



11972 - Investigating the Early Solar System with Distant Comet Nuclei

Cycle: 16, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Karen J. Meech (PI)	University of Hawaii	meech@ifa.hawaii.edu
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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
11	(1) C2001Q1-NEAT	WFPC2	5	25-Mar-2009 21:34:58.0	yes
12	(1) C2001Q1-NEAT	WFPC2	1	25-Mar-2009 21:35:06.0	yes
13	(1) C2001Q1-NEAT	WFPC2	1	25-Mar-2009 21:35:09.0	yes
14	(1) C2001Q1-NEAT	WFPC2	1	25-Mar-2009 21:35:11.0	yes
15	(1) C2001Q1-NEAT	WFPC2	1	25-Mar-2009 21:35:13.0	yes
16	(1) C2001Q1-NEAT	WFPC2	1	25-Mar-2009 21:35:15.0	yes
21	(2) C2003O1-LINEAR	WFPC2	5	25-Mar-2009 21:35:24.0	yes
22	(2) C2003O1-LINEAR	WFPC2	5	25-Mar-2009 21:35:34.0	yes
31	(3) C1999J2-SKIFF	WFPC2	5	25-Mar-2009 21:35:43.0	yes
32	(3) C1999J2-SKIFF	WFPC2	5	25-Mar-2009 21:35:55.0	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>
33	(3) C1999J2-SKIFF	WFPC2	5	25-Mar-2009 21:36:03.0	yes
41	(4) C2001G1-LONEOS	WFPC2	5	25-Mar-2009 21:36:11.0	yes
42	(4) C2001G1-LONEOS	WFPC2	5	25-Mar-2009 21:36:22.0	yes
51	(5) C2003A2-GLEASON	WFPC2	5	25-Mar-2009 21:36:31.0	yes
52	(5) C2003A2-GLEASON	WFPC2	5	25-Mar-2009 21:36:39.0	yes
61	(6) C1995O1-HALE-BOPP	WFPC2	5	25-Mar-2009 21:36:50.0	yes
71	(7) C2002VQ94-LINEAR	WFPC2	5	25-Mar-2009 21:36:58.0	yes
72	(7) C2002VQ94-LINEAR	WFPC2	5	25-Mar-2009 21:37:06.0	yes
81	(8) C1997BA6-SPACEWATCH	WFPC2	5	25-Mar-2009 21:37:17.0	yes
82	(8) C1997BA6-SPACEWATCH	WFPC2	5	25-Mar-2009 21:37:25.0	yes
83	(8) C1997BA6-SPACEWATCH	WFPC2	5	25-Mar-2009 21:37:33.0	yes

85 Total Orbits Used

ABSTRACT

We propose 85 orbits of imaging observations with the WFPC2 to get nucleus size estimates for 8 well observed dynamically new and long-period comets at large distances from the sun when their activity levels are low. This will increase the sample of these nucleus sizes by nearly 50%, but will more than double the selection of comets for which we can run thermal models. Small icy bodies are the best preserved remnants of planet formation, and we have recently found that observationally constrained thermal models can distinguish differences in microphysical properties of comet nuclei. The new HST data will enable the first exploration of physical conditions in different regions of the early solar nebula.

OBSERVING DESCRIPTION

This program is for deep imaging of 8 comets, to get their nucleus sizes.

Science the size distribution of Long Period and Dynamically New Comets is very poorly known. With these data, combined with other observations we already have, we will be able to run detailed thermal models to understand their structure.

Observations All the observations are in F606W to go as deep as possible on comets. Each comet has 1, 2 or 3 visits of 5 orbits each (for "bright", medium and faint comets). Each orbit has 5 exposures of 500s or 600s (so to pack the orbit), with no offset, no CRspit. Dithering offsets are applied between each orbit.

It is not critical that the various visits on a comet be taken one after the other. Ideally: we would love a few days between each visits on a comet, but this is a very loose constraint.

REAL TIME JUSTIFICATION

N/A

CALIBRATION JUSTIFICATION

N/A

ADDITIONAL COMMENTS

Remark for quality control: The comets are so faint that we do not expect the nuclei to be visible on individual frames. In some cases (C2002VQ94, C1995O1) there should be a coma visible on the individual frames, but for the others, they will appear as "empty" fields.

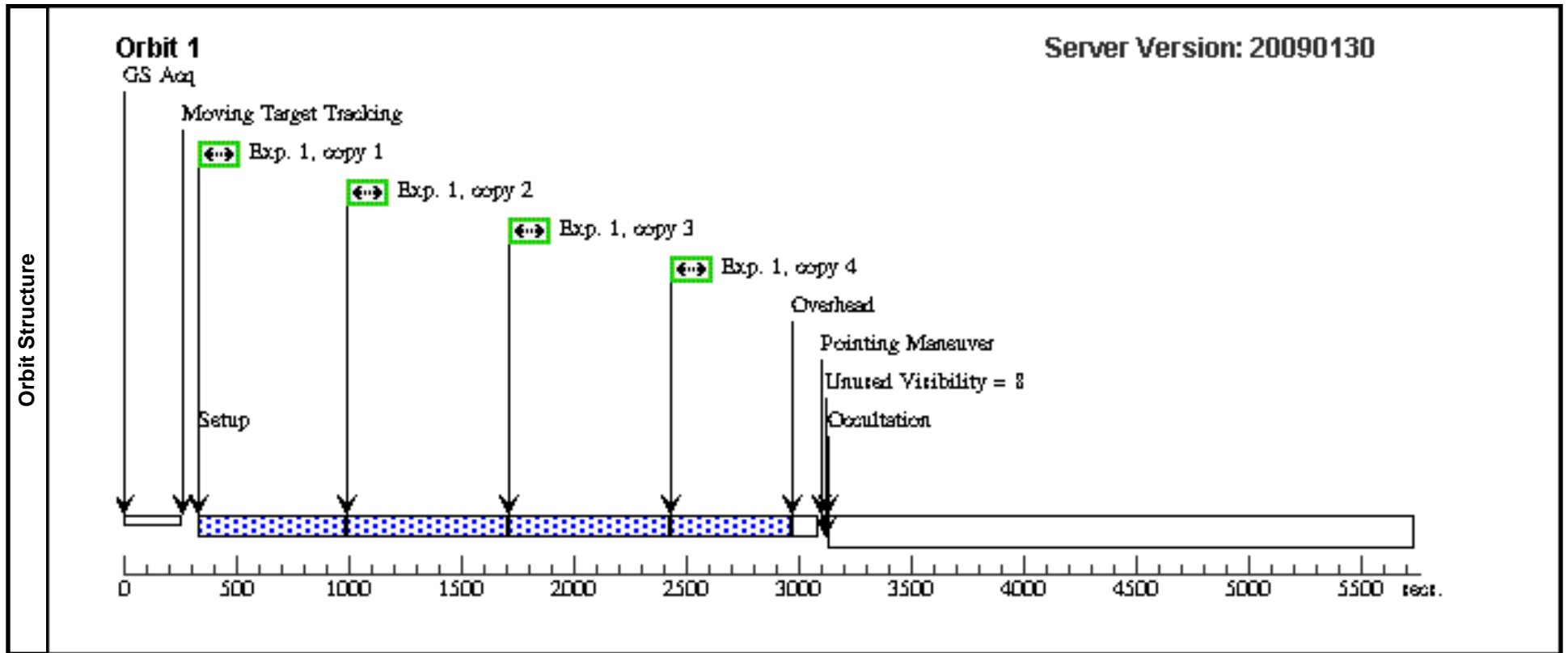
Proposal 11972 - Visit 11 - Investigating the Early Solar System with Distant Comet Nuclei

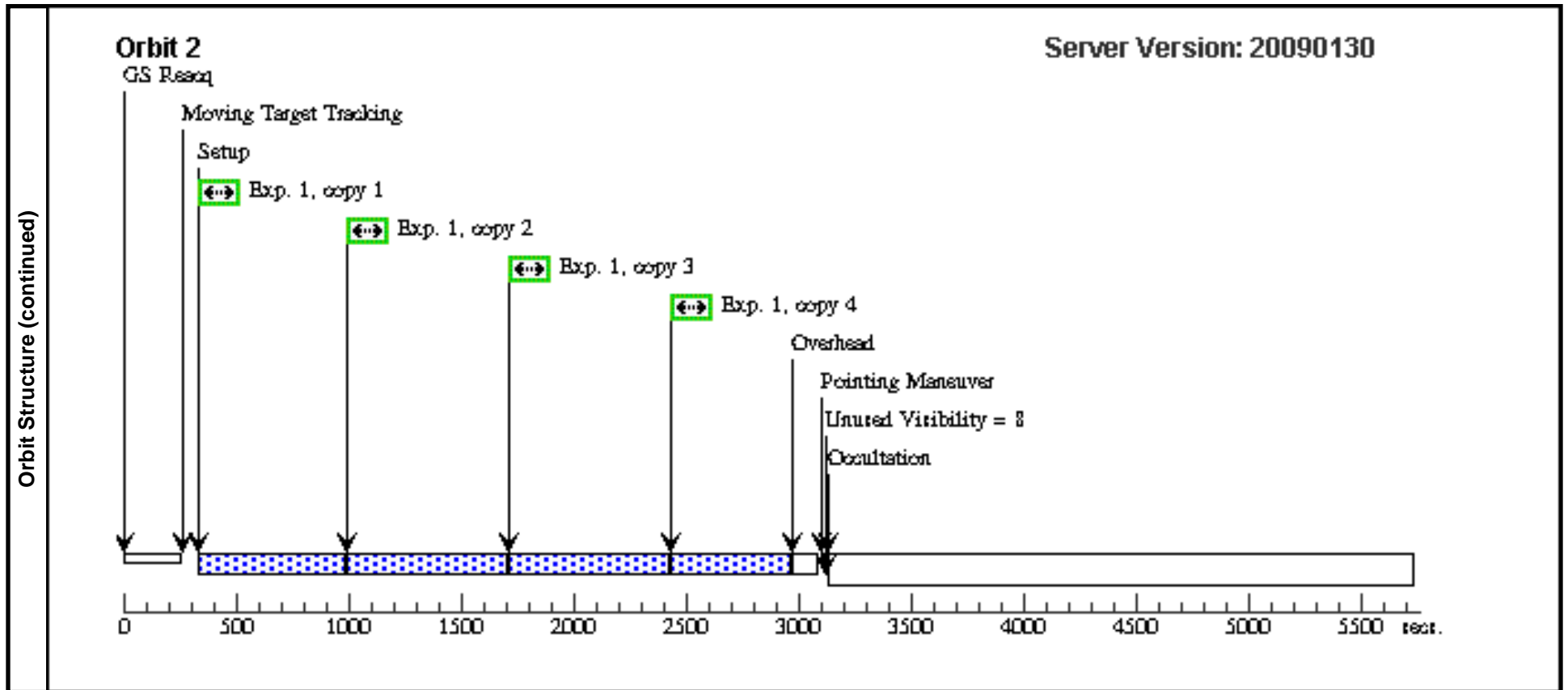
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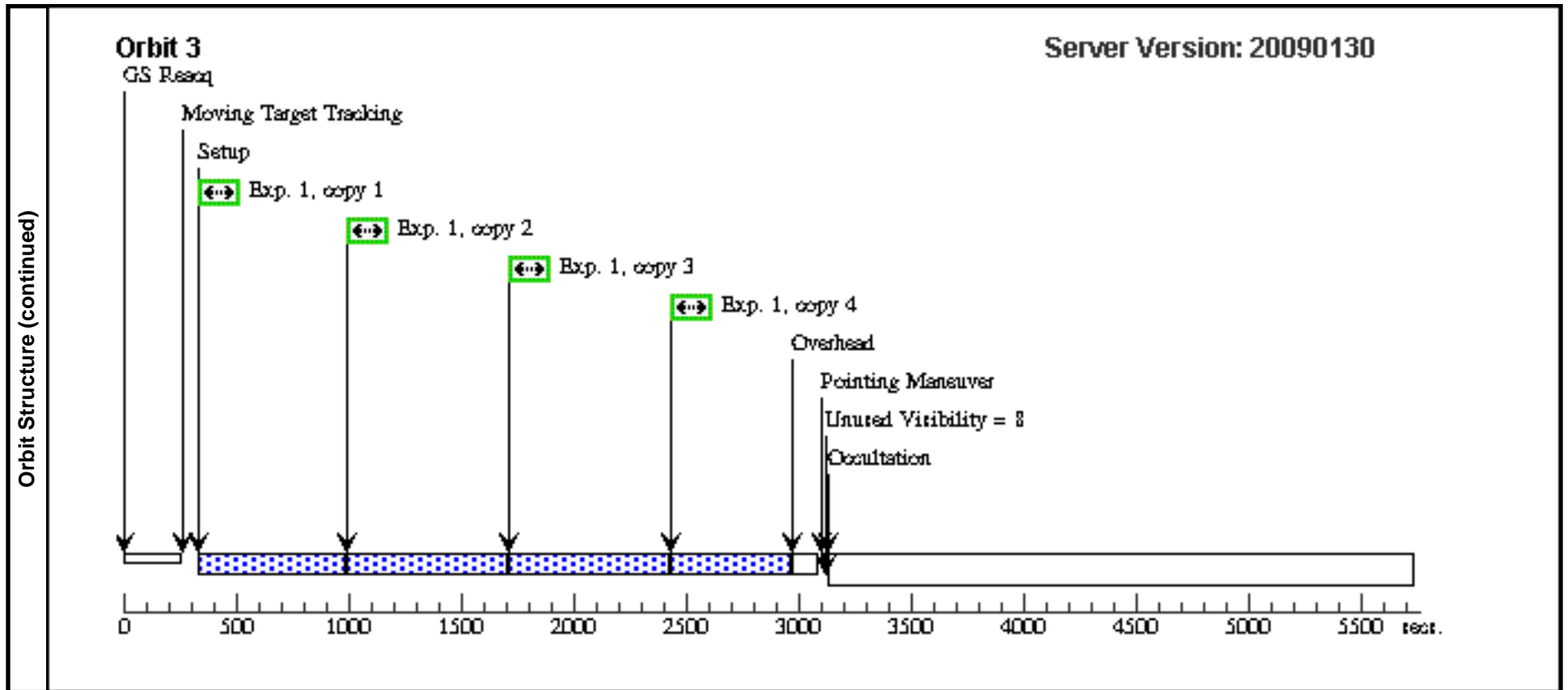
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(1)		Pattern Type=SPIRAL Purpose=DITHER Number Of Points=5 Point Spacing=.559017 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=true			(1)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
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Comments: Acquisition uncertainty is the MAX 3-sigma error in the plane of sky over the next 6 months. Acquisition Uncertainty: 31 Arcsec Ephemeris Uncertainty: 10000 Secs							

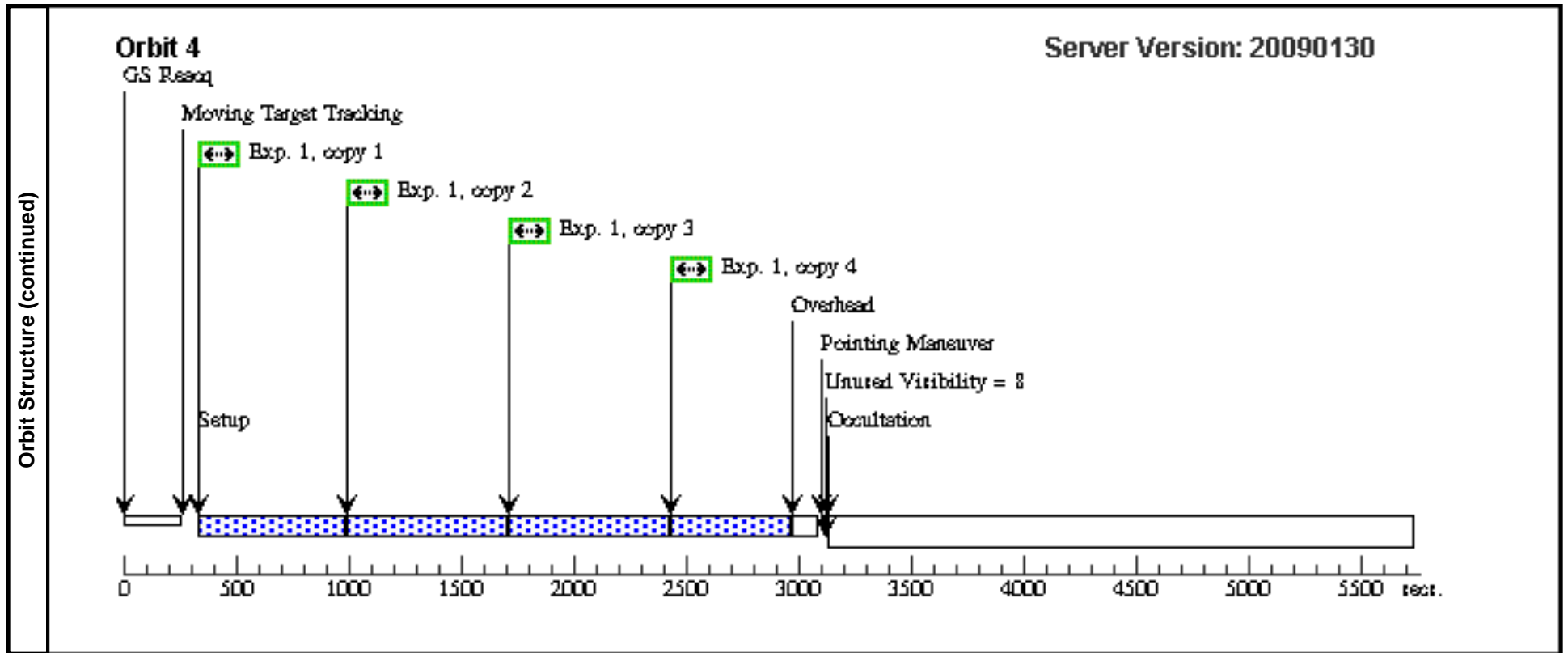
Proposal 11972 - Visit 11 - Investigating the Early Solar System with Distant Comet Nuclei

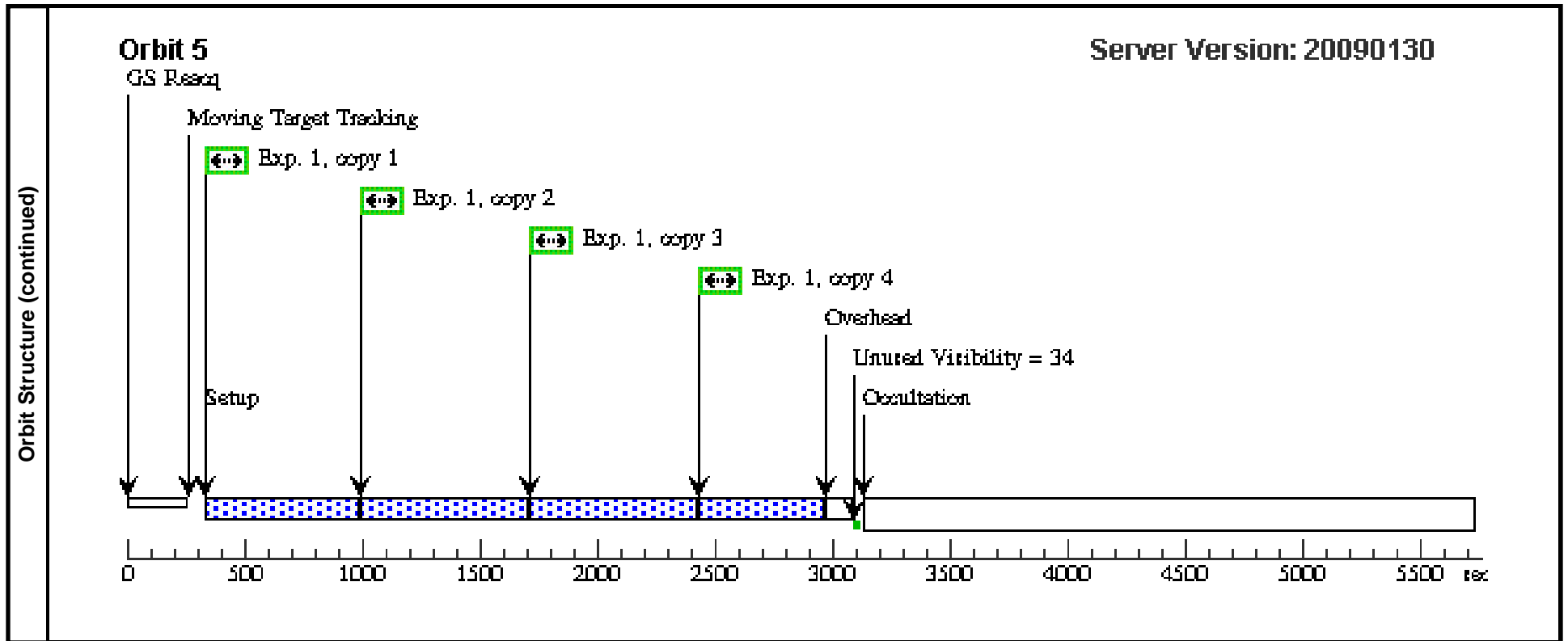
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								[==>500.0 Secs (Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>500.0 Secs (Pattern 1, Copy 4)]	[1]
								[==>500 Secs (Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>500.0 Secs (Pattern 2, Copy 4)]	[2]
								[==>500 Secs (Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>500.0 Secs (Pattern 3, Copy 4)]	[3]
								[==>500 Secs (Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>500.0 Secs (Pattern 4, Copy 4)]	[4]
							[==>500 Secs (Pattern 5, Copy 1)] [==>(Pattern 5, Copy 2)] [==>(Pattern 5, Copy 3)] [==>500.0 Secs (Pattern 5, Copy 4)]	[5]	







