



10854 - Coronagraphic Imaging of Bright New Spitzer Debris Disks II.

Cycle: 15, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Karl Stapelfeldt (PI)	Jet Propulsion Laboratory	krs@exoplanet.jpl.nasa.gov
Mr. John Krist (CoI)	Jet Propulsion Laboratory	john.e.krist@jpl.nasa.gov
Dr. Charles A. Beichman (CoI)	Jet Propulsion Laboratory	chas@pop.jpl.nasa.gov
Dr. Geoff Bryden (CoI)	Jet Propulsion Laboratory	geoff.bryden@jpl.nasa.gov
Dr. Angelle Tanner (CoI)	Jet Propulsion Laboratory	angelle.tanner@jpl.nasa.gov
Dr. Christine Chen (CoI)	National Optical Astronomy Observatories, AURA	cchen@noao.edu

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>
11	(1) HR-506	NIC2	1	20-Jun-2007 21:01:08.0	yes
12	(1) HR-506	NIC2	1	20-Jun-2007 21:01:17.0	yes
13	(2) HD-7570	NIC2	1	20-Jun-2007 21:01:28.0	yes
14	(3) HD-69830	NIC2	1	20-Jun-2007 21:01:34.0	yes
15	(3) HD-69830	NIC2	1	20-Jun-2007 21:01:40.0	yes
16	(4) HD-73281	NIC2	1	20-Jun-2007 21:01:46.0	yes
17	(5) HR-3927	NIC2	1	20-Jun-2007 21:01:55.0	yes
18	(5) HR-3927	NIC2	1	20-Jun-2007 21:02:01.0	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>
19	(6) HD-93905	NIC2	1	20-Jun-2007 21:02:06.0	yes

9 Total Orbits Used

ABSTRACT

Fifteen percent of bright main sequence stars possess dusty circumstellar debris disks revealed by far-infrared photometry. These disks are signposts of planetary systems: collisions among larger, unseen parent bodies maintain the observed dust population against losses to radiation pressure and P-R drag. Images of debris disks at optical, infrared, and millimeter wavelengths have shown central holes, rings, radial gaps, warps, and azimuthal asymmetries which indicate the presence of planetary mass perturbers. Such images provide unique insights into the structure and dynamics of exoplanetary systems. Relatively few debris disks have been spatially resolved. Only thirteen have ever been resolved at any wavelength, and at wavelengths < 10 microns (where subarcsec resolution is available), only ten. Imaging of many other debris disk targets has been attempted with various HST cameras/coronagraphs and adaptive optics, but without success. The key property which renders a debris disk observable in scattered light is its dust optical depth. The ten disks imaged so far all have a dust excess luminosity $> \sim 0.01\%$ that of the central star; no disks with smaller optical depths have been detected. Most main sequence stars known to meet this requirement have already been observed, so future progress in debris disk imaging depends on discovering additional stars with large infrared excess. The Spitzer Space Telescope offers the best opportunity in 20 years to identify new examples of high optical depth debris disk systems. We propose to complete ACS coronagraphic imaging followup of bright, new debris disks discovered during the first two years of the Spitzer mission, by observing three additional targets in Cycle 15. Our goal is to obtain the first resolved images of these disks at ~ 3 AU resolution, define the disk sizes and orientations, and uncover disk substructures indicative of planetary perturbations. The results will open wider a window into the structure of planetary systems.

OBSERVING DESCRIPTION

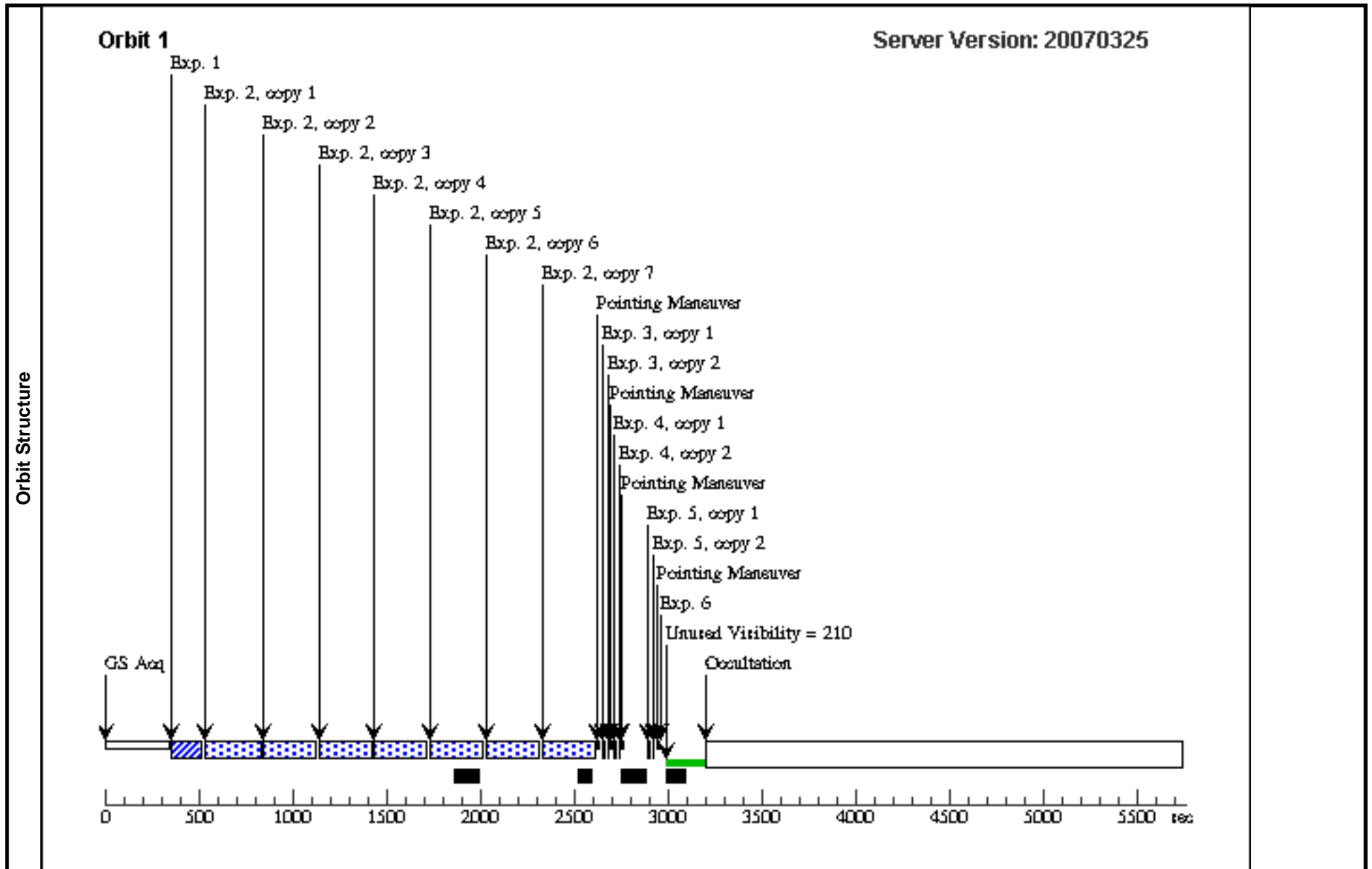
A star having a suspected circumstellar disk will be observed on the ACS/HRC. In the first orbit, a short exposure in F606W will be taken without the coronagraph to provide photometry (the star will be somewhat saturated). Then, a coronagraphic acquisition exposure is taken, followed by a long coronagraphic exposure in F606W. Between the first and second orbit the telescope is rolled 20-30 degrees. In the second orbit, an acquisition

