



10857 - Are Organics Common in Outer Planetary Systems?

Cycle: 15, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
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Dr. John Henry Debes (CoI)	Carnegie Institution of Washington	debes@dtm.ciw.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>
01	(1) HD32297	NIC2	1	02-Jan-2007 21:49:24.0	yes
02	(2) HD31489	NIC2	1	02-Jan-2007 21:49:34.0	yes
03	(1) HD32297	NIC2	1	02-Jan-2007 21:49:44.0	yes
04	(3) HD181327	NIC2	1	02-Jan-2007 21:49:54.0	yes
05	(4) HD183028	NIC2	1	02-Jan-2007 21:50:03.0	yes
06	(3) HD181327	NIC2	1	02-Jan-2007 21:50:11.0	yes
14	(3) HD181327	NIC2	1	02-Jan-2007 21:50:16.0	yes
15	(3) HD181327	NIC2	1	02-Jan-2007 21:50:21.0	yes
16	(3) HD181327	NIC2	1	02-Jan-2007 21:50:26.0	yes

9 Total Orbits Used

ABSTRACT

Mixtures of water ice and organics seem to pervade surfaces in the outer Solar System, from the rings of Saturn to the Kuiper Belt Objects. The early Earth was bombarded by the leftover planetesimals from the formation of the planets, and these must have been rich in both ice and carbon to provide the building blocks of life. Scattered light from debris disks is remarkably similar in albedo (total scattering efficiency) and color (red) to the objects in the outer solar system. Thus, we have a hint that the same photochemical processes that happened close to home also happen around other stars. We propose to study the color of two debris disks in some detail. Scattering of light is the only window available to us to see the composition of debris disks in a spatially resolved manner and to assess their potential for containing planets like ours.

OBSERVING DESCRIPTION

Coronagraphic imaging in multiple filters along with non-coronagraphic direct imaging for photometry. Visits are linked so that the disk is observed at one orientation, then the PSF is observed, and then the disk is observed at a second orientation 30 deg from the first one.

ADDITIONAL COMMENTS

14 Sep 2006 - Resubmission of Phase II file. The only changes were in the NSAMP value in the SCAMRR observations for non-coronagraphic photometry. I increased NSAMP to provide more precise photometry.

Proposal 10857 - Visit 01 - Are Organics Common in Outer Planetary Systems?

Wed Jan 03 02:50:30 GMT 2007

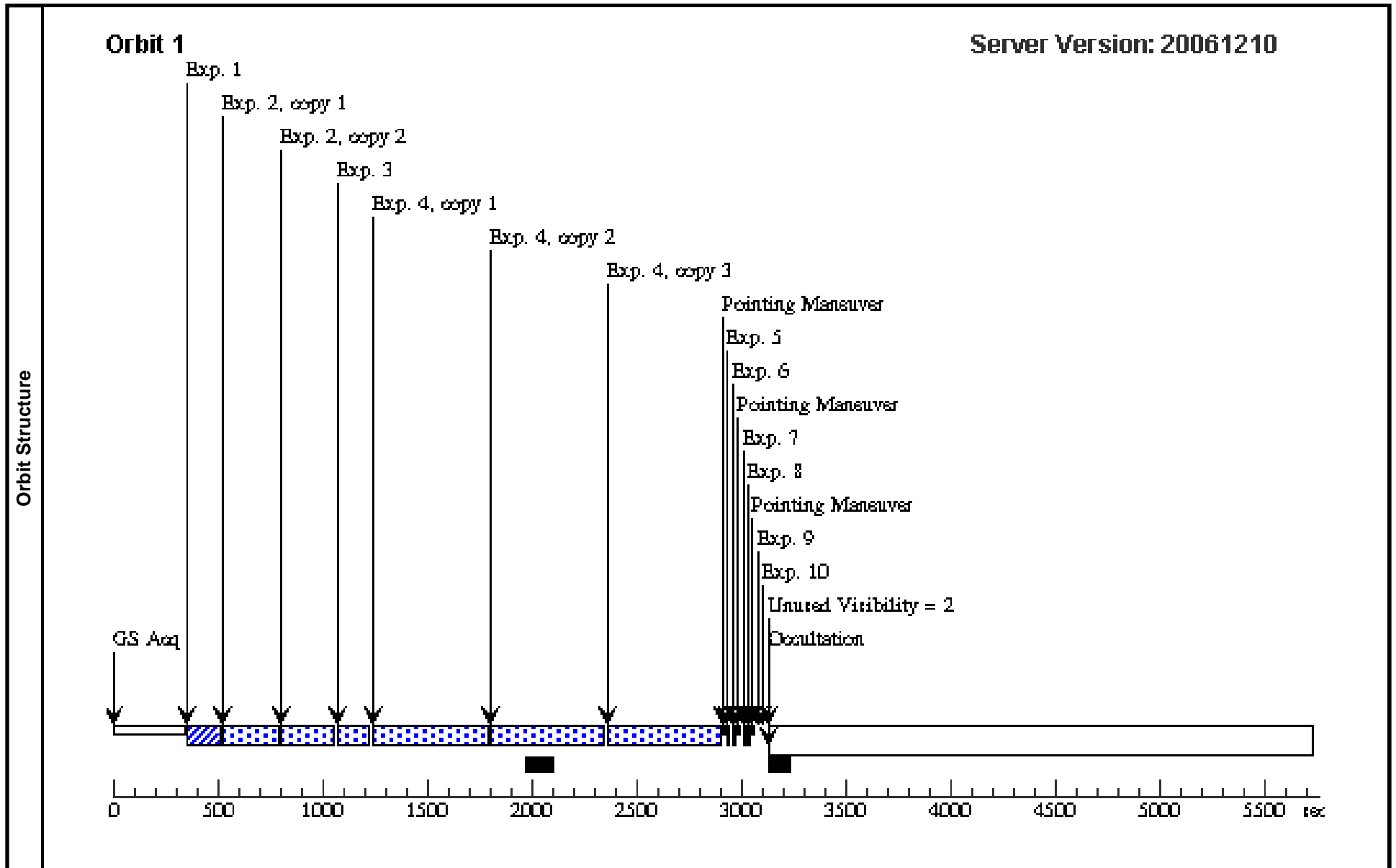
Visit	<p>Proposal 10857, Visit 01, implementation</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: NIC2</p> <p>Special Requirements: ORIENT 262.0D TO 268.0 D; SEQ 01,02,03 WITHIN 2.1 Orbits</p> <p><i>Comments: 1st orientation of HD 32297</i></p> <p><i>Sequence with visits 2 (PSF) and 3 (2nd orientation) in consecutive orbits (given as a sequence within 2.7 orbits)</i></p> <p><i>Orientation constraint on this visit puts disk between diffraction spikes:</i></p> <p><i>PA(disk)=236.5 so ORIENT = 224.5+236.5=100 deg (this puts disk along +y). Go +/- 15 deg of this, and we don't care if actual orientation is along +/-y or +/-x. On-line calendar says the available ORIENTS for the 52 min visibility are approx. 250-330. So, our ideal orients are 265 and 295. For flexibility in scheduling, specify 262-268. deg here and 292-298 deg on Visit 3.</i></p>