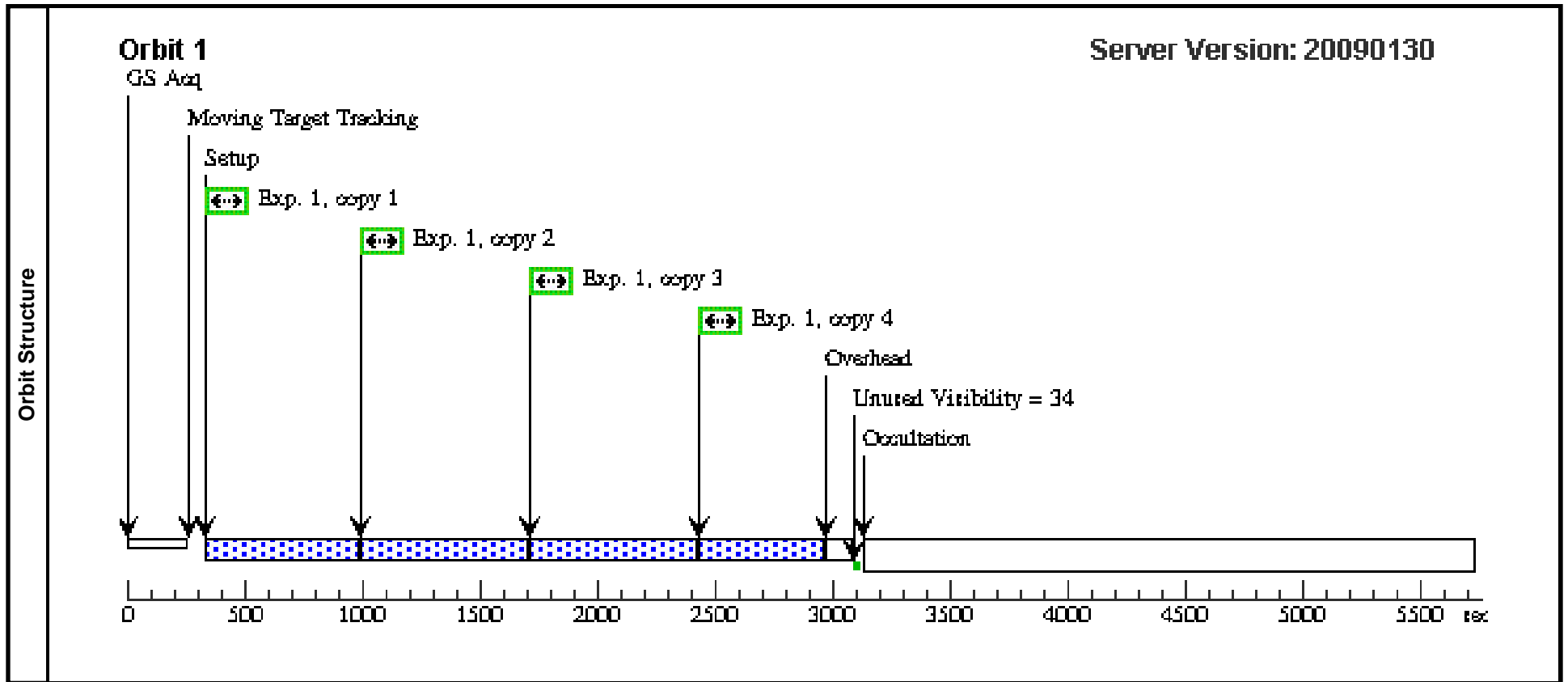




Proposal 11972 - Visit 12 - Investigating the Early Solar System with Distant Comet Nuclei

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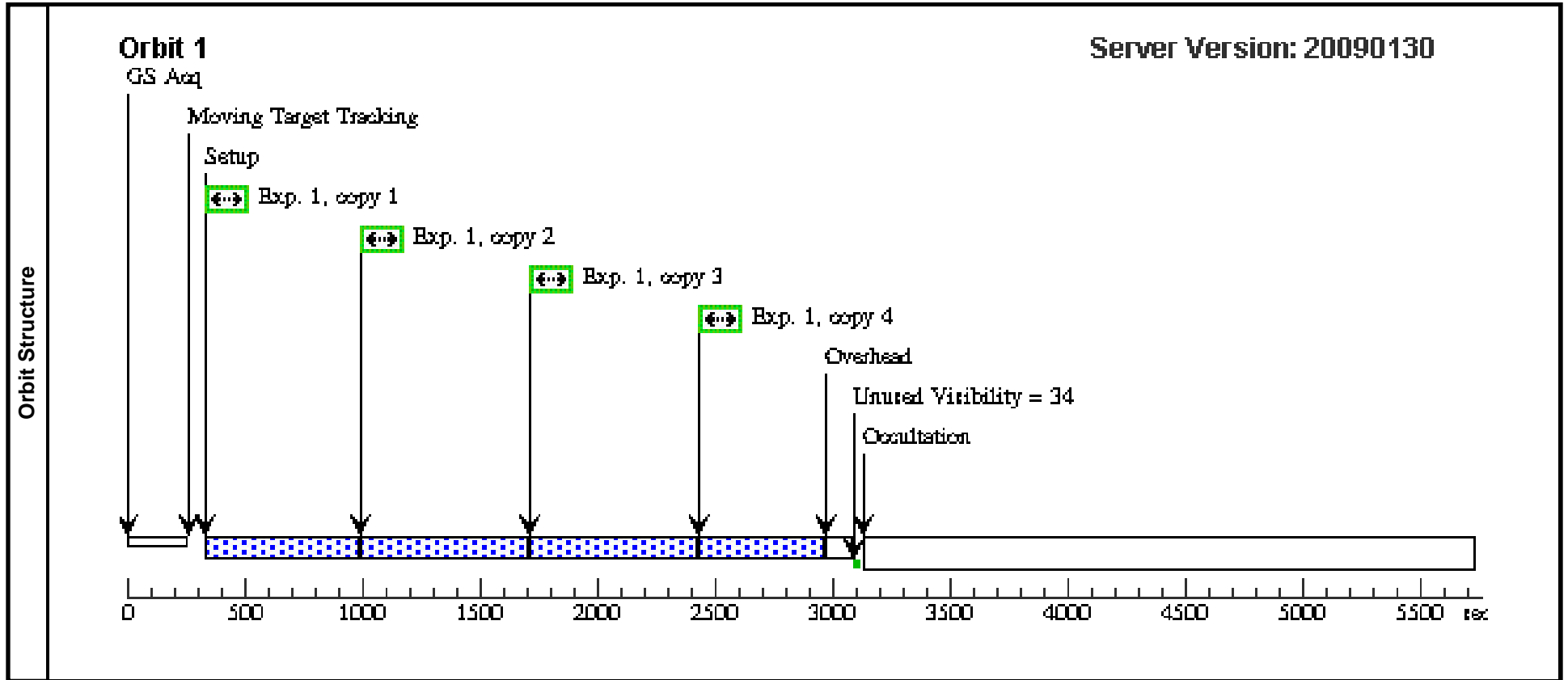
Visit	Proposal 11972, Visit 12, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BETWEEN 29-JAN-2009:18:41:07 AND 03-FEB-2009:18:00:00; BETWEEN 08-FEB-2009:16:00:00 AND 17-FEB-2009:20:00:00; BETWEEN 18-FEB-2009:16:00:00 AND 19-FEB-2009:12:00:33; BETWEEN 27-FEB-2009:03:00:00 AND 04-MAR-2009:18:00:00; BETWEEN 06-MAR-2009:02:00:00 AND 12-MAR-2009:14:00:00; BETWEEN 14-MAR-2009:00:00:00 AND 31-MAR-2009:10:00:00; BETWEEN 01-APR-2009:10:00:00 AND 03-APR-2009:08:00:00; BETWEEN 04-APR-2009:06:00:00 AND 06-APR-2009:16:00:00; BETWEEN 07-APR-2009:16:00:00 AND 15-APR-2009:20:00:00; BETWEEN 16-APR-2009:14:00:00 AND 29-JAN-2010:00:00:00										
	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
(1)		C2001Q1-NEAT	TYPE=COMET,Q=5.8339815550941 21,E=-.9659589488734132,I=66.95054 853669593,O=139.2613666298097,W =175.4610579758481,T=20-SEP- 2001:20:45:29,EQUINOX=J2000,EPO CH=27-SEP-2001:00:00:00					EARTH			
Comments: Acquisition uncertainty is the MAX 3-sigma error in the plane of sky over the next 6 months. Acquisition Uncertainty: 31 Arcsec Ephemeris Uncertainty: 10000 Secs											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1	C2001Q1-v 2/2	(1) C2001Q1-NEAT	WFPC2, IMAGE, WF3	F606W	CLOCKS=YES; CR-SPLIT=NO	POS TARG -0.5,-0.5 ; GS ACQ SCENARI O SINGLE		600 Secs X 4 [==>500.0 Secs (Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>500.0 Secs (Copy 4)]	[1]	



Proposal 11972 - Visit 13 - Investigating the Early Solar System with Distant Comet Nuclei

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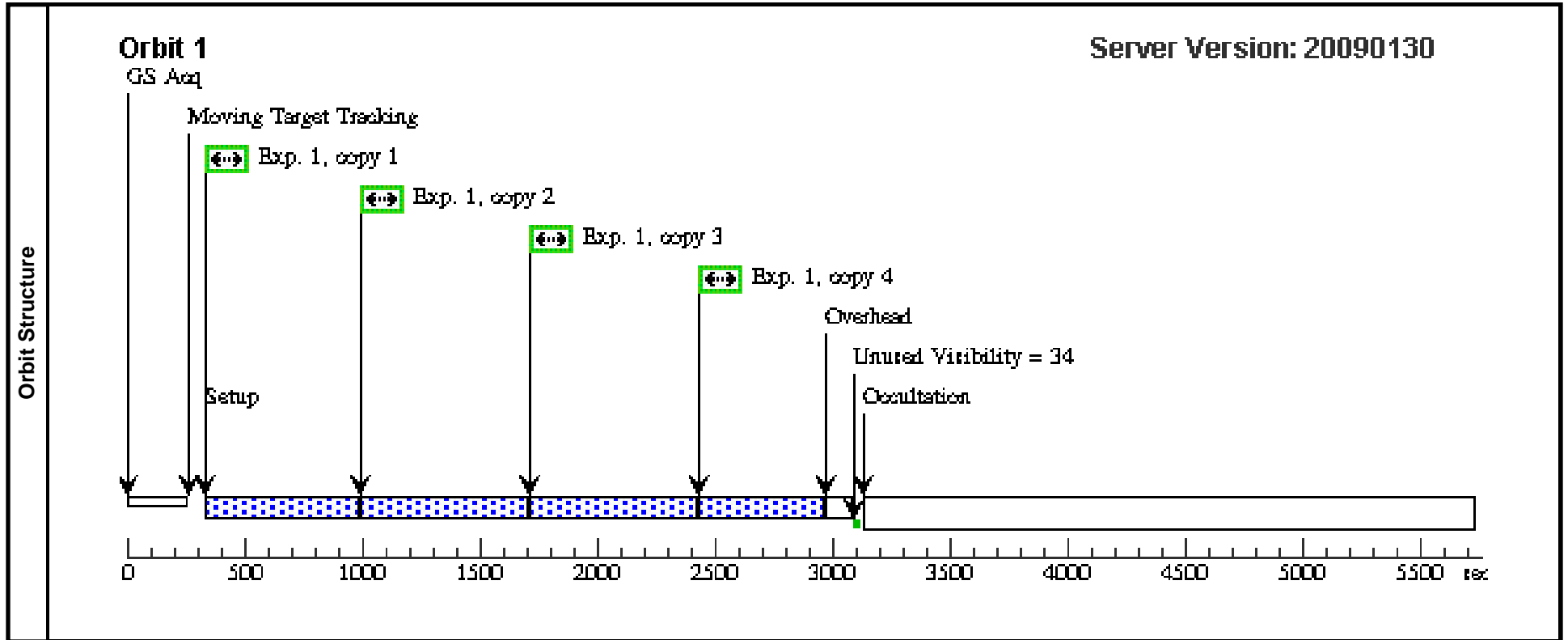
Visit	Proposal 11972, Visit 13, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BETWEEN 29-JAN-2009:18:41:07 AND 03-FEB-2009:18:00:00; BETWEEN 08-FEB-2009:16:00:00 AND 17-FEB-2009:20:00:00; BETWEEN 18-FEB-2009:16:00:00 AND 19-FEB-2009:12:00:33; BETWEEN 27-FEB-2009:03:00:00 AND 04-MAR-2009:18:00:00; BETWEEN 06-MAR-2009:02:00:00 AND 12-MAR-2009:14:00:00; BETWEEN 14-MAR-2009:00:00:00 AND 31-MAR-2009:10:00:00; BETWEEN 01-APR-2009:10:00:00 AND 03-APR-2009:08:00:00; BETWEEN 04-APR-2009:06:00:00 AND 06-APR-2009:16:00:00; BETWEEN 07-APR-2009:16:00:00 AND 15-APR-2009:20:00:00; BETWEEN 16-APR-2009:14:00:00 AND 29-JAN-2010:00:00:00										
	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
(1)		C2001Q1-NEAT	TYPE=COMET,Q=5.8339815550941 21,E=-.9659589488734132,I=66.95054 853669593,O=139.2613666298097,W =175.4610579758481,T=20-SEP- 2001:20:45:29,EQUINOX=J2000,EPO CH=27-SEP-2001:00:00:00					EARTH			
Comments: Acquisition uncertainty is the MAX 3-sigma error in the plane of sky over the next 6 months. Acquisition Uncertainty: 31 Arcsec Ephemeris Uncertainty: 10000 Secs											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1	C2001Q1-v 2/2	(1) C2001Q1-NEAT	WFPC2, IMAGE, WF3	F606W	CLOCKS=YES; CR-SPLIT=NO	POS TARG -0.25,-0. 25; GS ACQ SCENARI O SINGLE		600 Secs X 4 [=>500.0 Secs (Copy 1)] [=>(Copy 2)] [=>(Copy 3)] [=>500.0 Secs (Copy 4)]	[1]	



Proposal 11972 - Visit 14 - Investigating the Early Solar System with Distant Comet Nuclei

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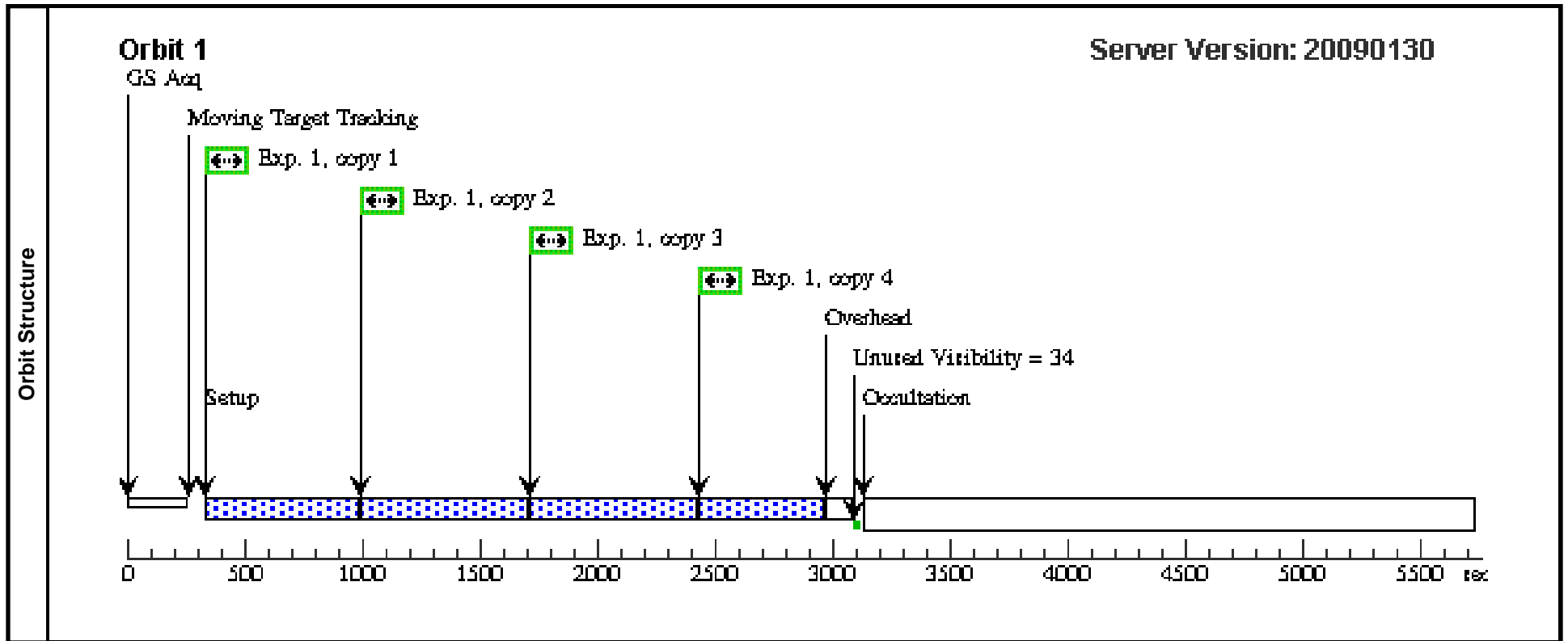
Visit	Proposal 11972, Visit 14, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BETWEEN 29-JAN-2009:18:41:07 AND 03-FEB-2009:18:00:00; BETWEEN 08-FEB-2009:16:00:00 AND 17-FEB-2009:20:00:00; BETWEEN 18-FEB-2009:16:00:00 AND 19-FEB-2009:12:00:33; BETWEEN 27-FEB-2009:03:00:00 AND 04-MAR-2009:18:00:00; BETWEEN 06-MAR-2009:02:00:00 AND 12-MAR-2009:14:00:00; BETWEEN 14-MAR-2009:00:00:00 AND 31-MAR-2009:10:00:00; BETWEEN 01-APR-2009:10:00:00 AND 03-APR-2009:08:00:00; BETWEEN 04-APR-2009:06:00:00 AND 06-APR-2009:16:00:00; BETWEEN 07-APR-2009:16:00:00 AND 15-APR-2009:20:00:00; BETWEEN 16-APR-2009:14:00:00 AND 29-JAN-2010:00:00:00										
	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
(1)		C2001Q1-NEAT	TYPE=COMET,Q=5.8339815550941 21,E=-.9659589488734132,I=66.95054 853669593,O=139.2613666298097,W =175.4610579758481,T=20-SEP- 2001:20:45:29,EQUINOX=J2000,EPO CH=27-SEP-2001:00:00:00					EARTH			
Comments: Acquisition uncertainty is the MAX 3-sigma error in the plane of sky over the next 6 months. Acquisition Uncertainty: 31 Arcsec Ephemeris Uncertainty: 10000 Secs											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1	C2001Q1-v 2/2	(1) C2001Q1-NEAT	WFPC2, IMAGE, WF3	F606W	CLOCKS=YES; CR-SPLIT=NO	GS ACQ SCENARI O SINGLE		600 Secs X 4 [=>500.0 Secs (Copy 1)] [=>(Copy 2)] [=>(Copy 3)] [=>500.0 Secs (Copy 4)]	[1]	



Proposal 11972 - Visit 15 - Investigating the Early Solar System with Distant Comet Nuclei

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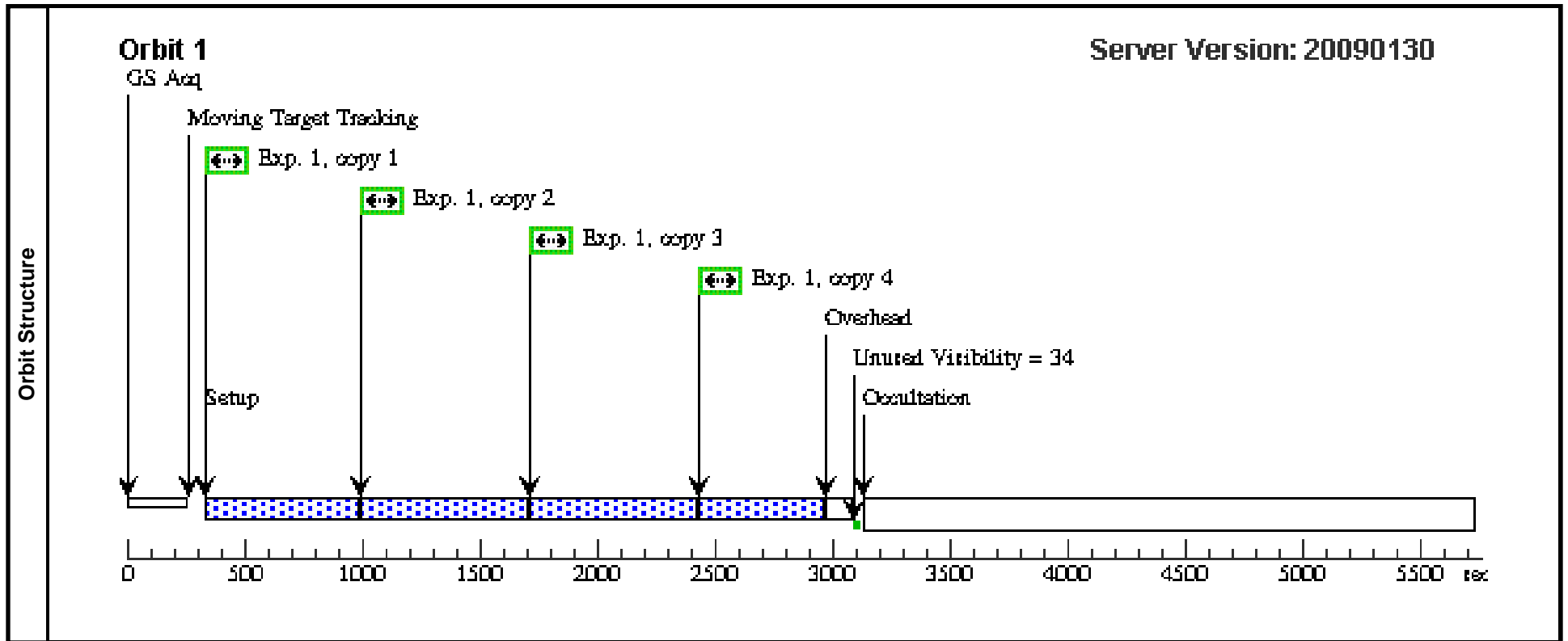
Visit	Proposal 11972, Visit 15, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BETWEEN 29-JAN-2009:18:41:07 AND 03-FEB-2009:18:00:00; BETWEEN 08-FEB-2009:16:00:00 AND 17-FEB-2009:20:00:00; BETWEEN 18-FEB-2009:16:00:00 AND 19-FEB-2009:12:00:33; BETWEEN 27-FEB-2009:03:00:00 AND 04-MAR-2009:18:00:00; BETWEEN 06-MAR-2009:02:00:00 AND 12-MAR-2009:14:00:00; BETWEEN 14-MAR-2009:00:00:00 AND 31-MAR-2009:10:00:00; BETWEEN 01-APR-2009:10:00:00 AND 03-APR-2009:08:00:00; BETWEEN 04-APR-2009:06:00:00 AND 06-APR-2009:16:00:00; BETWEEN 07-APR-2009:16:00:00 AND 15-APR-2009:20:00:00; BETWEEN 16-APR-2009:14:00:00 AND 29-JAN-2010:00:00:00										
	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
(1)		C2001Q1-NEAT	TYPE=COMET,Q=5.8339815550941 21,E=-.9659589488734132,I=66.95054 853669593,O=139.2613666298097,W =175.4610579758481,T=20-SEP- 2001:20:45:29,EQUINOX=J2000,EPO CH=27-SEP-2001:00:00:00					EARTH			
Comments: Acquisition uncertainty is the MAX 3-sigma error in the plane of sky over the next 6 months. Acquisition Uncertainty: 31 Arcsec Ephemeris Uncertainty: 10000 Secs											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1	C2001Q1-v 2/2	(1) C2001Q1-NEAT	WFPC2, IMAGE, WF3	F606W	CLOCKS=YES; CR-SPLIT=NO	POS TARG 0.25,0.2 5; GS ACQ SCENARI O SINGLE		600 Secs X 4 [=>500.0 Secs (Copy 1)] [=>(Copy 2)] [=>(Copy 3)] [=>500.0 Secs (Copy 4)]	[1]	



