 Secs [==>]	[1]																																										
3	606w	(1) HD-53143	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=NO	USE OFFSET 01		650.0 Secs [==>]	[1]																																										
4	814w	(1) HD-53143	ACS/HRC, ACCUM, HRC-CORON1.8	F814W	CR-SPLIT=2	USE OFFSET 01		1480.0 Secs [==>(Split 1)] [==>(Split 2)]	[1]																																										



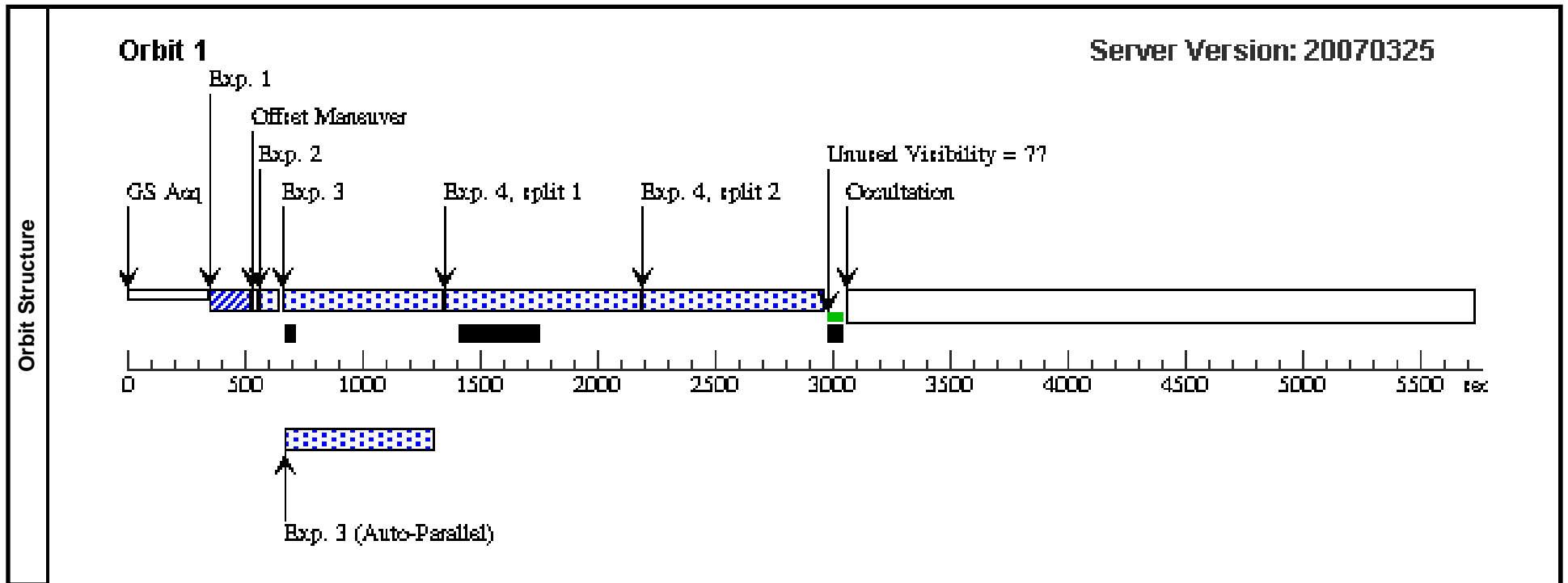
Proposal 10599 - Visit 02 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

Visit	Proposal 10599, Visit 02, withdrawn <span style="float: right;">Tue Jul 17 01:02:55 GMT 2007</span> Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 4.3D TO 5.0D FROM 01																		
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>HD-53143</td> <td>RA: 06 59 59.6559 (104.9985662d) Dec: -61 20 10.25 (-61.33618d) Equinox: J2000</td> <td>Proper Motion RA: -0.0224s/yr Proper Motion Dec: 0.2645"/yr Epoch of Position: 2000.0</td> <td>V=6.81</td> <td>Coordinate Source: SIMBAD</td> </tr> <tr> <td colspan="6"><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	HD-53143	RA: 06 59 59.6559 (104.9985662d) Dec: -61 20 10.25 (-61.33618d) Equinox: J2000	Proper Motion RA: -0.0224s/yr Proper Motion Dec: 0.2645"/yr Epoch of Position: 2000.0	V=6.81	Coordinate Source: SIMBAD	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>				
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous														
(1)	HD-53143	RA: 06 59 59.6559 (104.9985662d) Dec: -61 20 10.25 (-61.33618d) Equinox: J2000	Proper Motion RA: -0.0224s/yr Proper Motion Dec: 0.2645"/yr Epoch of Position: 2000.0	V=6.81	Coordinate Source: SIMBAD														
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>																			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit									
	1	HC-53143	(1) HD-53143	ACS/HRC, ACQ, HRC-ACQ	F892N				0.1 Secs [==>]	[1]									
	2	HRC-53143 -short	(1) HD-53143	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=NO	USE OFFSET 02		24.0 Secs [==>]	[1]									
	3	606w	(1) HD-53143	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=NO	USE OFFSET 02		650.0 Secs [==>]	[1]									
	4	814w	(1) HD-53143	ACS/HRC, ACCUM, HRC-CORON1.8	F814W	CR-SPLIT=2	USE OFFSET 02		1480.0 Secs [==>(Split 1)] [==>(Split 2)]	[1]									



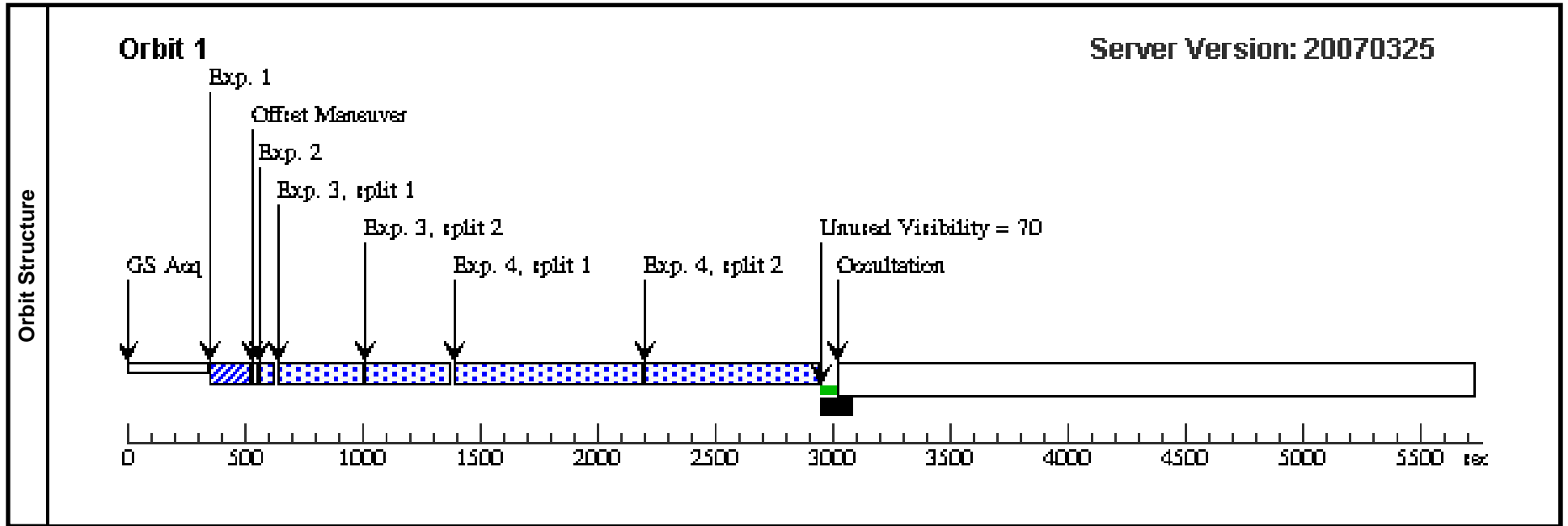
Proposal 10599 - Visit 03 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

Visit	Proposal 10599, Visit 03, withdrawn					Tue Jul 17 01:02:55 GMT 2007				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 8.5D TO 10.0D FROM 01									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(1)	HD-53143	RA: 06 59 59.6559 (104.9985662d) Dec: -61 20 10.25 (-61.33618d) Equinox: J2000	Proper Motion RA: -0.0224s/yr Proper Motion Dec: 0.2645"/yr Epoch of Position: 2000.0	V=6.81	Coordinate Source: SIMBAD			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	HRC-53143 -roll3	(1) HD-53143	ACS/HRC, ACQ, HRC-ACQ	F892N				0.1 Secs	
									[==>]	[1]
	2	HRC-53143 -short	(1) HD-53143	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=NO	USE OFFSET 03		24.0 Secs	
									[==>]	[1]
3	606w	(1) HD-53143	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=NO	USE OFFSET 03		650.0 Secs		
								[==>]	[1]	
4	814w	(1) HD-53143	ACS/HRC, ACCUM, HRC-CORON1.8	F814W	CR-SPLIT=2	USE OFFSET 03		1480.0 Secs		
								[==>(Split 1)]		
								[==>(Split 2)]	[1]	



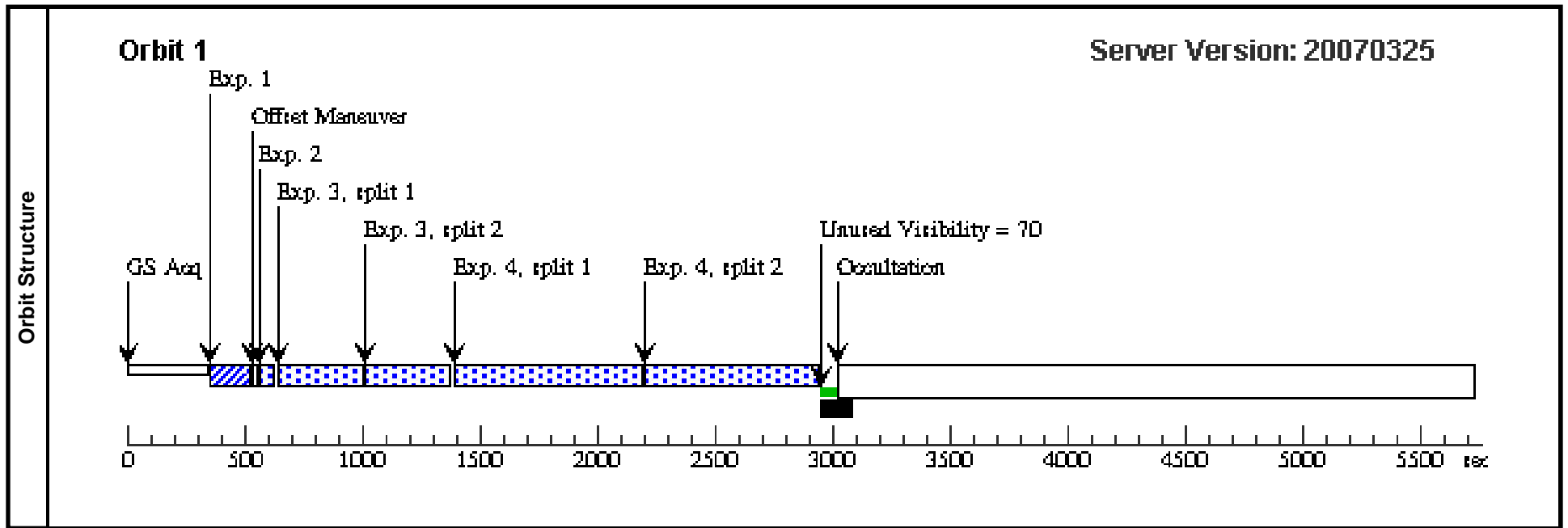
Proposal 10599 - Visit 04 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

Visit	Proposal 10599, Visit 04, withdrawn					Tue Jul 17 01:02:56 GMT 2007				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(3)	HD-10476-PSF	RA: 01 42 29.7619 (25.6240079d) Dec: +20 16 6.62 (20.26851d) Equinox: J2000	Proper Motion RA: -0.02148s/yr Proper Motion Dec: -0.6774"/yr Epoch of Position: 2000.0	V=5.2	Coordinate Source: SIMBAD			
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	HRC-10476	(3) HD-10476-PSF	ACS/HRC, ACQ, HRC-ACQ	F892N				0.1 Secs	
									[==>]	[1]
	2	HRC-10476 -short	(3) HD-10476-PSF	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=NO	USE OFFSET 04		9.0 Secs	
									[==>]	[1]
3	606w	(3) HD-10476-PSF	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=2	USE OFFSET 04		650.0 Secs		
								[==>(Split 1)]	[1]	
								[==>(Split 2)]		
4	814w	(3) HD-10476-PSF	ACS/HRC, ACCUM, HRC-CORON1.8	F814W	CR-SPLIT=2	USE OFFSET 04		1420.0 Secs		
								[==>(Split 1)]	[1]	
								[==>(Split 2)]		



Proposal 10599 - Visit 05 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

Visit	Proposal 10599, Visit 05, withdrawn					Tue Jul 17 01:02:56 GMT 2007				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 10.0D TO 30.0D FROM 04									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(3)	HD-10476-PSF	RA: 01 42 29.7619 (25.6240079d) Dec: +20 16 6.62 (20.26851d) Equinox: J2000	Proper Motion RA: -0.02148s/yr Proper Motion Dec: -0.6774"/yr Epoch of Position: 2000.0	V=5.2	Coordinate Source: SIMBAD			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	HRC-10476	(3) HD-10476-PSF	ACS/HRC, ACQ, HRC-ACQ	F892N				0.1 Secs	
									[==>]	[1]
	2	HRC-10476 -short	(3) HD-10476-PSF	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=NO	USE OFFSET 05		9.0 Secs	
									[==>]	[1]
3	606w	(3) HD-10476-PSF	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=2	USE OFFSET 05		650.0 Secs		
								[==>(Split 1)]	[1]	
								[==>(Split 2)]		
4	814w	(3) HD-10476-PSF	ACS/HRC, ACCUM, HRC-CORON1.8	F814W	CR-SPLIT=2	USE OFFSET 05		1420.0 Secs		
								[==>(Split 1)]	[1]	
								[==>(Split 2)]		



Proposal 10599 - Visit 06 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

<b>Visit</b>	Proposal 10599, Visit 06, withdrawn <span style="float: right;">Tue Jul 17 01:02:56 GMT 2007</span> Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 0.0D TO 60.0 D; ORIENT 180.0D TO 270.0 D; GROUP 06,07,08,09 WITHIN 3.5 Orbits																														
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#		Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																									
(1)	HD-53143	RA: 06 59 59.6559 (104.9985662d) Dec: -61 20 10.25 (-61.33618d) Equinox: J2000	Proper Motion RA: -0.0224s/yr Proper Motion Dec: 0.2645"/yr Epoch of Position: 2000.0	V=6.81	Coordinate Source: SIMBAD																										
<b>Exposures</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>HRC-53143 -roll1</td> <td>(1) HD-53143</td> <td>ACS/HRC, ACQ, HRC-ACQ</td> <td>F892N</td> <td></td> <td></td> <td></td> <td>0.1 Secs [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>435w</td> <td>(1) HD-53143</td> <td>ACS/HRC, ACCUM, HRC-CORON1.8</td> <td>F435W</td> <td>CR-SPLIT=3</td> <td>USE OFFSET 06</td> <td></td> <td>2250.0 Secs [==&gt;(Split 1)] [==&gt;(Split 2)] [==&gt;(Split 3)]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1	HRC-53143 -roll1	(1) HD-53143	ACS/HRC, ACQ, HRC-ACQ	F892N				0.1 Secs [==>]	[1]	2	435w	(1) HD-53143	ACS/HRC, ACCUM, HRC-CORON1.8	F435W	CR-SPLIT=3	USE OFFSET 06		2250.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]
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<b>Orbit Structure</b>	<p style="text-align: right;"><b>Server Version: 20070325</b></p>																														
	<p>Orbit 1</p> <p>GS Acq</p> <p>Exp. 1</p> <p>Offset Manuever</p> <p>Exp. 2, split 1</p> <p>Exp. 2, split 2</p> <p>Exp. 2, split 3</p> <p>Occultation</p> <p>Unused Visibility = 61</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 pc</p>																														

Proposal 10599 - Visit 07 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

<b>Visit</b>	Proposal 10599, Visit 07, withdrawn <span style="float: right;">Tue Jul 17 01:02:56 GMT 2007</span> Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 4.3D TO 5.0D FROM 06																														
	<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-53143</td> <td>RA: 06 59 59.6559 (104.9985662d) Dec: -61 20 10.25 (-61.33618d) Equinox: J2000</td> <td>Proper Motion RA: -0.0224s/yr Proper Motion Dec: 0.2645"/yr Epoch of Position: 2000.0</td> <td>V=6.81</td> <td>Coordinate Source: SIMBAD</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	HD-53143	RA: 06 59 59.6559 (104.9985662d) Dec: -61 20 10.25 (-61.33618d) Equinox: J2000	Proper Motion RA: -0.0224s/yr Proper Motion Dec: 0.2645"/yr Epoch of Position: 2000.0	V=6.81	Coordinate Source: SIMBAD																	
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<b>Orbit Structure</b>	<p><b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20070325</b></span></p> <p>Timeline labels: GS Acq, Exp. 1, Offset Manuever, Exp. 2, split 1, Exp. 2, split 2, Exp. 2, split 3, Occultation, Unused Visibility = 61</p> <p>X-axis: 0, 500, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500 sec</p>																														