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>HD32297</td> <td>RA: 05 02 27.4300 (75.6142917d) Dec: +07 27 39.90 (7.46108d) Equinox: J2000</td> <td>Proper Motion RA: 0.00045s/yr Proper Motion Dec: -0.02332"/yr Parallax: 0.00892" Epoch of Position: 1991.25</td> <td>V=8.13 J=7.69, H=7.62, Ks=7.59</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Coordinates from Hipparcos catalog</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	HD32297	RA: 05 02 27.4300 (75.6142917d) Dec: +07 27 39.90 (7.46108d) Equinox: J2000	Proper Motion RA: 0.00045s/yr Proper Motion Dec: -0.02332"/yr Parallax: 0.00892" Epoch of Position: 1991.25	V=8.13 J=7.69, H=7.62, Ks=7.59	Reference Frame: ICRS
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	7	dither 2 F16 0W	(1) HD32297 NIC2, MULTIACCUM, NIC2-CORON	F160W	SAMP-SEQ=SCAM RR; NSAMP=3	POS TARG -0.91,-3. 42		[==>]	[1]	
	<i>Comments: POS-TARG (-0."91, -3."42) to get to approx. pixel (63,166) for 2nd dither position</i>									
	8	dither 2 F20 5W	(1) HD32297 NIC2, MULTIACCUM, NIC2-CORON	F205W	SAMP-SEQ=SCAM RR; NSAMP=3	POS TARG -0.91,-3. 42		[==>]	[1]	
<i>Comments: POS-TARG (-0."91, -3."42) to get to approx. pixel (63,166) for 2nd dither position</i>										
9	dither 3 F20 5W	(1) HD32297 NIC2, MULTIACCUM, NIC2-CORON	F205W	SAMP-SEQ=SCAM RR; NSAMP=3	POS TARG 1.25,-2. 16		[==>]	[1]		
10	dither 3 F16 0W	(1) HD32297 NIC2, MULTIACCUM, NIC2-CORON	F160W	SAMP-SEQ=SCAM RR; NSAMP=3	POS TARG 1.25,-2. 16		[==>]	[1]		
<i>Comments: pos-targ (1.25, -2.16) to position for 3rd dither</i>										



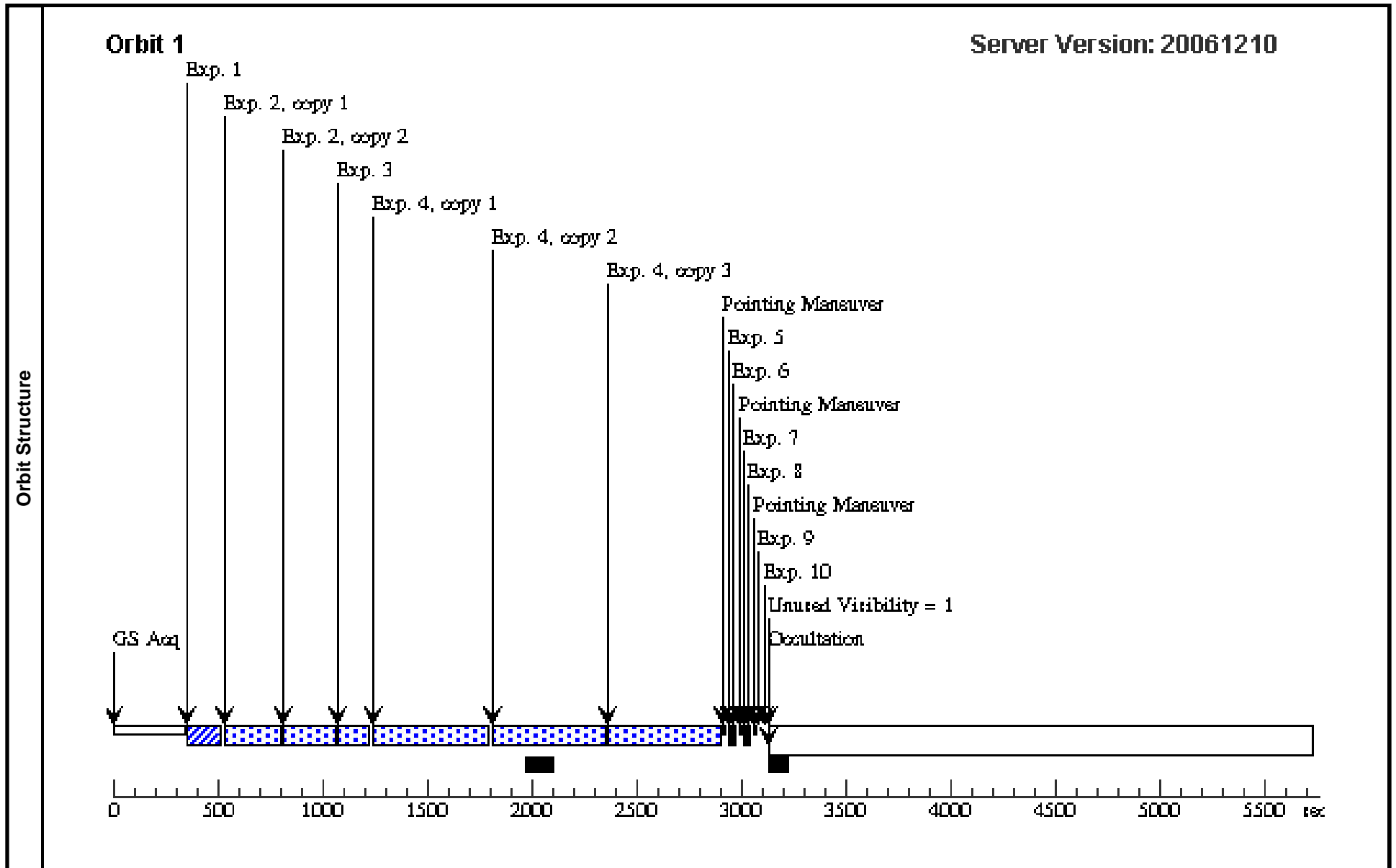
Proposal 10857 - Visit 02 - Are Organics Common in Outer Planetary Systems?

Wed Jan 03 02:50:31 GMT 2007

Visit	Proposal 10857, Visit 02, implementation Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: (none) <i>Comments: HD 31489 (PSF for HD 32297)</i> <i>No orientation constraint</i> <i>Scheduling sequence set on Visit 1.</i>																																																																																																																																		
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Proposal 10857 - Visit 02 - Are Organics Common in Outer Planetary Systems?

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	7	dither 2 F16 0W	(2) HD31489	NIC2, MULTIACCUM, NIC2-CORON	F160W	SAMP-SEQ=SCAM RR; NSAMP=2	POS TARG -0.91,-3. 42		[==>]	[1]	
	<i>Comments: POS-TARG (-0."91, -3."42) to get to approx. pixel (63,166) for 2nd dither position</i>										
	8	dither 2 F20 5W	(2) HD31489	NIC2, MULTIACCUM, NIC2-CORON	F205W	SAMP-SEQ=SCAM RR; NSAMP=2	POS TARG -0.91,-3. 42		[==>]	[1]	
	<i>Comments: POS-TARG (-0."91, -3."42) to get to approx. pixel (63,166) for 2nd dither position</i>										
9	dither 3 F20 5W	(2) HD31489	NIC2, MULTIACCUM, NIC2-CORON	F205W	SAMP-SEQ=SCAM RR; NSAMP=1	POS TARG 1.25,-2. 16		[==>]	[1]		
10	dither 3 F16 0W	(2) HD31489	NIC2, MULTIACCUM, NIC2-CORON	F160W	SAMP-SEQ=SCAM RR; NSAMP=1	POS TARG 1.25,-2. 16		[==>]	[1]		
<i>Comments: pos-targ (1.25, -2.16) to position for 3rd dither</i>											