Proposal 11972 - Visit 16 - Investigating the Early Solar System with Distant Comet Nuclei

Thu Mar 26 01:37:40 GMT 2009

Visit	Proposal 11972, Visit 16, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BETWEEN 29-JAN-2009:18:41:07 AND 03-FEB-2009:18:00:00; BETWEEN 08-FEB-2009:16:00:00 AND 17-FEB-2009:20:00:00; BETWEEN 18-FEB-2009:16:00:00 AND 19-FEB-2009:12:00:33; BETWEEN 27-FEB-2009:03:00:00 AND 04-MAR-2009:18:00:00; BETWEEN 06-MAR-2009:02:00:00 AND 12-MAR-2009:14:00:00; BETWEEN 14-MAR-2009:00:00:00 AND 31-MAR-2009:10:00:00; BETWEEN 01-APR-2009:10:00:00 AND 03-APR-2009:08:00:00; BETWEEN 04-APR-2009:06:00:00 AND 06-APR-2009:16:00:00; BETWEEN 07-APR-2009:16:00:00 AND 15-APR-2009:20:00:00; BETWEEN 16-APR-2009:14:00:00 AND 29-JAN-2010:00:00:00										
	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
(1)		C2001Q1-NEAT	TYPE=COMET,Q=5.8339815550941 21,E=-.9659589488734132,I=66.95054 853669593,O=139.2613666298097,W =175.4610579758481,T=20-SEP- 2001:20:45:29,EQUINOX=J2000,EPO CH=27-SEP-2001:00:00:00					EARTH			
Comments: Acquisition uncertainty is the MAX 3-sigma error in the plane of sky over the next 6 months. Acquisition Uncertainty: 31 Arcsec Ephemeris Uncertainty: 10000 Secs											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1	C2001Q1-v 2/2	(1) C2001Q1-NEAT	WFPC2, IMAGE, WF3	F606W	CLOCKS=YES; CR-SPLIT=NO	POS TARG 0.5,0.5; GS ACQ SCENARI O SINGLE		600 Secs X 4 [==>500.0 Secs (Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>500.0 Secs (Copy 4)]	[1]	



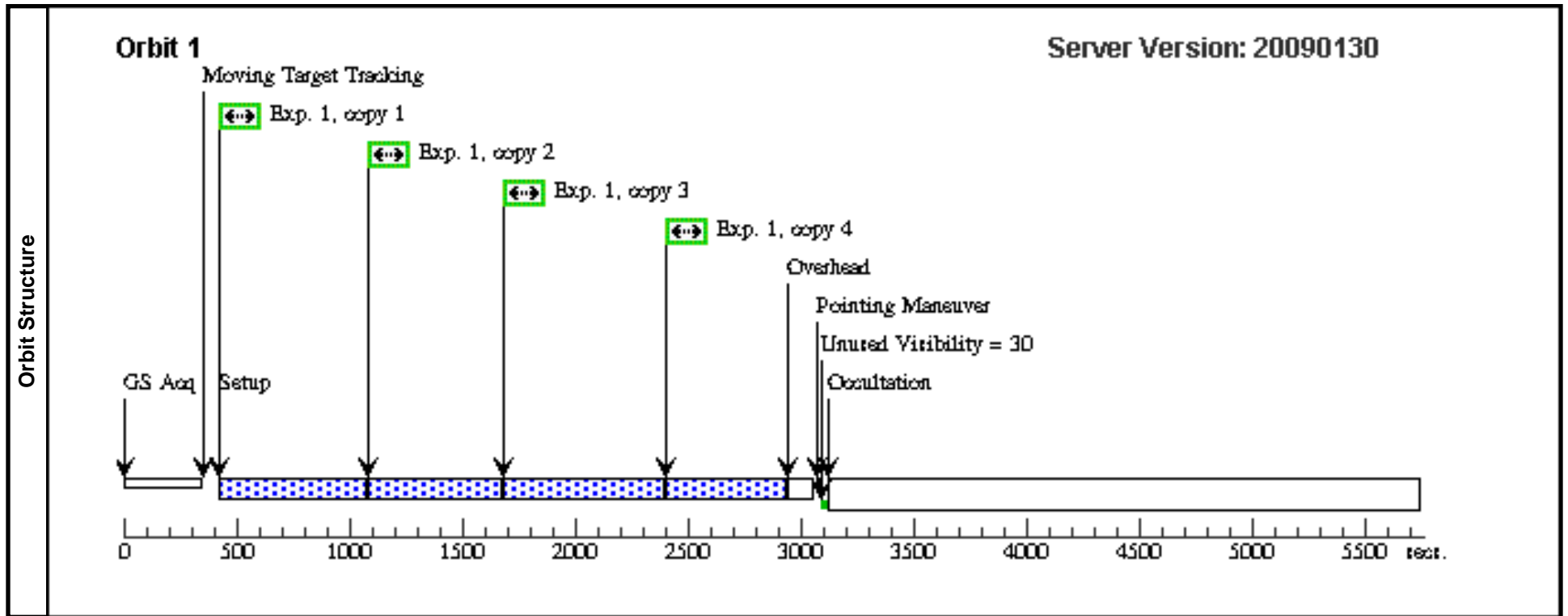
Proposal 11972 - Visit 21 - Investigating the Early Solar System with Distant Comet Nuclei

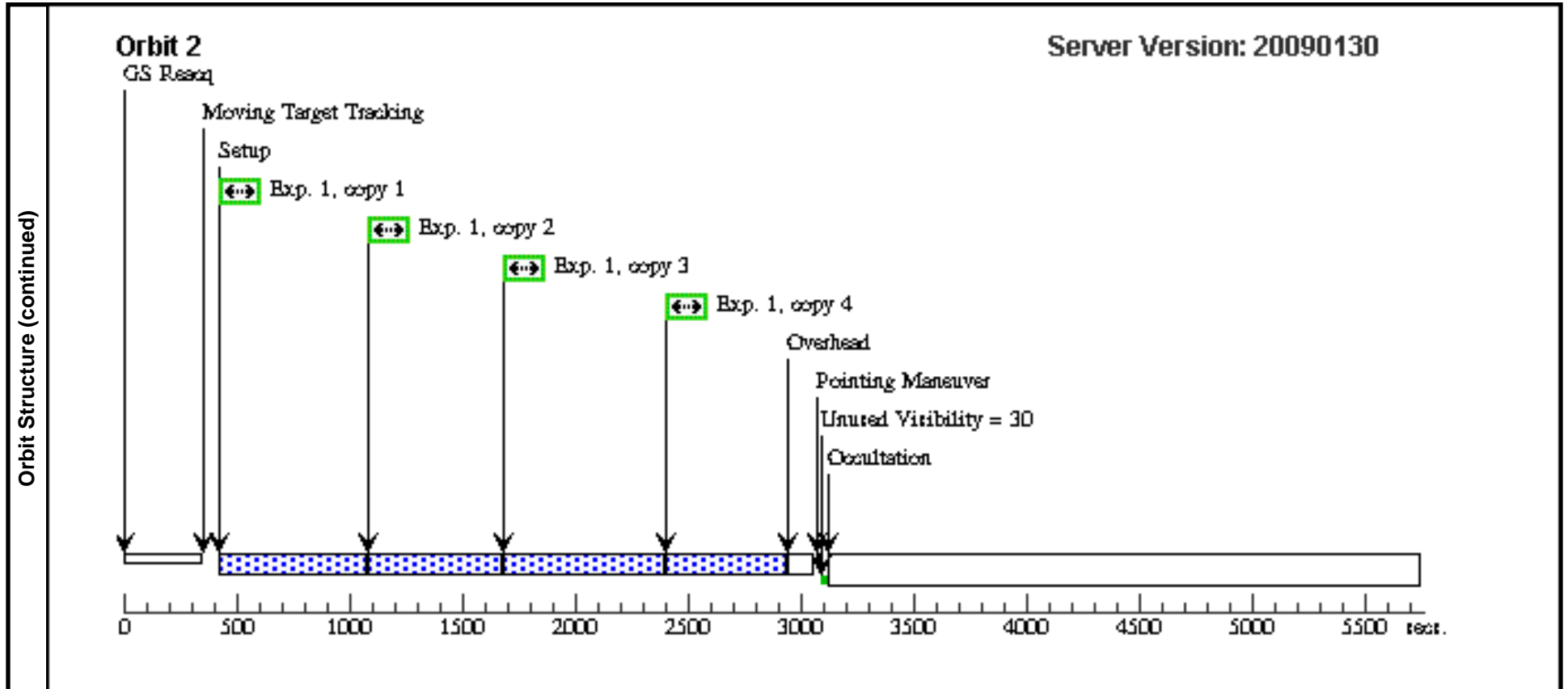
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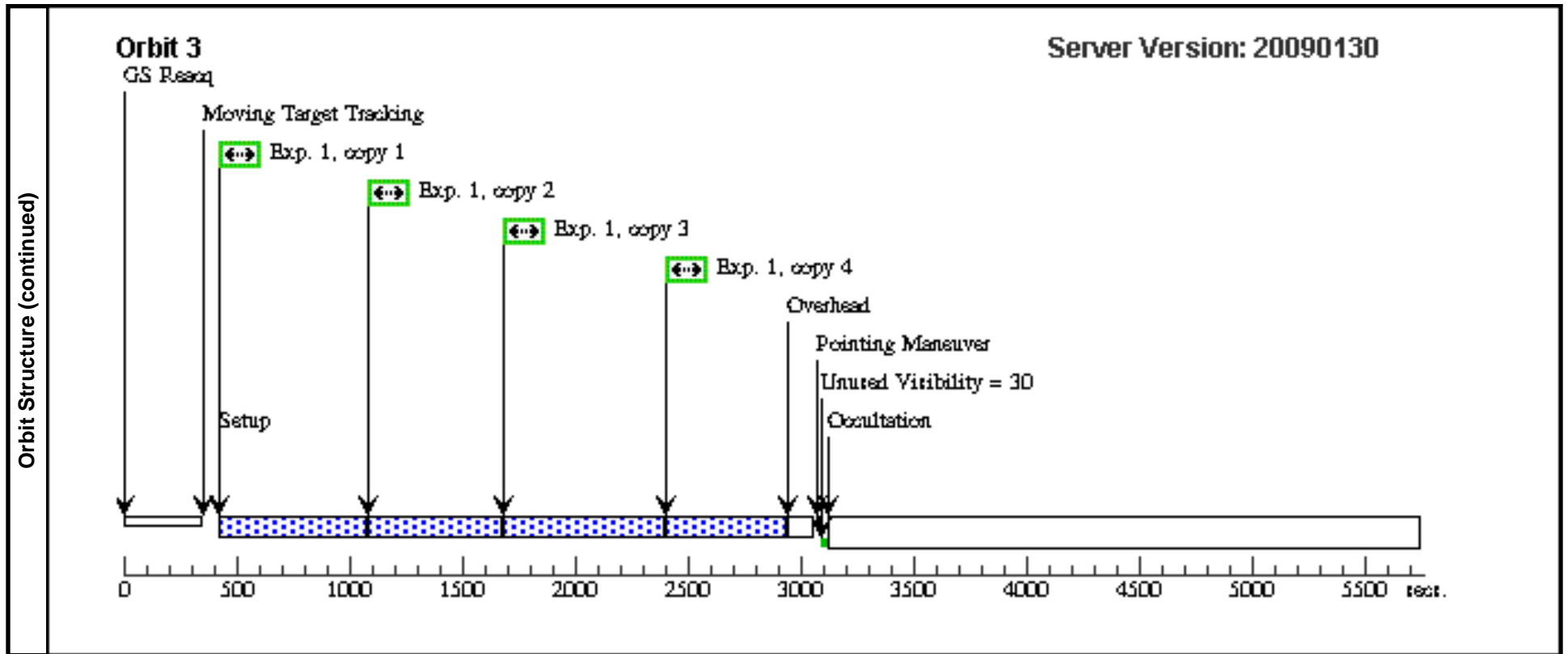
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	Patterns	<table border="1"> <thead> <tr> <th>#</th> <th>Primary Pattern</th> <th>Secondary Pattern</th> <th>Exposures</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td> Pattern Type=SPIRAL Purpose=DITHER Number Of Points=5 Point Spacing=.559017 Line Spacing= </td> <td> Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=true </td> <td>(1)</td> </tr> </tbody> </table>	#	Primary Pattern	Secondary Pattern	Exposures	(1)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=5 Point Spacing=.559017 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=true	(1)										
#	Primary Pattern	Secondary Pattern	Exposures																	
(1)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=5 Point Spacing=.559017 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=true	(1)																	
Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>C2003O1-LINEAR</td> <td>TYPE=COMET,Q=6.8473684531983 49,E=1.001396679115753,I=117.9816 383092781,O=347.6441090210579,W =81.67330421951242,T=17-MAR- 2004:04:54:17,EQUINOX=J2000,EPO CH=19-APR-2004:00:00:00</td> <td></td> <td></td> <td></td> <td>EARTH</td> </tr> </tbody> </table> <p><i>Comments:</i> Acquisition Uncertainty: 2.5 Arcsec Ephemeris Uncertainty: 10000 Secs</p>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(2)	C2003O1-LINEAR	TYPE=COMET,Q=6.8473684531983 49,E=1.001396679115753,I=117.9816 383092781,O=347.6441090210579,W =81.67330421951242,T=17-MAR- 2004:04:54:17,EQUINOX=J2000,EPO CH=19-APR-2004:00:00:00				EARTH					
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center														
(2)	C2003O1-LINEAR	TYPE=COMET,Q=6.8473684531983 49,E=1.001396679115753,I=117.9816 383092781,O=347.6441090210579,W =81.67330421951242,T=17-MAR- 2004:04:54:17,EQUINOX=J2000,EPO CH=19-APR-2004:00:00:00				EARTH														

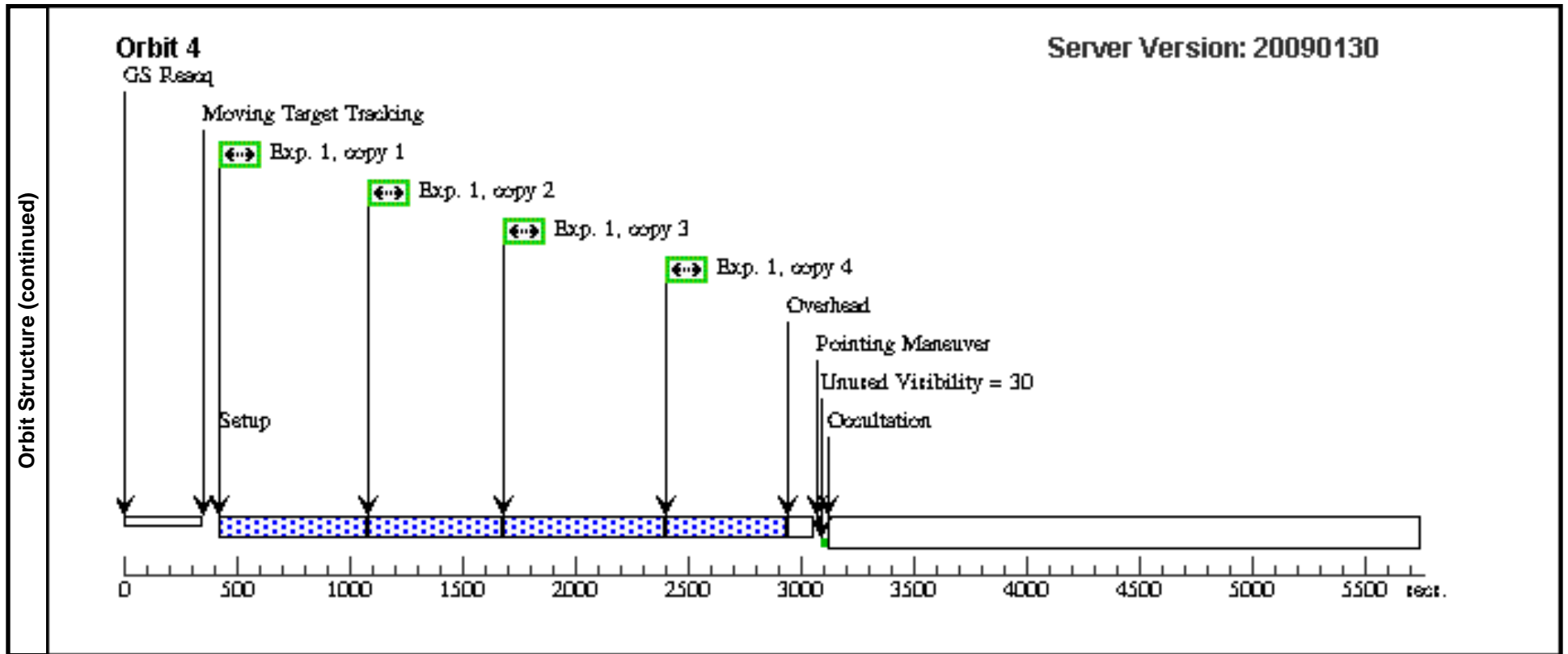
Proposal 11972 - Visit 21 - Investigating the Early Solar System with Distant Comet Nuclei

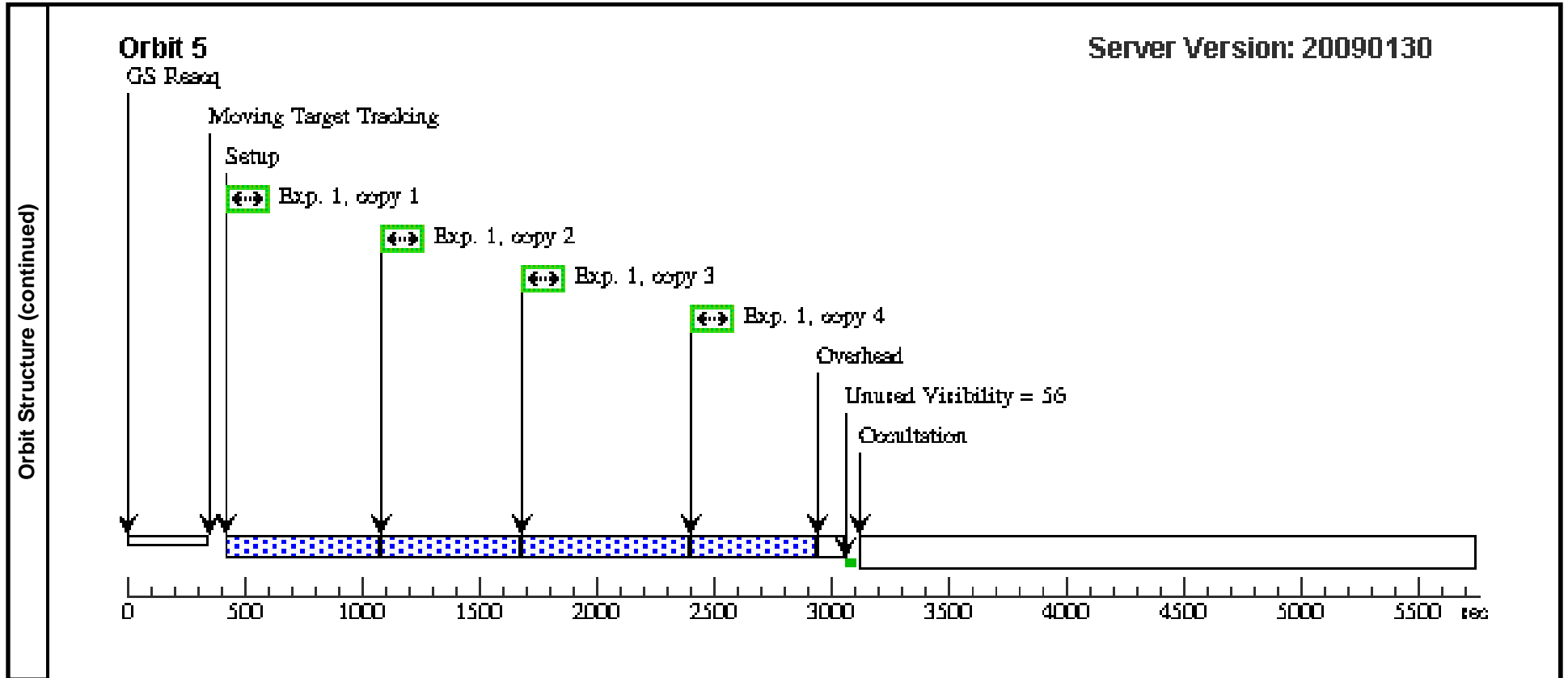
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	C2003O1-v 1/2	(2) C2003O1-LINE AR	WFPC2, IMAGE, WF3	F606W	CLOCKS=YES; CR-SPLIT=NO	Pattern 1-1 (1)	600 Secs X 4	
	[==>500.0 Secs (Pattern 1, Copy 1)] [==>500 Secs (Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>500 Secs (Pattern 1, Copy 4)]	[1]							
	[==>500.0 Secs (Pattern 2, Copy 1)] [==>500 Secs (Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>500 Secs (Pattern 2, Copy 4)]	[2]							
	[==>500.0 Secs (Pattern 3, Copy 1)] [==>500 Secs (Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>500 Secs (Pattern 3, Copy 4)]	[3]							
	[==>500.0 Secs (Pattern 4, Copy 1)] [==>500 Secs (Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>500 Secs (Pattern 4, Copy 4)]	[4]							
	[==>500.0 Secs (Pattern 5, Copy 1)] [==>500 Secs (Pattern 5, Copy 2)] [==>(Pattern 5, Copy 3)] [==>500 Secs (Pattern 5, Copy 4)]	[5]							