and long coronagraphic exposure is taken. The telescope is then slewed to a reference PSF star. In this third orbit, a short F606W exposure is taken, followed by acquisition and long F606W coronagraphic exposures.

Proposal 10854 - Visit 11 - Coronagraphic Imaging of Bright New Spitzer Debris Disks II.

Thu Jun 21 01:02:09 GMT 2007

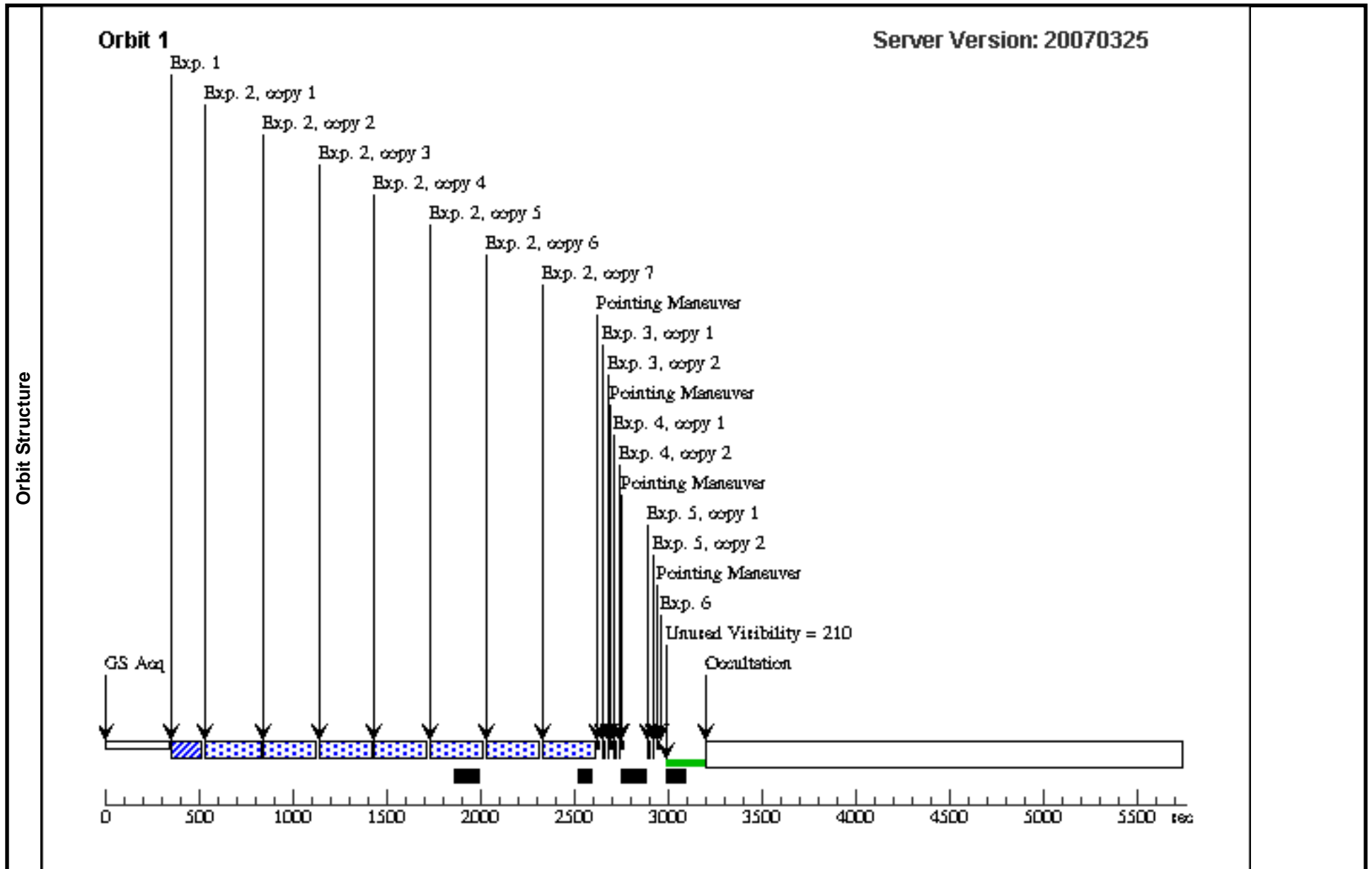
Visit	Proposal 10854, Visit 11 Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	HR-506 Alt Name1: HD-10647	RA: 01 42 29.3400 (25.6222500d) Dec: -53 44 27.30 (-53.74092d) Equinox: J2000 Plate Id: (?)	Proper Motion RA: 0.0193s/yr Proper Motion Dec: -0.109"/yr Parallax: 0.05763" Epoch of Position: 2000.0	V=5.5	Reference Frame: GSC1				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) HR-506	(1) HR-506	NIC2, ACQ, NIC2-ACQ	F187N		GS ACQ SCENARI O BASE1TNS	Sequence 1-6 Non-Int	0.3 Secs [==>]	[1]
	2	(1) HR-506	(1) HR-506	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=16; SAMP-SEQ=STEP3 2		Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)]	[1]
	3	(1) HR-506	(1) HR-506	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 2,-2	Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
	4	(1) HR-506	(1) HR-506	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 3,-2	Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
	5	(1) HR-506	(1) HR-506	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 3,-3	Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
	6	(1) HR-506	(1) HR-506	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 2,-3	Sequence 1-6 Non-Int	[==>]	[1]