Proposal 10599 - Visit 08 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

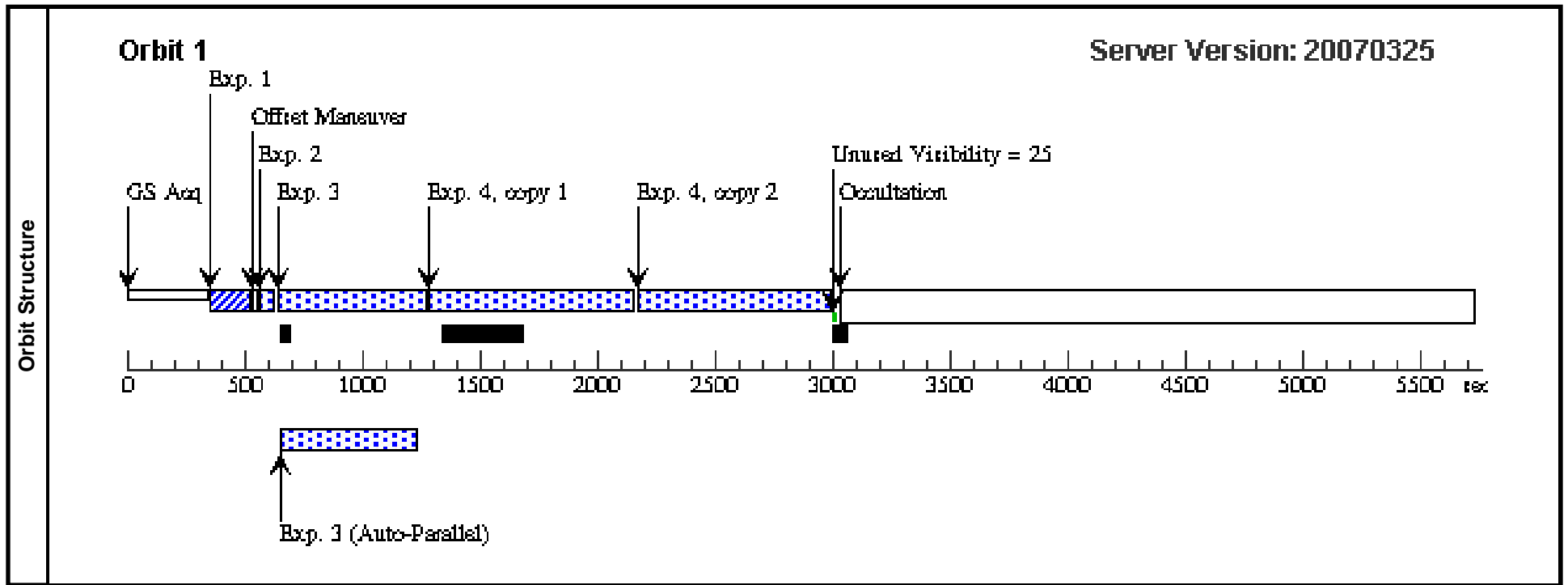
<b>Visit</b>	Proposal 10599, Visit 08, withdrawn <span style="float: right;">Tue Jul 17 01:02:56 GMT 2007</span> Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 8.5D TO 10.0D FROM 06																																		
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Proposal 10599 - Visit 09 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

<b>Visit</b>	Proposal 10599, Visit 09, withdrawn <span style="float: right;">Tue Jul 17 01:02:57 GMT 2007</span> Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%																														
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<b>Orbit Structure</b>	<p><b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20070325</b></span></p> <p>Timeline labels: GS Acq, Exp. 1, Offset Manuever, Exp. 2, split 1, Exp. 2, split 2, Exp. 2, split 3, Occultation, Unused Visibility = 25</p> <p>X-axis: 0, 500, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500 sec</p>																														

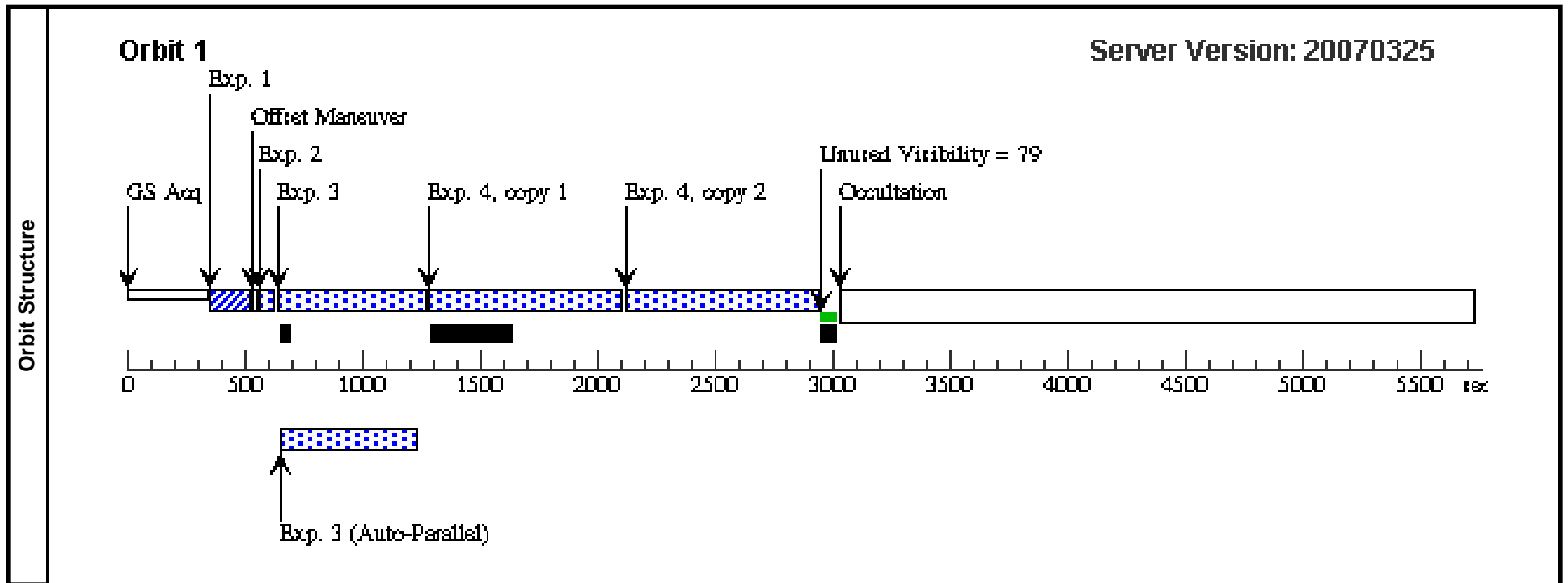
Proposal 10599 - Visit 10 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

Visit	Proposal 10599, Visit 10, completed <span style="float: right;">Tue Jul 17 01:02:57 GMT 2007</span> Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 0.0D TO 5.0 D; ORIENT 90.0D TO 175.0 D; ORIENT 270.0D TO 359.9 D; GROUP 10,11,12,13,14 WITHIN 4.3 Orbits																		
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>HD-139664</td> <td>RA: 15 41 11.3774 (235.2974058d) Dec: -44 39 40.34 (-44.66121d) Equinox: J2000</td> <td>Proper Motion RA: -0.01581s/yr Proper Motion Dec: -0.26569"/yr Epoch of Position: 2000.0</td> <td>V=4.64</td> <td>Coordinate Source: SIMBAD</td> </tr> <tr> <td colspan="6"><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	HD-139664	RA: 15 41 11.3774 (235.2974058d) Dec: -44 39 40.34 (-44.66121d) Equinox: J2000	Proper Motion RA: -0.01581s/yr Proper Motion Dec: -0.26569"/yr Epoch of Position: 2000.0	V=4.64	Coordinate Source: SIMBAD	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>				
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit									
	1	HRC-13966 4-roll1	(2) HD-139664	ACS/HRC, ACQ, HRC-ACQ	F892N				0.1 Secs [==>]	[1]									
	2	HRC-13966 4-short	(2) HD-139664	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=NO	USE OFFSET 10		5.0 Secs [==>]	[1]									
	3	606w	(2) HD-139664	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=NO	USE OFFSET 10		600.0 Secs [==>]	[1]									
	4	814w	(2) HD-139664	ACS/HRC, ACCUM, HRC-CORON1.8	F814W	CR-SPLIT=NO	USE OFFSET 10		785.0 Secs X 2 [==>(Copy 1)] [==>(Copy 2)]	[1]									



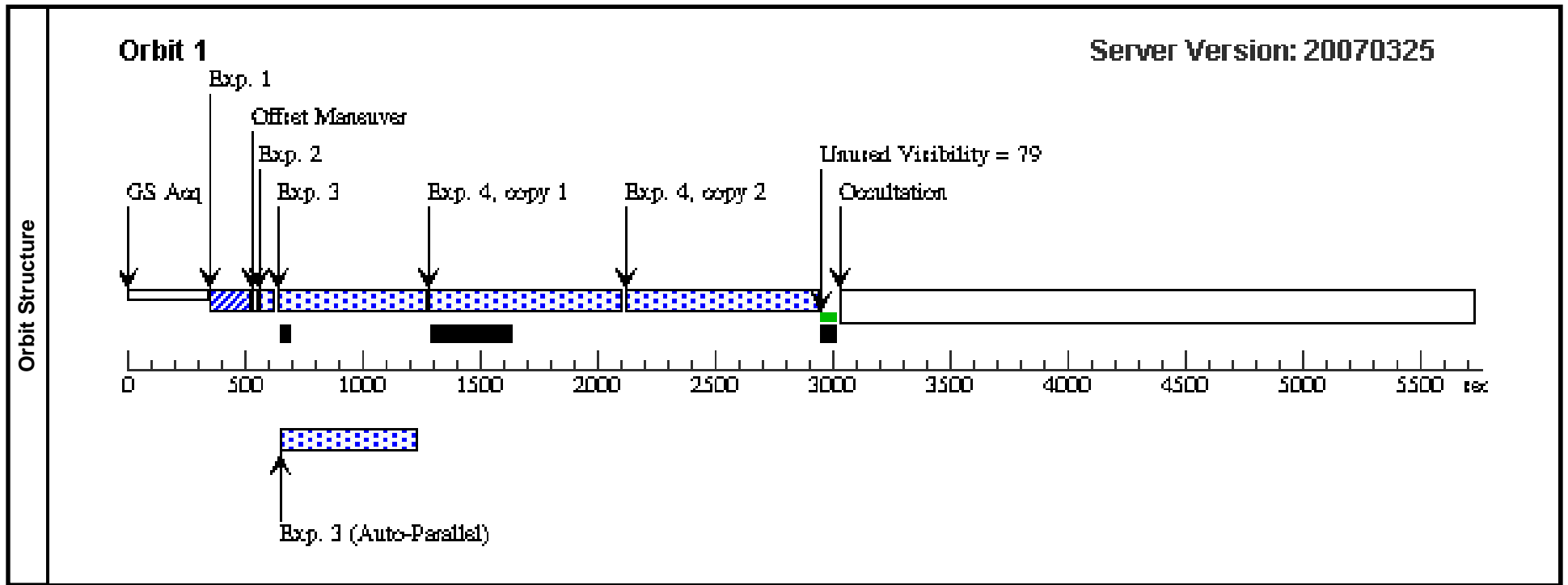
Proposal 10599 - Visit 11 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

Visit	Proposal 10599, Visit 11, completed <span style="float: right;">Tue Jul 17 01:02:57 GMT 2007</span> Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 14.0D TO 16.0D FROM 10																		
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>HD-139664</td> <td>RA: 15 41 11.3774 (235.2974058d) Dec: -44 39 40.34 (-44.66121d) Equinox: J2000</td> <td>Proper Motion RA: -0.01581s/yr Proper Motion Dec: -0.26569"/yr Epoch of Position: 2000.0</td> <td>V=4.64</td> <td>Coordinate Source: SIMBAD</td> </tr> <tr> <td colspan="6"><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	HD-139664	RA: 15 41 11.3774 (235.2974058d) Dec: -44 39 40.34 (-44.66121d) Equinox: J2000	Proper Motion RA: -0.01581s/yr Proper Motion Dec: -0.26569"/yr Epoch of Position: 2000.0	V=4.64	Coordinate Source: SIMBAD	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>				
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous														
(2)	HD-139664	RA: 15 41 11.3774 (235.2974058d) Dec: -44 39 40.34 (-44.66121d) Equinox: J2000	Proper Motion RA: -0.01581s/yr Proper Motion Dec: -0.26569"/yr Epoch of Position: 2000.0	V=4.64	Coordinate Source: SIMBAD														
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit									
	1	HRC-13966 4-roll2	(2) HD-139664	ACS/HRC, ACQ, HRC-ACQ	F892N				0.1 Secs [==>]	[1]									
	2	HRC-13966 4-short	(2) HD-139664	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=NO	USE OFFSET 11		5.0 Secs [==>]	[1]									
	3	606W	(2) HD-139664	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=NO	USE OFFSET 11		600.0 Secs [==>]	[1]									
	4	814w	(2) HD-139664	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=NO	USE OFFSET 11		785.0 Secs X 2 [==>(Copy 1)] [==>(Copy 2)]	[1]									

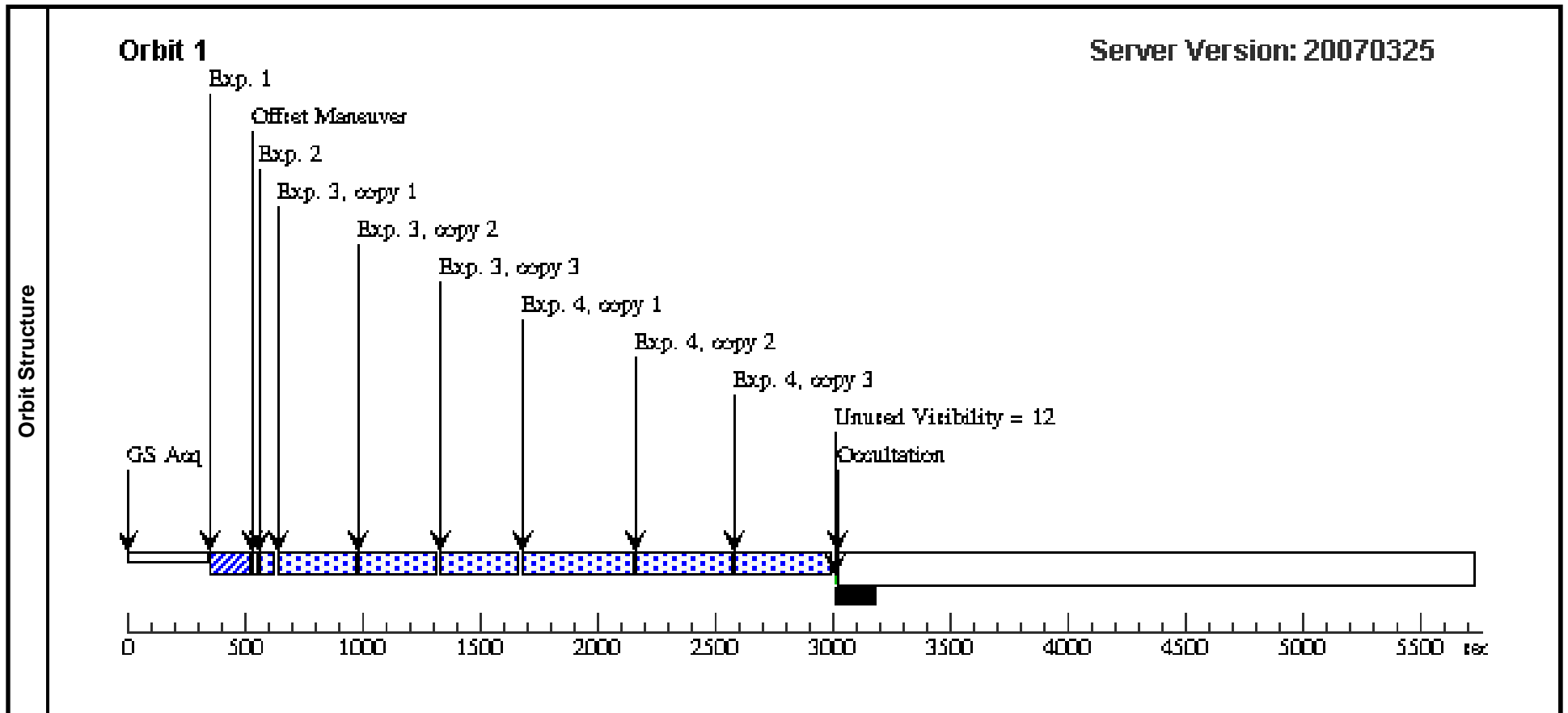


Proposal 10599 - Visit 12 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

<b>Visit</b>	Proposal 10599, Visit 12, completed <span style="float: right;">Tue Jul 17 01:02:57 GMT 2007</span> Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 14.0D TO 16.0D FROM 11									
	<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
(2)		HD-139664	RA: 15 41 11.3774 (235.2974058d) Dec: -44 39 40.34 (-44.66121d) Equinox: J2000	Proper Motion RA: -0.01581s/yr Proper Motion Dec: -0.26569"/yr Epoch of Position: 2000.0	V=4.64	Coordinate Source: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	HRC-13966 4-roll3	(2) HD-139664	ACS/HRC, ACQ, HRC-ACQ	F892N				0.1 Secs [==>]	[1]
	2	HRC-13966 4-short	(2) HD-139664	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=NO	USE OFFSET 12		5.0 Secs [==>]	[1]
	3	606W	(2) HD-139664	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=NO	USE OFFSET 12		600.0 Secs [==>]	[1]
	4	814w	(2) HD-139664	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=NO	USE OFFSET 12		785.0 Secs X 2 [==>(Copy 1)] [==>(Copy 2)]	[1]