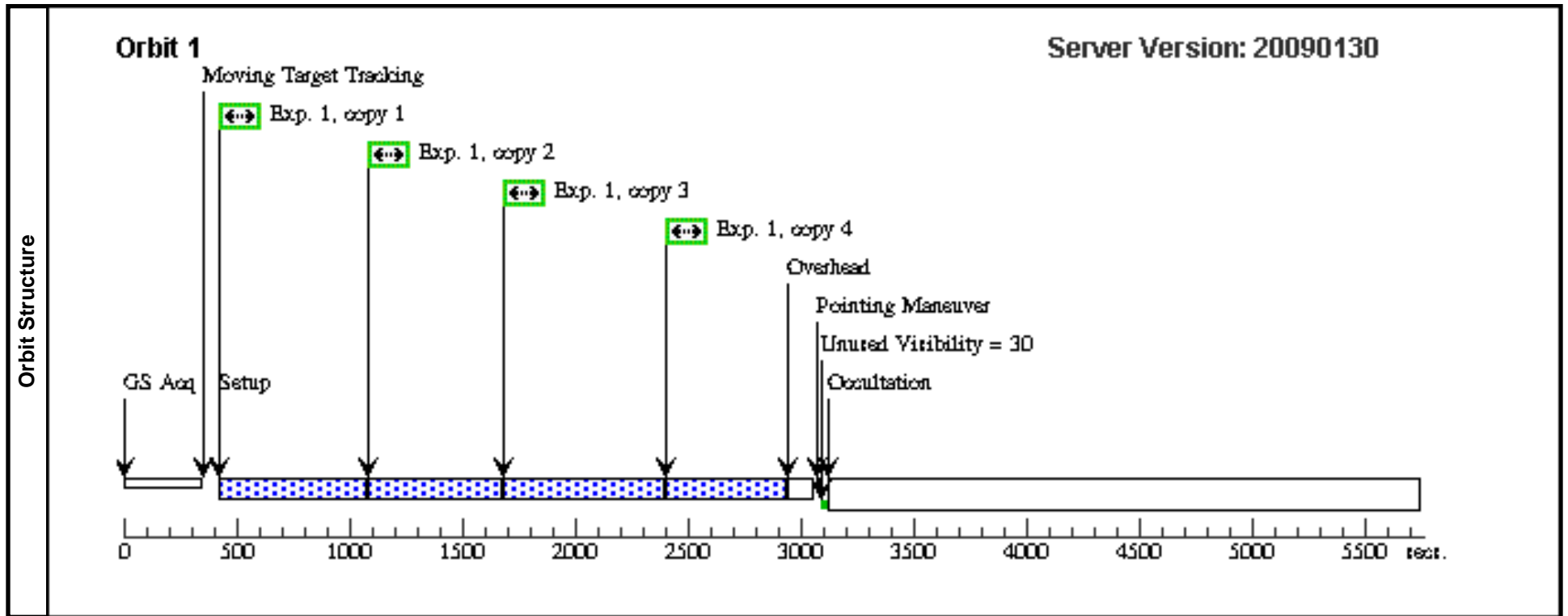
Proposal 11972 - Visit 22 - Investigating the Early Solar System with Distant Comet Nuclei

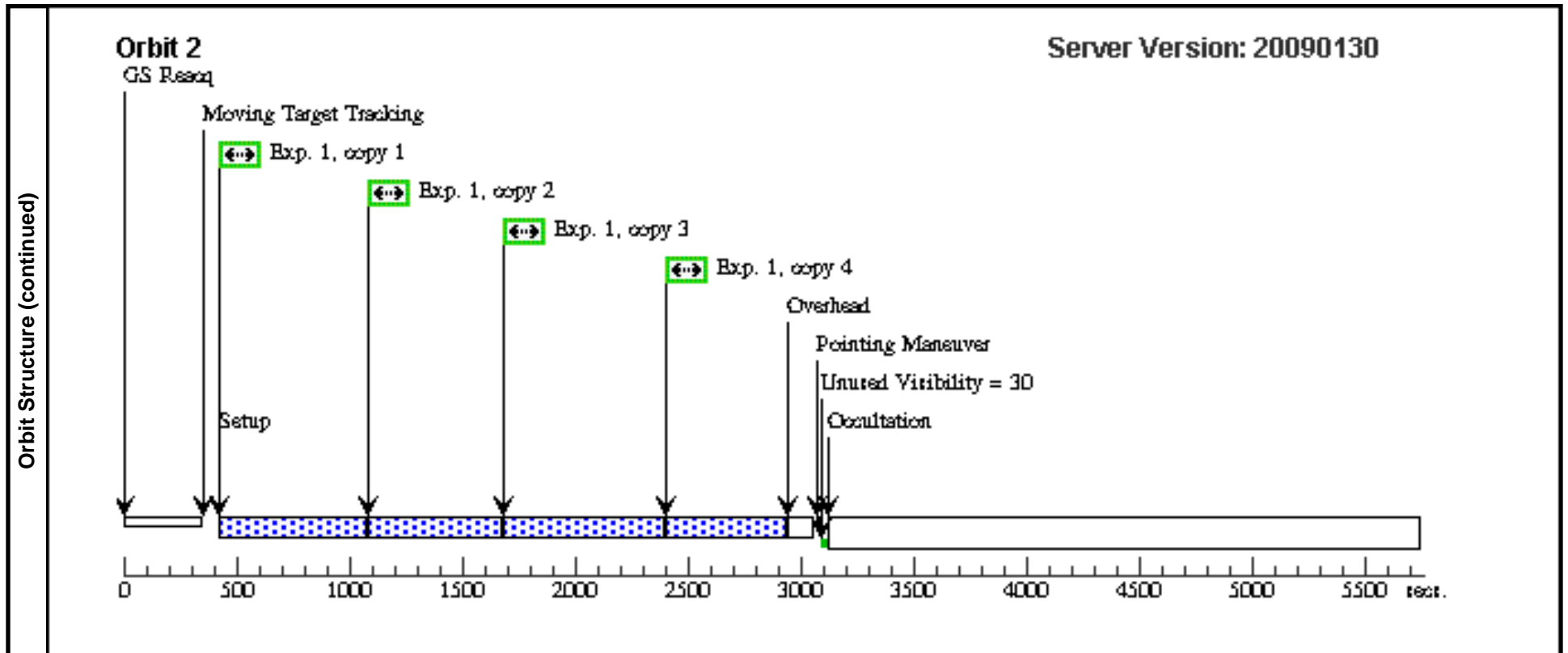
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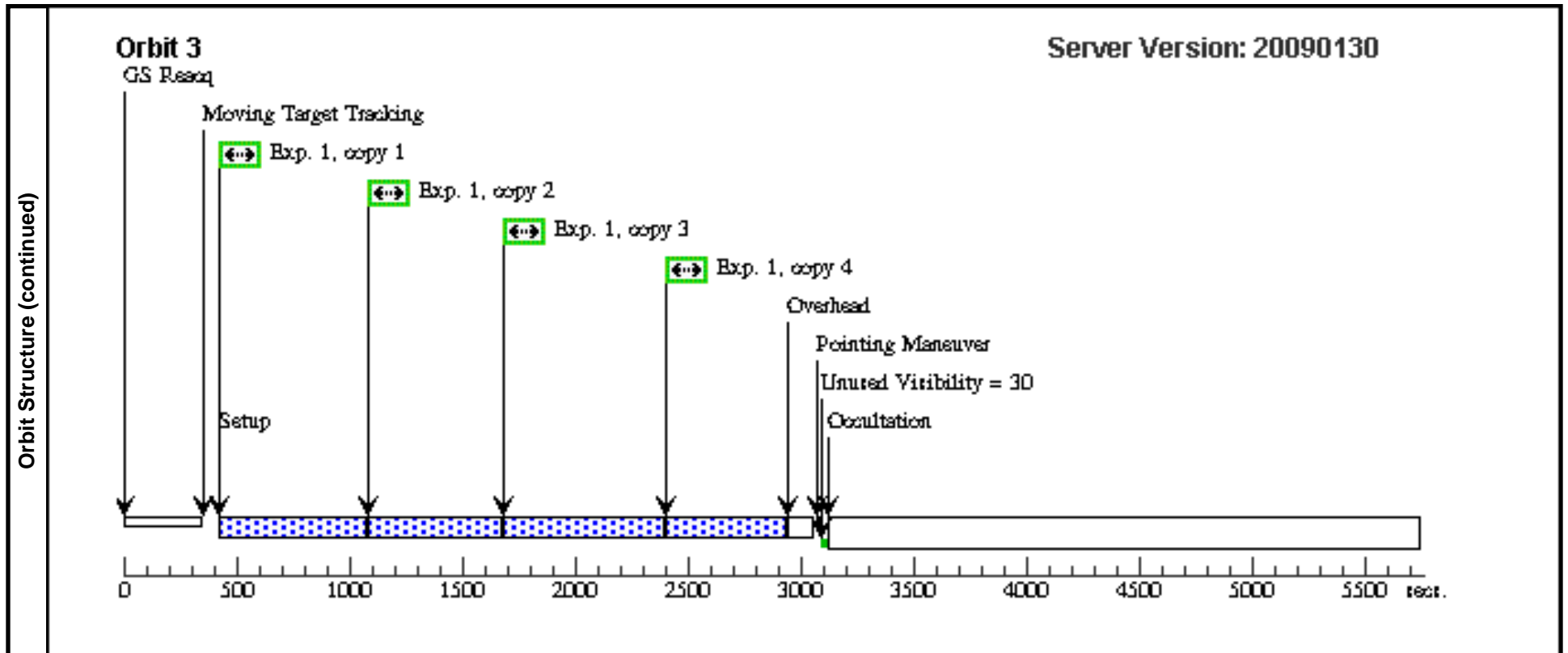
Visit	Proposal 11972, Visit 22, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BETWEEN 29-JAN-2009:20:11:07 AND 04-FEB-2009:02:00:00; BETWEEN 04-FEB-2009:22:00:00 AND 17-FEB-2009:10:00:00; BETWEEN 18-FEB-2009:04:00:00 AND 19-FEB-2009:18:00:00; BETWEEN 21-FEB-2009:00:00:00 AND 04-MAR-2009:20:00:00; BETWEEN 05-MAR-2009:14:00:00 AND 10-APR-2009:20:00:00; BETWEEN 12-APR-2009:10:00:00 AND 29-JAN-2010:00:00:00; VISIBILITY INTERVAL 52 M						
	Patterns	#	Primary Pattern		Secondary Pattern		Exposures
(1)		Pattern Type=SPIRAL Purpose=DITHER Number Of Points=5 Point Spacing=.559017 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=true			(1)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(2)	C2003O1-LINEAR	TYPE=COMET,Q=6.8473684531983 49,E=1.001396679115753,I=117.9816 383092781,O=347.6441090210579,W =81.67330421951242,T=17-MAR- 2004:04:54:17,EQUINOX=J2000,EPO CH=19-APR-2004:00:00:00				EARTH
Comments: Acquisition Uncertainty: 2.5 Arcsec Ephemeris Uncertainty: 10000 Secs							

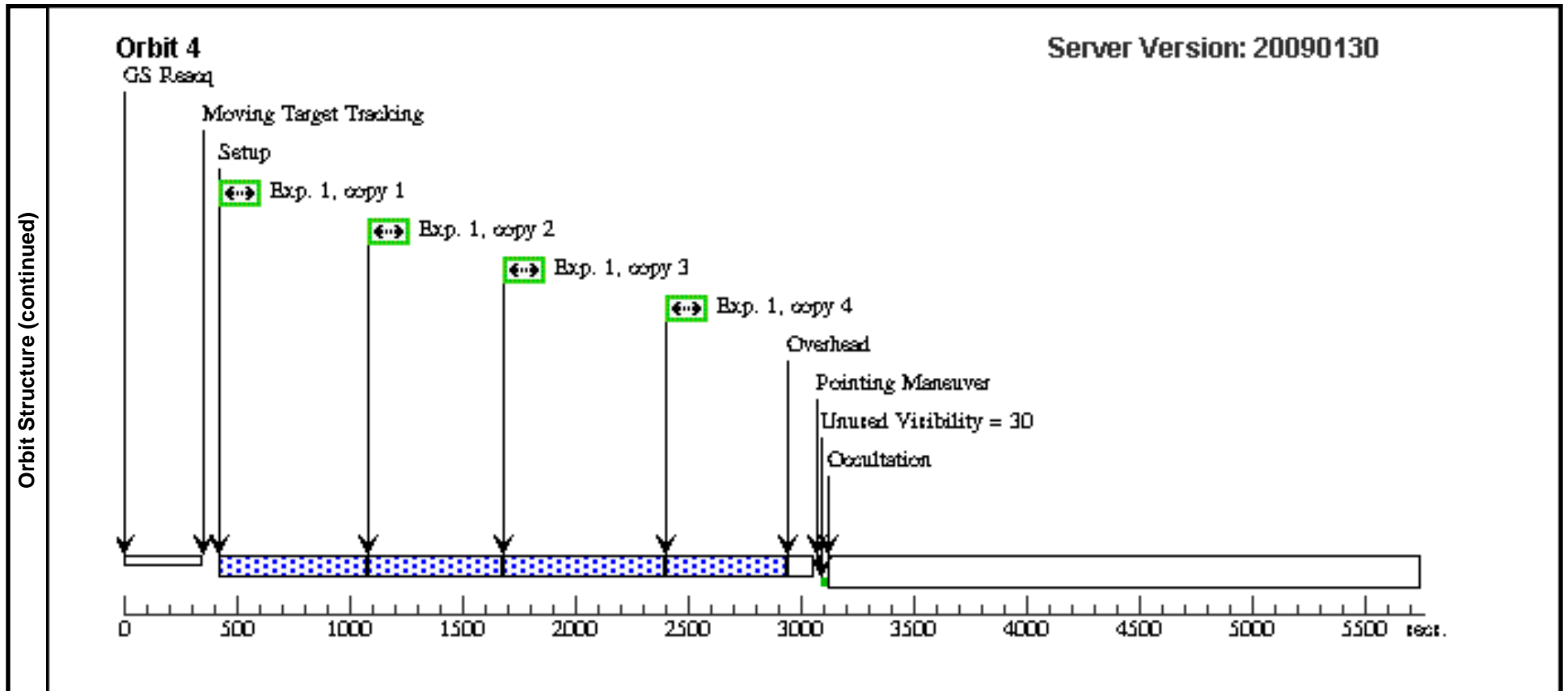
Proposal 11972 - Visit 22 - Investigating the Early Solar System with Distant Comet Nuclei

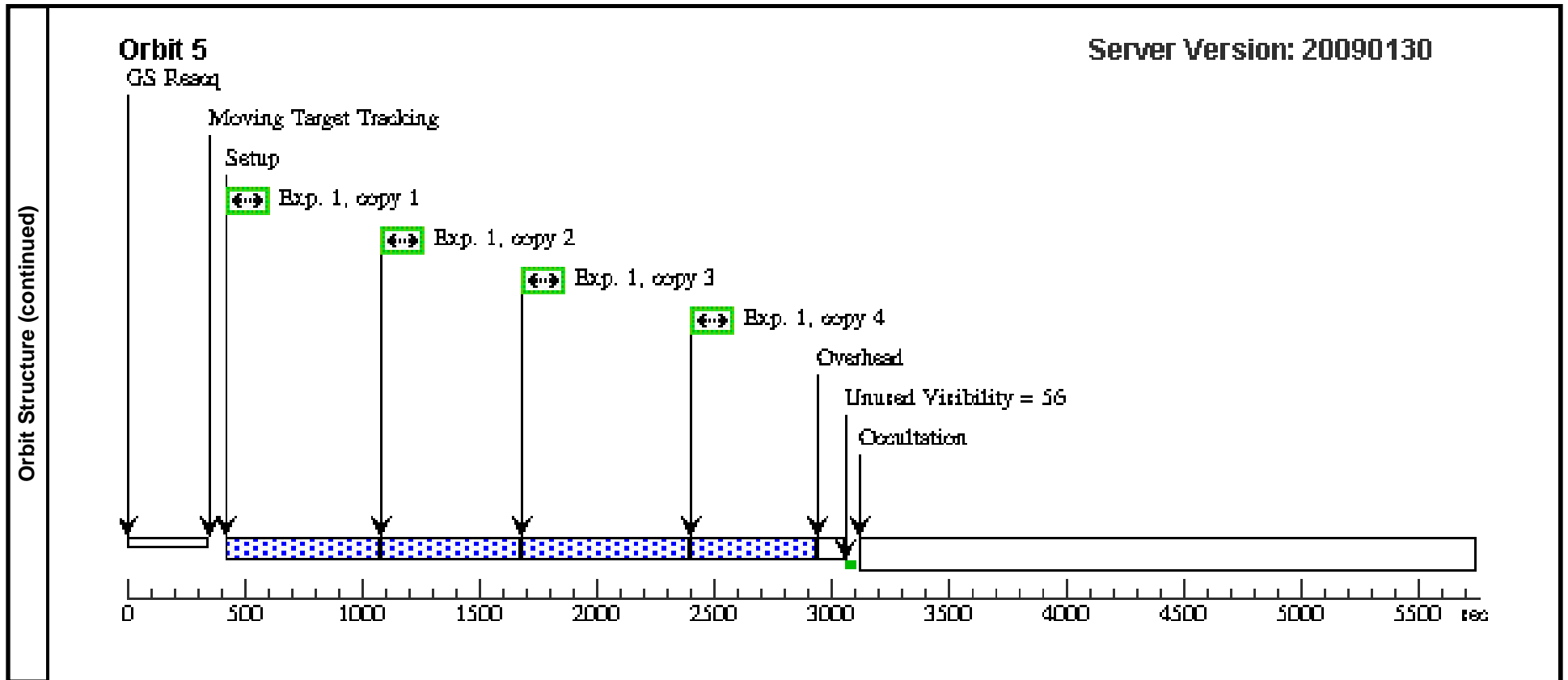
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Exposures	1	C2003O1-v 2/2	(2) C2003O1-LINE AR	F606W	CLOCKS=YES; CR-SPLIT=NO		Pattern 1-1 (1)	600 Secs X 4	
								[==>500.0 Secs (Pattern 1, Copy 1)] [==>500 Secs (Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>500.0 Secs (Pattern 1, Copy 4)]	[1]
								[==>500.0 Secs (Pattern 2, Copy 1)] [==>500 Secs (Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>500.0 Secs (Pattern 2, Copy 4)]	[2]
								[==>500.0 Secs (Pattern 3, Copy 1)] [==>500 Secs (Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>500.0 Secs (Pattern 3, Copy 4)]	[3]
								[==>500.0 Secs (Pattern 4, Copy 1)] [==>500 Secs (Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>500.0 Secs (Pattern 4, Copy 4)]	[4]
							[==>500.0 Secs (Pattern 5, Copy 1)] [==>500 Secs (Pattern 5, Copy 2)] [==>(Pattern 5, Copy 3)] [==>500.0 Secs (Pattern 5, Copy 4)]	[5]	











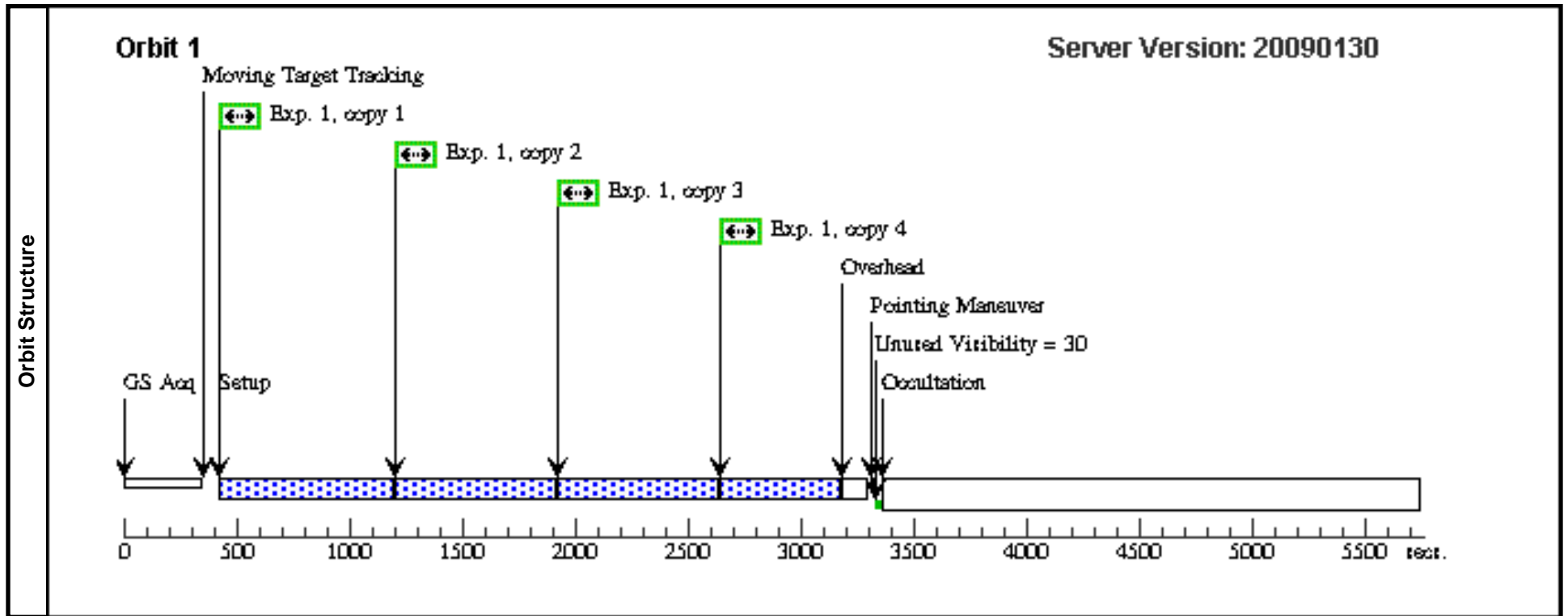
Proposal 11972 - Visit 31 - Investigating the Early Solar System with Distant Comet Nuclei