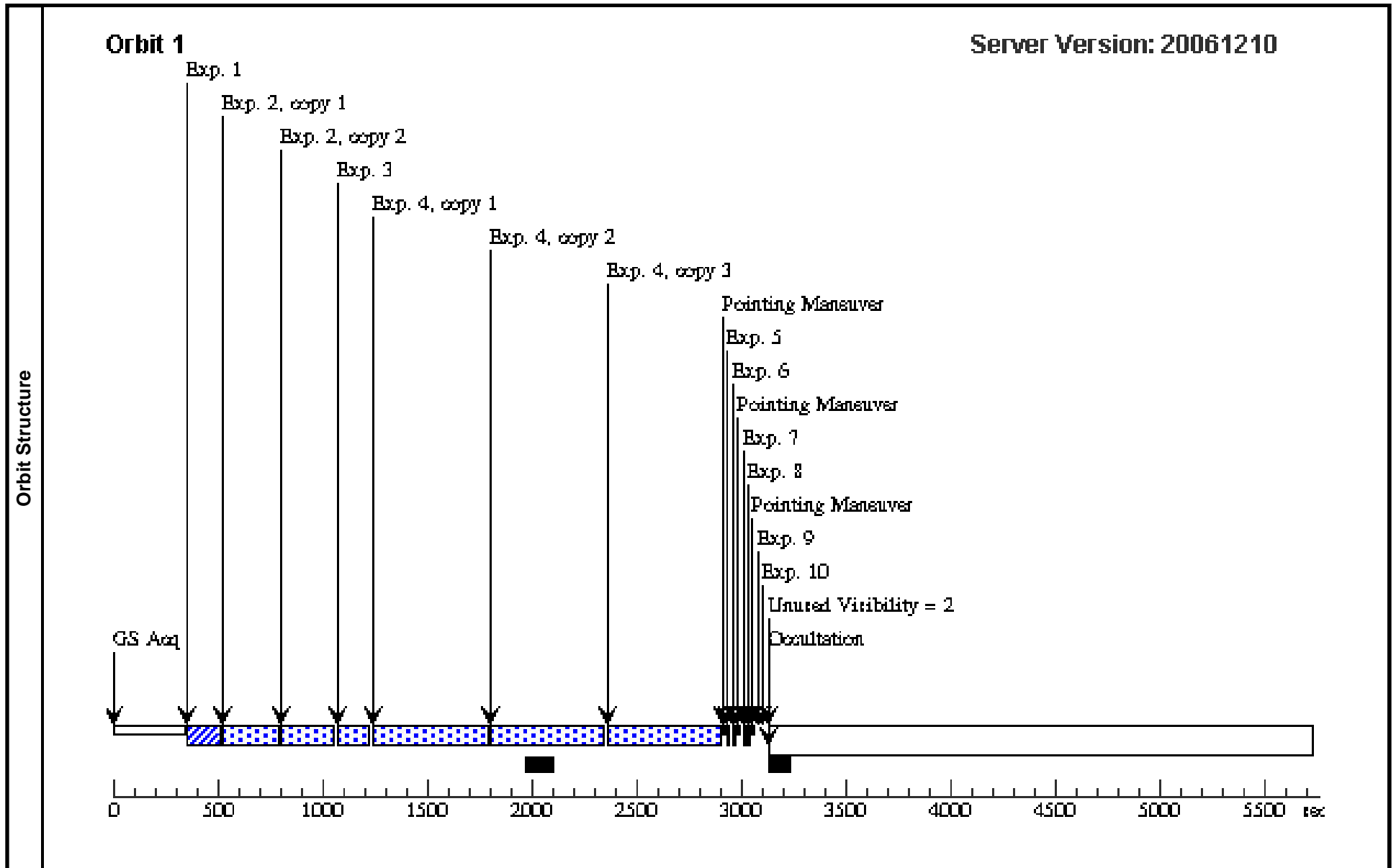
Proposal 10857 - Visit 03 - Are Organics Common in Outer Planetary Systems?

Wed Jan 03 02:50:33 GMT 2007

Visit	Proposal 10857, Visit 03, implementation Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: ORIENT 292.0D TO 298.0 D Comments: 2nd orientation of HD 32297									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	HD32297	RA: 05 02 27.4300 (75.6142917d) Dec: +07 27 39.90 (7.46108d) Equinox: J2000	Proper Motion RA: 0.00045s/yr Proper Motion Dec: -0.02332"/yr Parallax: 0.00892" Epoch of Position: 1991.25	V=8.13 J=7.69, H=7.62, Ks=7.59	Reference Frame: ICRS				
	Comments: Coordinates from Hipparcos catalog									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Acq at F165 M	(1) HD32297	NIC2, ACQ, NIC2-ACQ	F165M		GS ACQ SCENARI O BASE1TNS		0.314 Secs [==>]	[1]
	Comments: Expect 76Ke- in brightest pixel									
2	F160W mult iaccum 1	(1) HD32297	NIC2, MULTIACCUM, NIC2-CORON	F160W	SAMP-SEQ=STEP3 2; NSAMP=15			[==>(Copy 1)] [==>(Copy 2)]	[1]	
	Comments: integration time = 224 s (212 s needed)									
3	F160W mult iaccum 1	(1) HD32297	NIC2, MULTIACCUM, NIC2-CORON	F160W	SAMP-SEQ=STEP3 2; NSAMP=12			[==>]	[1]	
	Comments: integration time = 160 s total time = 224 + 224 + 160 = 608 s									
4	F205W mult iaccum	(1) HD32297	NIC2, MULTIACCUM, NIC2-CORON	F205W	SAMP-SEQ=STEP3 2; NSAMP=24			[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]	
	Comments: integration time = 480 s times 3 iterations = 1440 s									
5	dither 1 F16 0W	(1) HD32297	NIC2, MULTIACCUM, NIC2-CORON	F160W	SAMP-SEQ=SCAM RR; NSAMP=3	POS TARG -2.16,-1.25		[==>]	[1]	
	Comments: minimum integration time of 0.203 s gives S/N POS-TARG (-2.16,-1.25) to get to approx. pixel (47,195) for 1st dither position									
6	dither 1 F20 5W	(1) HD32297	NIC2, MULTIACCUM, NIC2-CORON	F205W	SAMP-SEQ=SCAM RR; NSAMP=3	POS TARG -2.16,-1.25		[==>]	[1]	
	Comments: minimum integration time of 0.203 s gives S/N=602 (46,900 e- in brightest pixel) at F222M POS-TARG (-2.16,-1.25) to get to approx. pixel (47,195) for 1st dither position									
7	dither 2 F16 0W	(1) HD32297	NIC2, MULTIACCUM, NIC2-CORON	F160W	SAMP-SEQ=SCAM RR; NSAMP=3	POS TARG -0.91,-3.42		[==>]	[1]	
	Comments: POS-TARG (-0."91, -3."42) to get to approx. pixel (63,166) for 2nd dither position									

Proposal 10857 - Visit 03 - Are Organics Common in Outer Planetary Systems?

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	8	dither 2 F20 5W	(1) HD32297	NIC2, MULTIACCUM, NIC2-CORON	F205W	SAMP-SEQ=SCAM RR; NSAMP=3	POS TARG -0.91,-3. 42		[==>]	[1]	
	<i>Comments: POS-TARG (-0,"91, -3,"42) to get to approx. pixel (63,166) for 2nd dither position</i>										
	9	dither 3 F20 5W	(1) HD32297	NIC2, MULTIACCUM, NIC2-CORON	F205W	SAMP-SEQ=SCAM RR; NSAMP=3	POS TARG 1.25,-2. 16		[==>]	[1]	
10	dither 3 F16 0W	(1) HD32297	NIC2, MULTIACCUM, NIC2-CORON	F160W	SAMP-SEQ=SCAM RR; NSAMP=3	POS TARG 1.25,-2. 16		[==>]	[1]		
<i>Comments: pos-targ (1.25, -2.16) to position for 3rd dither</i>											