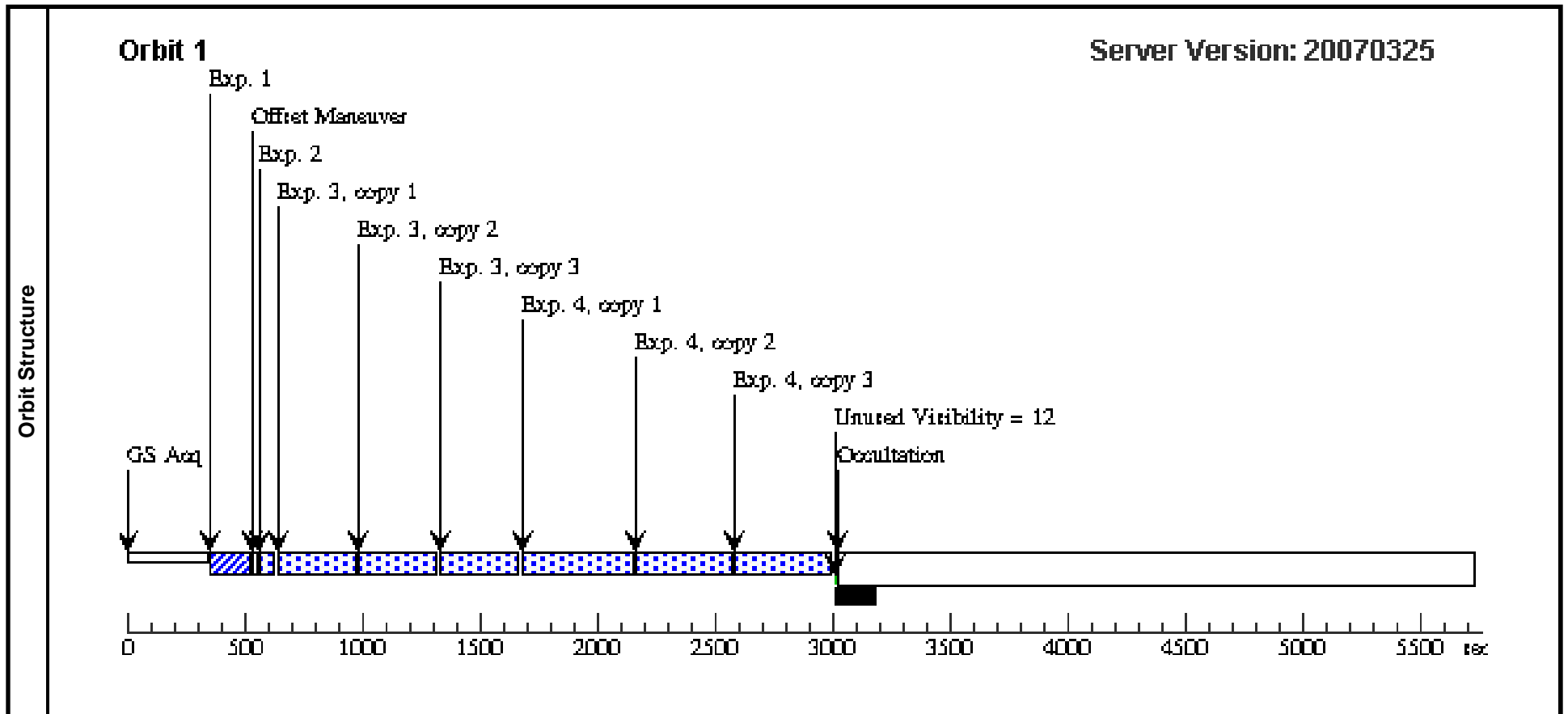






Proposal 10599 - Visit 14 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

<b>Visit</b>	Proposal 10599, Visit 14, completed <span style="float: right;">Tue Jul 17 01:02:58 GMT 2007</span> Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 10.0D TO 30.0D FROM 13										
	<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
(4)		HD-142860-PSF	RA: 15 56 27.1828 (239.1132617d) Dec: +15 39 41.82 (15.66162d) Equinox: J2000	Proper Motion RA: 0.021546s/yr Proper Motion Dec: -1.28217"/yr Epoch of Position: 2000.0	V=3.85	Coordinate Source: SIMBAD					
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(4) HD-142860-PSF	ACS/HRC, ACQ, HRC-ACQ	F892N				0.1 Secs		
									[==>]	[1]	
	2	HRC-14286 0-short	(4) HD-142860-PSF	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=NO	USE OFFSET 14			2.6 Secs	
									[==>]	[1]	
3	606w	(4) HD-142860-PSF	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=NO	USE OFFSET 14			300.0 Secs X 3		
									[==>(Copy 1)]		
									[==>(Copy 2)]	[1]	
									[==>(Copy 3)]		
4	814w	(4) HD-142860-PSF	ACS/HRC, ACCUM, HRC-CORON1.8	F814W	CR-SPLIT=NO	USE OFFSET 14			380.0 Secs X 3		
									[==>(Copy 1)]		
									[==>(Copy 2)]	[1]	
									[==>(Copy 3)]		



Proposal 10599 - Visit 15 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

<b>Visit</b>	Proposal 10599, Visit 15, completed <span style="float: right;">Tue Jul 17 01:02:58 GMT 2007</span> Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 0.0D TO 5.0 D; ORIENT 90.0D TO 175.0 D; ORIENT 270.0D TO 359.0 D; GROUP 15,16,17,18 WITHIN 3.1 Orbits																														
	<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>(2)</td> <td>HD-139664</td> <td>RA: 15 41 11.3774 (235.2974058d) Dec: -44 39 40.34 (-44.66121d) Equinox: J2000</td> <td>Proper Motion RA: -0.01581s/yr Proper Motion Dec: -0.26569"/yr Epoch of Position: 2000.0</td> <td>V=4.64</td> <td>Coordinate Source: SIMBAD</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	HD-139664	RA: 15 41 11.3774 (235.2974058d) Dec: -44 39 40.34 (-44.66121d) Equinox: J2000	Proper Motion RA: -0.01581s/yr Proper Motion Dec: -0.26569"/yr Epoch of Position: 2000.0	V=4.64	Coordinate Source: SIMBAD																	
#		Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																									
(2)	HD-139664	RA: 15 41 11.3774 (235.2974058d) Dec: -44 39 40.34 (-44.66121d) Equinox: J2000	Proper Motion RA: -0.01581s/yr Proper Motion Dec: -0.26569"/yr Epoch of Position: 2000.0	V=4.64	Coordinate Source: SIMBAD																										
<b>Exposures</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>HRC-13966 4-roll1</td> <td>(2) HD-139664</td> <td>ACS/HRC, ACQ, HRC-ACQ</td> <td>F892N</td> <td></td> <td></td> <td></td> <td>0.1 Secs [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>435w</td> <td>(2) HD-139664</td> <td>ACS/HRC, ACCUM, HRC-CORON1.8</td> <td>F435W</td> <td>CR-SPLIT=NO</td> <td>USE OFFSET 15</td> <td></td> <td>750.0 Secs X 3 [==&gt;(Copy 1)] [==&gt;(Copy 2)] [==&gt;(Copy 3)]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1	HRC-13966 4-roll1	(2) HD-139664	ACS/HRC, ACQ, HRC-ACQ	F892N				0.1 Secs [==>]	[1]	2	435w	(2) HD-139664	ACS/HRC, ACCUM, HRC-CORON1.8	F435W	CR-SPLIT=NO	USE OFFSET 15		750.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																					
1	HRC-13966 4-roll1	(2) HD-139664	ACS/HRC, ACQ, HRC-ACQ	F892N				0.1 Secs [==>]	[1]																						
2	435w	(2) HD-139664	ACS/HRC, ACCUM, HRC-CORON1.8	F435W	CR-SPLIT=NO	USE OFFSET 15		750.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]																						
<b>Orbit Structure</b>	<div style="display: flex; justify-content: space-between;"> <div> <p><b>Orbit 1</b></p> </div> <div> <p><b>Server Version: 20070325</b></p> </div> </div>																														
	<p>Unused Visibility = 30</p>																														

Proposal 10599 - Visit 16 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

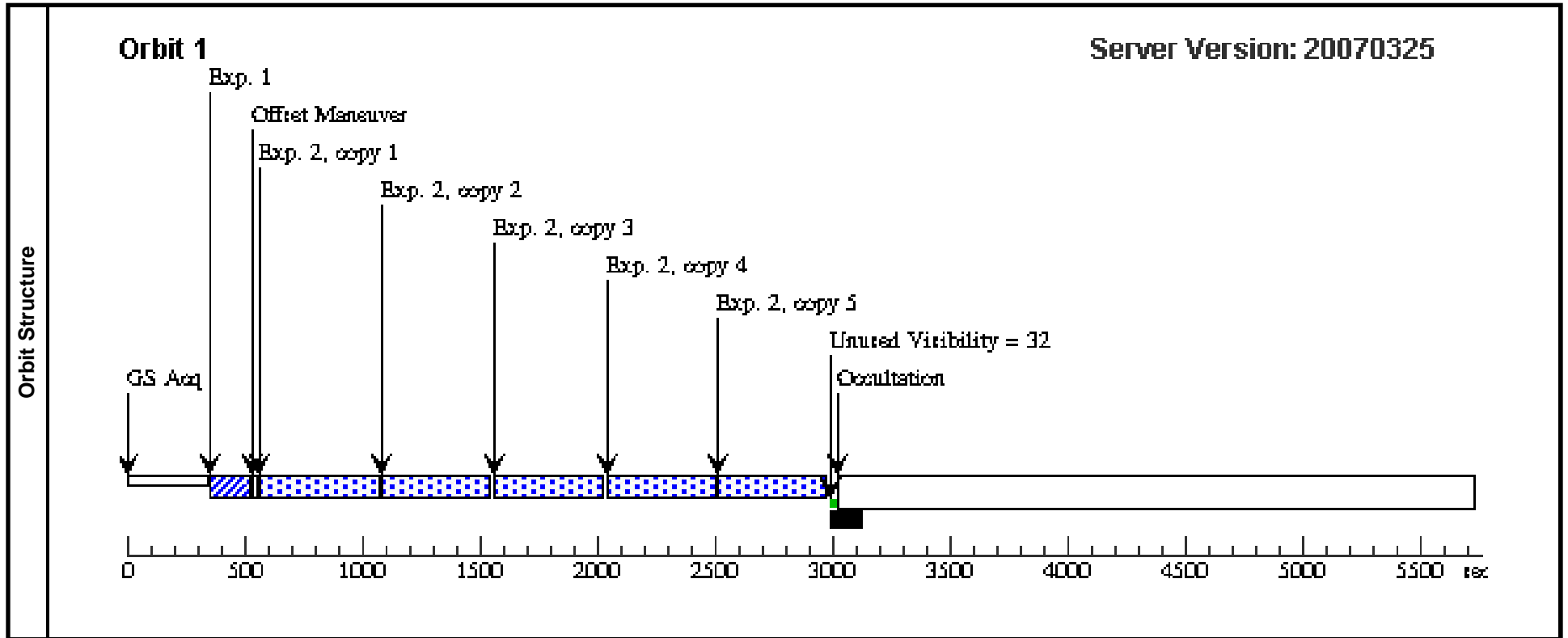
<b>Visit</b>	Proposal 10599, Visit 16, completed <span style="float: right;">Tue Jul 17 01:02:58 GMT 2007</span> Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 14.0D TO 16.0D FROM 15																														
	<b>Fixed Targets</b>	<table 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>(2)</td> <td>HD-139664</td> <td>RA: 15 41 11.3774 (235.2974058d) Dec: -44 39 40.34 (-44.66121d) Equinox: J2000</td> <td>Proper Motion RA: -0.01581s/yr Proper Motion Dec: -0.26569"/yr Epoch of Position: 2000.0</td> <td>V=4.64</td> <td>Coordinate Source: SIMBAD</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	HD-139664	RA: 15 41 11.3774 (235.2974058d) Dec: -44 39 40.34 (-44.66121d) Equinox: J2000	Proper Motion RA: -0.01581s/yr Proper Motion Dec: -0.26569"/yr Epoch of Position: 2000.0	V=4.64	Coordinate Source: SIMBAD																	
#		Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																									
(2)	HD-139664	RA: 15 41 11.3774 (235.2974058d) Dec: -44 39 40.34 (-44.66121d) Equinox: J2000	Proper Motion RA: -0.01581s/yr Proper Motion Dec: -0.26569"/yr Epoch of Position: 2000.0	V=4.64	Coordinate Source: SIMBAD																										
<b>Exposures</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>HRC-13966 4-roll2</td> <td>(2) HD-139664</td> <td>ACS/HRC, ACQ, HRC-ACQ</td> <td>F892N</td> <td></td> <td></td> <td></td> <td>0.1 Secs [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>435w</td> <td>(2) HD-139664</td> <td>ACS/HRC, ACCUM, HRC-CORON1.8</td> <td>F435W</td> <td>CR-SPLIT=NO</td> <td>USE OFFSET 16</td> <td></td> <td>750.0 Secs X 3 [==&gt;(Copy 1)] [==&gt;(Copy 2)] [==&gt;(Copy 3)]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1	HRC-13966 4-roll2	(2) HD-139664	ACS/HRC, ACQ, HRC-ACQ	F892N				0.1 Secs [==>]	[1]	2	435w	(2) HD-139664	ACS/HRC, ACCUM, HRC-CORON1.8	F435W	CR-SPLIT=NO	USE OFFSET 16		750.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																					
1	HRC-13966 4-roll2	(2) HD-139664	ACS/HRC, ACQ, HRC-ACQ	F892N				0.1 Secs [==>]	[1]																						
2	435w	(2) HD-139664	ACS/HRC, ACCUM, HRC-CORON1.8	F435W	CR-SPLIT=NO	USE OFFSET 16		750.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]																						
<b>Orbit Structure</b>	<p><b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20070325</b></span></p> <p>The diagram illustrates the observation sequence for Orbit 1. The x-axis represents time in seconds, ranging from 0 to 5500. Key events are marked with arrows: GS Acq at approximately 100 seconds, Exp. 1 at 400 seconds, Offset Maneuver at 500 seconds, Exp. 2, copy 1 at 600 seconds, Exp. 2, copy 2 at 1400 seconds, Exp. 2, copy 3 at 2200 seconds, and Occultation at 3000 seconds. A shaded region from 400 to 3000 seconds represents the observation period. A small black square at 3000 seconds indicates the start of the occultation. The text 'Unused Visibility = 30' is shown above the occultation event.</p>																														

Proposal 10599 - Visit 17 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

<b>Visit</b>	Proposal 10599, Visit 17, completed <span style="float: right;">Tue Jul 17 01:02:59 GMT 2007</span> Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 14.0D TO 16.0D FROM 16																														
	<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>(2)</td> <td>HD-139664</td> <td>RA: 15 41 11.3774 (235.2974058d) Dec: -44 39 40.34 (-44.66121d) Equinox: J2000</td> <td>Proper Motion RA: -0.01581s/yr Proper Motion Dec: -0.26569"/yr Epoch of Position: 2000.0</td> <td>V=4.64</td> <td>Coordinate Source: SIMBAD</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	HD-139664	RA: 15 41 11.3774 (235.2974058d) Dec: -44 39 40.34 (-44.66121d) Equinox: J2000	Proper Motion RA: -0.01581s/yr Proper Motion Dec: -0.26569"/yr Epoch of Position: 2000.0	V=4.64	Coordinate Source: SIMBAD																	
#		Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																									
(2)	HD-139664	RA: 15 41 11.3774 (235.2974058d) Dec: -44 39 40.34 (-44.66121d) Equinox: J2000	Proper Motion RA: -0.01581s/yr Proper Motion Dec: -0.26569"/yr Epoch of Position: 2000.0	V=4.64	Coordinate Source: SIMBAD																										
<b>Exposures</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>HRC-13966 4-roll3</td> <td>(2) HD-139664</td> <td>ACS/HRC, ACQ, HRC-ACQ</td> <td>F892N</td> <td></td> <td></td> <td></td> <td>0.1 Secs [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>435w</td> <td>(2) HD-139664</td> <td>ACS/HRC, ACCUM, HRC-CORON1.8</td> <td>F435W</td> <td>CR-SPLIT=NO</td> <td>USE OFFSET 17</td> <td></td> <td>750.0 Secs X 3 [==&gt;(Copy 1)] [==&gt;(Copy 2)] [==&gt;(Copy 3)]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1	HRC-13966 4-roll3	(2) HD-139664	ACS/HRC, ACQ, HRC-ACQ	F892N				0.1 Secs [==>]	[1]	2	435w	(2) HD-139664	ACS/HRC, ACCUM, HRC-CORON1.8	F435W	CR-SPLIT=NO	USE OFFSET 17		750.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																					
1	HRC-13966 4-roll3	(2) HD-139664	ACS/HRC, ACQ, HRC-ACQ	F892N				0.1 Secs [==>]	[1]																						
2	435w	(2) HD-139664	ACS/HRC, ACCUM, HRC-CORON1.8	F435W	CR-SPLIT=NO	USE OFFSET 17		750.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]																						
<b>Orbit Structure</b>	<p><b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20070325</b></span></p> <p>Timeline labels: GS Acq, Exp. 1, Offset Maneuver, Exp. 2, copy 1, Exp. 2, copy 2, Exp. 2, copy 3, Occultation, Unused Visibility = 30</p> <p>X-axis: 0, 500, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500 sec</p>																														