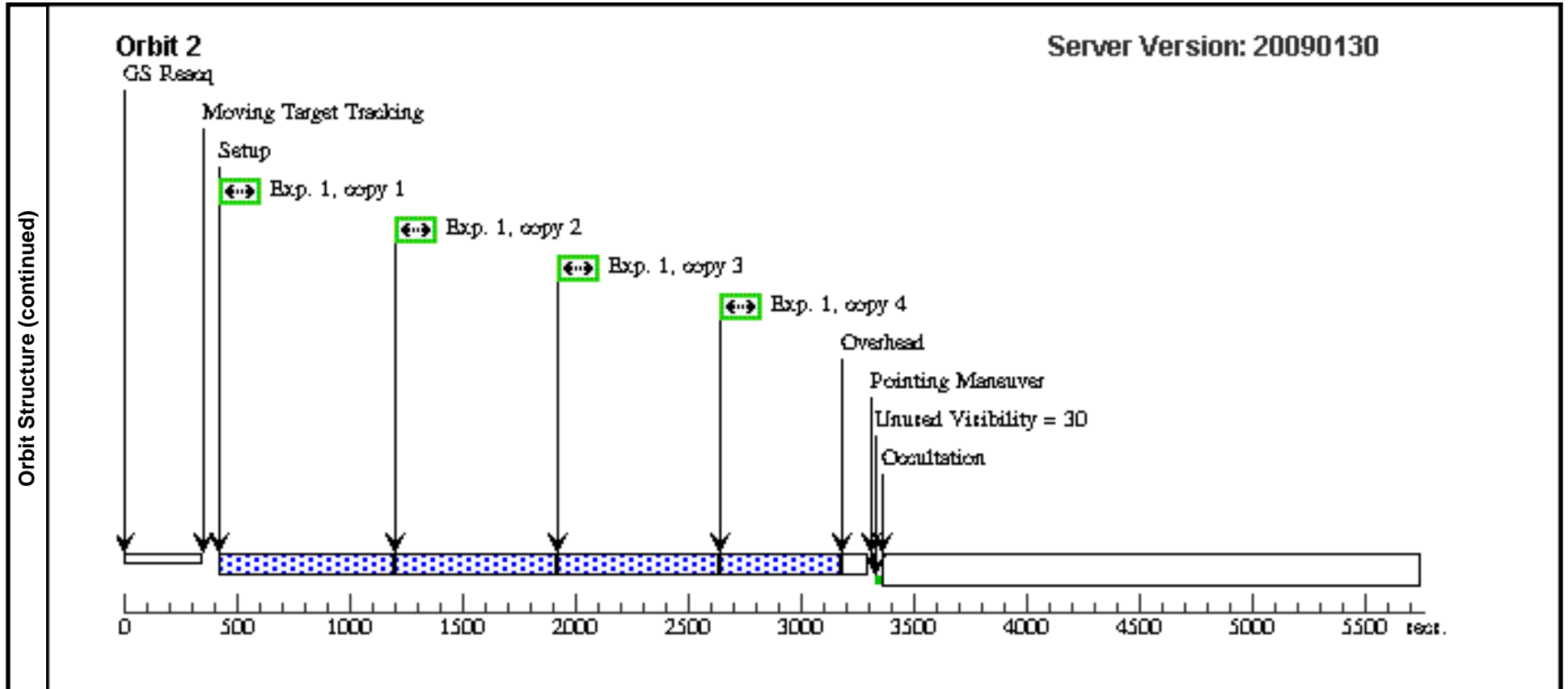
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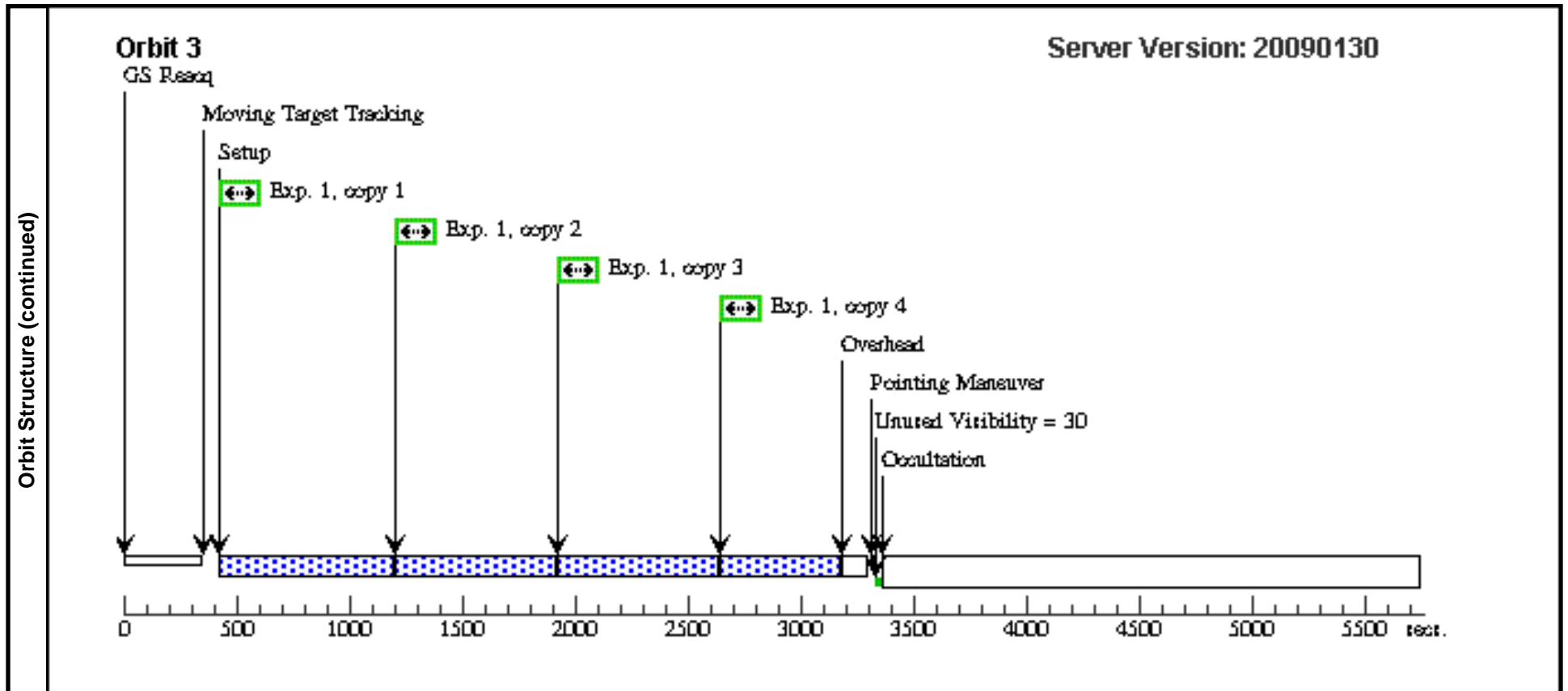
Visit	Proposal 11972, Visit 31, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BETWEEN 29-JAN-2009:20:11:07 AND 04-FEB-2009:02:00:00; BETWEEN 04-FEB-2009:22:00:00 AND 17-FEB-2009:10:00:00; BETWEEN 18-FEB-2009:04:00:00 AND 19-FEB-2009:18:00:00; BETWEEN 21-FEB-2009:00:00:00 AND 04-MAR-2009:20:00:00; BETWEEN 05-MAR-2009:14:00:00 AND 10-APR-2009:20:00:00; BETWEEN 12-APR-2009:10:00:00 AND 29-JAN-2010:00:00:00; VISIBILITY INTERVAL 56 M						
	Patterns	#	Primary Pattern		Secondary Pattern		Exposures
(1)		Pattern Type=SPIRAL Purpose=DITHER Number Of Points=5 Point Spacing=.559017 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=true			(1)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(3)	C1999J2-SKIFF	TYPE=COMET,Q=7.1097673564544 57,E=1.001101675093049,I=86.41280 725664923,O=50.04244056243946,W =127.1389583223235,T=05-APR- 2000:23:44:51,EQUINOX=J2000,EPO CH=22-APR-2000:00:00:00				EARTH
Comments: Acquisition Uncertainty: 2.4 Arcsec Ephemeris Uncertainty: 10000 Secs							

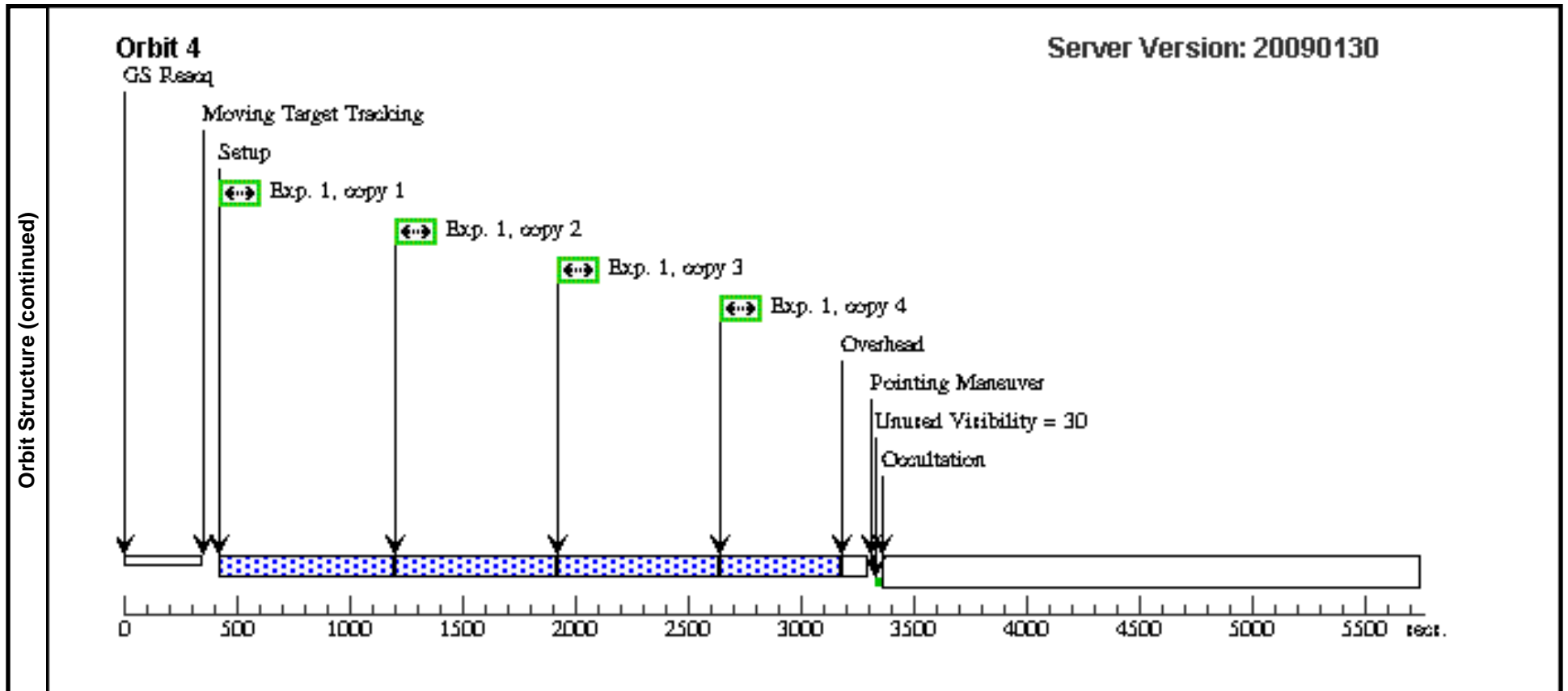
Proposal 11972 - Visit 31 - Investigating the Early Solar System with Distant Comet Nuclei

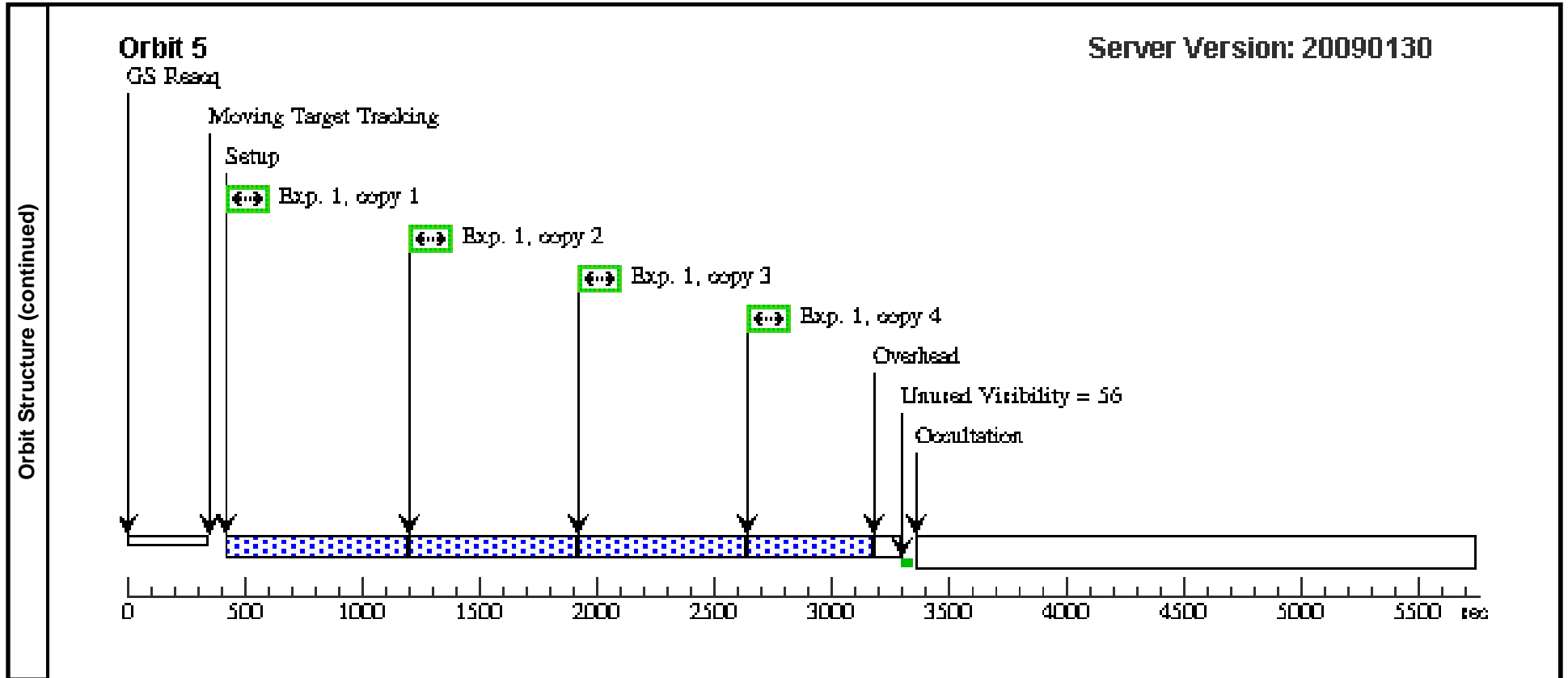
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	C1999J2-v1/ (3) C1999J2-SKIFF	WFPC2, IMAGE, WF3	F606W	CLOCKS=YES; CR-SPLIT=NO		Pattern 1-1 (1)	600 Secs X 4	
	3							[==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>500.0 Secs (Pattern 1, Copy 4)]	[1]
								[==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>500.0 Secs (Pattern 2, Copy 4)]	[2]
								[==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>500.0 Secs (Pattern 3, Copy 4)]	[3]
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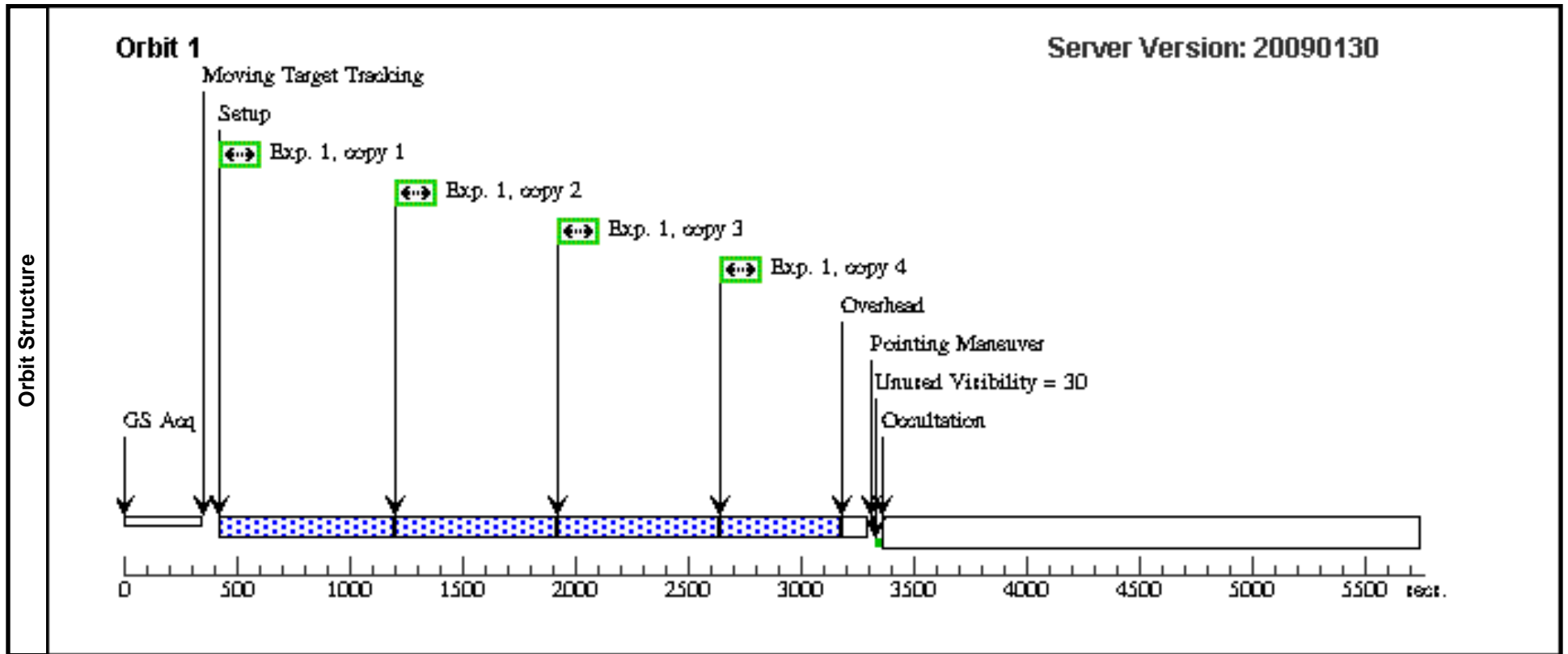
Proposal 11972 - Visit 32 - Investigating the Early Solar System with Distant Comet Nuclei