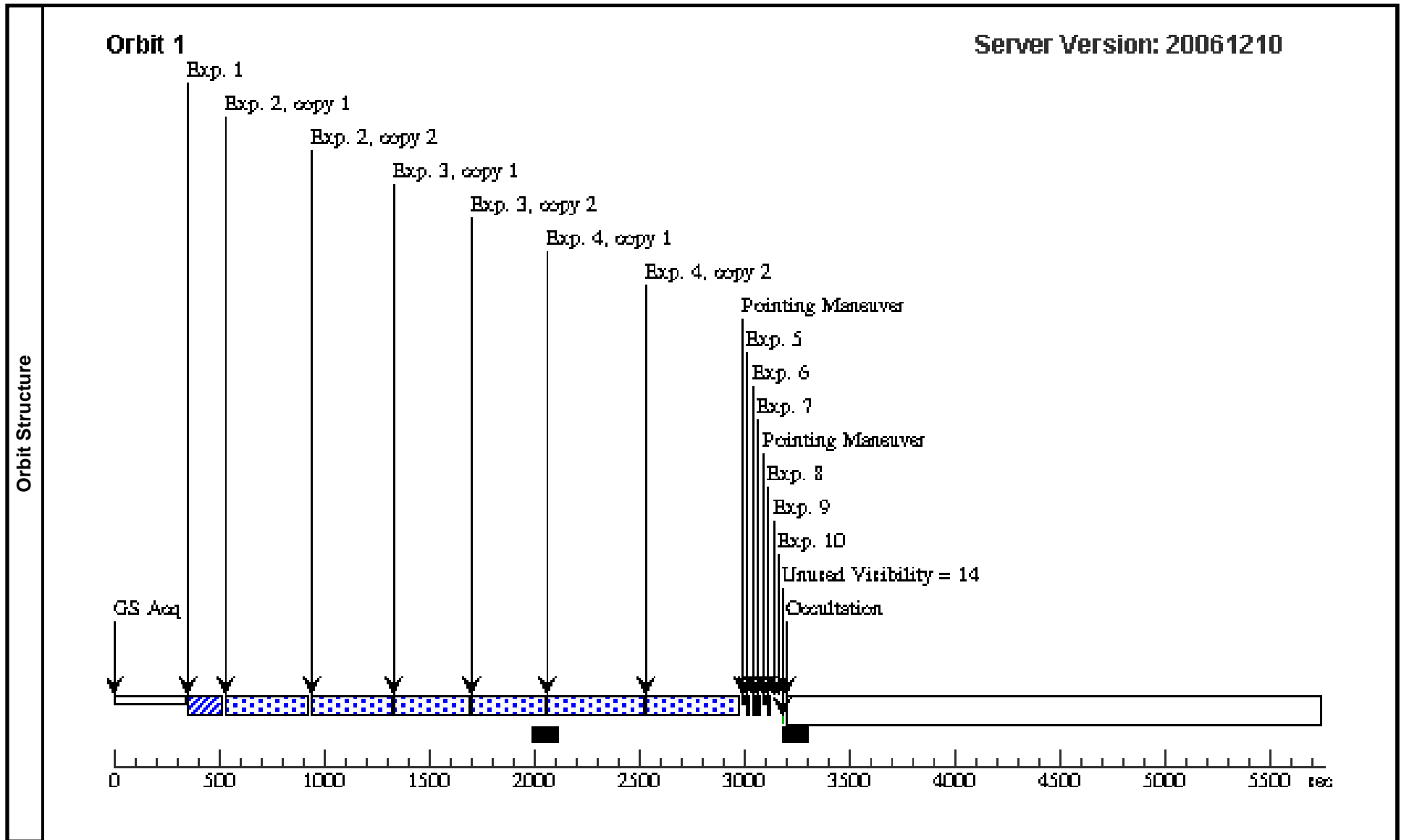
Proposal 10857 - Visit 04 - Are Organics Common in Outer Planetary Systems?

Wed Jan 03 02:50:34 GMT 2007

Visit	Proposal 10857, Visit 04, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: SEQ 04,05,06 WITHIN 2.1 Orbits Comments: HD 181327 1st orientation, first three filters sequence with visits 5 (PSF) and 6 (2nd orientation in these filters) in consecutive orbits (specified as sequence within 2.7 orbits) No absolute orient constraint																																																																																																																																												
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	4	F204M mult iaccum	(3) HD181327	NIC2, MULTIACCUM, NIC2-CORON	F204M	SAMP-SEQ=STEP3 2; NSAMP=21			[==>(Copy 1)] [==>(Copy 2)]	[1]																																																																																																																																			
	5	dither 1 F20 4M	(3) HD181327	NIC2, MULTIACCUM, NIC2-CORON	F204M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG -2.16,-1. 25		[==>]	[1]																																																																																																																																			
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7	dither 1 F18 0M	(3) HD181327	NIC2, MULTIACCUM, NIC2-CORON	F180M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG -2.16,-1. 25		[==>]	[1]																																																																																																																																				
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Proposal 10857 - Visit 04 - Are Organics Common in Outer Planetary Systems?

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		9	dither 2 F17 1M	(3) HD181327	NIC2, MULTIACCUM, NIC2-CORON	F171M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG -0.91,-3. 42		[==>]
<i>Comments: POS-TARG (-0."91, -3."42) to get to approx. pixel (63,166) for 2nd dither position</i>										
	10	dither 2 F18 0M	(3) HD181327	NIC2, MULTIACCUM, NIC2-CORON	F180M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG -0.91,-3. 42		[==>]	[1]
<i>Comments: POS-TARG (-0."91, -3."42) to get to approx. pixel (63,166) for 2nd dither position</i>										



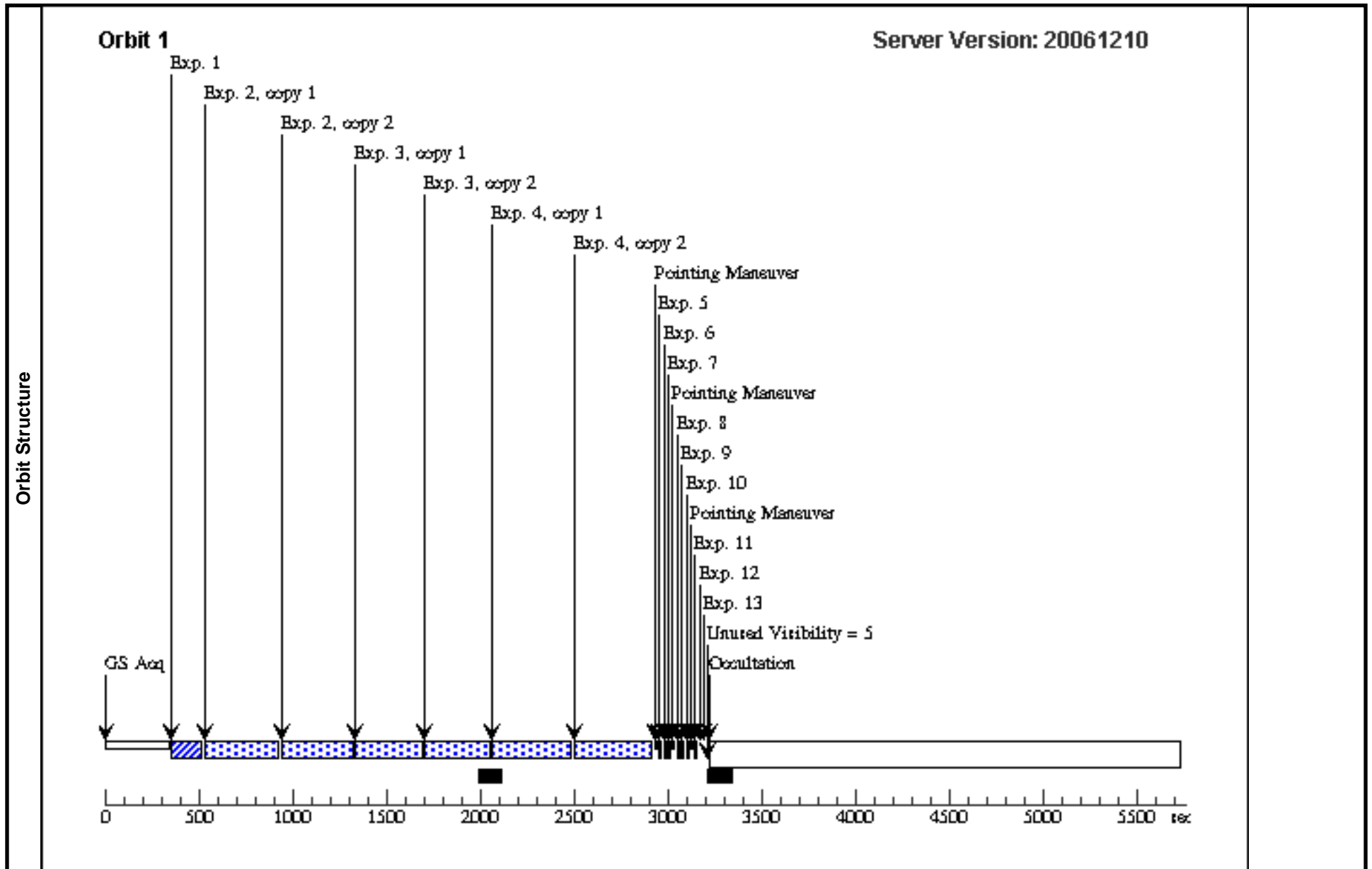
Proposal 10857 - Visit 05 - Are Organics Common in Outer Planetary Systems?