Proposal 10599 - Visit 18 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

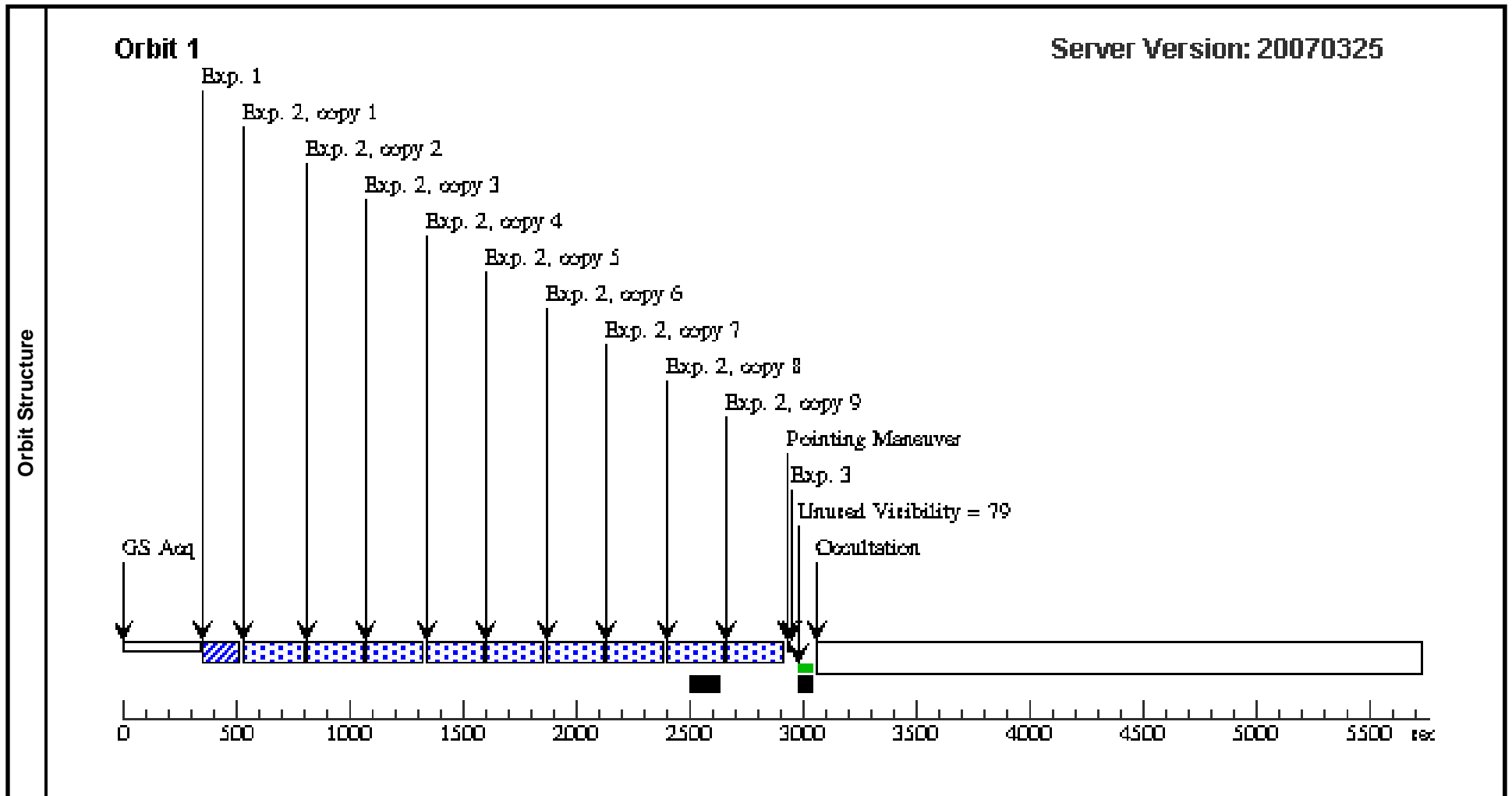
<b>Visit</b>	Proposal 10599, Visit 18, completed <span style="float: right;">Tue Jul 17 01:02:59 GMT 2007</span> Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%									
	<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>			
(4)		HD-142860-PSF	RA: 15 56 27.1828 (239.1132617d) Dec: +15 39 41.82 (15.66162d) Equinox: J2000	Proper Motion RA: 0.021546s/yr Proper Motion Dec: -1.28217"/yr Epoch of Position: 2000.0	V=3.85	Coordinate Source: SIMBAD				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	HRC-142860	(4) HD-142860-PSF	ACS/HRC, ACQ, HRC-ACQ	F892N				0.1 Secs	
									[==>]	[1]
2	435w	(4) HD-142860-PSF	ACS/HRC, ACCUM, HRC-CORON1.8	F435W	CR-SPLIT=NO	USE OFFSET 18			430.0 Secs X 5	
									[==>(Copy 1)]	
									[==>(Copy 2)]	
									[==>(Copy 3)]	[1]
									[==>(Copy 4)]	
									[==>(Copy 5)]	





Proposal 10599 - Visit 19 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		3	direct 110W	(1) HD-53143	NIC2, MULTIACCUM, NIC2-CORON	F110W	SAMP-SEQ=SCAM RR; NSAMP=11	POS TARG 2,-2		[==>]
<p><i>Comments: Central Pixel Saturated = 2x10<sup>6</sup> electrons in first 0.203 SCAMRR</i></p>										

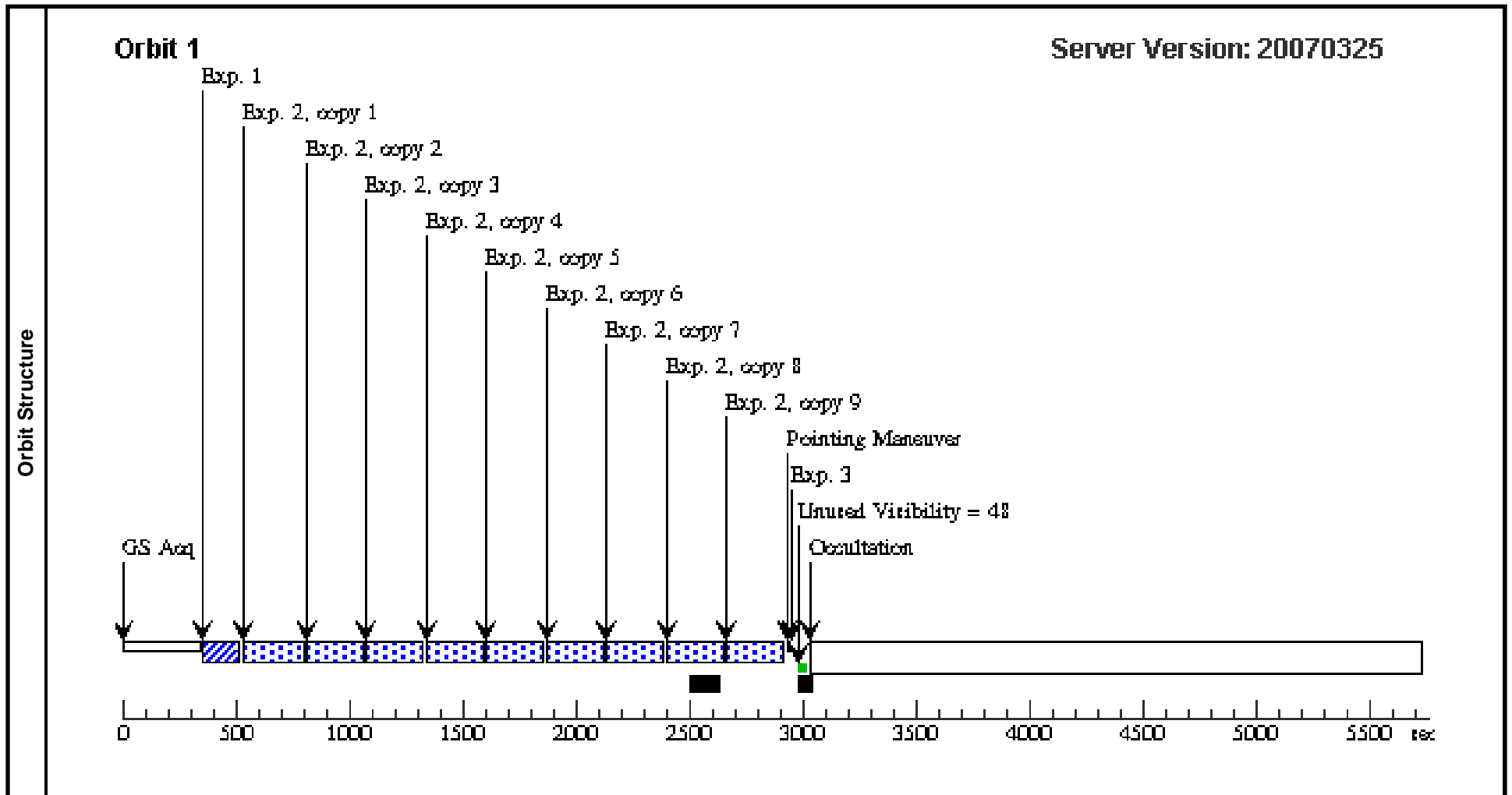


Proposal 10599 - Visit 20 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

<b>Visit</b>	Proposal 10599, Visit 20, completed <span style="float: right;">Tue Jul 17 01:02:59 GMT 2007</span> Diagnostic Status: Warning Scientific Instruments: NIC2 Special Requirements: SCHED 100%; ORIENT 290.0D TO 310.0 D																									
	(Visit 20) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 20) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 20) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 20) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 20) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 20) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 20) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 20) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 20) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 20) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 20) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 20) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE																									
<b>Diagnosics</b>																										
<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>(2)</td> <td>HD-139664</td> <td>RA: 15 41 11.3774 (235.2974058d) Dec: -44 39 40.34 (-44.66121d) Equinox: J2000</td> <td>Proper Motion RA: -0.01581s/yr Proper Motion Dec: -0.26569"/yr Epoch of Position: 2000.0</td> <td>V=4.64</td> <td>Coordinate Source: SIMBAD</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	HD-139664	RA: 15 41 11.3774 (235.2974058d) Dec: -44 39 40.34 (-44.66121d) Equinox: J2000	Proper Motion RA: -0.01581s/yr Proper Motion Dec: -0.26569"/yr Epoch of Position: 2000.0	V=4.64	Coordinate Source: SIMBAD	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.												
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																				
(2)	HD-139664	RA: 15 41 11.3774 (235.2974058d) Dec: -44 39 40.34 (-44.66121d) Equinox: J2000	Proper Motion RA: -0.01581s/yr Proper Motion Dec: -0.26569"/yr Epoch of Position: 2000.0	V=4.64	Coordinate Source: SIMBAD																					
<b>Exposures</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NIC-139664</td> <td>(2) HD-139664</td> <td>NIC2, ACQ, NIC2-ACQ</td> <td>F187N</td> <td></td> <td>GS ACQ SCENARI O BASE1TNS</td> <td></td> <td>0.228 Secs [==&gt;]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1	NIC-139664	(2) HD-139664	NIC2, ACQ, NIC2-ACQ	F187N		GS ACQ SCENARI O BASE1TNS		0.228 Secs [==>]	[1]	Comments: Mode2 acquisition behind NIC2 occulting spot.				
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																
1	NIC-139664	(2) HD-139664	NIC2, ACQ, NIC2-ACQ	F187N		GS ACQ SCENARI O BASE1TNS		0.228 Secs [==>]	[1]																	
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Proposal 10599 - Visit 20 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		3	direct 110W	(2) HD-139664	NIC2, MULTIACCUM, NIC2-CORON	F110W	SAMP-SEQ=SCAM RR; NSAMP=11	POS TARG 2,-2		[==>]
<p><i>Comments: Central Pixel Saturated = 2x10<sup>6</sup> electrons in first 0.203 SCAMRR</i></p>										

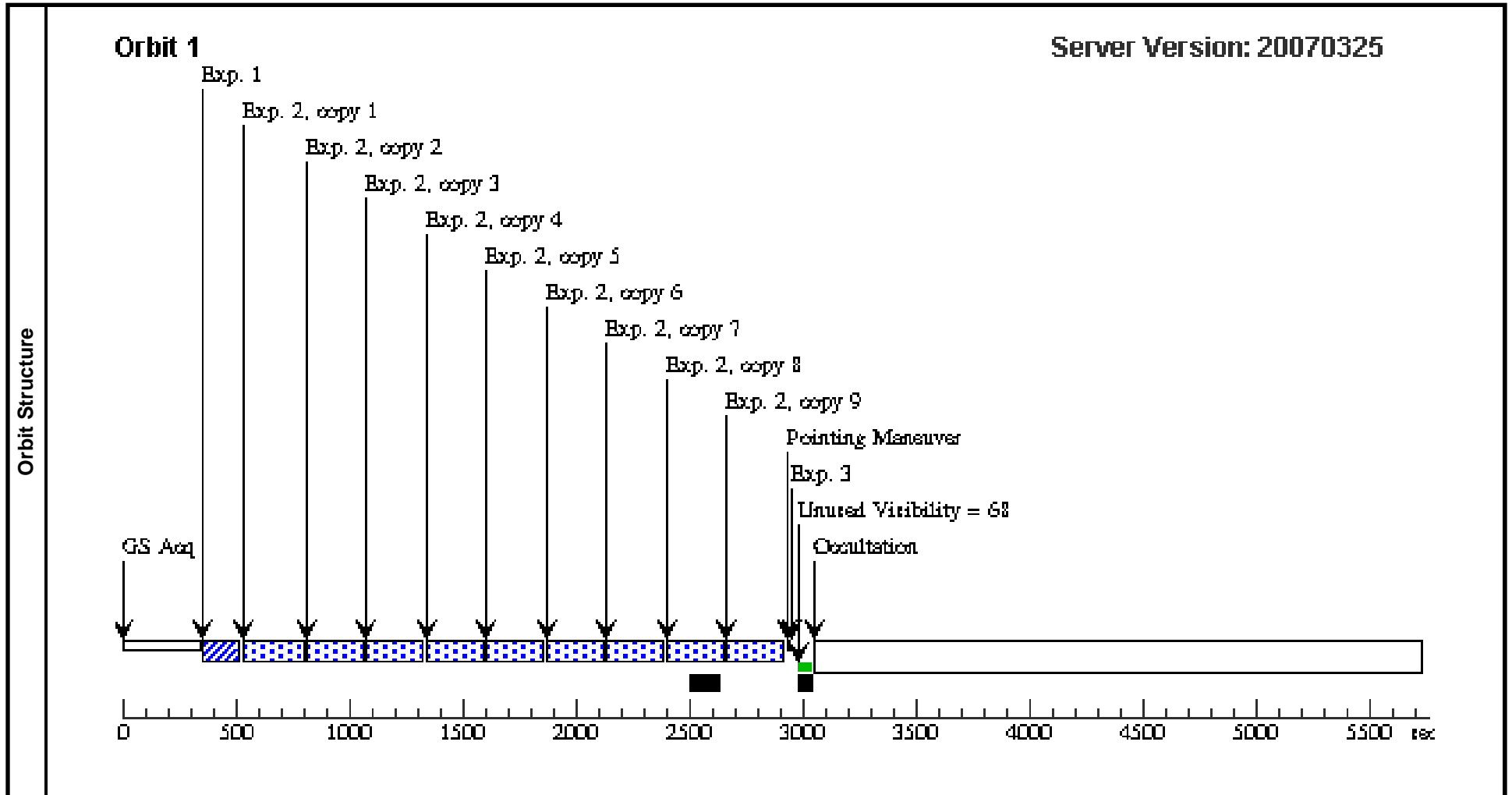


Proposal 10599 - Visit 21 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

<b>Visit</b>	Proposal 10599, Visit 21, withdrawn <span style="float: right;">Tue Jul 17 01:03:00 GMT 2007</span> Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 305.0D TO 359.0 D																																								
	<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>(2)</td> <td>HD-139664</td> <td>RA: 15 41 11.3774 (235.2974058d) Dec: -44 39 40.34 (-44.66121d) Equinox: J2000</td> <td>Proper Motion RA: -0.01581s/yr Proper Motion Dec: -0.26569"/yr Epoch of Position: 2000.0</td> <td>V=4.64</td> <td>Coordinate Source: SIMBAD</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	HD-139664	RA: 15 41 11.3774 (235.2974058d) Dec: -44 39 40.34 (-44.66121d) Equinox: J2000	Proper Motion RA: -0.01581s/yr Proper Motion Dec: -0.26569"/yr Epoch of Position: 2000.0	V=4.64	Coordinate Source: SIMBAD																											
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<b>Orbit Structure</b>	<p><b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20070325</b></span></p> <p>Timeline labels: GS Acq, Exp. 1, Offset Manuever, Exp. 2, split 1, Exp. 2, split 2, Exp. 2, split 3, Occultation, Unused Visibility = 11</p> <p>X-axis: 0, 500, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500 sec</p>																																								

Proposal 10599 - Visit 22 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

Visit	Proposal 10599, Visit 22, completed <span style="float: right;">Tue Jul 17 01:03:00 GMT 2007</span> Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: SCHED 100%; AFTER 19 BY 1 H TO 24 H																																																												
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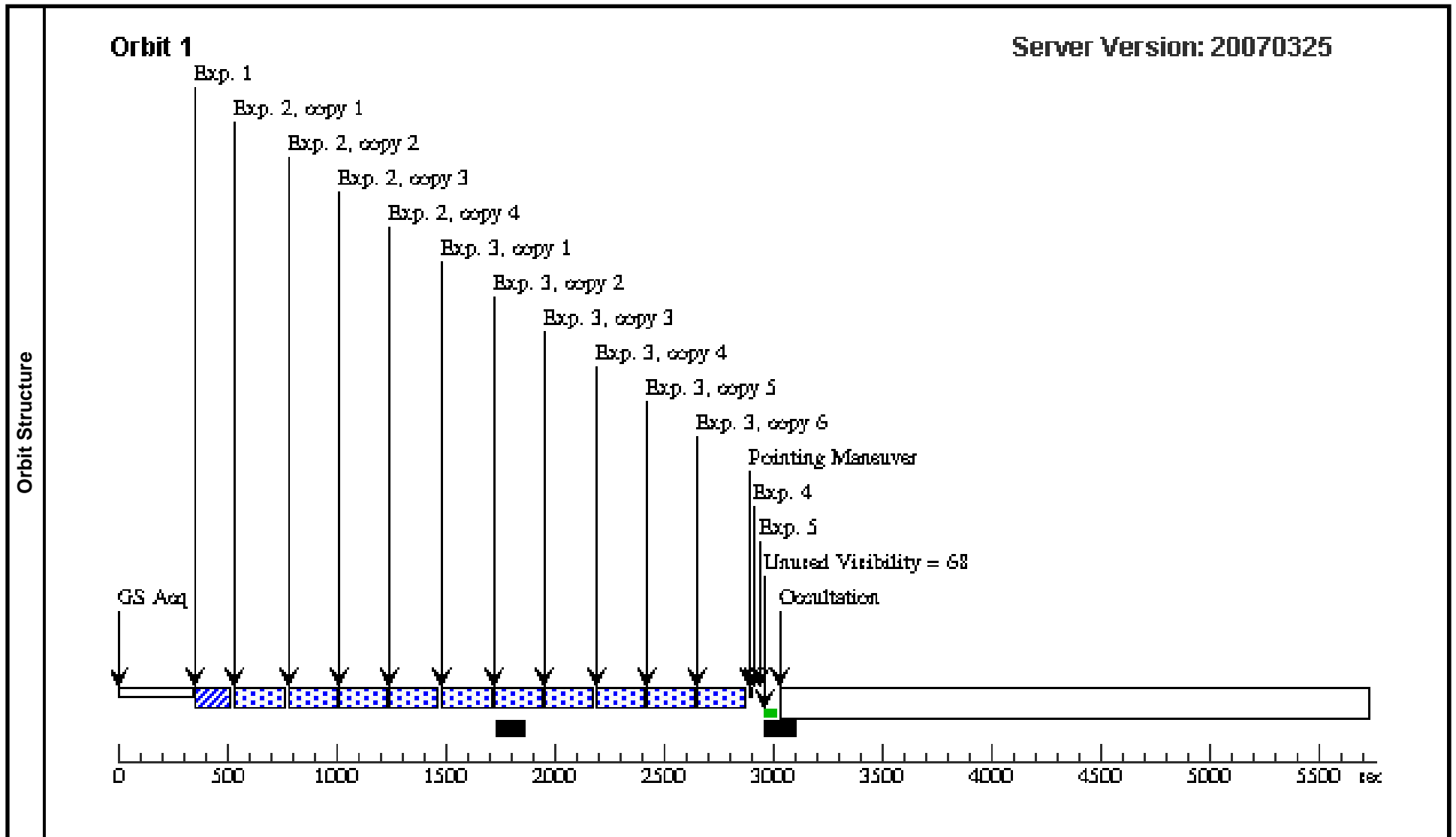