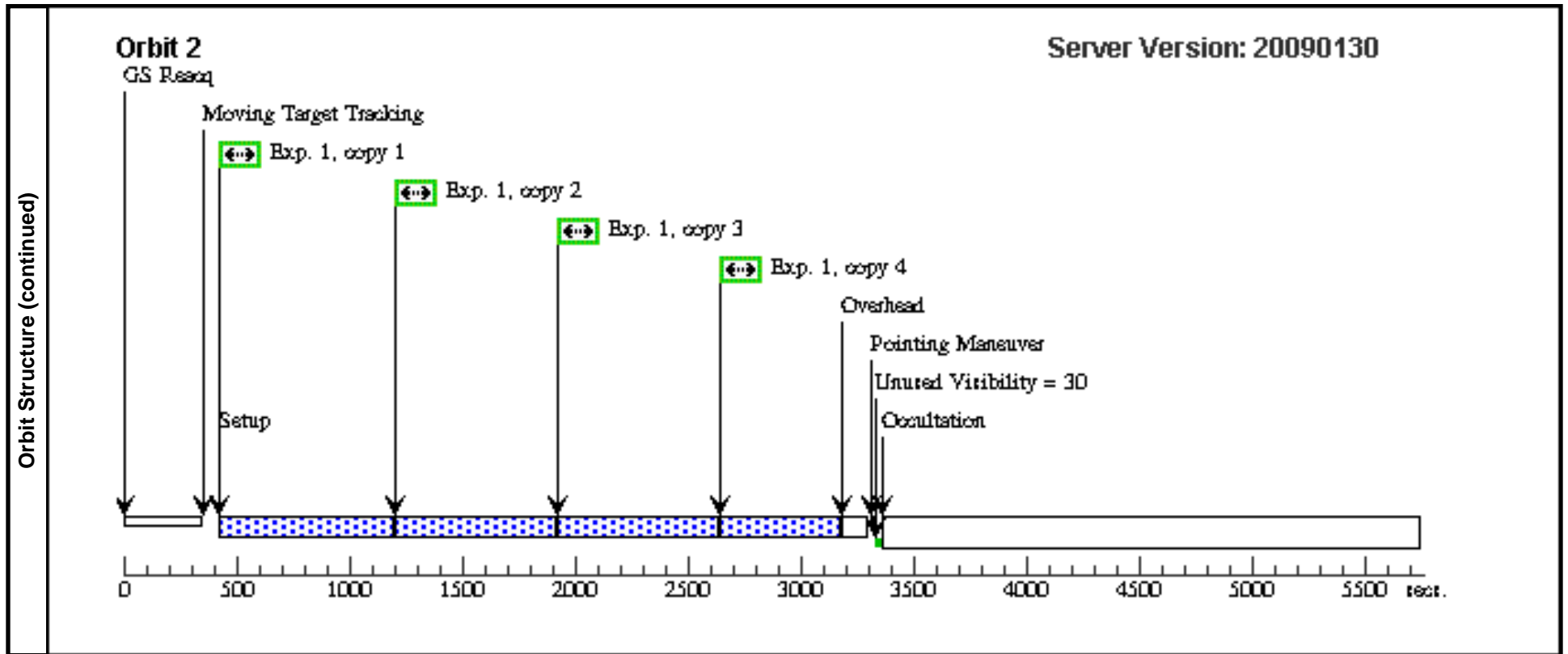
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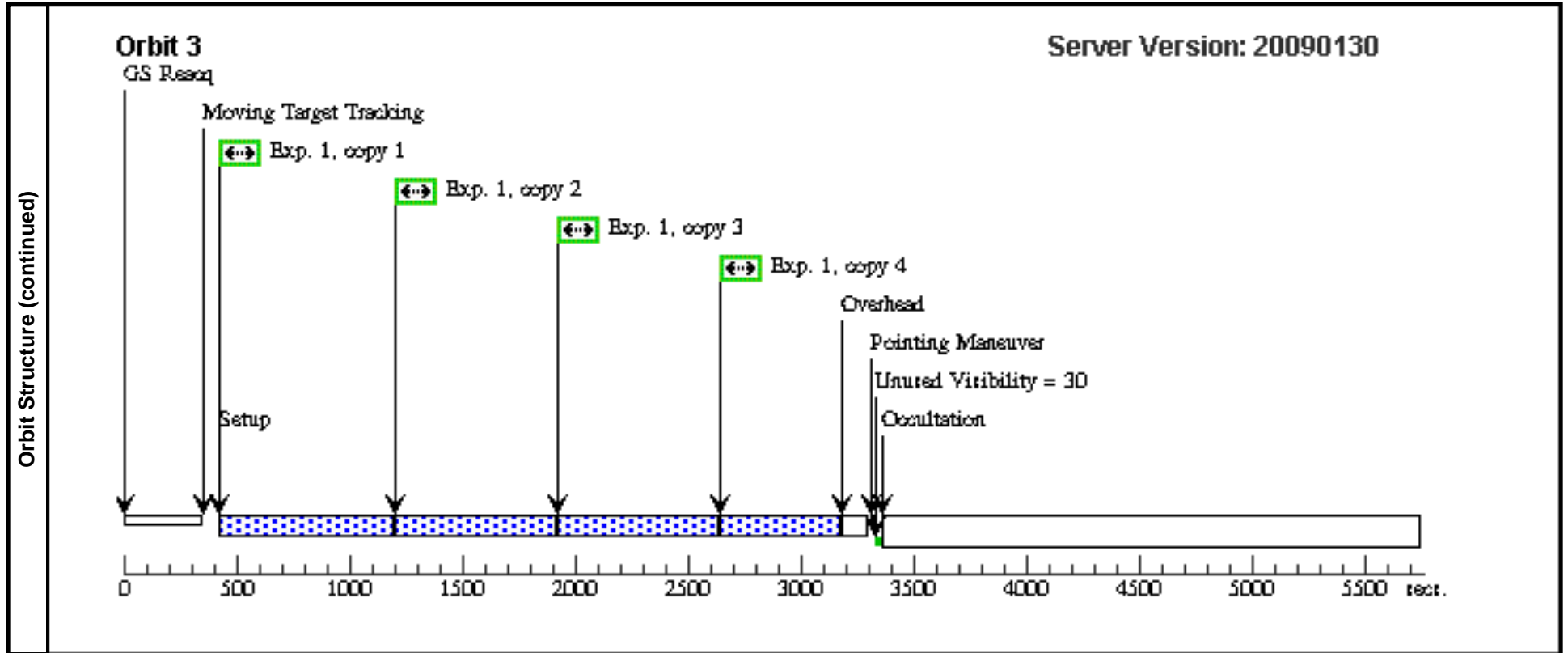
Visit	Proposal 11972, Visit 32, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BETWEEN 29-JAN-2009:20:11:07 AND 04-FEB-2009:02:00:00; BETWEEN 04-FEB-2009:22:00:00 AND 17-FEB-2009:10:00:00; BETWEEN 18-FEB-2009:04:00:00 AND 19-FEB-2009:18:00:00; BETWEEN 21-FEB-2009:00:00:00 AND 04-MAR-2009:20:00:00; BETWEEN 05-MAR-2009:14:00:00 AND 10-APR-2009:20:00:00; BETWEEN 12-APR-2009:10:00:00 AND 29-JAN-2010:00:00:00; VISIBILITY INTERVAL 56 M						
	Patterns	#	Primary Pattern		Secondary Pattern		Exposures
(1)		Pattern Type=SPIRAL Purpose=DITHER Number Of Points=5 Point Spacing=.559017 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=true			(1)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(3)	C1999J2-SKIFF	TYPE=COMET,Q=7.1097673564544 57,E=1.001101675093049,I=86.41280 725664923,O=50.04244056243946,W =127.1389583223235,T=05-APR- 2000:23:44:51,EQUINOX=J2000,EPO CH=22-APR-2000:00:00:00				EARTH
Comments: Acquisition Uncertainty: 2.4 Arcsec Ephemeris Uncertainty: 10000 Secs							

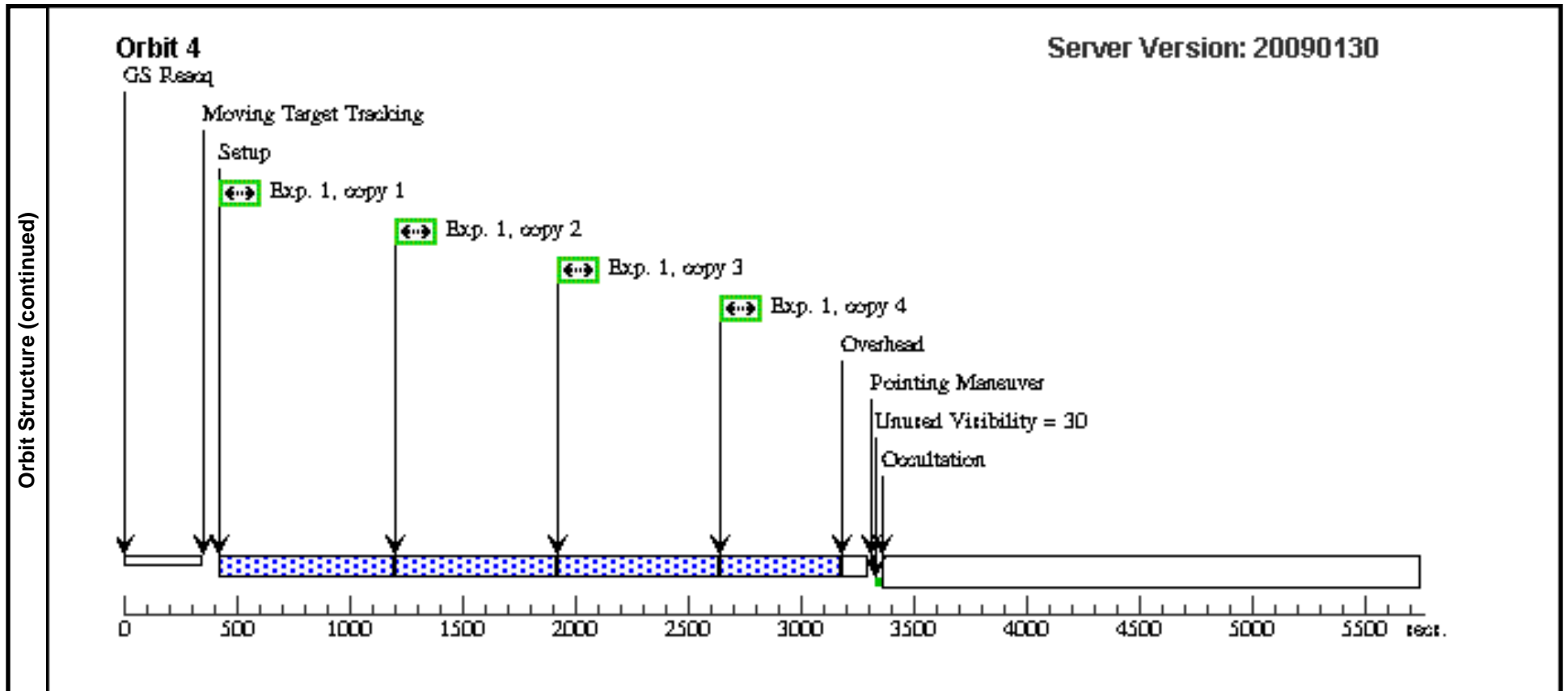
Proposal 11972 - Visit 32 - Investigating the Early Solar System with Distant Comet Nuclei

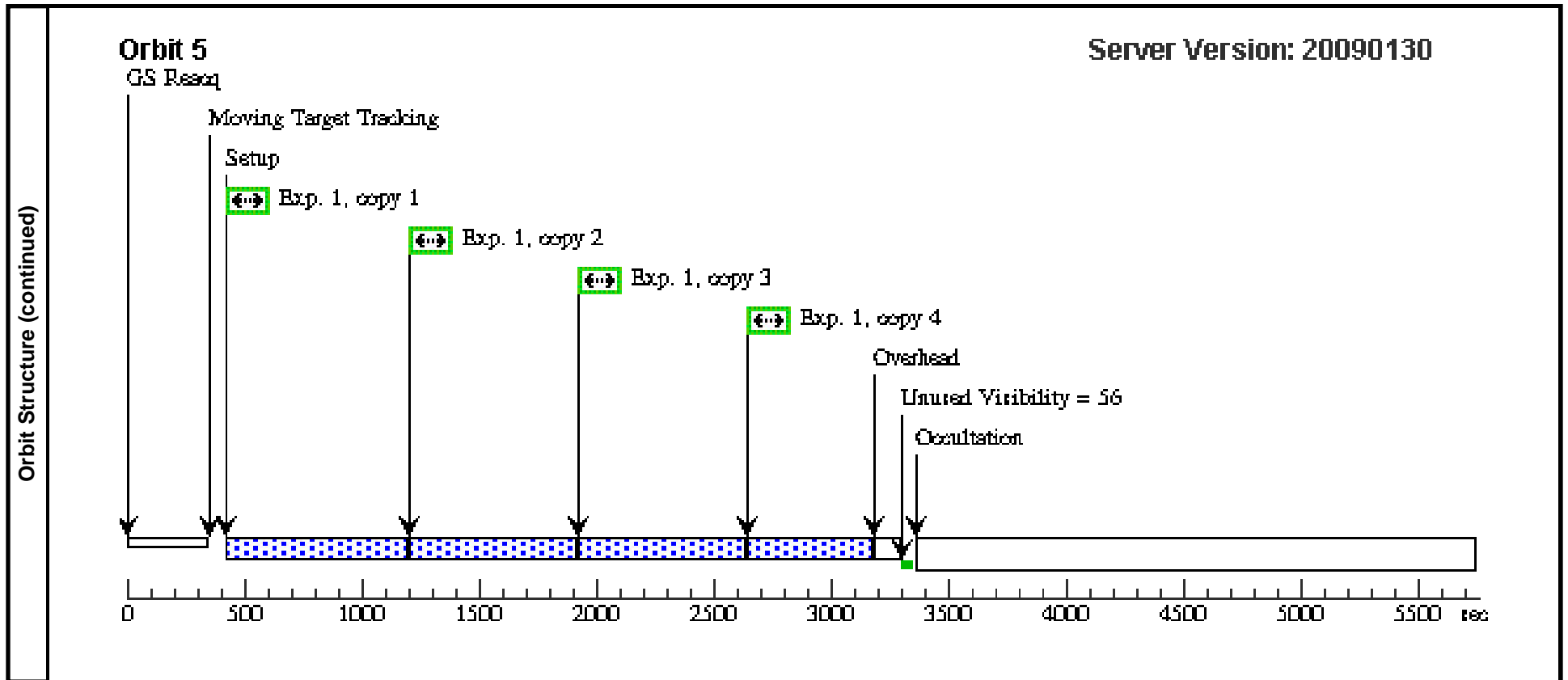
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	C1999J2-v2/ (3) C1999J2-SKIFF	WFPC2, IMAGE, WF3	F606W	CLOCKS=YES; CR-SPLIT=NO		Pattern 1-1 (1)	600 Secs X 4	
	3							[==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>500.0 Secs (Pattern 1, Copy 4)]	[1]
								[==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>500.0 Secs (Pattern 2, Copy 4)]	[2]
								[==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>500.0 Secs (Pattern 3, Copy 4)]	[3]
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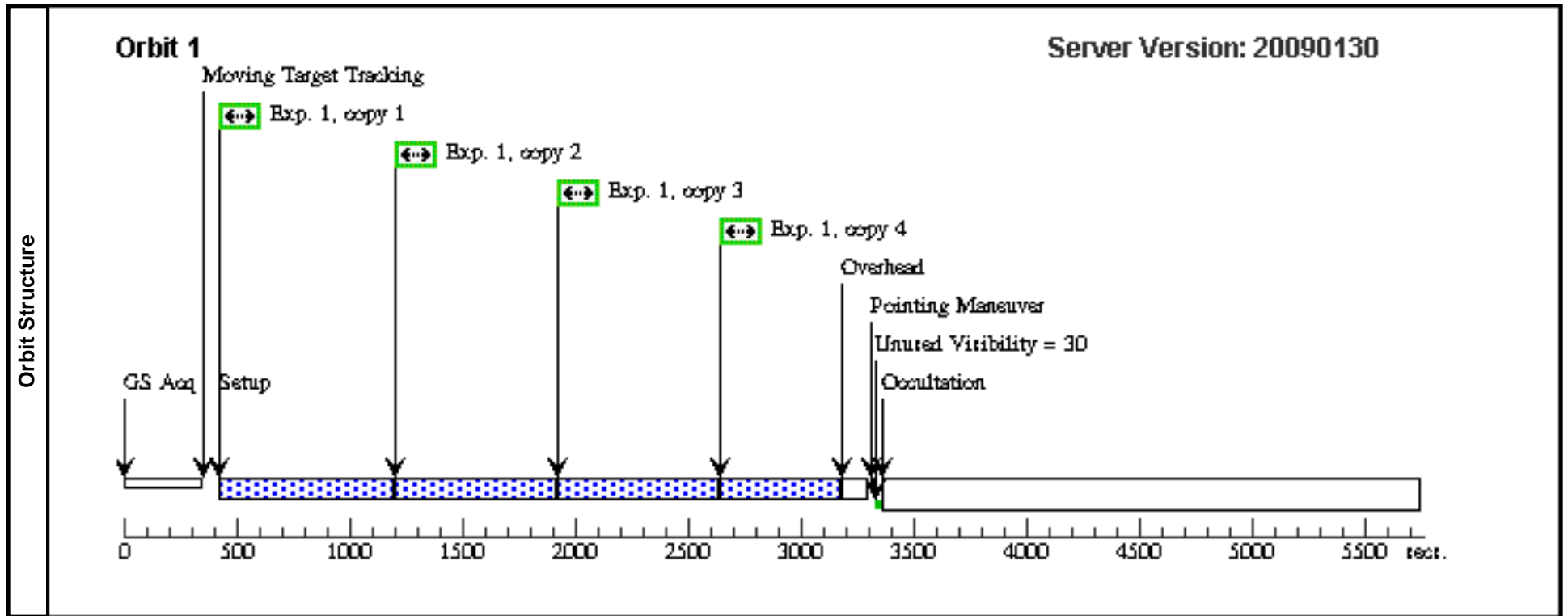
Proposal 11972 - Visit 33 - Investigating the Early Solar System with Distant Comet Nuclei

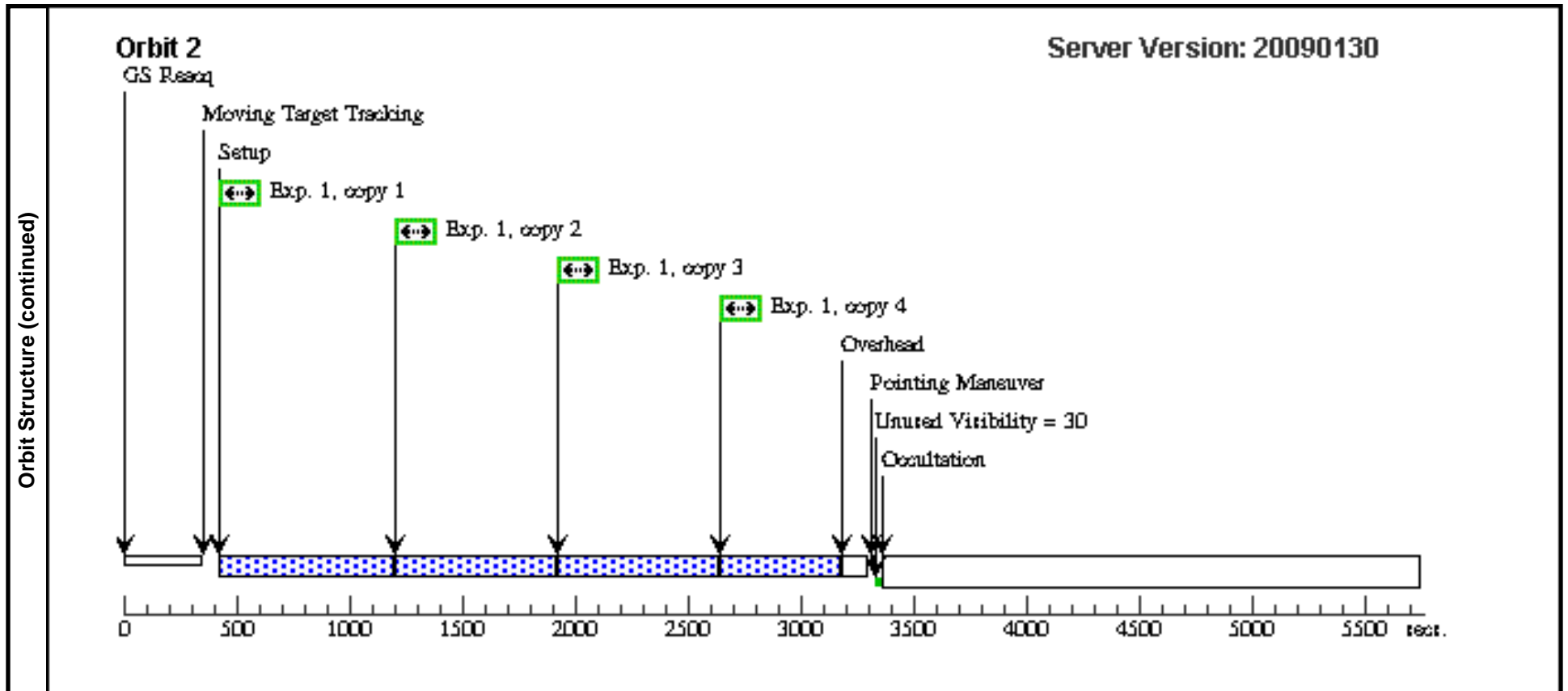
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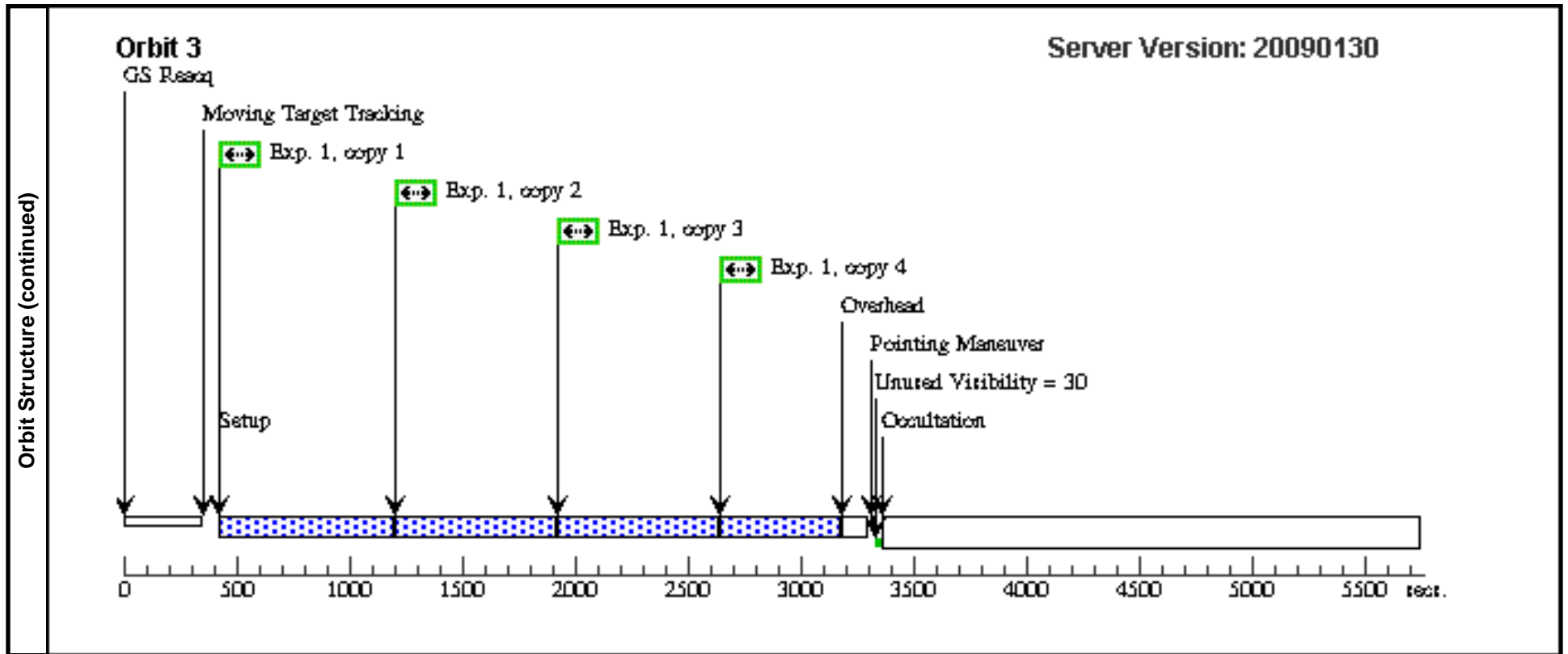
Visit	Proposal 11972, Visit 33, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BETWEEN 29-JAN-2009:20:11:07 AND 04-FEB-2009:02:00:00; BETWEEN 04-FEB-2009:22:00:00 AND 17-FEB-2009:10:00:00; BETWEEN 18-FEB-2009:04:00:00 AND 19-FEB-2009:18:00:00; BETWEEN 21-FEB-2009:00:00:00 AND 04-MAR-2009:20:00:00; BETWEEN 05-MAR-2009:14:00:00 AND 10-APR-2009:20:00:00; BETWEEN 12-APR-2009:10:00:00 AND 29-JAN-2010:00:00:00; VISIBILITY INTERVAL 56 M						
	Patterns	#	Primary Pattern		Secondary Pattern		Exposures
(1)		Pattern Type=SPIRAL Purpose=DITHER Number Of Points=5 Point Spacing=.559017 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=true			(1)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(3)	C1999J2-SKIFF	TYPE=COMET,Q=7.1097673564544 57,E=1.001101675093049,I=86.41280 725664923,O=50.04244056243946,W =127.1389583223235,T=05-APR- 2000:23:44:51,EQUINOX=J2000,EPO CH=22-APR-2000:00:00:00				
Comments: Acquisition Uncertainty: 2.4 Arcsec Ephemeris Uncertainty: 10000 Secs							