Wed Jan 03 02:50:35 GMT 2007

Visit	Proposal 10857, Visit 05, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: (none) <i>Comments: HD 183028 (PSF for HD 181327), first three filters</i> <i>Sequence specified on Visit 4</i>																																																																																																																																																					
	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>(4)</td> <td>HD183028</td> <td>RA: 19 30 34.5700 (292.6440417d) Dec: -55 06 36.10 (-55.11003d) Equinox: J2000</td> <td>Proper Motion RA: 0.004512s/yr Proper Motion Dec: -0.0133"/yr Parallax: 0.02725" Epoch of Position: 1991.25</td> <td>V=6.3 J=5.45, H=5.29, Ks=5.17</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <i>Comments: Coordinates from Hipparcos Catalog</i>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(4)	HD183028	RA: 19 30 34.5700 (292.6440417d) Dec: -55 06 36.10 (-55.11003d) Equinox: J2000	Proper Motion RA: 0.004512s/yr Proper Motion Dec: -0.0133"/yr Parallax: 0.02725" Epoch of Position: 1991.25	V=6.3 J=5.45, H=5.29, Ks=5.17	Reference Frame: ICRS																																																																																																																															
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																																																																																																																	
(4)	HD183028	RA: 19 30 34.5700 (292.6440417d) Dec: -55 06 36.10 (-55.11003d) Equinox: J2000	Proper Motion RA: 0.004512s/yr Proper Motion Dec: -0.0133"/yr Parallax: 0.02725" Epoch of Position: 1991.25	V=6.3 J=5.45, H=5.29, Ks=5.17	Reference Frame: ICRS																																																																																																																																																	
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>Acq at F187 N</td> <td>(4) HD183028</td> <td>NIC2, ACQ, NIC2-ACQ</td> <td>F187N</td> <td></td> <td>GS ACQ SCENARI O BASE1TNS</td> <td></td> <td>0.59 Secs [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: Expect 75.6Ke- in 0.586 s</i></td> </tr> <tr> <td>2</td> <td>F180M mult iaccum</td> <td>(4) HD183028</td> <td>NIC2, MULTIACCUM, NIC2-CORON</td> <td>F180M</td> <td>SAMP-SEQ=STEP3 2; NSAMP=19</td> <td></td> <td></td> <td>[==>(Copy 1)] [==>(Copy 2)]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>F171M mult iaccum</td> <td>(4) HD183028</td> <td>NIC2, MULTIACCUM, NIC2-CORON</td> <td>F171M</td> <td>SAMP-SEQ=STEP3 2; NSAMP=18</td> <td></td> <td></td> <td>[==>(Copy 1)] [==>(Copy 2)]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>F204M mult iaccum</td> <td>(4) HD183028</td> <td>NIC2, MULTIACCUM, NIC2-CORON</td> <td>F204M</td> <td>SAMP-SEQ=STEP3 2; NSAMP=20</td> <td></td> <td></td> <td>[==>(Copy 1)] [==>(Copy 2)]</td> <td>[1]</td> </tr> <tr> <td>5</td> <td>dither 1 F20 4M</td> <td>(4) HD183028</td> <td>NIC2, MULTIACCUM, NIC2-CORON</td> <td>F204M</td> <td>SAMP-SEQ=SCAM RR; NSAMP=4</td> <td>POS TARG -2.16,-1. 25</td> <td></td> <td>[==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: minimum integration time of 0.203 s gives S/NPOS-TARG (-2.16,-1.25) to get to approx. pixel (47,195) for 1st dither position</i></td> </tr> <tr> <td>6</td> <td>dither 1 F17 1M</td> <td>(4) HD183028</td> <td>NIC2, MULTIACCUM, NIC2-CORON</td> <td>F171M</td> <td>SAMP-SEQ=SCAM RR; NSAMP=4</td> <td>POS TARG -2.16,-1. 25</td> <td></td> <td>[==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: minimum integration time of 0.203 s gives S/NPOS-TARG (-2.16,-1.25) to get to approx. pixel (47,195) for 1st dither position</i></td> </tr> <tr> <td>7</td> <td>dither 1 F18 0M</td> <td>(4) HD183028</td> <td>NIC2, MULTIACCUM, NIC2-CORON</td> <td>F180M</td> <td>SAMP-SEQ=SCAM RR; NSAMP=4</td> <td>POS TARG -2.16,-1. 25</td> <td></td> <td>[==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: minimum integration time of 0.203 s gives S/NPOS-TARG (-2.16,-1.25) to get to approx. pixel (47,195) for 1st dither position</i></td> </tr> <tr> <td>8</td> <td>dither 2 F20 4M</td> <td>(4) HD183028</td> <td>NIC2, MULTIACCUM, NIC2-CORON</td> <td>F204M</td> <td>SAMP-SEQ=SCAM RR; NSAMP=4</td> <td>POS TARG -0.91,-3. 42</td> <td></td> <td>[==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: POS-TARG (-0."91, -3."42) to get to approx. pixel (63,166) for 2nd dither position</i></td> </tr> </tbody> </table>										#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1	Acq at F187 N	(4) HD183028	NIC2, ACQ, NIC2-ACQ	F187N		GS ACQ SCENARI O BASE1TNS		0.59 Secs [==>]	[1]	<i>Comments: Expect 75.6Ke- in 0.586 s</i>										2	F180M mult iaccum	(4) HD183028	NIC2, MULTIACCUM, NIC2-CORON	F180M	SAMP-SEQ=STEP3 2; NSAMP=19			[==>(Copy 1)] [==>(Copy 2)]	[1]	3	F171M mult iaccum	(4) HD183028	NIC2, MULTIACCUM, NIC2-CORON	F171M	SAMP-SEQ=STEP3 2; NSAMP=18			[==>(Copy 1)] [==>(Copy 2)]	[1]	4	F204M mult iaccum	(4) HD183028	NIC2, MULTIACCUM, NIC2-CORON	F204M	SAMP-SEQ=STEP3 2; NSAMP=20			[==>(Copy 1)] [==>(Copy 2)]	[1]	5	dither 1 F20 4M	(4) HD183028	NIC2, MULTIACCUM, NIC2-CORON	F204M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG -2.16,-1. 25		[==>]	[1]	<i>Comments: minimum integration time of 0.203 s gives S/NPOS-TARG (-2.16,-1.25) to get to approx. pixel (47,195) for 1st dither position</i>										6	dither 1 F17 1M	(4) HD183028	NIC2, MULTIACCUM, NIC2-CORON	F171M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG -2.16,-1. 25		[==>]	[1]	<i>Comments: minimum integration time of 0.203 s gives S/NPOS-TARG (-2.16,-1.25) to get to approx. pixel (47,195) for 1st dither position</i>										7	dither 1 F18 0M	(4) HD183028	NIC2, MULTIACCUM, NIC2-CORON	F180M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG -2.16,-1. 25		[==>]	[1]	<i>Comments: minimum integration time of 0.203 s gives S/NPOS-TARG (-2.16,-1.25) to get to approx. pixel (47,195) for 1st dither position</i>										8	dither 2 F20 4M	(4) HD183028	NIC2, MULTIACCUM, NIC2-CORON	F204M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG -0.91,-3. 42		[==>]	[1]	<i>Comments: POS-TARG (-0."91, -3."42) to get to approx. pixel (63,166) for 2nd dither position</i>									
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	4	F204M mult iaccum	(4) HD183028	NIC2, MULTIACCUM, NIC2-CORON	F204M	SAMP-SEQ=STEP3 2; NSAMP=20			[==>(Copy 1)] [==>(Copy 2)]	[1]																																																																																																																																												
	5	dither 1 F20 4M	(4) HD183028	NIC2, MULTIACCUM, NIC2-CORON	F204M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG -2.16,-1. 25		[==>]	[1]																																																																																																																																												
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8	dither 2 F20 4M	(4) HD183028	NIC2, MULTIACCUM, NIC2-CORON	F204M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG -0.91,-3. 42		[==>]	[1]																																																																																																																																													
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Proposal 10857 - Visit 05 - Are Organics Common in Outer Planetary Systems?