Proposal 10599 - Visit 23 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

<b>Visit</b>	<b>Proposal 10599, Visit 23, completed</b> <span style="float: right;">Tue Jul 17 01:03:00 GMT 2007</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: NIC2 Special Requirements: SCHED 100%; ORIENT 15.0D TO 25.0 D; ORIENT 90.0D TO 105.0 D; ORIENT 200.0D TO 210.0 D; ORIENT 280.0D TO 285.0 D; GROUP 23,24,25,26 WITHIN 3.1 Orbits																																																						
	(Visit 23) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 23) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 23) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 23) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 23) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 23) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 23) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 23) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 23) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 23) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 23) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 23) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 23) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 23) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE																																																						
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Proposal 10599 - Visit 23 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		4	direct 110W	(2) HD-139664	NIC2, MULTIACCUM, NIC2-CORON	F110W	SAMP-SEQ=SCAM RR; NSAMP=11	POS TARG 2,-2		[==>]
	<i>Comments: Central Pixel Saturated = 2x10<sup>6</sup> electrons in first 0.203 SCAMRR</i>									
	5	direct 160W	(2) HD-139664	NIC2, MULTIACCUM, NIC2-CORON	F160W	SAMP-SEQ=SCAM RR; NSAMP=11	POS TARG 2,-2		[==>]	[1]
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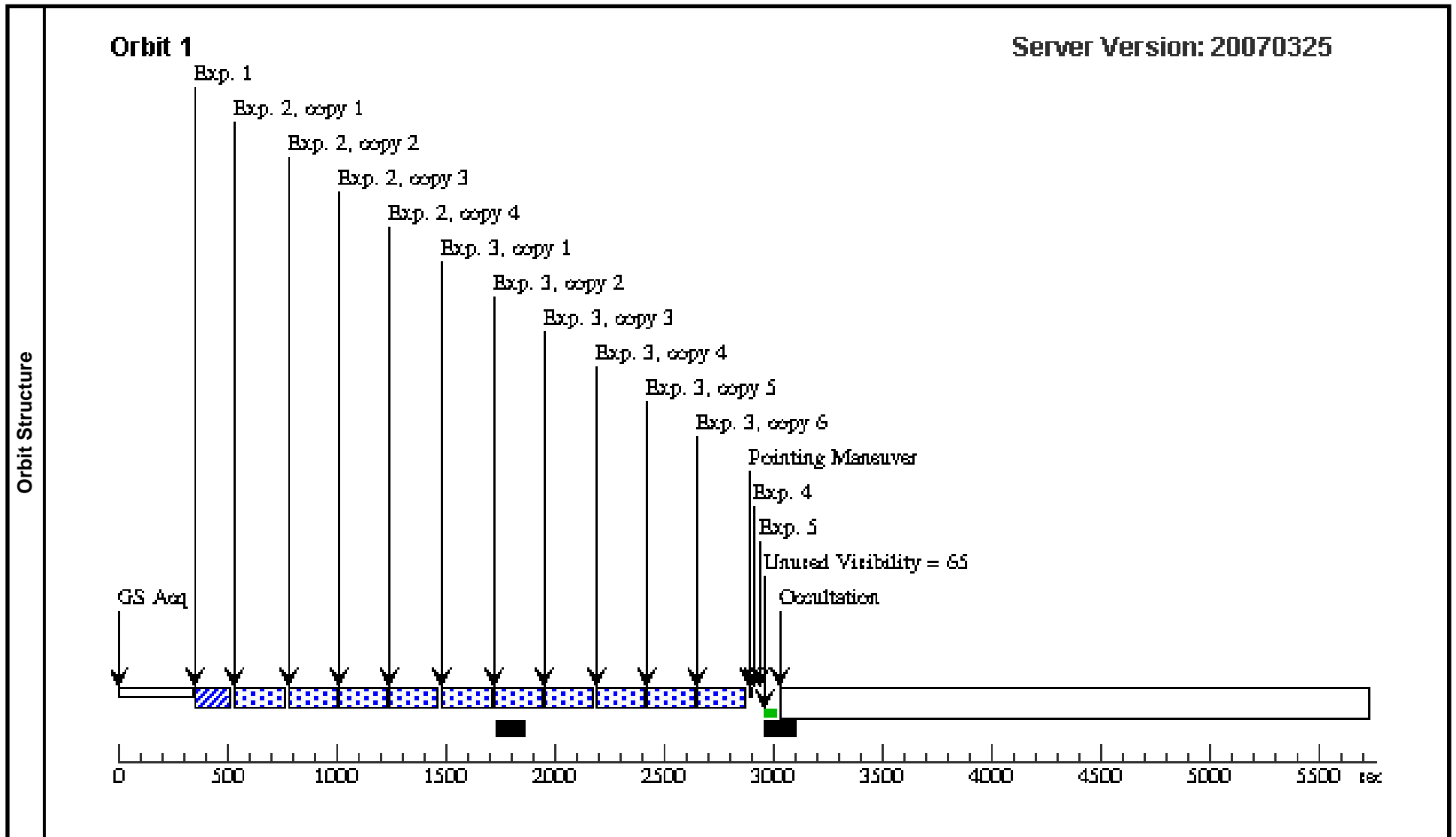


Proposal 10599 - Visit 24 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

<b>Visit</b>	Proposal 10599, Visit 24, completed <span style="float: right;">Tue Jul 17 01:03:01 GMT 2007</span> Diagnostic Status: Warning Scientific Instruments: NIC2 Special Requirements: SCHED 100%; ORIENT 12.0D TO 16.0D FROM 23																																																							
	(Visit 24) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 24) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 24) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 24) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 24) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 24) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 24) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 24) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 24) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 24) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 24) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 24) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 24) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 24) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE																																																							
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<b>Exposures</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NIC-139664 -roll2</td> <td>(2) HD-139664</td> <td>NIC2, ACQ, NIC2-ACQ</td> <td>F187N</td> <td></td> <td>GS ACQ SCENARI O BASE1TNS</td> <td></td> <td>0.228 Secs [==&gt;]</td> <td>[1]</td> </tr> <tr> <td colspan="10">                     Comments: Mode2 acquisition behind NIC2 occulting spot.                 </td> </tr> <tr> <td>2</td> <td>f110w</td> <td>(2) HD-139664</td> <td>NIC2, MULTIACCUM, NIC2-CORON</td> <td>F110W</td> <td>SAMP-SEQ=STEP3 2; NSAMP=14</td> <td></td> <td></td> <td>[==&gt;(Copy 1)] [==&gt;(Copy 2)] [==&gt;(Copy 3)] [==&gt;(Copy 4)]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>f160w</td> <td>(2) HD-139664</td> <td>NIC2, MULTIACCUM, NIC2-CORON</td> <td>F160W</td> <td>SAMP-SEQ=STEP3 2; NSAMP=14</td> <td></td> <td></td> <td>[==&gt;(Copy 1)] [==&gt;(Copy 2)] [==&gt;(Copy 3)] [==&gt;(Copy 4)] [==&gt;(Copy 5)] [==&gt;(Copy 6)]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1	NIC-139664 -roll2	(2) HD-139664	NIC2, ACQ, NIC2-ACQ	F187N		GS ACQ SCENARI O BASE1TNS		0.228 Secs [==>]	[1]	Comments: Mode2 acquisition behind NIC2 occulting spot.										2	f110w	(2) HD-139664	NIC2, MULTIACCUM, NIC2-CORON	F110W	SAMP-SEQ=STEP3 2; NSAMP=14			[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)]	[1]	3	f160w	(2) HD-139664	NIC2, MULTIACCUM, NIC2-CORON	F160W	SAMP-SEQ=STEP3 2; NSAMP=14			[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)]	[1]					
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																																														
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	Comments: Mode2 acquisition behind NIC2 occulting spot.																																																							
2	f110w	(2) HD-139664	NIC2, MULTIACCUM, NIC2-CORON	F110W	SAMP-SEQ=STEP3 2; NSAMP=14			[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)]	[1]																																															
3	f160w	(2) HD-139664	NIC2, MULTIACCUM, NIC2-CORON	F160W	SAMP-SEQ=STEP3 2; NSAMP=14			[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)]	[1]																																															

Proposal 10599 - Visit 24 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		4	direct 110W	(2) HD-139664	NIC2, MULTIACCUM, NIC2-CORON	F110W	SAMP-SEQ=SCAM RR; NSAMP=11	POS TARG 5,-2		[==>]
	<i>Comments: Central Pixel Saturated = 2x10<sup>6</sup> electrons in first 0.203 SCAMRR</i>									
	5	direct 160W	(2) HD-139664	NIC2, MULTIACCUM, NIC2-CORON	F160W	SAMP-SEQ=SCAM RR; NSAMP=11	POS TARG 5,-2		[==>]	[1]
	<i>Comments: Central Pixel Saturated = 2x10<sup>6</sup> electrons in first 0.203 SCAMRR</i>									

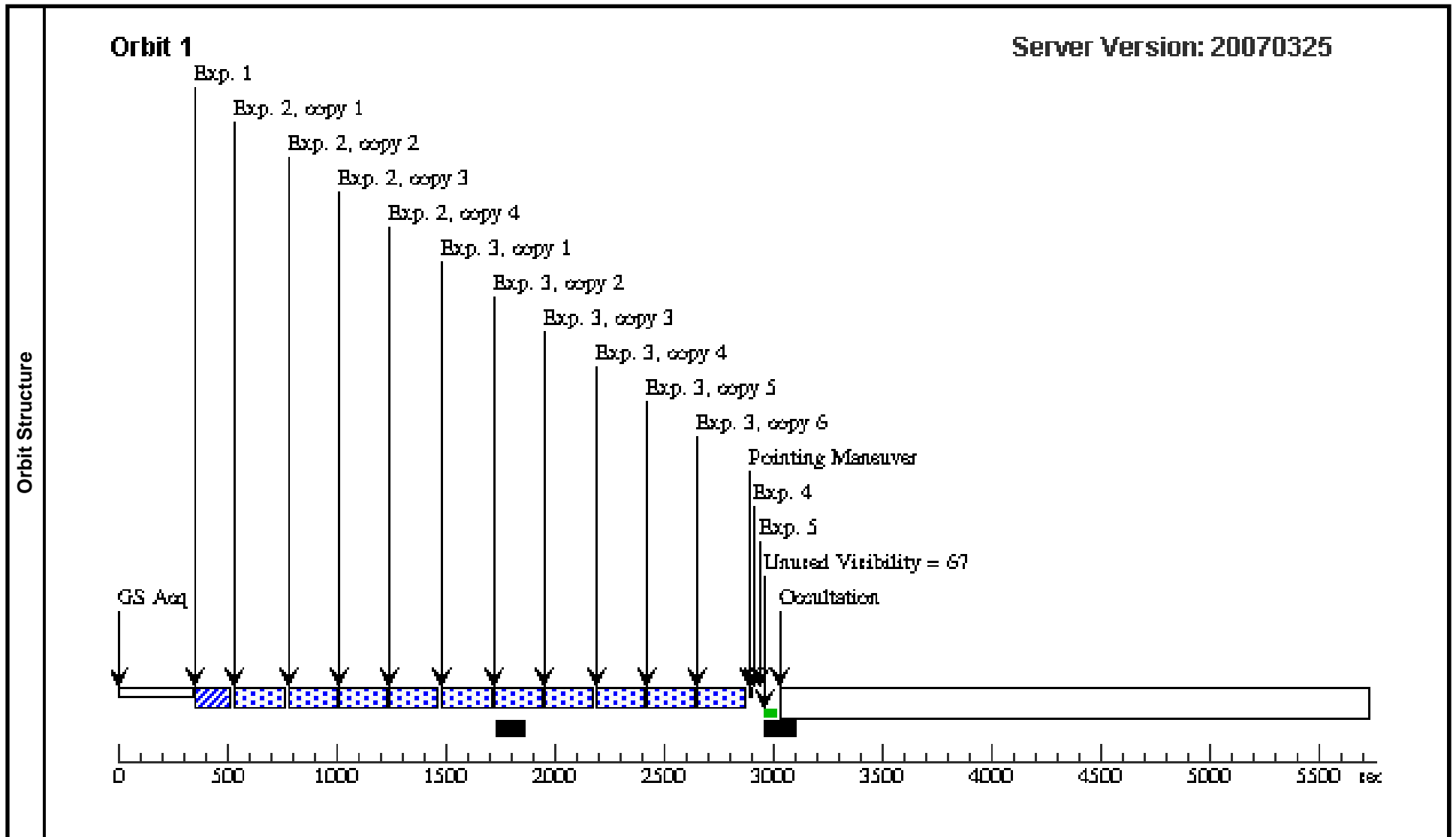


Proposal 10599 - Visit 25 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

<b>Visit</b>	Proposal 10599, Visit 25, completed <span style="float: right;">Tue Jul 17 01:03:01 GMT 2007</span> Diagnostic Status: Warning Scientific Instruments: NIC2 Special Requirements: SCHED 100%; ORIENT 12.0D TO 16.0D FROM 24																																																							
	(Visit 25) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 25) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 25) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 25) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 25) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 25) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 25) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 25) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 25) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 25) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 25) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 25) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 25) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 25) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE																																																							
<b>Diagnosics</b>																																																								
<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>(2)</td> <td>HD-139664</td> <td>RA: 15 41 11.3774 (235.2974058d) Dec: -44 39 40.34 (-44.66121d) Equinox: J2000</td> <td>Proper Motion RA: -0.01581s/yr Proper Motion Dec: -0.26569"/yr Epoch of Position: 2000.0</td> <td>V=4.64</td> <td>Coordinate Source: SIMBAD</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	HD-139664	RA: 15 41 11.3774 (235.2974058d) Dec: -44 39 40.34 (-44.66121d) Equinox: J2000	Proper Motion RA: -0.01581s/yr Proper Motion Dec: -0.26569"/yr Epoch of Position: 2000.0	V=4.64	Coordinate Source: SIMBAD	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.																																										
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	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																																														
	1	NIC-139664 -roll3	(2) HD-139664	NIC2, ACQ, NIC2-ACQ	F187N		GS ACQ SCENARI O BASE1TNS		0.228 Secs [==>]	[1]																																														
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2	f110w	(2) HD-139664	NIC2, MULTIACCUM, NIC2-CORON	F110W	SAMP-SEQ=STEP3 2; NSAMP=14			[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)]	[1]																																															
3	f160w	(2) HD-139664	NIC2, MULTIACCUM, NIC2-CORON	F160W	SAMP-SEQ=STEP3 2; NSAMP=14			[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)]	[1]																																															

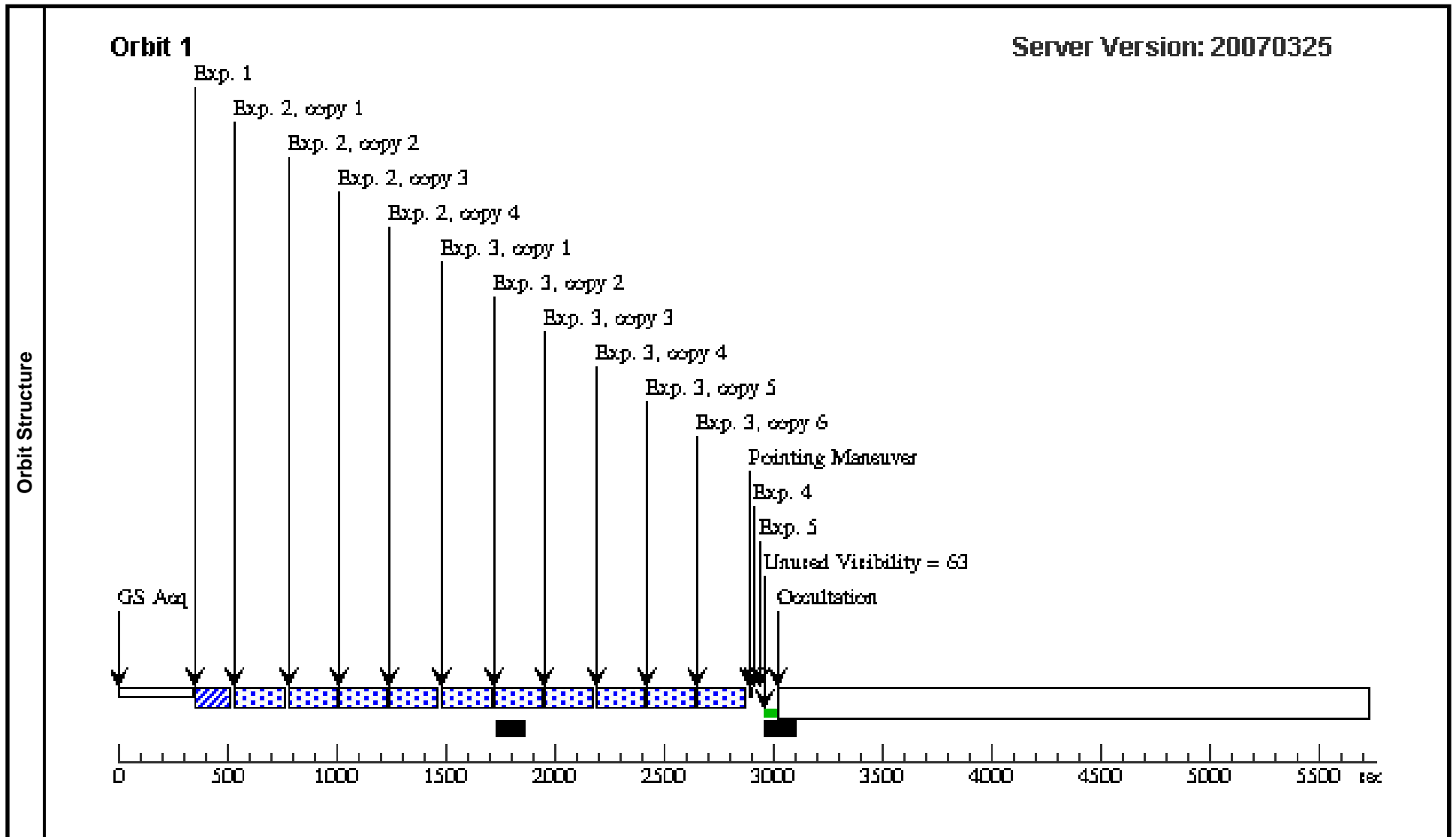
Proposal 10599 - Visit 25 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		4	direct 110W	(2) HD-139664	NIC2, MULTIACCUM, NIC2-CORON	F110W	SAMP-SEQ=SCAM RR; NSAMP=11	POS TARG 3,-2		[==>]
	<i>Comments: Central Pixel Saturated = 2x10<sup>6</sup> electrons in first 0.203 SCAMRR</i>									
	5	direct 160W	(2) HD-139664	NIC2, MULTIACCUM, NIC2-CORON	F160W	SAMP-SEQ=SCAM RR; NSAMP=11	POS TARG 3,-2		[==>]	[1]
	<i>Comments: Central Pixel Saturated = 2x10<sup>6</sup> electrons in first 0.203 SCAMRR</i>									