Proposal 10854 - Visit 12 - Coronagraphic Imaging of Bright New Spitzer Debris Disks II.

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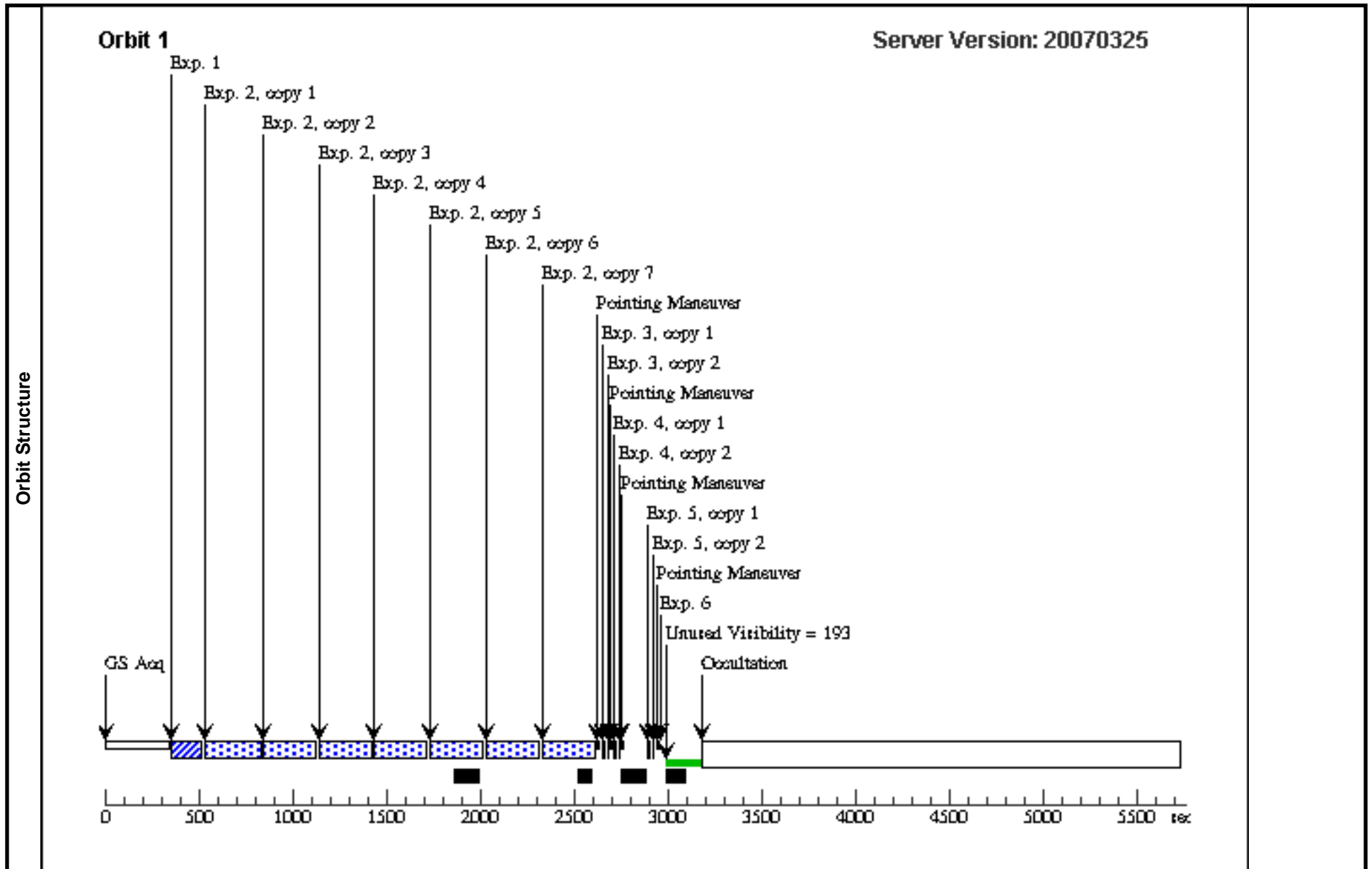
Visit	Proposal 10854, Visit 12 Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: ORIENT 25.0D TO 30.0D FROM 11; AFTER 11 BY 0.8 Orbits TO 1.2 Orbits									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	HR-506 Alt Name1: HD-10647	RA: 01 42 29.3400 (25.6222500d) Dec: -53 44 27.30 (-53.74092d) Equinox: J2000 Plate Id: (?)	Proper Motion RA: 0.0193s/yr Proper Motion Dec: -0.109"/yr Parallax: 0.05763" Epoch of Position: 2000.0	V=5.5	Reference Frame: GSC1				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) HR-506	(1) HR-506	NIC2, ACQ, NIC2-ACQ	F187N		GS ACQ SCENARI O BASE1TNS	Sequence 1-6 Non-Int	0.3 Secs [==>]	[1]
	2	(1) HR-506	(1) HR-506	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=16; SAMP-SEQ=STEP3 2		Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)]	[1]
	3	(1) HR-506	(1) HR-506	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 2,-2	Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
	4	(1) HR-506	(1) HR-506	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 3,-2	Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
	5	(1) HR-506	(1) HR-506	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 3,-3	Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
	6	(1) HR-506	(1) HR-506	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 2,-3	Sequence 1-6 Non-Int	[==>]	[1]