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	9	dither 2 F17 1M	(4) HD183028	NIC2, MULTIACCUM, NIC2-CORON	F171M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG -0.91,-3. 42		[==>]	[1]	
	<i>Comments: POS-TARG (-0."91, -3."42) to get to approx. pixel (63,166) for 2nd dither position</i>										
	10	dither 2 F18 0M	(4) HD183028	NIC2, MULTIACCUM, NIC2-CORON	F180M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG -0.91,-3. 42		[==>]	[1]	
	<i>Comments: POS-TARG (-0."91, -3."42) to get to approx. pixel (63,166) for 2nd dither position</i>										
	11	dither 3 F20 4M	(4) HD183028	NIC2, MULTIACCUM, NIC2-CORON	F204M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG 1.25,-2. 16		[==>]	[1]	
12	dither 3 F17 1M	(4) HD183028	NIC2, MULTIACCUM, NIC2-CORON	F171M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG 1.25,-2. 16		[==>]	[1]		
13	dither 3 F18 0M	(4) HD183028	NIC2, MULTIACCUM, NIC2-CORON	F180M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG 1.25,-2. 16		[==>]	[1]		



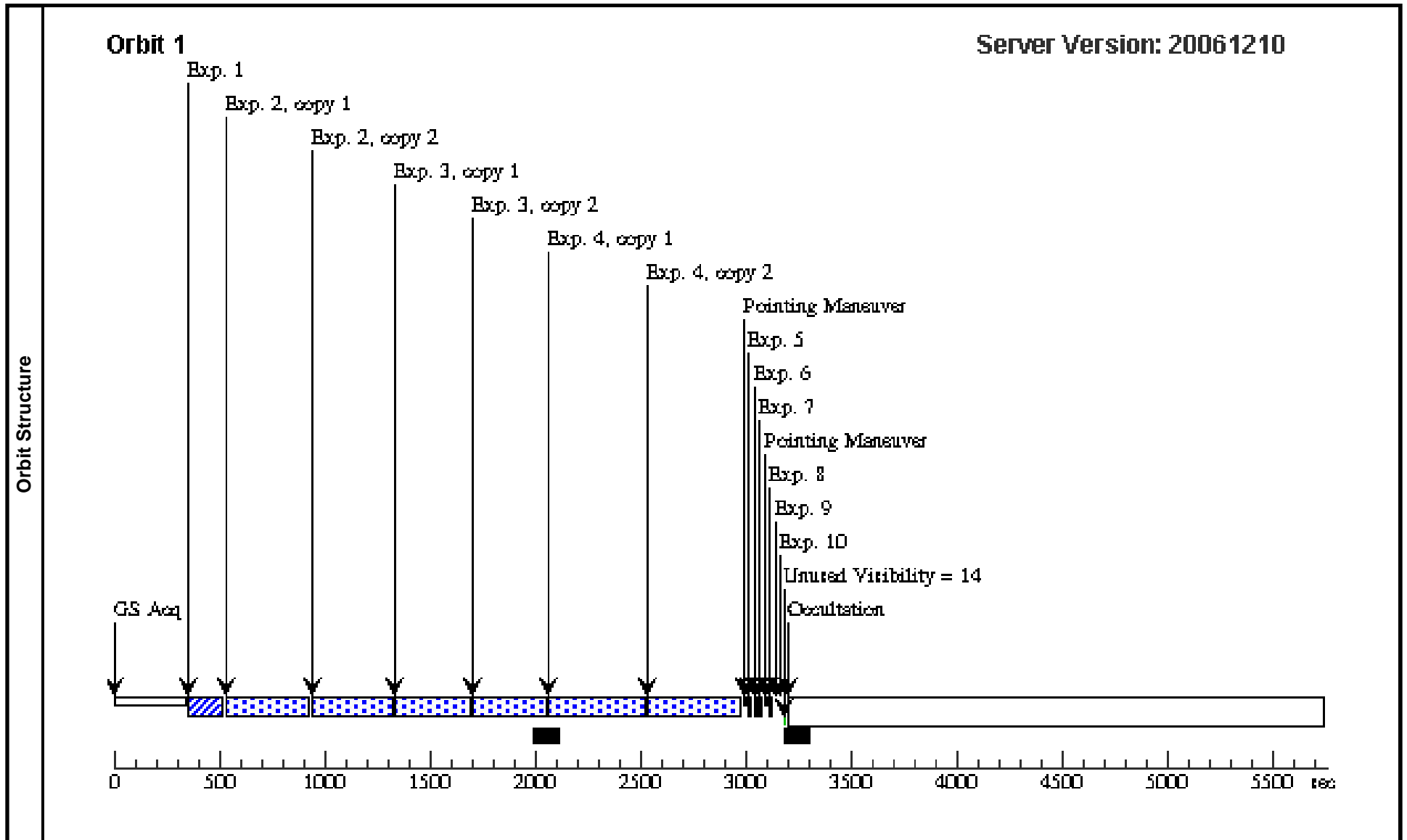
Proposal 10857 - Visit 06 - Are Organics Common in Outer Planetary Systems?

Wed Jan 03 02:50:37 GMT 2007

Visit	Proposal 10857, Visit 06, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: ORIENT 29.0D TO 29.9D FROM 04 Comments: HD 181327 2nd orientation (30 deg from visit 4), first three filters sequence constraint specified on visit 4. Orientation constraint is 30 deg from visit 4												
	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>HD181327</td> <td>RA: 19 22 58.9200 (290.7455000d) Dec: -54 32 16.30 (-54.53786d) Equinox: J2000</td> <td>Proper Motion RA: 0.00274s/yr Proper Motion Dec: -0.08177"/yr Parallax: 0.01977" Epoch of Position: 1991.25</td> <td>V=7.04 J=6.2, H=5.98, Ks=5.91</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> Comments: Coordinates from Hipparcos Catalog	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(3)	HD181327	RA: 19 22 58.9200 (290.7455000d) Dec: -54 32 16.30 (-54.53786d) Equinox: J2000	Proper Motion RA: 0.00274s/yr Proper Motion Dec: -0.08177"/yr Parallax: 0.01977" Epoch of Position: 1991.25	V=7.04 J=6.2, H=5.98, Ks=5.91
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous								
(3)	HD181327	RA: 19 22 58.9200 (290.7455000d) Dec: -54 32 16.30 (-54.53786d) Equinox: J2000	Proper Motion RA: 0.00274s/yr Proper Motion Dec: -0.08177"/yr Parallax: 0.01977" Epoch of Position: 1991.25	V=7.04 J=6.2, H=5.98, Ks=5.91	Reference Frame: ICRS								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time[Actual Dur.]	Orbit			
	1	Acq at F180 M	(3) HD181327	NIC2, ACQ, NIC2-ACQ	F180M		GS ACQ SCENARI O BASE1TNS		0.25 Secs [==>]	[1]			
	2	F180M mult iaccum	(3) HD181327	NIC2, MULTIACCUM, NIC2-CORON	F180M	SAMP-SEQ=STEP3 2; NSAMP=19			[==>(Copy 1)] [==>(Copy 2)]	[1]			
	3	F171M mult iaccum	(3) HD181327	NIC2, MULTIACCUM, NIC2-CORON	F171M	SAMP-SEQ=STEP3 2; NSAMP=18			[==>(Copy 1)] [==>(Copy 2)]	[1]			
	4	F204M mult iaccum	(3) HD181327	NIC2, MULTIACCUM, NIC2-CORON	F204M	SAMP-SEQ=STEP3 2; NSAMP=21			[==>(Copy 1)] [==>(Copy 2)]	[1]			
	5	dither 1 F20 4M	(3) HD181327	NIC2, MULTIACCUM, NIC2-CORON	F204M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG -2.16,-1.25		[==>]	[1]			
	Comments: minimum integration time of 0.203 s gives S/NPOS-TARG (-2.16,-1.25) to get to approx. pixel (47,195) for 1st dither position												
	6	dither 1 F17 1M	(3) HD181327	NIC2, MULTIACCUM, NIC2-CORON	F171M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG -2.16,-1.25		[==>]	[1]			
	Comments: minimum integration time of 0.203 s gives S/NPOS-TARG (-2.16,-1.25) to get to approx. pixel (47,195) for 1st dither position												
7	dither 1 F18 0M	(3) HD181327	NIC2, MULTIACCUM, NIC2-CORON	F180M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG -2.16,-1.25		[==>]	[1]				
Comments: minimum integration time of 0.203 s gives S/NPOS-TARG (-2.16,-1.25) to get to approx. pixel (47,195) for 1st dither position													
8	dither 2 F20 4M	(3) HD181327	NIC2, MULTIACCUM, NIC2-CORON	F204M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG -0.91,-3.42		[==>]	[1]				
Comments: POS-TARG (-0."91, -3."42) to get to approx. pixel (63,166) for 2nd dither position													