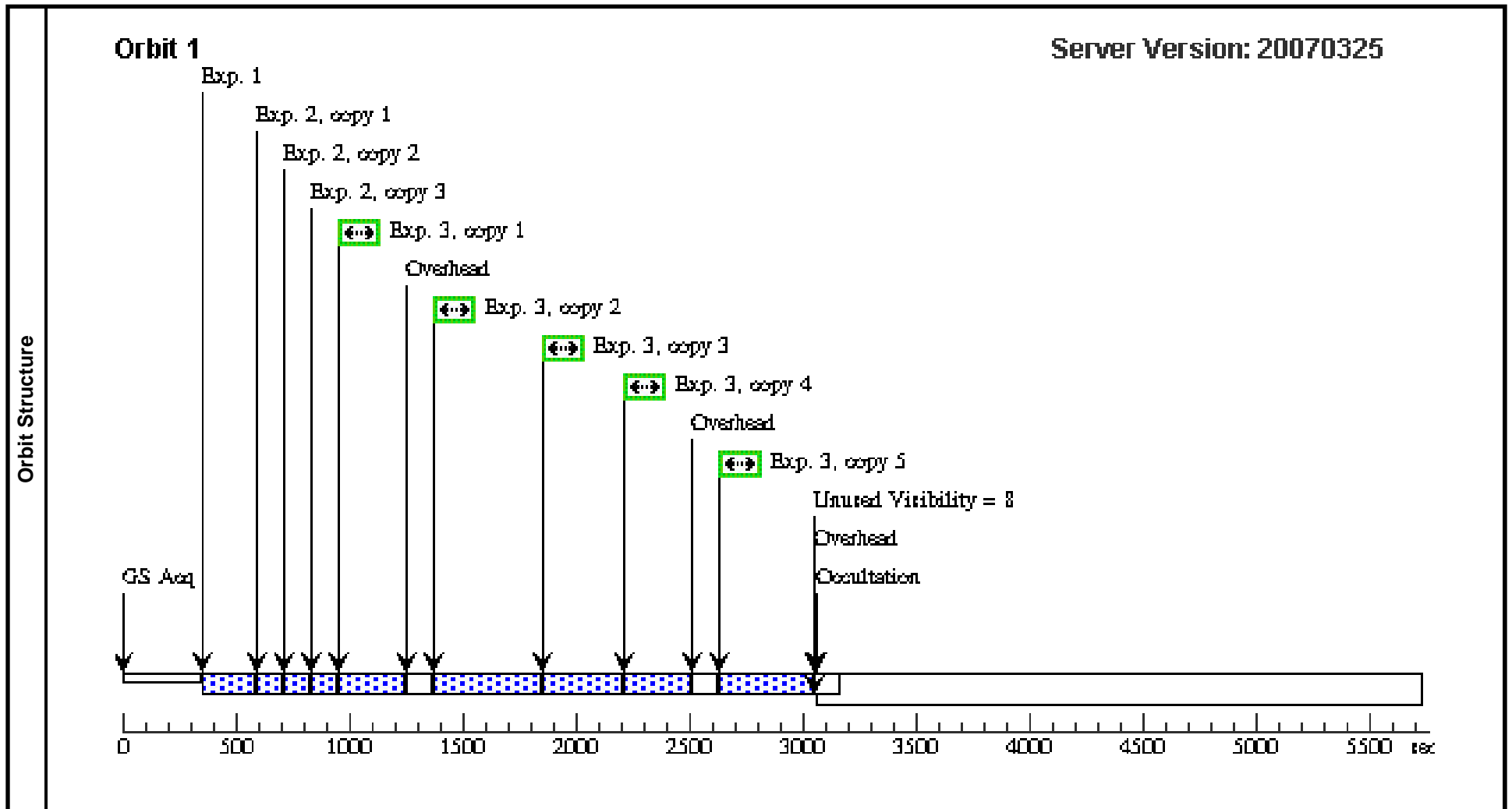
Proposal 10599 - Visit 26 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

Visit	Proposal 10599, Visit 26, completed					Tue Jul 17 01:03:01 GMT 2007					
	Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: SCHED 100%										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
		(5)	HD-128167	RA: 14 34 40.8200 (218.6700833d) Dec: +29 44 42.50 (29.74514d) Equinox: J2000	Proper Motion RA: 0.01446s/yr Proper Motion Dec: 0.13272"/yr Epoch of Position: 2000.0	V=4.5	Coordinate Source: PPM_STAR_CATALOGUE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	NIC-128167	(5) HD-128167	NIC2, ACQ, NIC2-ACQ	F187N		GS ACQ SCENARI O BASE1TNS		0.228 Secs [==>]	[1]	
	<i>Comments: Mode2 acquisition behind NIC2 occulting spot.</i>										
	2	f110w	(5) HD-128167	NIC2, MULTIACCUM, NIC2-CORON	F110W		SAMP-SEQ=STEP3 2; NSAMP=14			[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)]	[1]
	3	f160w	(5) HD-128167	NIC2, MULTIACCUM, NIC2-CORON	F160W		SAMP-SEQ=STEP3 2; NSAMP=14			[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)]	[1]
	4	direct 110W	(5) HD-128167	NIC2, MULTIACCUM, NIC2-CORON	F110W		SAMP-SEQ=SCAM RR; NSAMP=11	POS TARG 3,-2		[==>]	[1]
<i>Comments: Central Pixel Saturated = 2x10^6 electrons in first 0.203 SCAMRR</i>											
5	direct 160W	(5) HD-128167	NIC2, MULTIACCUM, NIC2-CORON	F160W		SAMP-SEQ=SCAM RR; NSAMP=11	POS TARG 3,-2		[==>]	[1]	
<i>Comments: Central Pixel Saturated = 2x10^6 electrons in first 0.203 SCAMRR</i>											



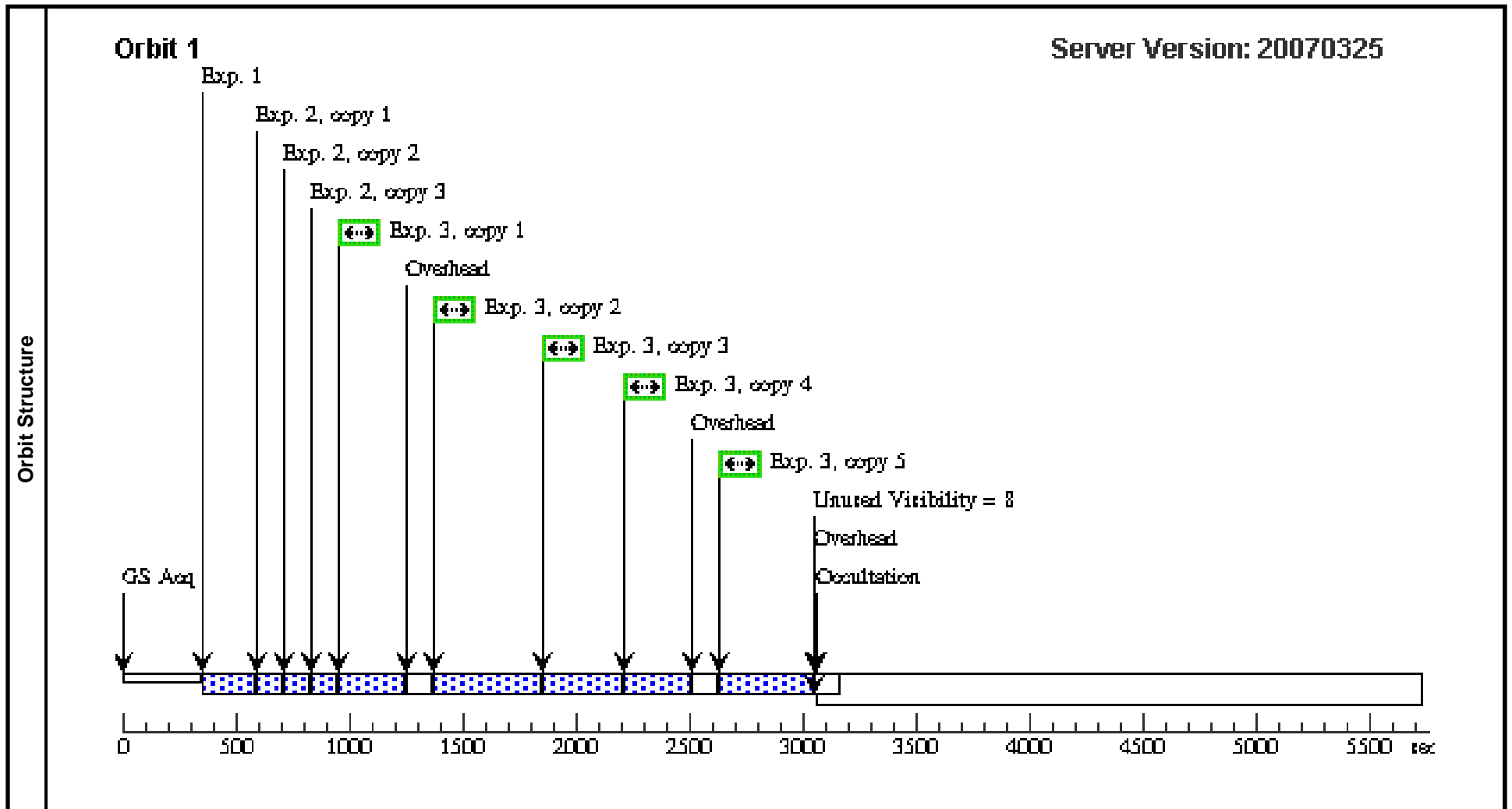
Proposal 10599 - Visit 51 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

Visit	Proposal 10599, Visit 51, implementation <span style="float: right;">Tue Jul 17 01:03:02 GMT 2007</span> Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SCHED 100%; ORIENT 224.0D TO 230.0 D; GROUP 51,52,54 WITHIN 2.7 Orbits																		
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>HD-53143</td> <td>RA: 06 59 59.6559 (104.9985662d) Dec: -61 20 10.25 (-61.33618d) Equinox: J2000</td> <td>Proper Motion RA: -0.0224s/yr Proper Motion Dec: 0.2645"/yr Epoch of Position: 2000.0</td> <td>V=6.81</td> <td>Coordinate Source: SIMBAD</td> </tr> <tr> <td colspan="6"><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	HD-53143	RA: 06 59 59.6559 (104.9985662d) Dec: -61 20 10.25 (-61.33618d) Equinox: J2000	Proper Motion RA: -0.0224s/yr Proper Motion Dec: 0.2645"/yr Epoch of Position: 2000.0	V=6.81	Coordinate Source: SIMBAD	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>				
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous														
(1)	HD-53143	RA: 06 59 59.6559 (104.9985662d) Dec: -61 20 10.25 (-61.33618d) Equinox: J2000	Proper Motion RA: -0.0224s/yr Proper Motion Dec: 0.2645"/yr Epoch of Position: 2000.0	V=6.81	Coordinate Source: SIMBAD														
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>																			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit									
	1	HD-53143	(1) HD-53143	WFPC2, IMAGE, PC1-FIX	F814W	ATD-GAIN=15; CLOCKS=YES	POS TARG -15.1,-1 5.3		2.0 Secs [==>]	[1]									
	2	medium	(1) HD-53143	WFPC2, IMAGE, PC1-FIX	F814W	CLOCKS=YES; ATD-GAIN=15	POS TARG -15.1,-1 5.3		40.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]									
	3	long	(1) HD-53143	WFPC2, IMAGE, PC1-FIX	F814W	CLOCKS=YES; ATD-GAIN=15	POS TARG -15.1,-1 5.3		260.0 Secs X 5 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)]	[1]									



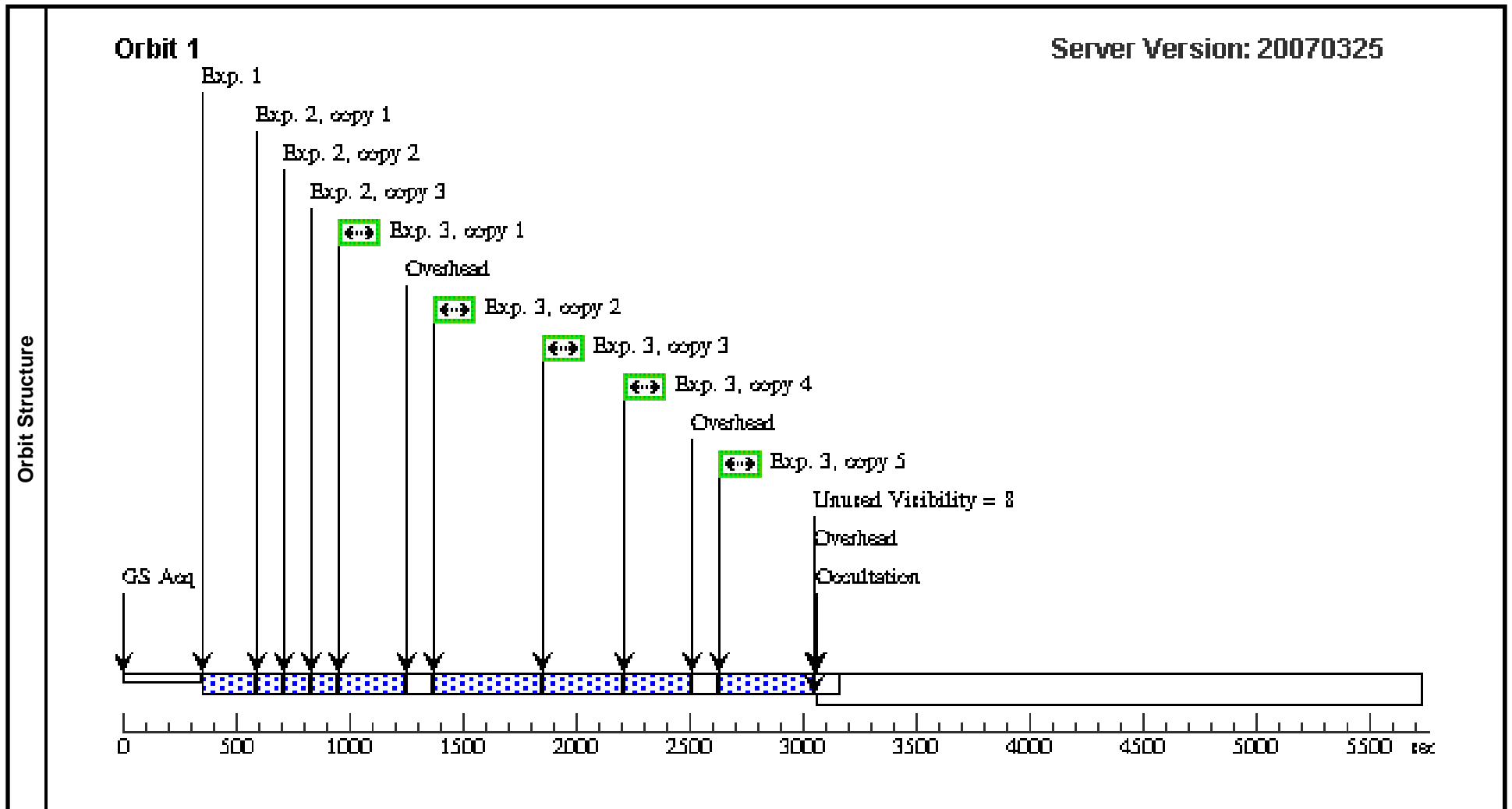
Proposal 10599 - Visit 52 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

Visit	Proposal 10599, Visit 52, implementation					Tue Jul 17 01:03:02 GMT 2007				
	Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SCHED 100%; ORIENT 5.0D TO 10.0D FROM 51									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(1)	HD-53143	RA: 06 59 59.6559 (104.9985662d) Dec: -61 20 10.25 (-61.33618d) Equinox: J2000	Proper Motion RA: -0.0224s/yr Proper Motion Dec: 0.2645"/yr Epoch of Position: 2000.0	V=6.81	Coordinate Source: SIMBAD			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	HD-53143	(1) HD-53143	WFPC2, IMAGE, PC1-FIX	F814W	ATD-GAIN=15; CLOCKS=YES	POS TARG -15.1,-1 5.3		2.0 Secs [==>]	[1]
	2	medium	(1) HD-53143	WFPC2, IMAGE, PC1-FIX	F814W	CLOCKS=YES; ATD-GAIN=15	POS TARG -15.1,-1 5.3		40.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]
	3	long	(1) HD-53143	WFPC2, IMAGE, PC1-FIX	F814W	CLOCKS=YES; ATD-GAIN=15	POS TARG -15.1,-1 5.3		260.0 Secs X 5 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)]	[1]