Proposal 10854 - Visit 13 - Coronagraphic Imaging of Bright New Spitzer Debris Disks II.

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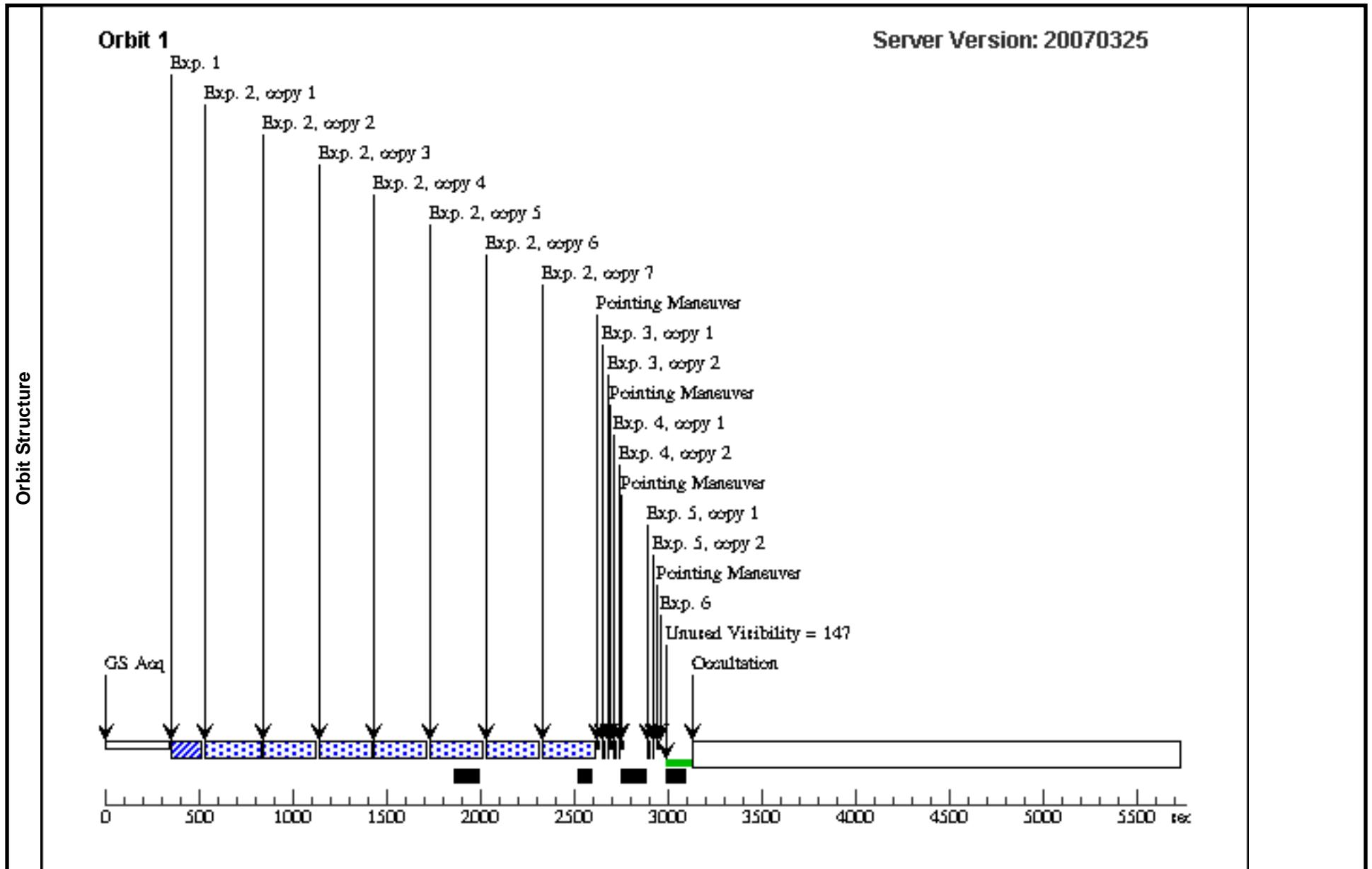
Visit	Proposal 10854, Visit 13 Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: AFTER 12 BY 0.8 Orbits TO 1.2 Orbits									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(2)	HD-7570 Alt Name1: HR-370	RA: 01 15 11.1700 (18.7965417d) Dec: -45 31 53.90 (-45.53164d) Equinox: J2000 Plate Id: (?)	Proper Motion RA: 0.0642s/yr Proper Motion Dec: 0.18"/yr Parallax: 0.06643" Epoch of Position: 2000.0	V=5.0	Reference Frame: GSC1				
	<i>Comments: PSF reference star for HR-506</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(2) HD-7570	NIC2, ACQ, NIC2-ACQ	F187N			GS ACQ SCENARI O BASE1TNS	Sequence 1-6 Non-Int	0.228 Secs [==>]	[1]
	2	(2) HD-7570	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=16; SAMP-SEQ=STEP3 2			Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)]	[1]
	3	(2) HD-7570	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR		POS TARG 2,-2	Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
	4	(2) HD-7570	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR		POS TARG 3,-2	Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
	5	(2) HD-7570	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR		POS TARG 3,-3	Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
	6	(2) HD-7570	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR		POS TARG 2,-3	Sequence 1-6 Non-Int	[==>]	[1]



Proposal 10854 - Visit 14 - Coronagraphic Imaging of Bright New Spitzer Debris Disks II.