Proposal 10857 - Visit 06 - Are Organics Common in Outer Planetary Systems?

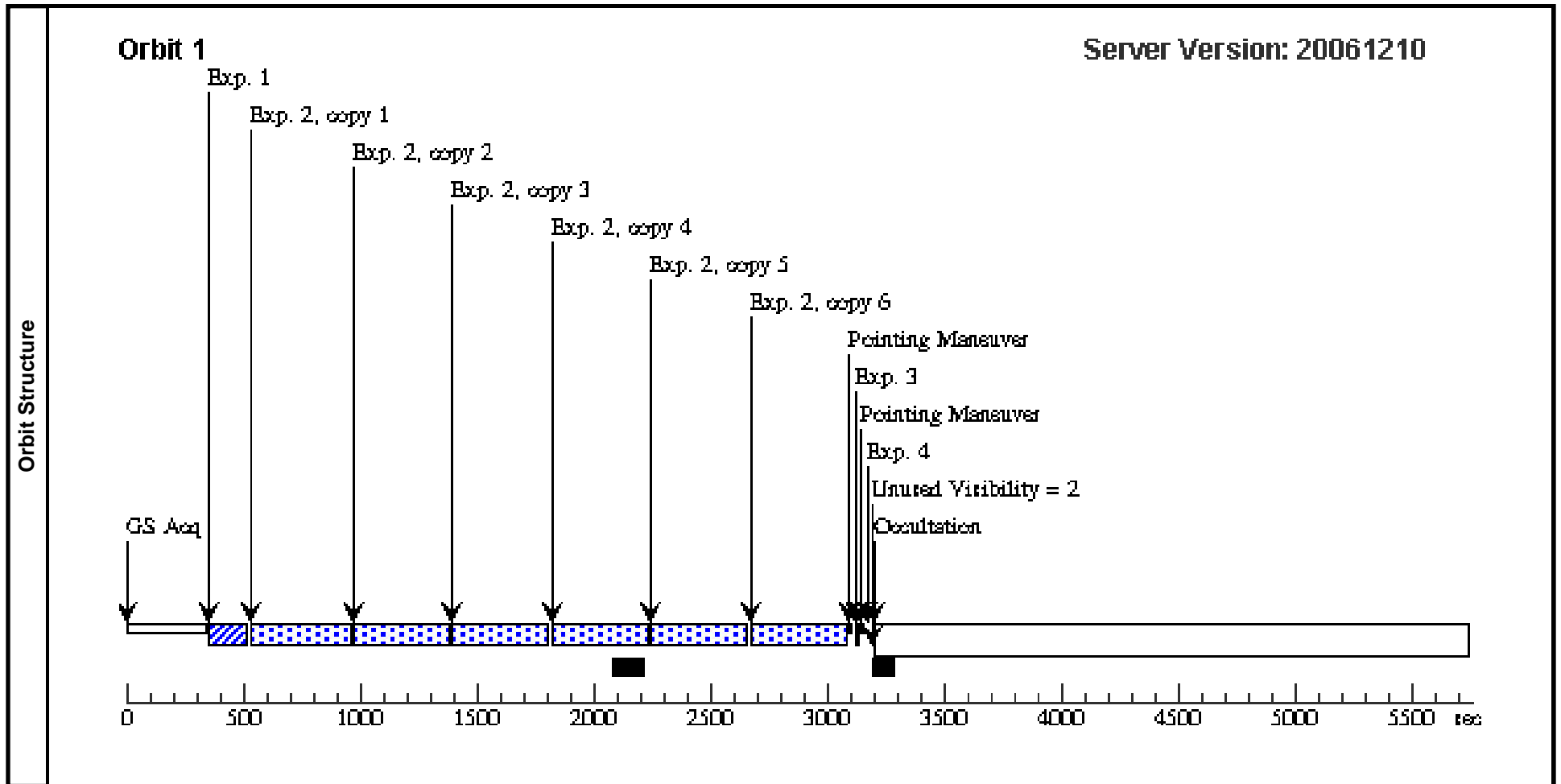
Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		9	dither 2 F17 1M	(3) HD181327	NIC2, MULTIACCUM, NIC2-CORON	F171M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG -0.91,-3. 42		[==>]
<i>Comments: POS-TARG (-0."91, -3."42) to get to approx. pixel (63,166) for 2nd dither position</i>										
	10	dither 2 F18 0M	(3) HD181327	NIC2, MULTIACCUM, NIC2-CORON	F180M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG -0.91,-3. 42		[==>]	[1]
<i>Comments: POS-TARG (-0."91, -3."42) to get to approx. pixel (63,166) for 2nd dither position</i>										



Proposal 10857 - Visit 14 - Are Organics Common in Outer Planetary Systems?