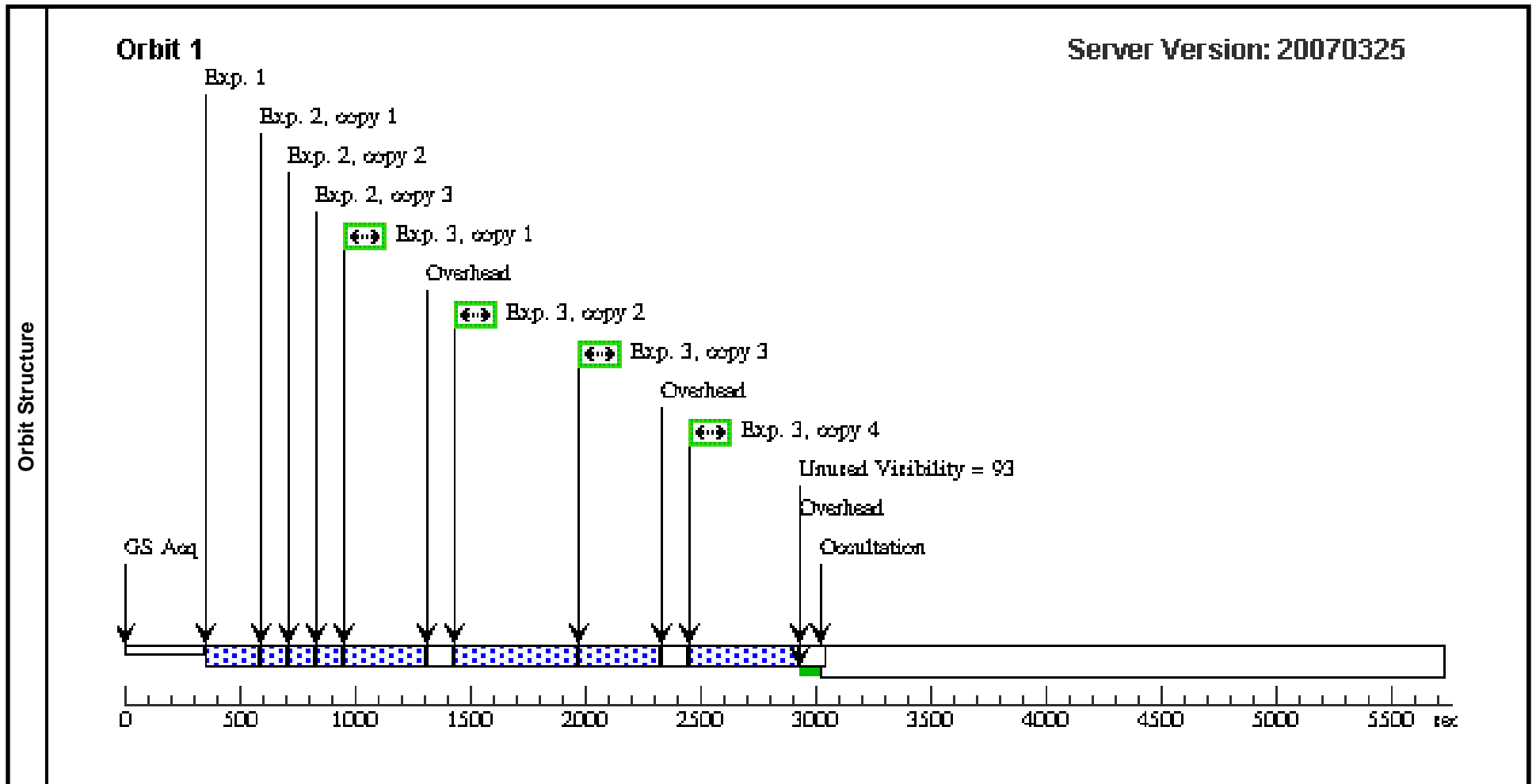
Proposal 10599 - Visit 53 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

Visit	Proposal 10599, Visit 53, implementation <span style="float: right;">Tue Jul 17 01:03:02 GMT 2007</span> Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SCHED 100%; ORIENT 5.0D TO 10.0D FROM 52; AFTER 51 BY 1 H TO 36 H																		
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>HD-53143</td> <td>RA: 06 59 59.6559 (104.9985662d) Dec: -61 20 10.25 (-61.33618d) Equinox: J2000</td> <td>Proper Motion RA: -0.0224s/yr Proper Motion Dec: 0.2645"/yr Epoch of Position: 2000.0</td> <td>V=6.81</td> <td>Coordinate Source: SIMBAD</td> </tr> <tr> <td colspan="6"><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	HD-53143	RA: 06 59 59.6559 (104.9985662d) Dec: -61 20 10.25 (-61.33618d) Equinox: J2000	Proper Motion RA: -0.0224s/yr Proper Motion Dec: 0.2645"/yr Epoch of Position: 2000.0	V=6.81	Coordinate Source: SIMBAD	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>				
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous														
(1)	HD-53143	RA: 06 59 59.6559 (104.9985662d) Dec: -61 20 10.25 (-61.33618d) Equinox: J2000	Proper Motion RA: -0.0224s/yr Proper Motion Dec: 0.2645"/yr Epoch of Position: 2000.0	V=6.81	Coordinate Source: SIMBAD														
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>																			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit									
	1	HD-53143	(1) HD-53143	WFPC2, IMAGE, PC1-FIX	F814W	ATD-GAIN=15; CLOCKS=YES	POS TARG -15.1,-1 5.3		2.0 Secs [==>]	[1]									
	2	medium	(1) HD-53143	WFPC2, IMAGE, PC1-FIX	F814W	CLOCKS=YES; ATD-GAIN=15	POS TARG -15.1,-1 5.3		40.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]									
	3	long	(1) HD-53143	WFPC2, IMAGE, PC1-FIX	F814W	CLOCKS=YES; ATD-GAIN=15	POS TARG -15.1,-1 5.3		260.0 Secs X 5 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)]	[1]									



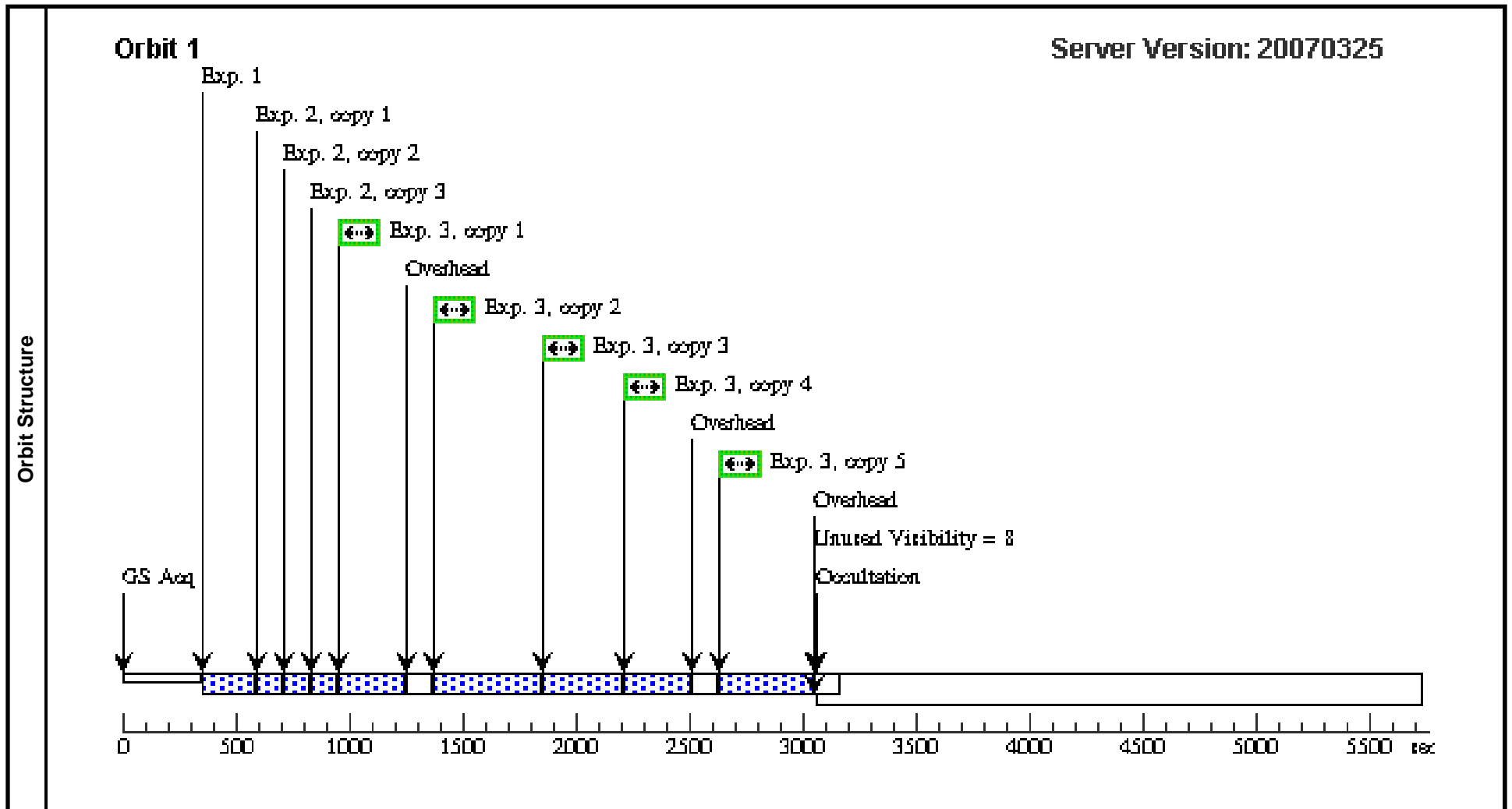
Proposal 10599 - Visit 54 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

Visit	Proposal 10599, Visit 54, implementation <span style="float: right;">Tue Jul 17 01:03:02 GMT 2007</span> Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SCHED 100%																																								
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>HD-10476-PSF</td> <td>RA: 01 42 29.7619 (25.6240079d) Dec: +20 16 6.62 (20.26851d) Equinox: J2000</td> <td>Proper Motion RA: -0.02148s/yr Proper Motion Dec: -0.6774"/yr Epoch of Position: 2000.0</td> <td>V=5.2</td> <td>Coordinate Source: SIMBAD</td> </tr> <tr> <td colspan="6"><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(3)	HD-10476-PSF	RA: 01 42 29.7619 (25.6240079d) Dec: +20 16 6.62 (20.26851d) Equinox: J2000	Proper Motion RA: -0.02148s/yr Proper Motion Dec: -0.6774"/yr Epoch of Position: 2000.0	V=5.2	Coordinate Source: SIMBAD	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>																										
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Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>HD-10476-P SF</td> <td>(3) HD-10476-PSF</td> <td>WFPC2, IMAGE, PC1-FIX</td> <td>F814W</td> <td>ATD-GAIN=15; CLOCKS=YES</td> <td>POS TARG -15.1,-1 5.3</td> <td></td> <td>2.0 Secs [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>medium</td> <td>(3) HD-10476-PSF</td> <td>WFPC2, IMAGE, PC1-FIX</td> <td>F814W</td> <td>CLOCKS=YES; ATD-GAIN=15</td> <td>POS TARG -15.1,-1 5.3</td> <td></td> <td>40.0 Secs X 3 [==&gt;(Copy 1)] [==&gt;(Copy 2)] [==&gt;(Copy 3)]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>long</td> <td>(3) HD-10476-PSF</td> <td>WFPC2, IMAGE, PC1-FIX</td> <td>F814W</td> <td>CLOCKS=YES; ATD-GAIN=15</td> <td>POS TARG -15.1,-1 5.3</td> <td></td> <td>300.0 Secs X 4 [==&gt;(Copy 1)] [==&gt;(Copy 2)] [==&gt;(Copy 3)] [==&gt;(Copy 4)]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1	HD-10476-P SF	(3) HD-10476-PSF	WFPC2, IMAGE, PC1-FIX	F814W	ATD-GAIN=15; CLOCKS=YES	POS TARG -15.1,-1 5.3		2.0 Secs [==>]	[1]	2	medium	(3) HD-10476-PSF	WFPC2, IMAGE, PC1-FIX	F814W	CLOCKS=YES; ATD-GAIN=15	POS TARG -15.1,-1 5.3		40.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]	3	long	(3) HD-10476-PSF	WFPC2, IMAGE, PC1-FIX	F814W	CLOCKS=YES; ATD-GAIN=15	POS TARG -15.1,-1 5.3		300.0 Secs X 4 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)]	[1]
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3	long	(3) HD-10476-PSF	WFPC2, IMAGE, PC1-FIX	F814W	CLOCKS=YES; ATD-GAIN=15	POS TARG -15.1,-1 5.3		300.0 Secs X 4 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)]	[1]																																



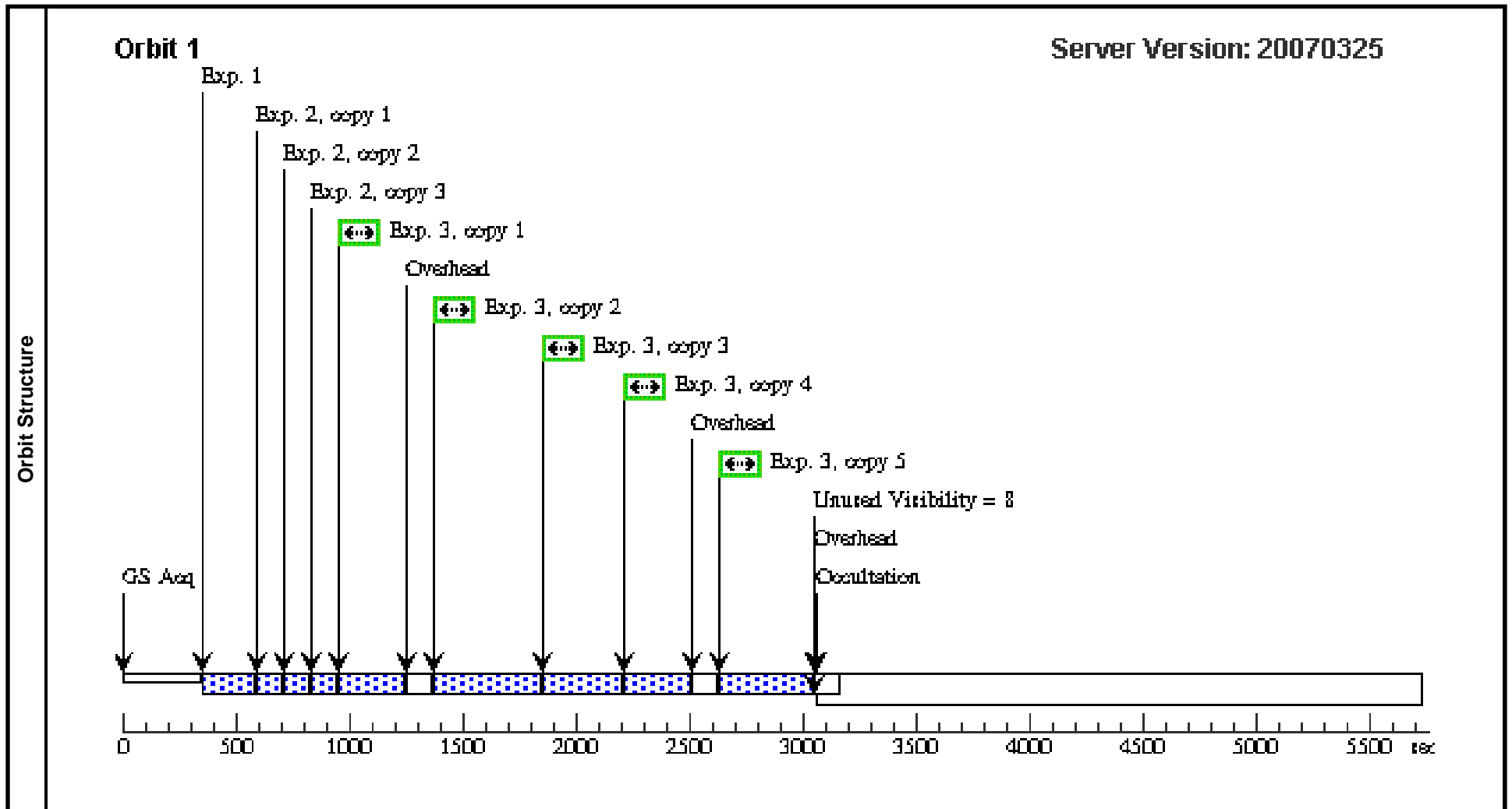
Proposal 10599 - Visit 55 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

Visit	Proposal 10599, Visit 55, implementation <span style="float: right;">Tue Jul 17 01:03:03 GMT 2007</span> Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SCHED 100%; ORIENT 224.0D TO 230.0 D; GROUP 55,56,58 WITHIN 2.7 Orbits																		
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>HD-53143</td> <td>RA: 06 59 59.6559 (104.9985662d) Dec: -61 20 10.25 (-61.33618d) Equinox: J2000</td> <td>Proper Motion RA: -0.0224s/yr Proper Motion Dec: 0.2645"/yr Epoch of Position: 2000.0</td> <td>V=6.81</td> <td>Coordinate Source: SIMBAD</td> </tr> <tr> <td colspan="6"><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	HD-53143	RA: 06 59 59.6559 (104.9985662d) Dec: -61 20 10.25 (-61.33618d) Equinox: J2000	Proper Motion RA: -0.0224s/yr Proper Motion Dec: 0.2645"/yr Epoch of Position: 2000.0	V=6.81	Coordinate Source: SIMBAD	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>				
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous														
(1)	HD-53143	RA: 06 59 59.6559 (104.9985662d) Dec: -61 20 10.25 (-61.33618d) Equinox: J2000	Proper Motion RA: -0.0224s/yr Proper Motion Dec: 0.2645"/yr Epoch of Position: 2000.0	V=6.81	Coordinate Source: SIMBAD														
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit									
	1	HD-53143	(1) HD-53143	WFPC2, IMAGE, PC1-FIX	F439W	ATD-GAIN=15; CLOCKS=YES	POS TARG -15.1,-1 5.3		2.0 Secs [==>]	[1]									
	2	medium	(1) HD-53143	WFPC2, IMAGE, PC1-FIX	F439W	CLOCKS=YES; ATD-GAIN=15	POS TARG -15.1,-1 5.3		40.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]									
	3	long	(1) HD-53143	WFPC2, IMAGE, PC1-FIX	F439W	CLOCKS=YES; ATD-GAIN=15	POS TARG -15.1,-1 5.3		260.0 Secs X 5 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)]	[1]									