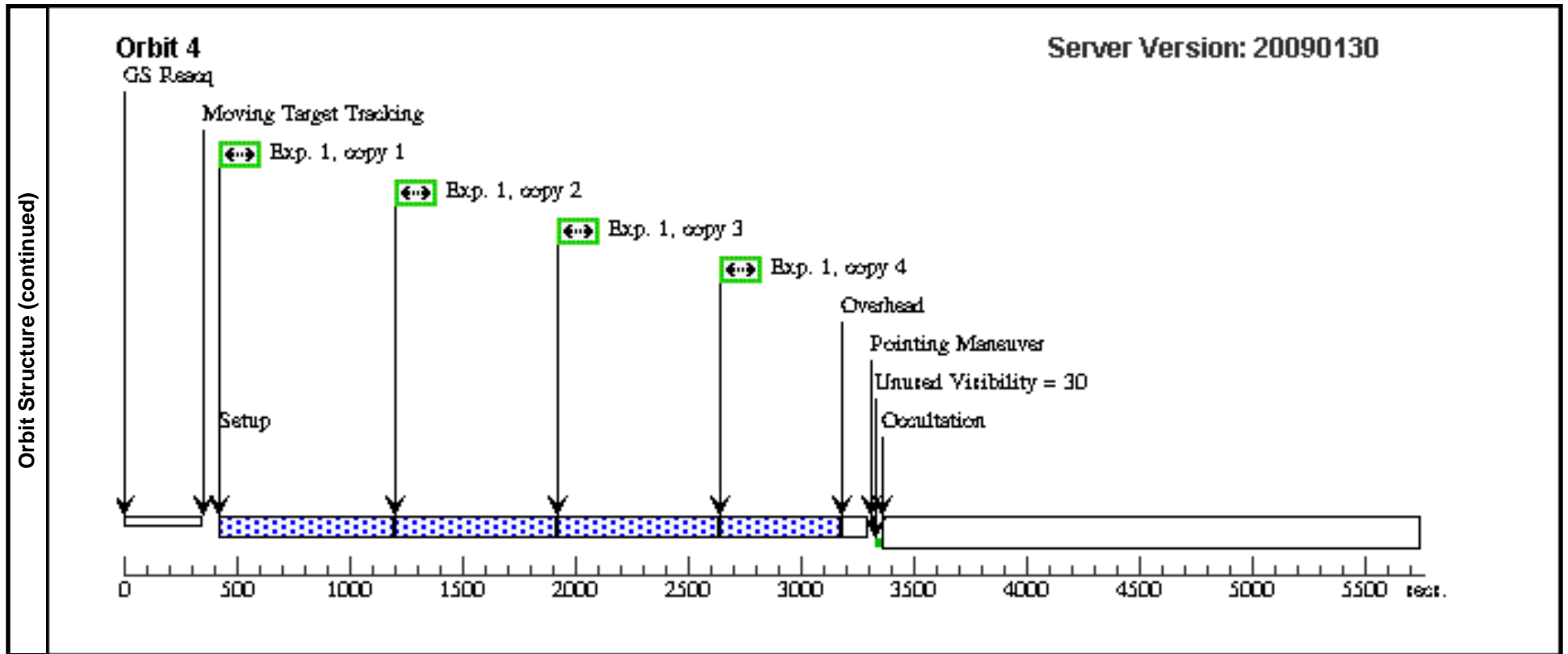
Proposal 11972 - Visit 33 - Investigating the Early Solar System with Distant Comet Nuclei

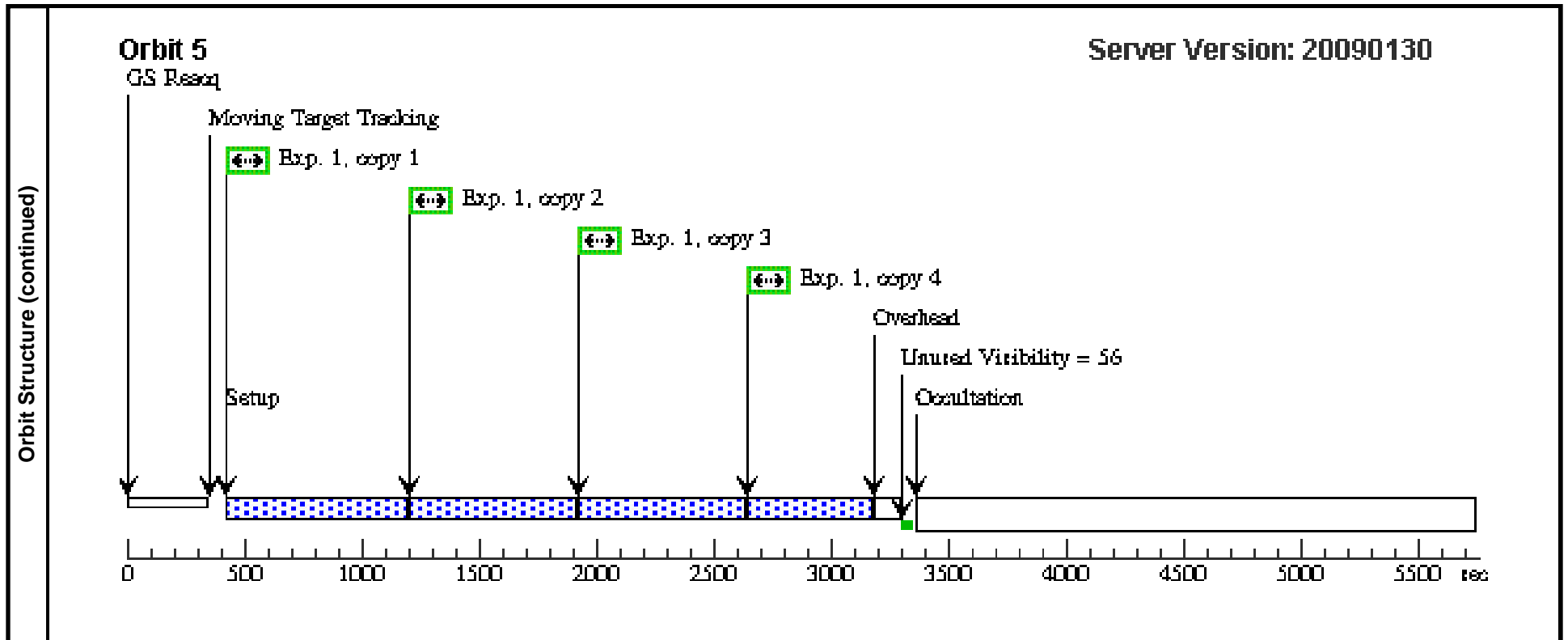
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	C1999J2-v3/ (3) C1999J2-SKIFF	WFPC2, IMAGE, WF3	F606W	CLOCKS=YES; CR-SPLIT=NO		Pattern 1-1 (1)	600 Secs X 4	
	3							[==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>500.0 Secs (Pattern 1, Copy 4)]	[1]
								[==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>500.0 Secs (Pattern 2, Copy 4)]	[2]
								[==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>500.0 Secs (Pattern 3, Copy 4)]	[3]
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Proposal 11972 - Visit 41 - Investigating the Early Solar System with Distant Comet Nuclei

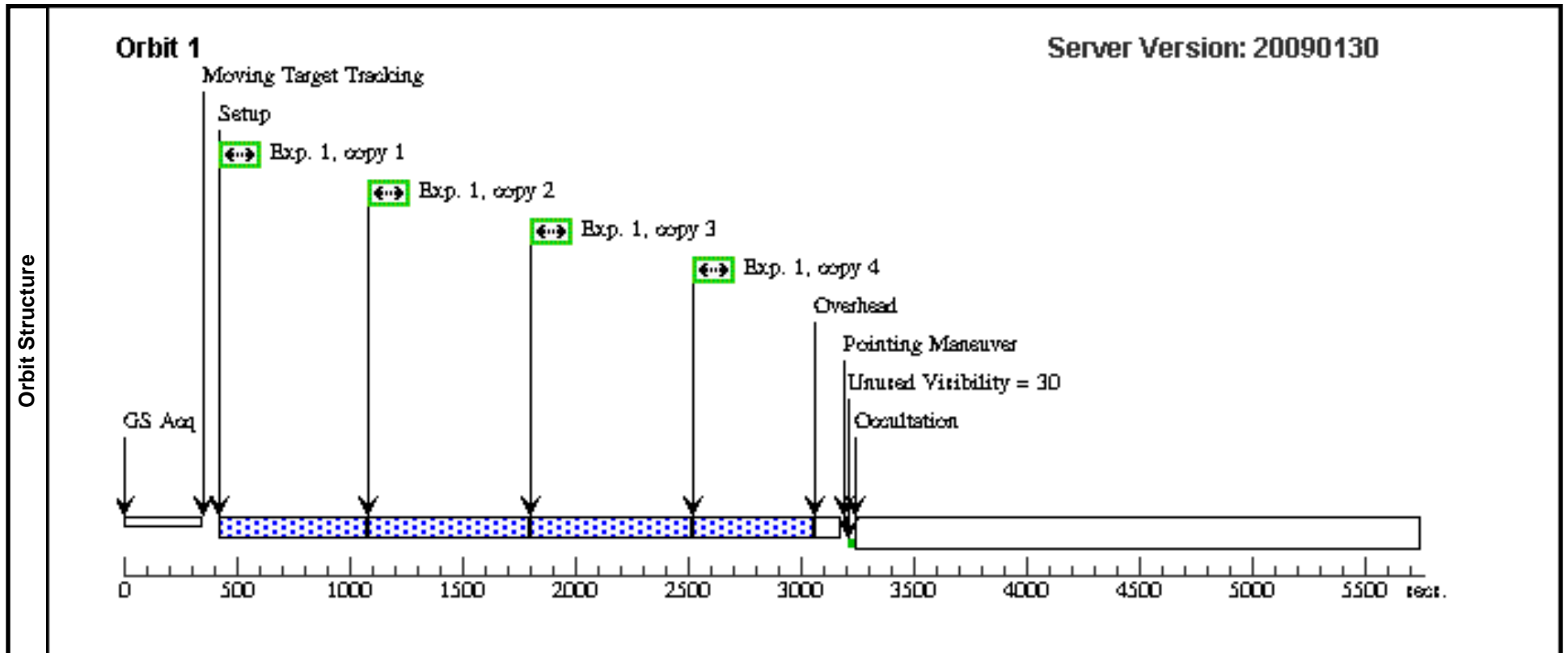
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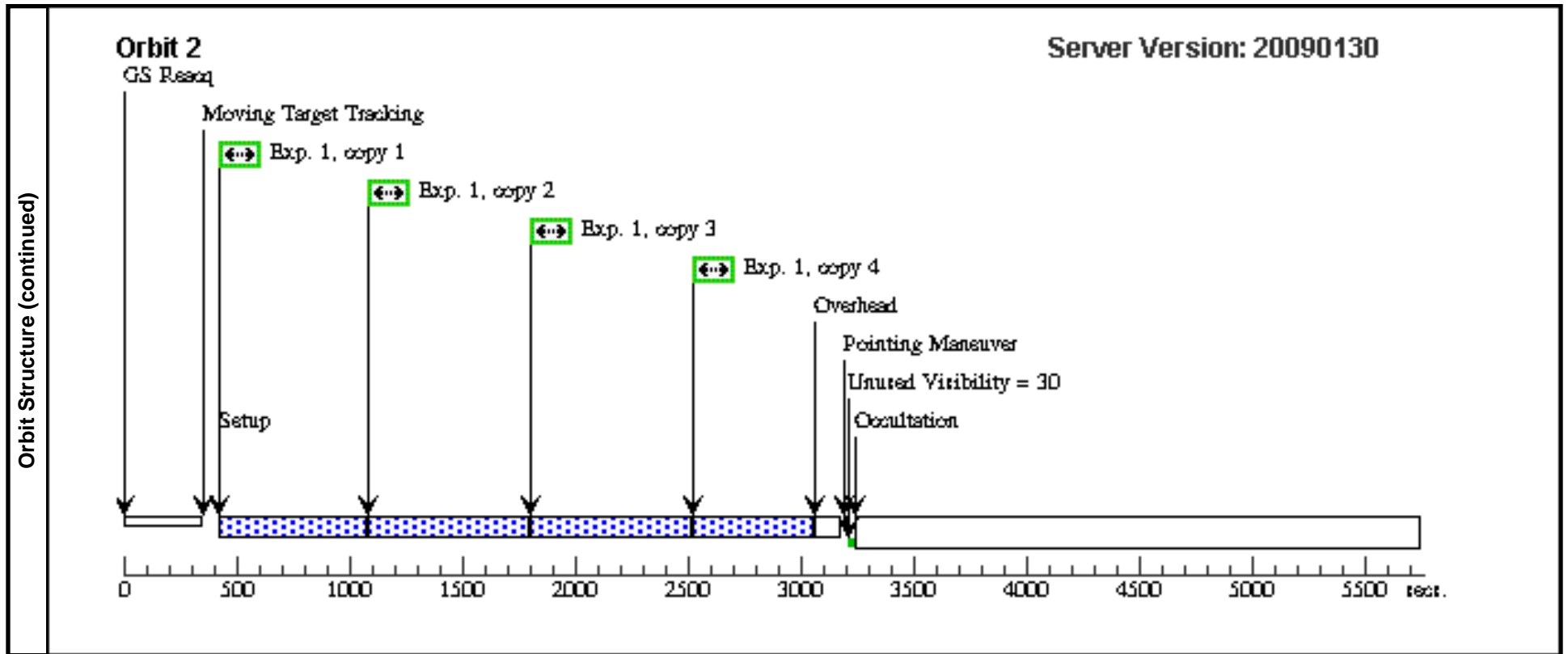
Visit	Proposal 11972, Visit 41, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BETWEEN 29-JAN-2009:00:00:00 AND 12-FEB-2009:14:00:00; BETWEEN 13-FEB-2009:16:00:00 AND 15-FEB-2009:12:00:00; BETWEEN 16-FEB-2009:18:00:00 AND 27-FEB-2009:06:00:00; BETWEEN 28-FEB-2009:12:00:00 AND 16-APR-2009:12:00:00; BETWEEN 17-APR-2009:04:00:00 AND 17-APR-2009:18:00:00; BETWEEN 19-APR-2009:16:00:00 AND 29-JAN-2010:00:00:00; VISIBILITY INTERVAL 54 M						
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=5 Point Spacing=.559017 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=true		(1)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(4)	C2001G1-LONEOS	TYPE=COMET,Q=8.2355014329104 27,E=1.002764861116039,I=45.36493 895590518,O=203.8909980220775,W =343.2804942621525,T=09-OCT- 2001:04:39:47,EQUINOX=J2000,EPO CH=01-JAN-2002:00:00:00				EARTH
	Comments: Acquisition Uncertainty: 8.4 Arcsec Ephemeris Uncertainty: 10000 Secs						

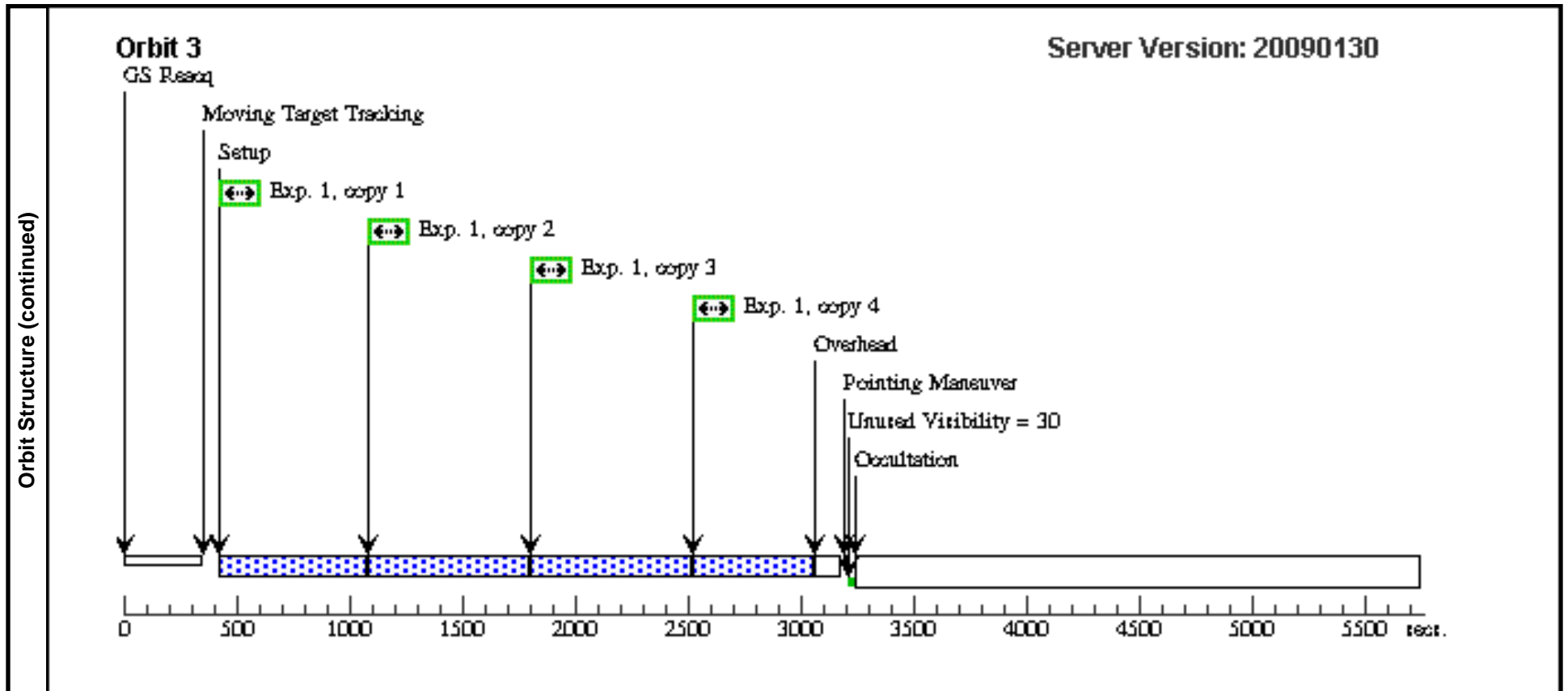
Proposal 11972 - Visit 41 - Investigating the Early Solar System with Distant Comet Nuclei