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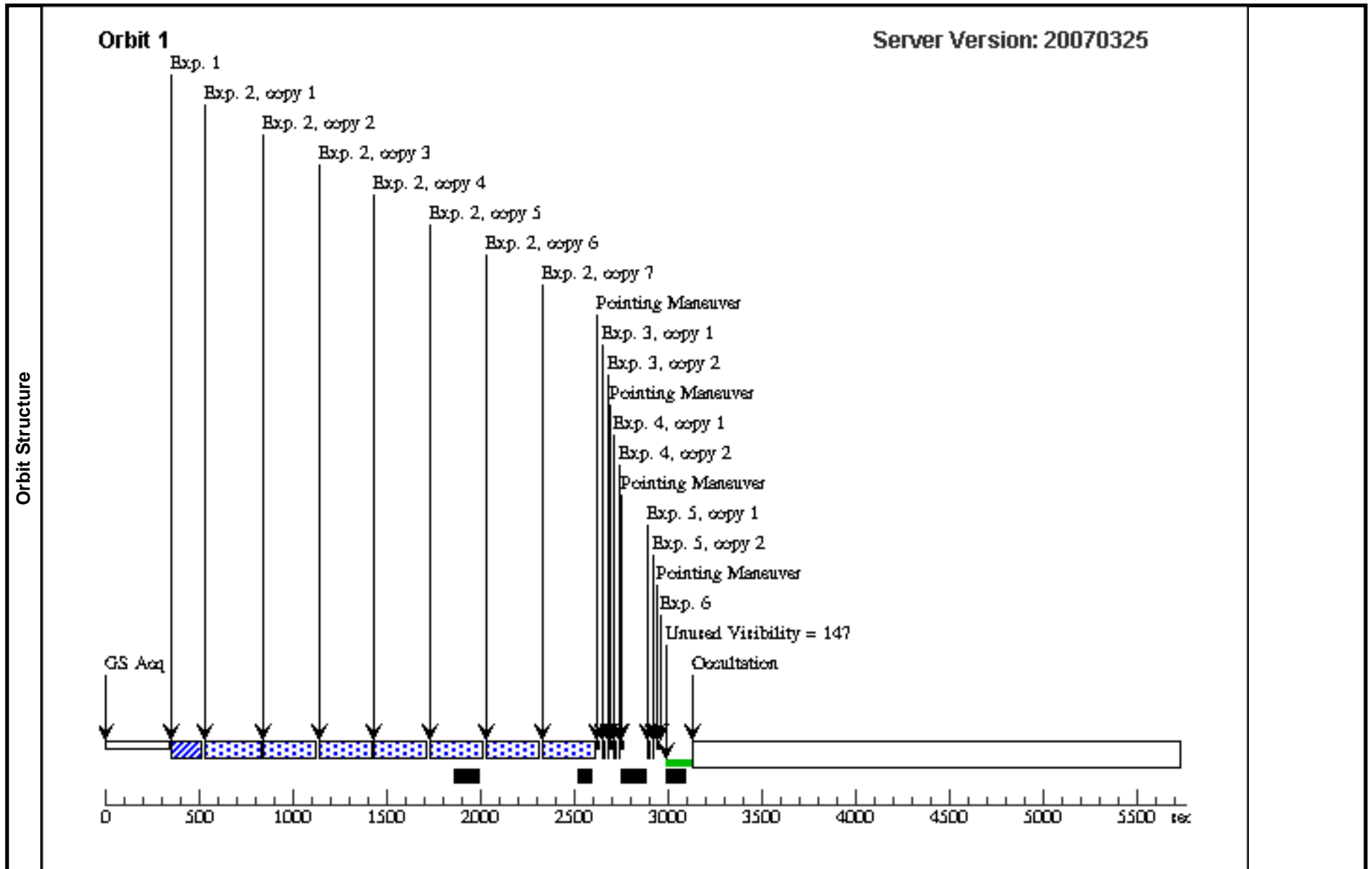
Visit	Proposal 10854, Visit 14					Miscellaneous				
	Diagnostic Status: No Diagnostics									
Fixed Targets	Scientific Instruments: NIC2					Reference Frame: ICRS				
	Special Requirements: (none)									
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes						
(3)	HD-69830	RA: 08 18 23.9440 (124.5997667d) Dec: -12 37 55.90 (-12.63219d) Equinox: J2000	Proper Motion RA: 0.0193s/yr Proper Motion Dec: -0.986"/yr Epoch of Position: 2000.0	V=5.95						
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(3) HD-69830	NIC2, ACQ, NIC2-ACQ	F187N			GS ACQ SCENARI O BASE1TNS	Sequence 1-6 Non-Int	0.24 Secs [==>]	[1]
	2	(3) HD-69830	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=16; SAMP-SEQ=STEP3 2			Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)]	[1]
	3	(3) HD-69830	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR		POS TARG 2,-2	Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
	4	(3) HD-69830	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR		POS TARG 3,-2	Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
	5	(3) HD-69830	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR		POS TARG 3,-3	Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
6	(3) HD-69830	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR		POS TARG 2,-3	Sequence 1-6 Non-Int	[==>]	[1]	



Proposal 10854 - Visit 15 - Coronagraphic Imaging of Bright New Spitzer Debris Disks II.