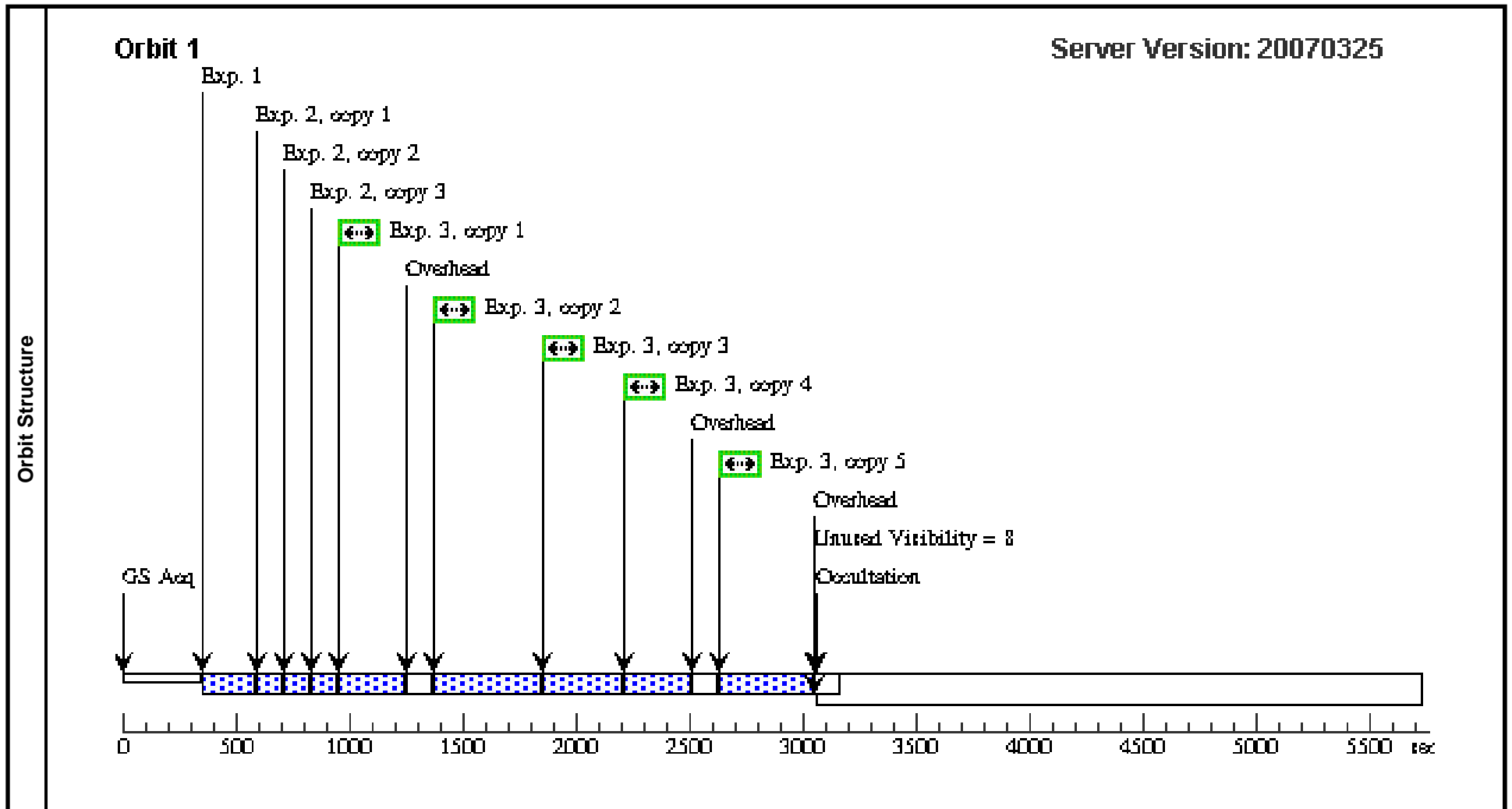
Proposal 10599 - Visit 56 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

Visit	Proposal 10599, Visit 56, implementation					Tue Jul 17 01:03:03 GMT 2007				
	Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SCHED 100%; ORIENT 5.0D TO 10.0D FROM 55									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(1)	HD-53143	RA: 06 59 59.6559 (104.9985662d) Dec: -61 20 10.25 (-61.33618d) Equinox: J2000	Proper Motion RA: -0.0224s/yr Proper Motion Dec: 0.2645"/yr Epoch of Position: 2000.0	V=6.81	Coordinate Source: SIMBAD			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	HD-53143	(1) HD-53143	WFPC2, IMAGE, PC1-FIX	F439W	ATD-GAIN=15; CLOCKS=YES	POS TARG -15.1,-1 5.3		2.0 Secs [==>]	[1]
	2	medium	(1) HD-53143	WFPC2, IMAGE, PC1-FIX	F439W	CLOCKS=YES; ATD-GAIN=15	POS TARG -15.1,-1 5.3		40.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]
	3	long	(1) HD-53143	WFPC2, IMAGE, PC1-FIX	F439W	CLOCKS=YES; ATD-GAIN=15	POS TARG -15.1,-1 5.3		260.0 Secs X 5 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)]	[1]



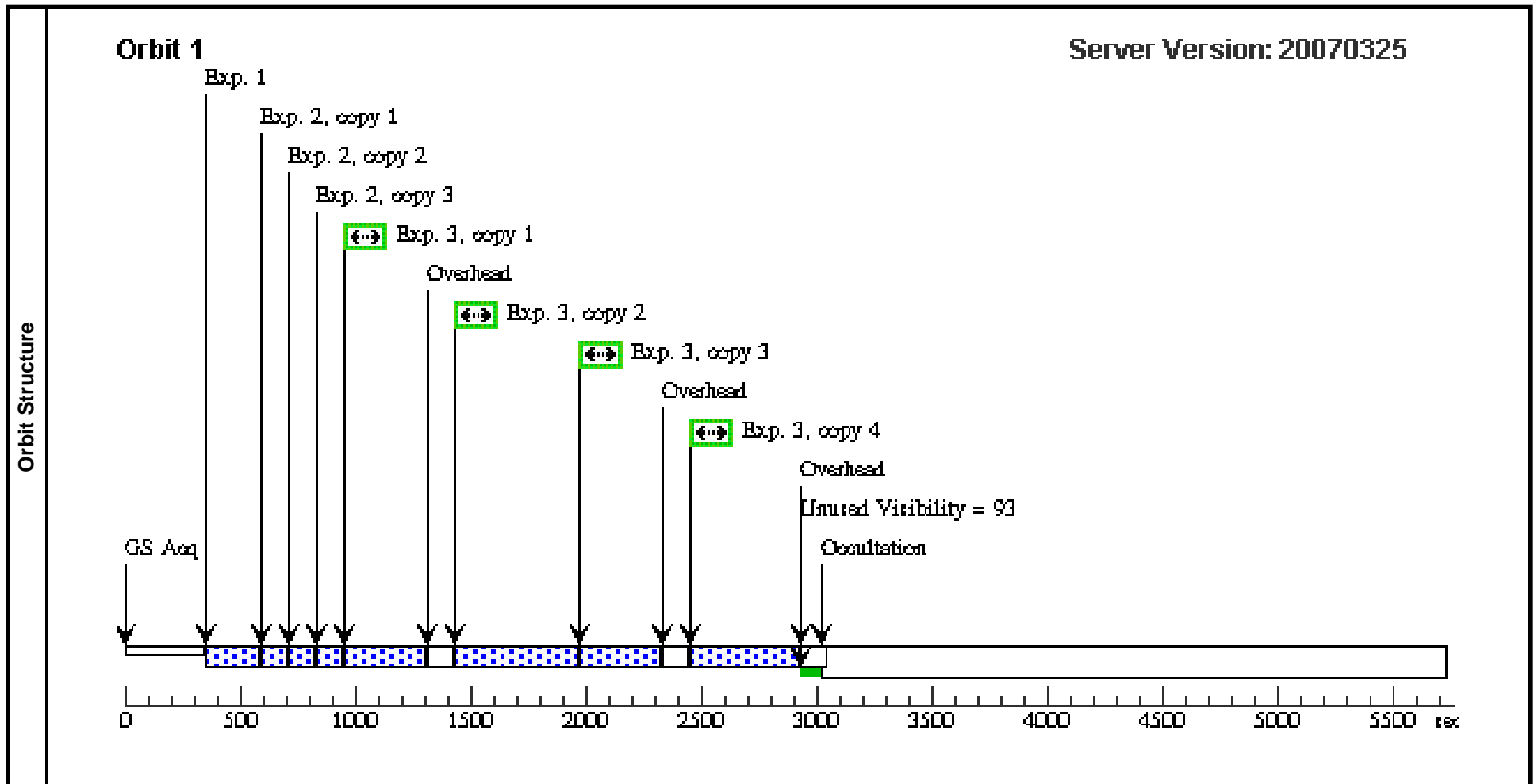
Proposal 10599 - Visit 57 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

Visit	Proposal 10599, Visit 57, implementation <span style="float: right;">Tue Jul 17 01:03:03 GMT 2007</span> Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SCHED 100%; ORIENT 5.0D TO 10.0D FROM 56; AFTER 55 BY 1 H TO 36 H																		
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>HD-53143</td> <td>RA: 06 59 59.6559 (104.9985662d) Dec: -61 20 10.25 (-61.33618d) Equinox: J2000</td> <td>Proper Motion RA: -0.0224s/yr Proper Motion Dec: 0.2645"/yr Epoch of Position: 2000.0</td> <td>V=6.81</td> <td>Coordinate Source: SIMBAD</td> </tr> <tr> <td colspan="6"><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	HD-53143	RA: 06 59 59.6559 (104.9985662d) Dec: -61 20 10.25 (-61.33618d) Equinox: J2000	Proper Motion RA: -0.0224s/yr Proper Motion Dec: 0.2645"/yr Epoch of Position: 2000.0	V=6.81	Coordinate Source: SIMBAD	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>				
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	1	HD-53143	(1) HD-53143	WFPC2, IMAGE, PC1-FIX	F439W	ATD-GAIN=15; CLOCKS=YES	POS TARG -15.1,-1 5.3		2.0 Secs [==>]	[1]									
	2	medium	(1) HD-53143	WFPC2, IMAGE, PC1-FIX	F439W	CLOCKS=YES; ATD-GAIN=15	POS TARG -15.1,-1 5.3		40.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]									
	3	long	(1) HD-53143	WFPC2, IMAGE, PC1-FIX	F439W	CLOCKS=YES; ATD-GAIN=15	POS TARG -15.1,-1 5.3		260.0 Secs X 5 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)]	[1]									



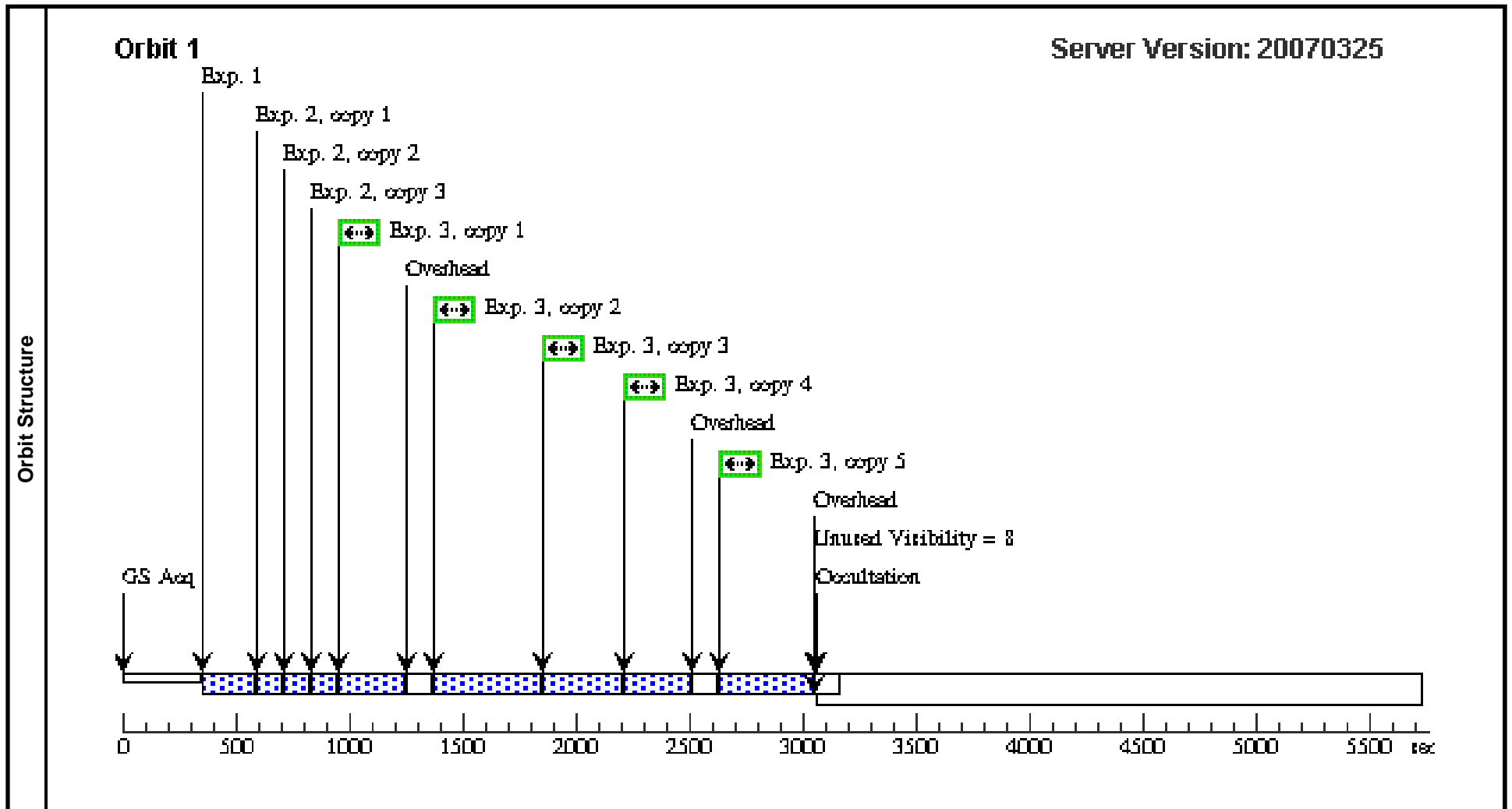
Proposal 10599 - Visit 58 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

Visit	Proposal 10599, Visit 58, implementation <span style="float: right;">Tue Jul 17 01:03:03 GMT 2007</span> Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SCHED 100%																																								
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Proposal 10599 - Visit 59 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

Visit	Proposal 10599, Visit 59, scheduling					Tue Jul 17 01:03:04 GMT 2007				
	Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SCHED 100%; ORIENT 225.0D TO 230.0 D; GROUP 59,60 WITHIN 1.5 Orbits									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	HD-53143	RA: 06 59 59.6559 (104.9985662d) Dec: -61 20 10.25 (-61.33618d) Equinox: J2000	Proper Motion RA: -0.0224s/yr Proper Motion Dec: 0.2645"/yr Epoch of Position: 2000.0	V=6.81	Coordinate Source: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	HD-53143	(1) HD-53143	WFPC2, IMAGE, PC1-FIX	F606W	ATD-GAIN=15; CLOCKS=YES	POS TARG -15.1,-1 5.3		2.0 Secs [==>]	[1]
	2	medium	(1) HD-53143	WFPC2, IMAGE, PC1-FIX	F606W	CLOCKS=YES; ATD-GAIN=15	POS TARG -15.1,-1 5.3		40.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]
	3	long	(1) HD-53143	WFPC2, IMAGE, PC1-FIX	F606W	CLOCKS=YES; ATD-GAIN=15	POS TARG -15.1,-1 5.3		260.0 Secs X 5 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)]	[1]



Proposal 10599 - Visit 60 - Multi-color imaging of two 1 Gyr old debris disks within 20 pc of the Sun: Astrophysical mirrors of our Kuiper Belt

Visit	Proposal 10599, Visit 60, scheduling <span style="float: right;">Tue Jul 17 01:03:04 GMT 2007</span> Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SCHED 100%																																																
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(3)	HD-10476-PSF	RA: 01 42 29.7619 (25.6240079d) Dec: +20 16 6.62 (20.26851d) Equinox: J2000	Proper Motion RA: -0.02148s/yr Proper Motion Dec: -0.6774"/yr Epoch of Position: 2000.0	V=5.2	Coordinate Source: SIMBAD																																												
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Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>HD-10476-P SF</td> <td>(3) HD-10476-PSF</td> <td>WFPC2, IMAGE, PC1-FIX</td> <td>F606W</td> <td>ATD-GAIN=15; CLOCKS=YES</td> <td>POS TARG -15.1,-1 5.3</td> <td></td> <td>2.0 Secs [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>medium</td> <td>(3) HD-10476-PSF</td> <td>WFPC2, IMAGE, PC1-FIX</td> <td>F606W</td> <td>CLOCKS=YES; ATD-GAIN=15</td> <td>POS TARG -15.1,-1 5.3</td> <td></td> <td>40.0 Secs X 3 [==&gt;(Copy 1)] [==&gt;(Copy 2)] [==&gt;(Copy 3)]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>long</td> <td>(3) HD-10476-PSF</td> <td>WFPC2, IMAGE, PC1-FIX</td> <td>F606W</td> <td>CLOCKS=YES; ATD-GAIN=15</td> <td>POS TARG -15.1,-1 5.3</td> <td></td> <td>300.0 Secs X 4 [==&gt;(Copy 1)] [==&gt;(Copy 2)] [==&gt;(Copy 3)] [==&gt;(Copy 4)]</td> <td>[1]</td> </tr> </tbody> </table>									#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1	HD-10476-P SF	(3) HD-10476-PSF	WFPC2, IMAGE, PC1-FIX	F606W	ATD-GAIN=15; CLOCKS=YES	POS TARG -15.1,-1 5.3		2.0 Secs [==>]	[1]	2	medium	(3) HD-10476-PSF	WFPC2, IMAGE, PC1-FIX	F606W	CLOCKS=YES; ATD-GAIN=15	POS TARG -15.1,-1 5.3		40.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]	3	long	(3) HD-10476-PSF	WFPC2, IMAGE, PC1-FIX	F606W	CLOCKS=YES; ATD-GAIN=15	POS TARG -15.1,-1 5.3		300.0 Secs X 4 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)]	[1]
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3	long	(3) HD-10476-PSF	WFPC2, IMAGE, PC1-FIX	F606W	CLOCKS=YES; ATD-GAIN=15	POS TARG -15.1,-1 5.3		300.0 Secs X 4 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)]	[1]																																								