Wed Jan 03 02:50:38 GMT 2007

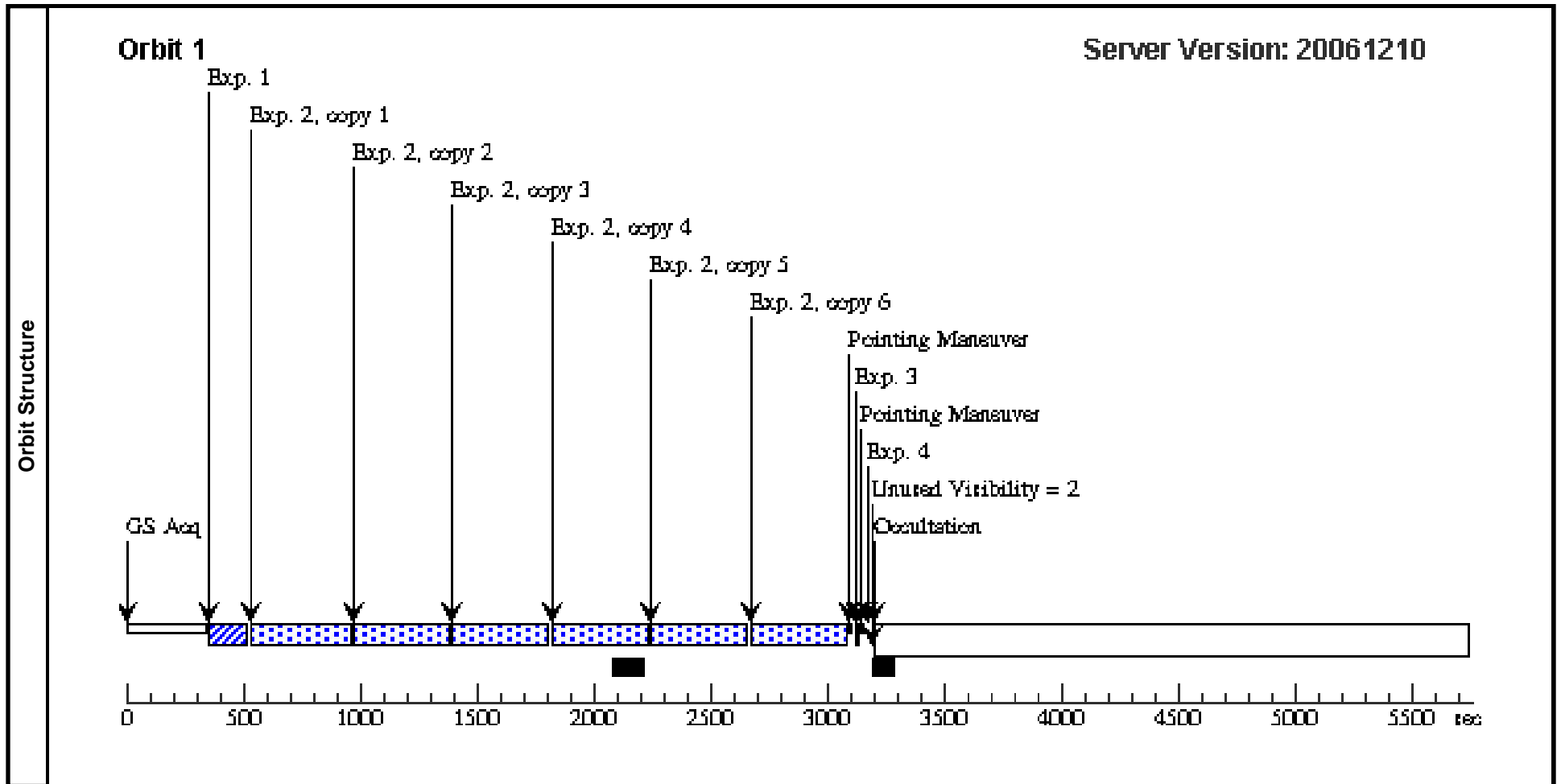
Visit	Proposal 10857, Visit 14, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: ORIENT 0.0D TO 6.0D FROM 04; SEQ 14,15,16 WITHIN 2.1 Orbits Comments: HD 181327 1st orientation at F222M sequence with visits 15 (PSF) and 16 (2nd orientation at F222) in consecutive orbits (specified as sequence within 2.7 orbits) I also specified an "ORIENT FROM" requirement relative to Visit 4 (the first orientation on HD 181327 in the other filters). The purpose of this is to keep the approximately the same portions of the disk free from diffraction spike contamination to permit the best possible disk color measurement free from systematics. Let me know if this poses a scheduling problem. I'd actually like the orientations of 4 and 14, and 6 and 16 to be as close as possible, but I hesitated to put a very restrictive orientation requirement.									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(3)	HD181327	RA: 19 22 58.9200 (290.7455000d) Dec: -54 32 16.30 (-54.53786d) Equinox: J2000	Proper Motion RA: 0.00274s/yr Proper Motion Dec: -0.08177"/yr Parallax: 0.01977" Epoch of Position: 1991.25	V=7.04 J=6.2, H=5.98, Ks=5.91	Reference Frame: ICRS				
	Comments: Coordinates from Hipparcos Catalog									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Acq at F180 M	(3) HD181327	NIC2, ACQ, NIC2-ACQ	F180M		GS ACQ SCENARI O BASE1TNS		0.25 Secs [==>]	[1]
	2	F222M Mult iaccum 1	(3) HD181327	NIC2, MULTIACCUM, NIC2-CORON	F222M	SAMP-SEQ=STEP3 2; NSAMP=20			[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)]	[1]
	3	dither 2 F22 2M	(3) HD181327	NIC2, MULTIACCUM, NIC2-CORON	F222M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG -0.91,-3. 42		[==>]	[1]
	Comments: POS-TARG (-0,"91, -3,"42) to get to approx. pixel (63,166) for 2nd dither position									
4	dither 1 F22 2M	(3) HD181327	NIC2, MULTIACCUM, NIC2-CORON	F222M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG -2.16,-1. 25		[==>]	[1]	
Comments: minimum integration time of 0.203 s gives S/NPOS-TARG (-2.16,-1.25) to get to approx. pixel (47,195) for 1st dither position										



Proposal 10857 - Visit 15 - Are Organics Common in Outer Planetary Systems?

Wed Jan 03 02:50:39 GMT 2007

Visit	Proposal 10857, Visit 15, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: (none) <i>Comments: HD 183028 (PSF for HD 181327) at F222M</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous		
(3)		HD181327	RA: 19 22 58.9200 (290.7455000d) Dec: -54 32 16.30 (-54.53786d) Equinox: J2000	Proper Motion RA: 0.00274s/yr Proper Motion Dec: -0.08177"/yr Parallax: 0.01977" Epoch of Position: 1991.25	V=7.04 J=6.2, H=5.98, Ks=5.91	Reference Frame: ICRS				
<i>Comments: Coordinates from Hipparcos Catalog</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Acq at F187 N	(3) HD181327	NIC2, ACQ, NIC2-ACQ	F187N		GS ACQ SCENARI O BASE1TNS		0.59 Secs [==>]	[1]
	2	F222M Mult iaccum 1	(3) HD181327	NIC2, MULTIACCUM, NIC2-CORON	F222M	SAMP-SEQ=STEP3 2; NSAMP=20			[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)]	[1]
	3	dither 2 F22 2M	(3) HD181327	NIC2, MULTIACCUM, NIC2-CORON	F222M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG -0.91,-3. 42		[==>]	[1]
	<i>Comments: POS-TARG (-0."91, -3."42) to get to approx. pixel (63,166) for 2nd dither position</i>									
4	dither 1 F22 2M	(3) HD181327	NIC2, MULTIACCUM, NIC2-CORON	F222M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG -2.16,-1. 25		[==>]	[1]	
<i>Comments: minimum integration time of 0.203 s gives S/NPOS-TARG (-2.16,-1.25) to get to approx. pixel (47,195) for 1st dither position</i>										



Proposal 10857 - Visit 16 - Are Organics Common in Outer Planetary Systems?

Wed Jan 03 02:50:39 GMT 2007

Visit	Proposal 10857, Visit 16, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: ORIENT 29.0D TO 29.9D FROM 14 Comments: HD 181327 2nd orientation at F222M									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(3)	HD181327	RA: 19 22 58.9200 (290.7455000d) Dec: -54 32 16.30 (-54.53786d) Equinox: J2000	Proper Motion RA: 0.00274s/yr Proper Motion Dec: -0.08177"/yr Parallax: 0.01977" Epoch of Position: 1991.25	V=7.04 J=6.2, H=5.98, Ks=5.91	Reference Frame: ICRS				
	Comments: Coordinates from Hipparcos Catalog									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Acq at F180 M	(3) HD181327	NIC2, ACQ, NIC2-ACQ	F180M		GS ACQ SCENARI O BASE1TNS		0.25 Secs [==>]	[1]
	2	F222M Mult iaccum 1	(3) HD181327	NIC2, MULTIACCUM, NIC2-CORON	F222M	SAMP-SEQ=STEP3 2; NSAMP=20			[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)]	[1]
	3	dither 2 F22 2M	(3) HD181327	NIC2, MULTIACCUM, NIC2-CORON	F222M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG -0.91,-3. 42		[==>]	[1]
	Comments: POS-TARG (-0."91, -3."42) to get to approx. pixel (63,166) for 2nd dither position									
4	dither 1 F22 2M	(3) HD181327	NIC2, MULTIACCUM, NIC2-CORON	F222M	SAMP-SEQ=SCAM RR; NSAMP=4	POS TARG -2.16,-1. 25		[==>]	[1]	
Comments: minimum integration time of 0.203 s gives S/NPOS-TARG (-2.16,-1.25) to get to approx. pixel (47,195) for 1st dither position										