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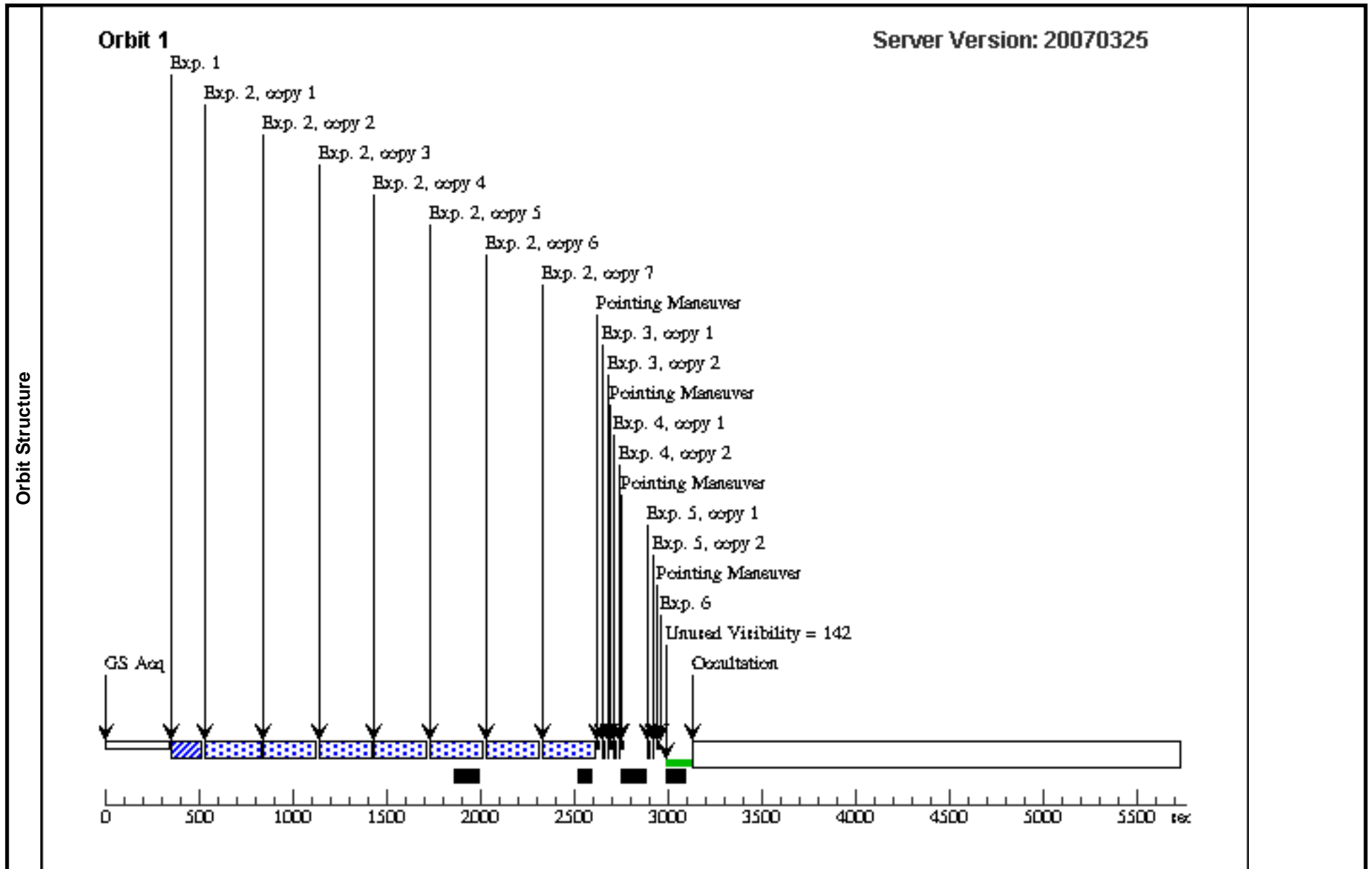
Visit	Proposal 10854, Visit 15 Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: ORIENT 25.0D TO 30.0D FROM 14; AFTER 14 BY 0.8 Orbits TO 1.2 Orbits									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(3)	HD-69830	RA: 08 18 23.9440 (124.5997667d) Dec: -12 37 55.90 (-12.63219d) Equinox: J2000	Proper Motion RA: 0.0193s/yr Proper Motion Dec: -0.986"/yr Epoch of Position: 2000.0	V=5.95	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(3) HD-69830	NIC2, ACQ, NIC2-ACQ	F187N			GS ACQ SCENARI O BASE1TNS	Sequence 1-6 Non-Int	0.24 Secs [==>]	[1]
	2	(3) HD-69830	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=16; SAMP-SEQ=STEP3 2			Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)]	[1]
	3	(3) HD-69830	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 2,-2		Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
	4	(3) HD-69830	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 3,-2		Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
	5	(3) HD-69830	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 3,-3		Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
	6	(3) HD-69830	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 2,-3		Sequence 1-6 Non-Int	[==>]	[1]



Proposal 10854 - Visit 16 - Coronagraphic Imaging of Bright New Spitzer Debris Disks II.

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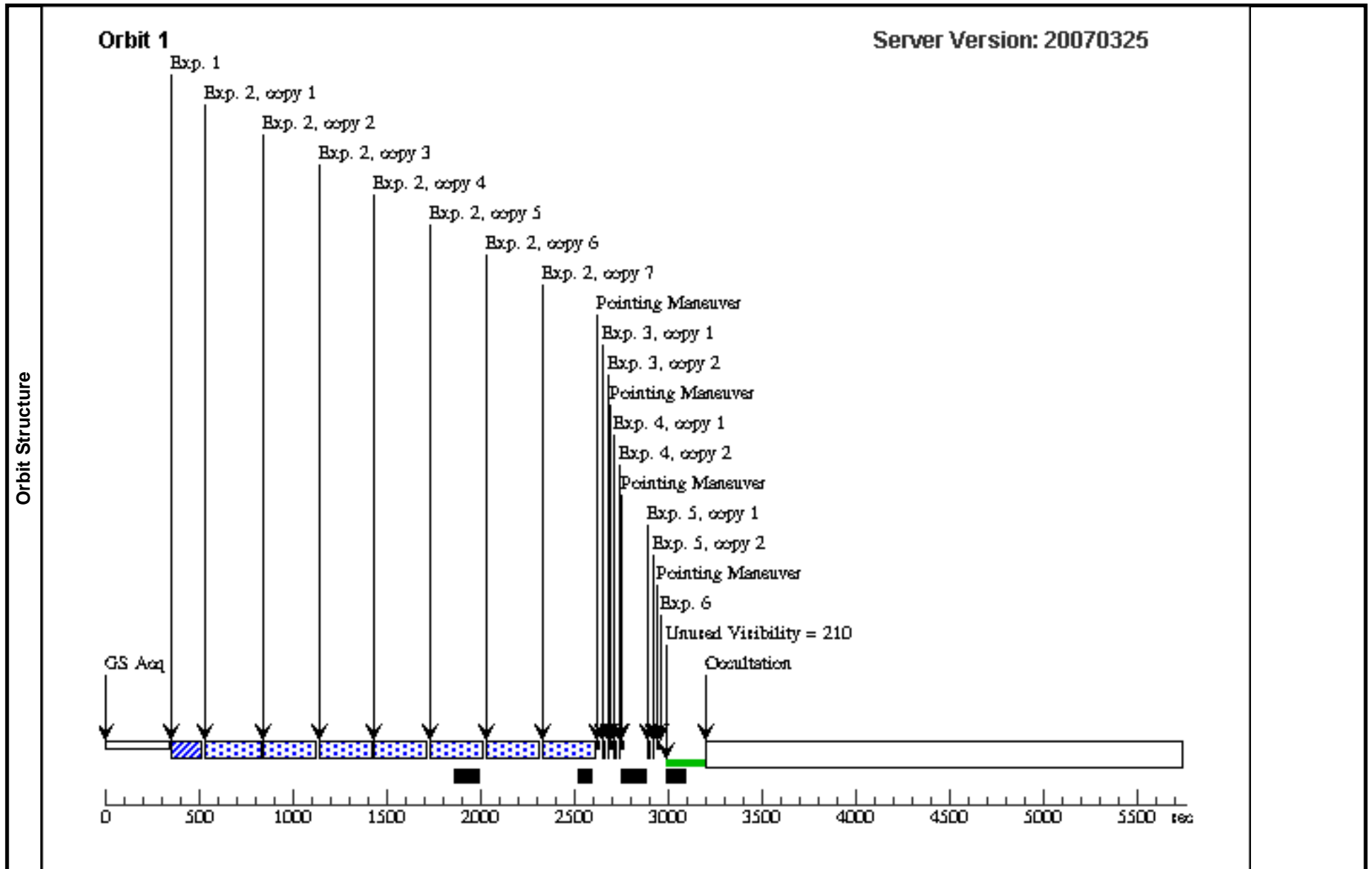
Visit		Proposal 10854, Visit 16 Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: AFTER 15 BY 0.8 Orbits TO 1.2 Orbits									
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		(4)	HD-73281	RA: 08 37 27.1650 (129.3631875d) Dec: -04 56 2.54 (-4.93404d) Equinox: J2000	Proper Motion RA: -0.0003s/yr Proper Motion Dec: 0.004"/yr Epoch of Position: 2000.0	V=6.2	Reference Frame: ICRS				
		<i>Comments: PSF reference star for HD-69830</i>									
		1	(4) HD-73281	NIC2, ACQ, NIC2-ACQ	F187N			GS ACQ SCENARI O BASE1TNS	Sequence 1-6 Non-Int	0.228 Secs [==>]	[1]
		2	(4) HD-73281	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=16; SAMP-SEQ=STEP3 2			Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)]	[1]
		3	(4) HD-73281	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 2,-2		Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
		4	(4) HD-73281	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 3,-2		Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
		5	(4) HD-73281	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 3,-3		Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
		6	(4) HD-73281	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 2,-3		Sequence 1-6 Non-Int	[==>]	[1]



Proposal 10854 - Visit 17 - Coronagraphic Imaging of Bright New Spitzer Debris Disks II.

Thu Jun 21 01:02:13 GMT 2007

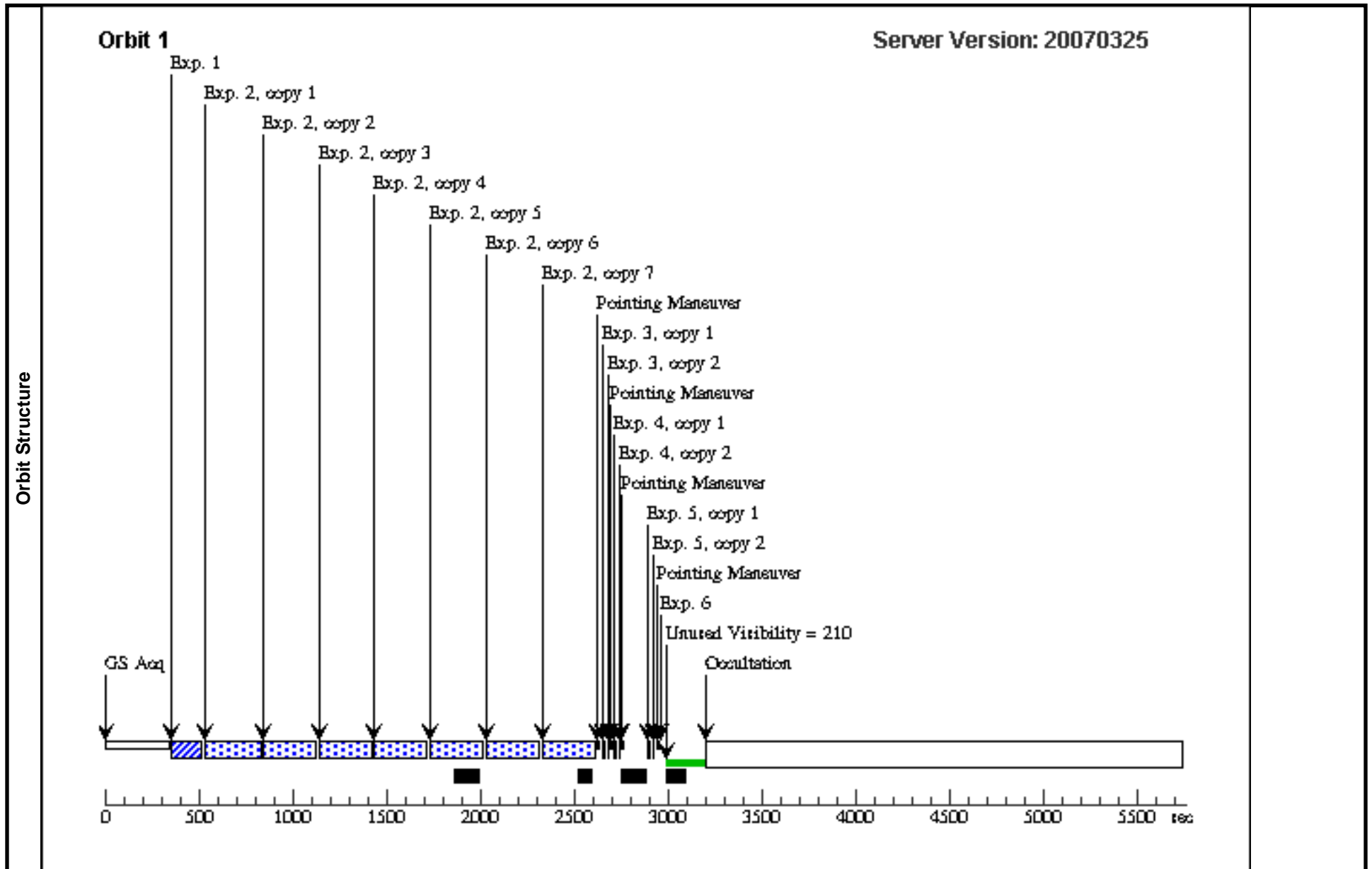
Visit	Proposal 10854, Visit 17 Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(5)	HR-3927 Alt Name1: HD-86087	RA: 09 54 51.2910 (148.7137125d) Dec: -50 14 38.54 (-50.24404d) Equinox: J2000	Proper Motion RA: -0.0028s/yr Proper Motion Dec: -0.001"/yr Epoch of Position: 2000.0	V=5.71	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(5) HR-3927	NIC2, ACQ, NIC2-ACQ	F187N			GS ACQ SCENARI O BASE1TNS	Sequence 1-6 Non-Int	0.96 Secs [==>]	[1]
	2	(5) HR-3927	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=16; SAMP-SEQ=STEP3 2			Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)]	[1]
	3	(5) HR-3927	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 2,-2		Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
	4	(5) HR-3927	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 3,-2		Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
	5	(5) HR-3927	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 3,-3		Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
	6	(5) HR-3927	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 2,-3		Sequence 1-6 Non-Int	[==>]	[1]



Proposal 10854 - Visit 18 - Coronagraphic Imaging of Bright New Spitzer Debris Disks II.

Thu Jun 21 01:02:13 GMT 2007

Visit		Proposal 10854, Visit 18 Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: ORIENT 25.0D TO 30.0D FROM 17; AFTER 17 BY 0.8 Orbits TO 1.2 Orbits									
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(5)	HR-3927	RA: 09 54 51.2910 (148.7137125d)	Proper Motion RA: -0.0028s/yr	V=5.71	Reference Frame: ICRS				
			Alt Name1: HD-86087	Dec: -50 14 38.54 (-50.24404d)	Proper Motion Dec: -0.001"/yr						
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		1	(5) HR-3927	NIC2, ACQ, NIC2-ACQ	F187W			GS ACQ SCENARI O BASE1TNS	Sequence 1-6 Non-Int	0.96 Secs [==>]	[1]
		2	(5) HR-3927	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=16; SAMP-SEQ=STEP3 2			Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)]	[1]
		3	(5) HR-3927	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 2,-2		Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
		4	(5) HR-3927	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 3,-2		Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
		5	(5) HR-3927	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 3,-3		Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
		6	(5) HR-3927	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 2,-3		Sequence 1-6 Non-Int	[==>]	[1]



Proposal 10854 - Visit 19 - Coronagraphic Imaging of Bright New Spitzer Debris Disks II.

Thu Jun 21 01:02:14 GMT 2007

Visit		Proposal 10854, Visit 19 Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: AFTER 18 BY 0.8 Orbits TO 1.2 Orbits									
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(6)	HD-93905	RA: 10 49 57.0640 (162.4877667d) Dec: -34 03 29.83 (-34.05829d) Equinox: J2000	Proper Motion RA: -0.002s/yr Proper Motion Dec: -0.001"/yr Epoch of Position: 2000.0	V=5.6	Reference Frame: ICRS				
		<i>Comments: Reference PSF for HR-3927</i>									
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		1	(6) HD-93905	NIC2, ACQ, NIC2-ACQ	F187N			GS ACQ SCENARI O BASE1TNS	Sequence 1-6 Non-Int	0.8 Secs [==>]	[1]
		2	(6) HD-93905	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=16; SAMP-SEQ=STEP3 2			Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)]	[1]
		3	(6) HD-93905	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 2,-2		Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
		4	(6) HD-93905	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 3,-2		Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
		5	(6) HD-93905	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 3,-3		Sequence 1-6 Non-Int	[==>(Copy 1)] [==>(Copy 2)]	[1]
		6	(6) HD-93905	NIC2, MULTIACCUM, NIC2-CORON	F110W	NSAMP=20; SAMP-SEQ=SCAM RR	POS TARG 2,-3		Sequence 1-6 Non-Int	[==>]	[1]