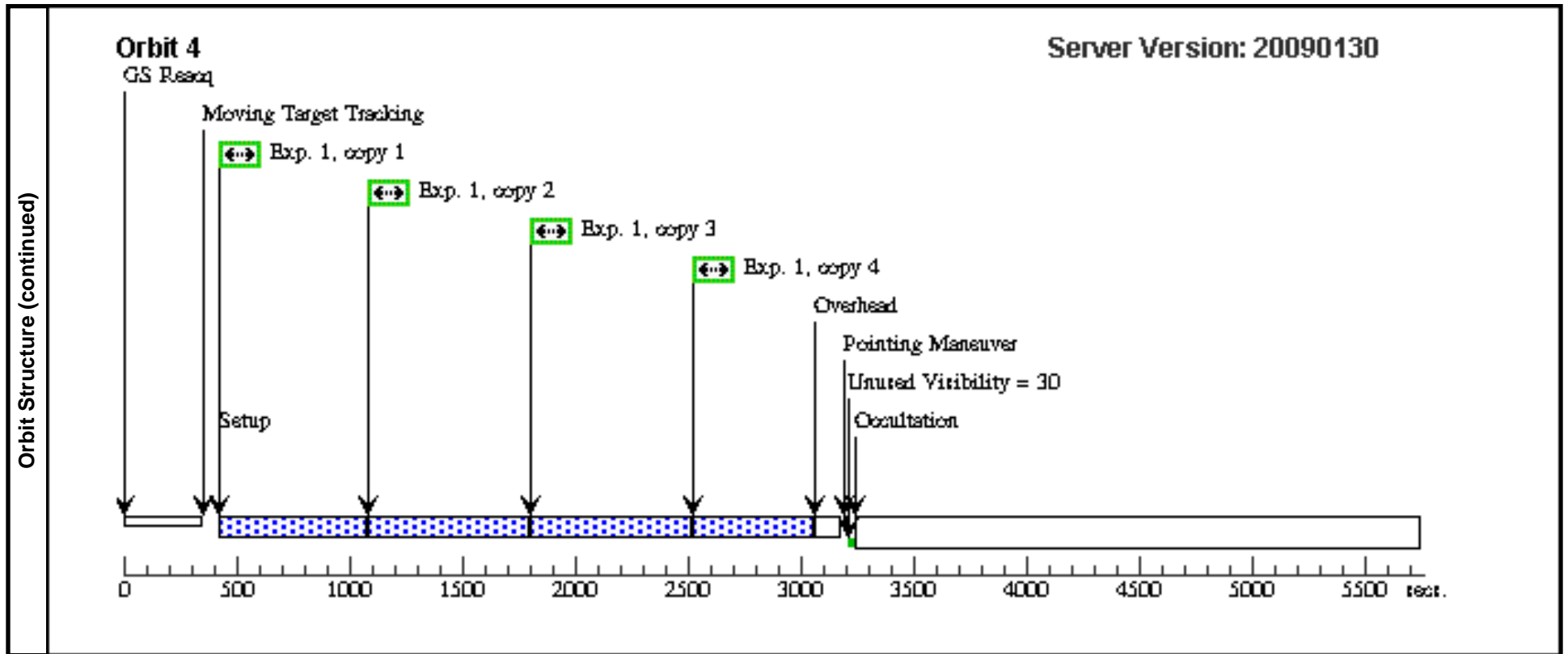
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	C2001G1-v 1/2	(4) C2001G1-LONE OS	WFPC2, IMAGE, WF3	F606W	CLOCKS=YES; CR-SPLIT=NO		Pattern 1-1 (1)	600 Secs X 4	
								[==>500.0 Secs (Pattern 1, Copy 1)]	[1]
								[==>(Pattern 1, Copy 2)]	
								[==>(Pattern 1, Copy 3)]	
								[==>500.0 Secs (Pattern 1, Copy 4)]	
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[==>(Pattern 2, Copy 2)]									
[==>(Pattern 2, Copy 3)]									
[==>500.0 Secs (Pattern 2, Copy 4)]									
[==>500 Secs (Pattern 3, Copy 1)]	[3]								
[==>(Pattern 3, Copy 2)]									
[==>(Pattern 3, Copy 3)]									
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[==>(Pattern 4, Copy 3)]									
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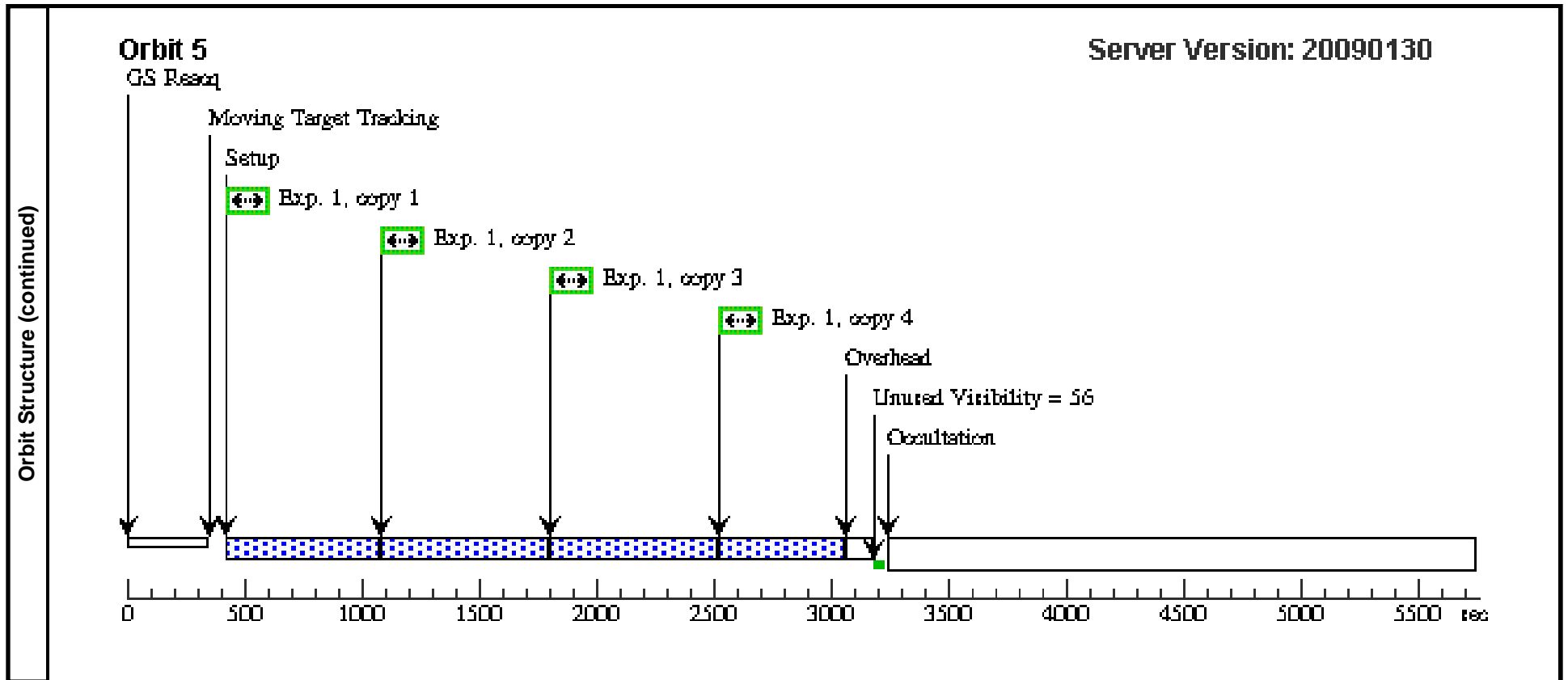
Exposures











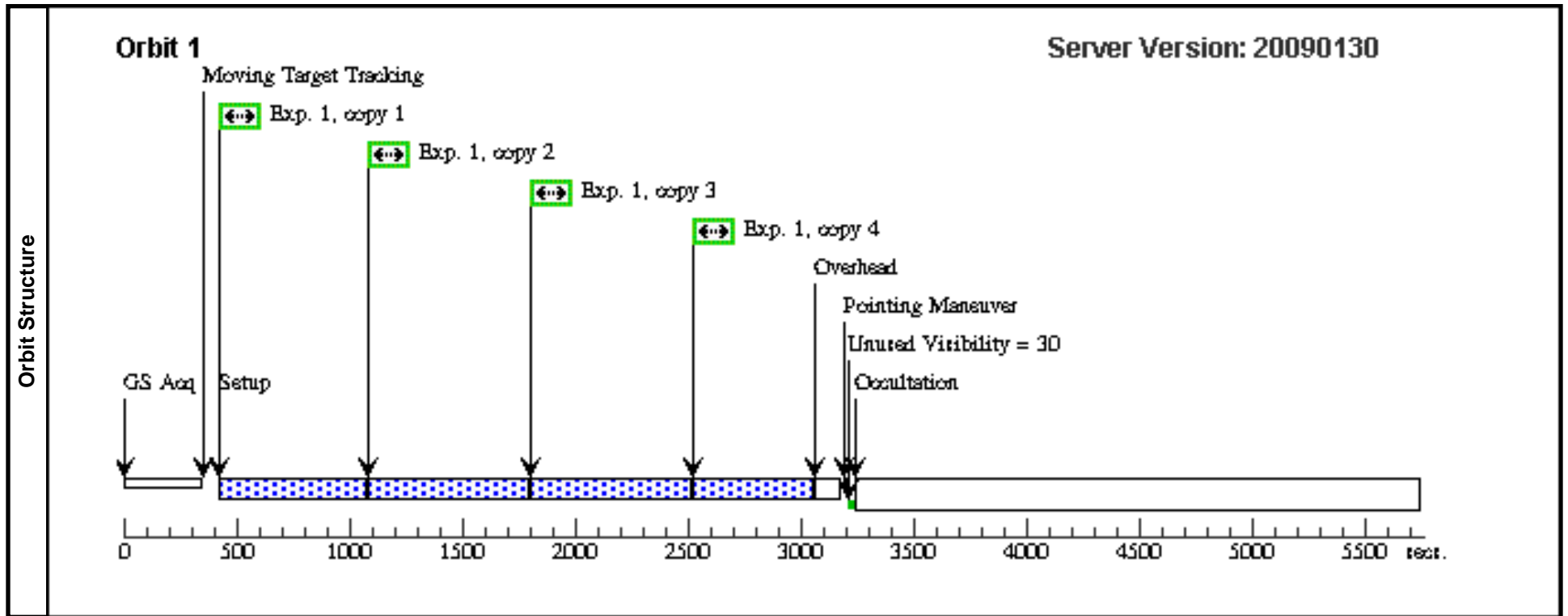
Proposal 11972 - Visit 42 - Investigating the Early Solar System with Distant Comet Nuclei

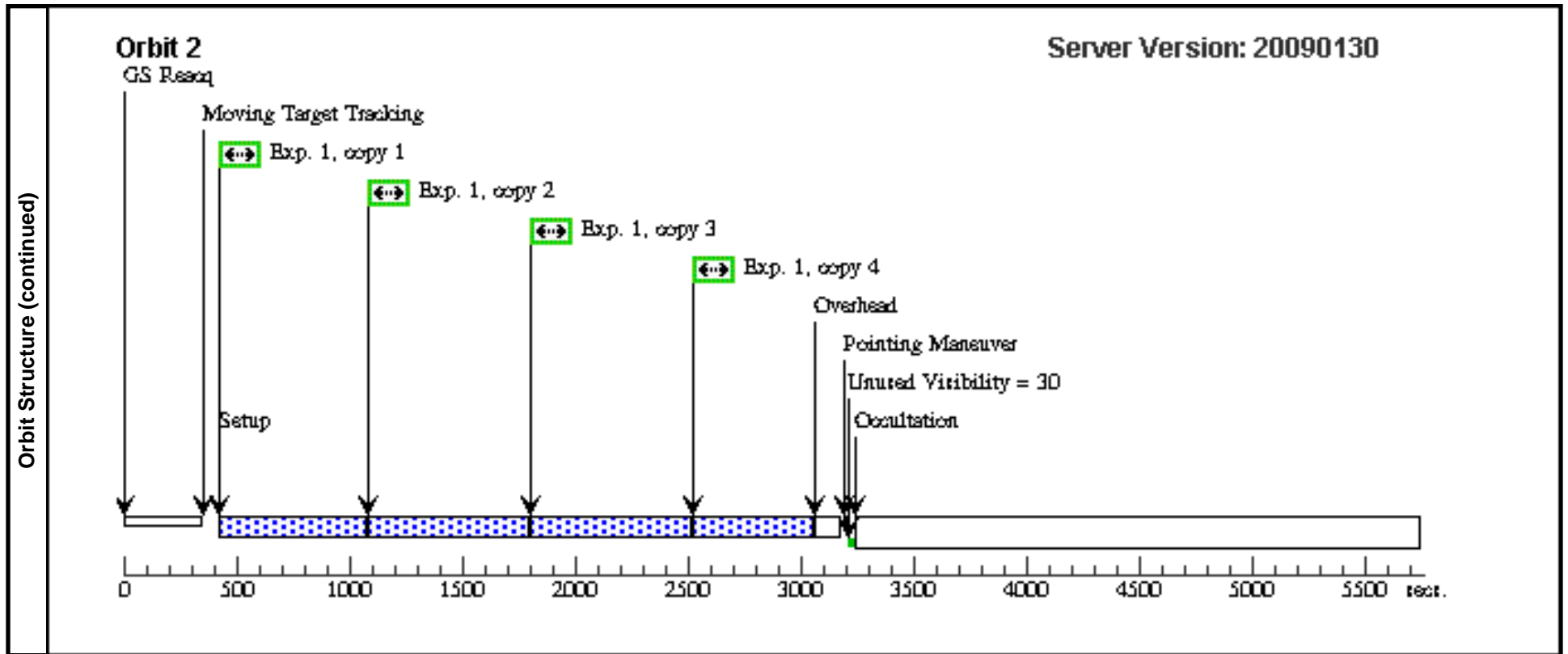
Thu Mar 26 01:37:46 GMT 2009

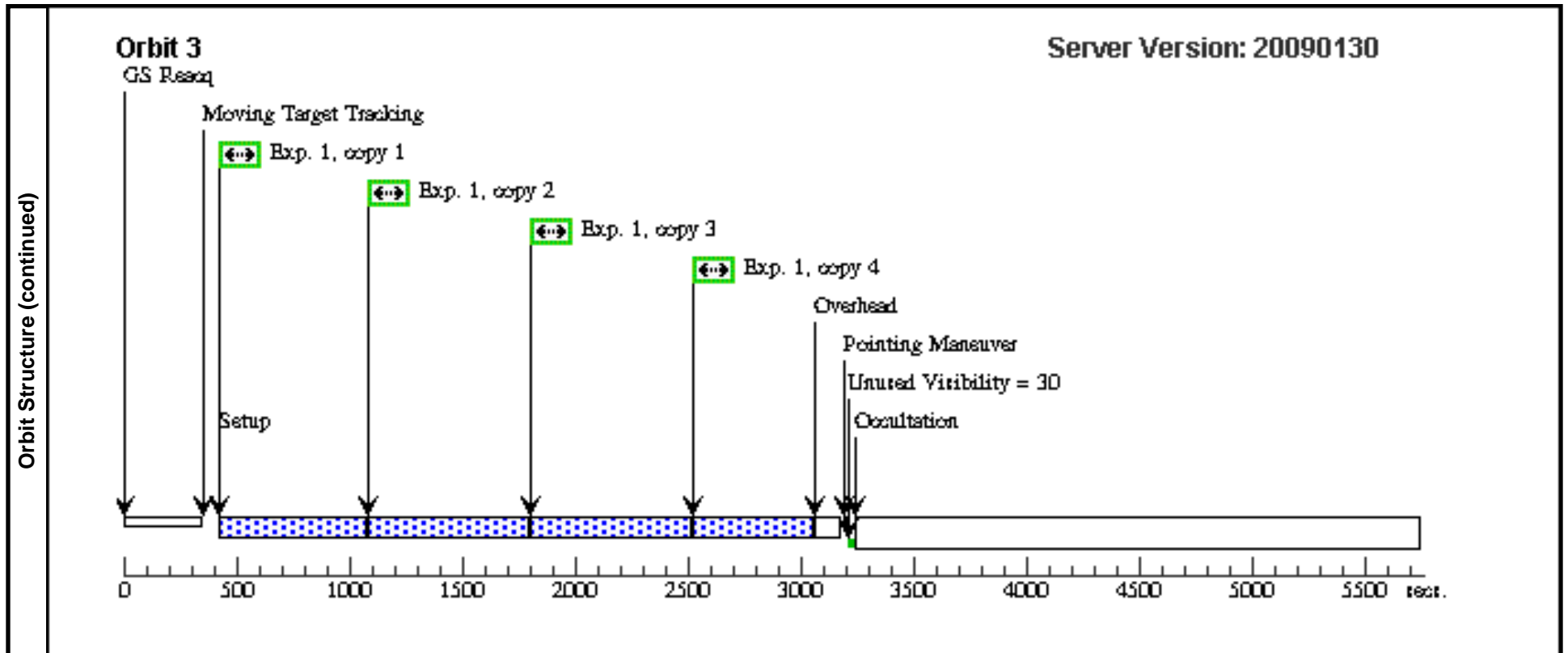
Visit	Proposal 11972, Visit 42, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BETWEEN 29-JAN-2009:00:00:00 AND 12-FEB-2009:14:00:00; BETWEEN 13-FEB-2009:16:00:00 AND 15-FEB-2009:12:00:00; BETWEEN 16-FEB-2009:18:00:00 AND 27-FEB-2009:06:00:00; BETWEEN 28-FEB-2009:12:00:00 AND 16-APR-2009:12:00:00; BETWEEN 17-APR-2009:04:00:00 AND 17-APR-2009:18:00:00; BETWEEN 19-APR-2009:16:00:00 AND 29-JAN-2010:00:00:00; VISIBILITY INTERVAL 54 M						
	Patterns	#	Primary Pattern		Secondary Pattern		Exposures
(1)		Pattern Type=SPIRAL Purpose=DITHER Number Of Points=5 Point Spacing=.559017 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=true			(1)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(4)	C2001G1-LONEOS	TYPE=COMET,Q=8.2355014329104 27,E=1.002764861116039,I=45.36493 895590518,O=203.8909980220775,W =343.2804942621525,T=09-OCT- 2001:04:39:47,EQUINOX=J2000,EPO CH=01-JAN-2002:00:00:00				EARTH
	Comments: Acquisition Uncertainty: 8.4 Arcsec Ephemeris Uncertainty: 10000 Secs						

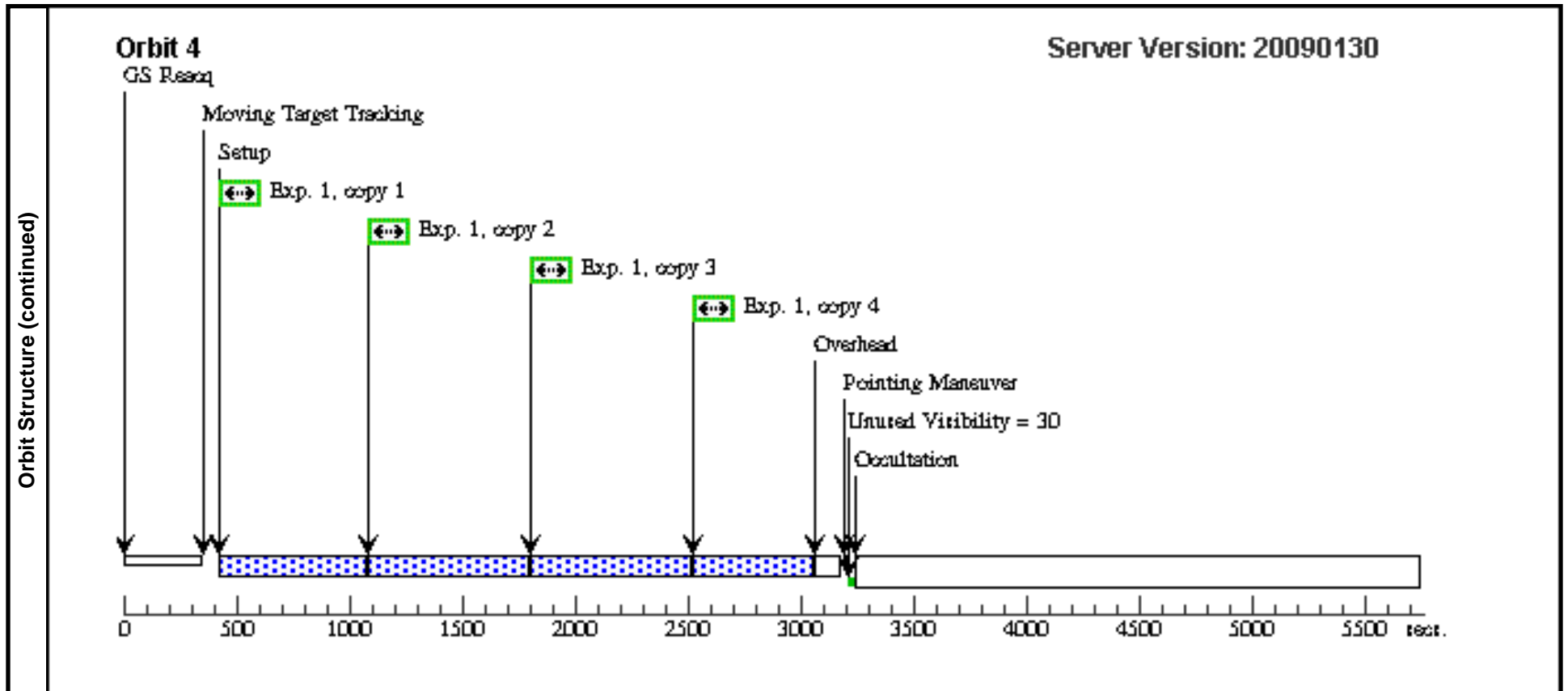
Proposal 11972 - Visit 42 - Investigating the Early Solar System with Distant Comet Nuclei

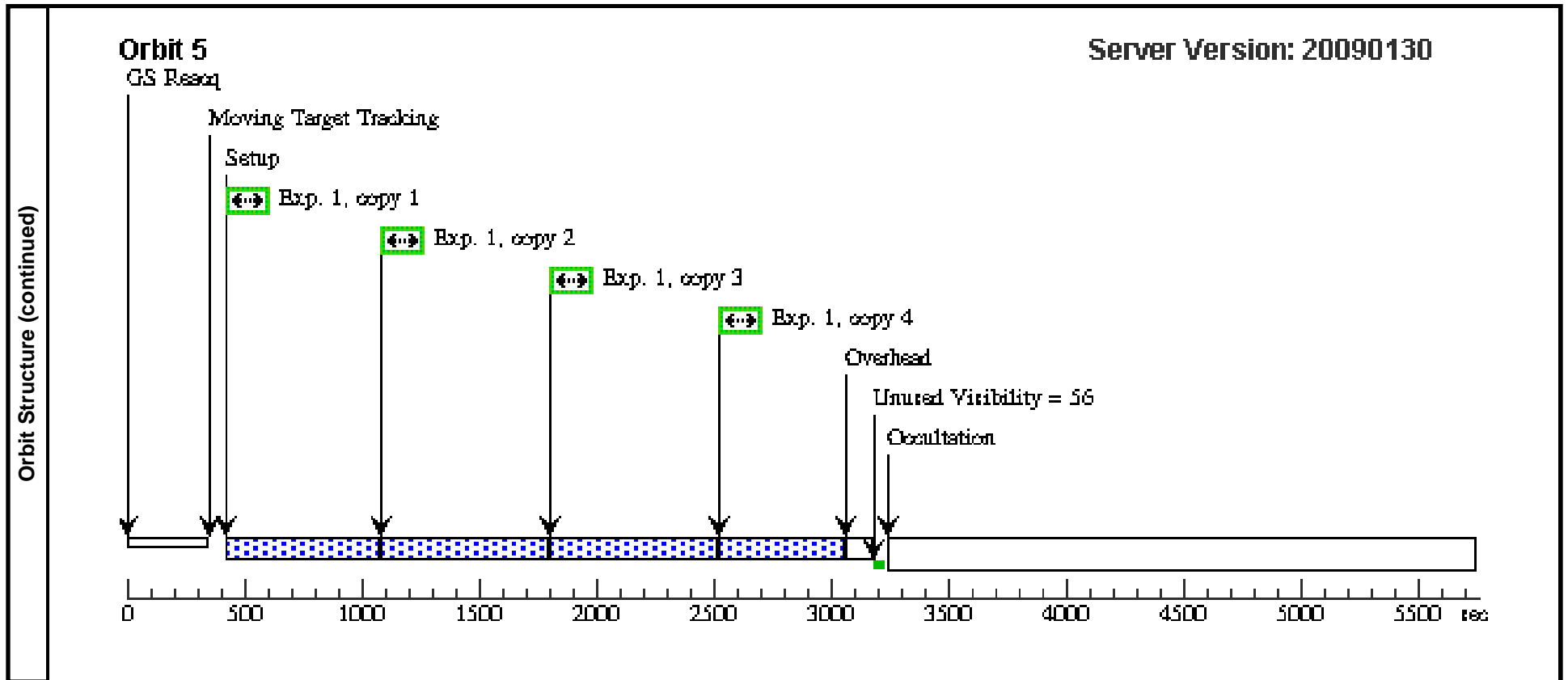
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Exposures	1	C2001G1-v 2/2	(4) C2001G1-LONE OS	WFPC2, IMAGE, WF3	F606W	CLOCKS=YES; CR-SPLIT=NO	Pattern 1-1 (1)	600 Secs X 4	
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[==>(Pattern 2, Copy 2)]									
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[==>(Pattern 3, Copy 2)]									
[==>(Pattern 3, Copy 3)]									
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[==>500 Secs (Pattern 5, Copy 1)]	[5]								
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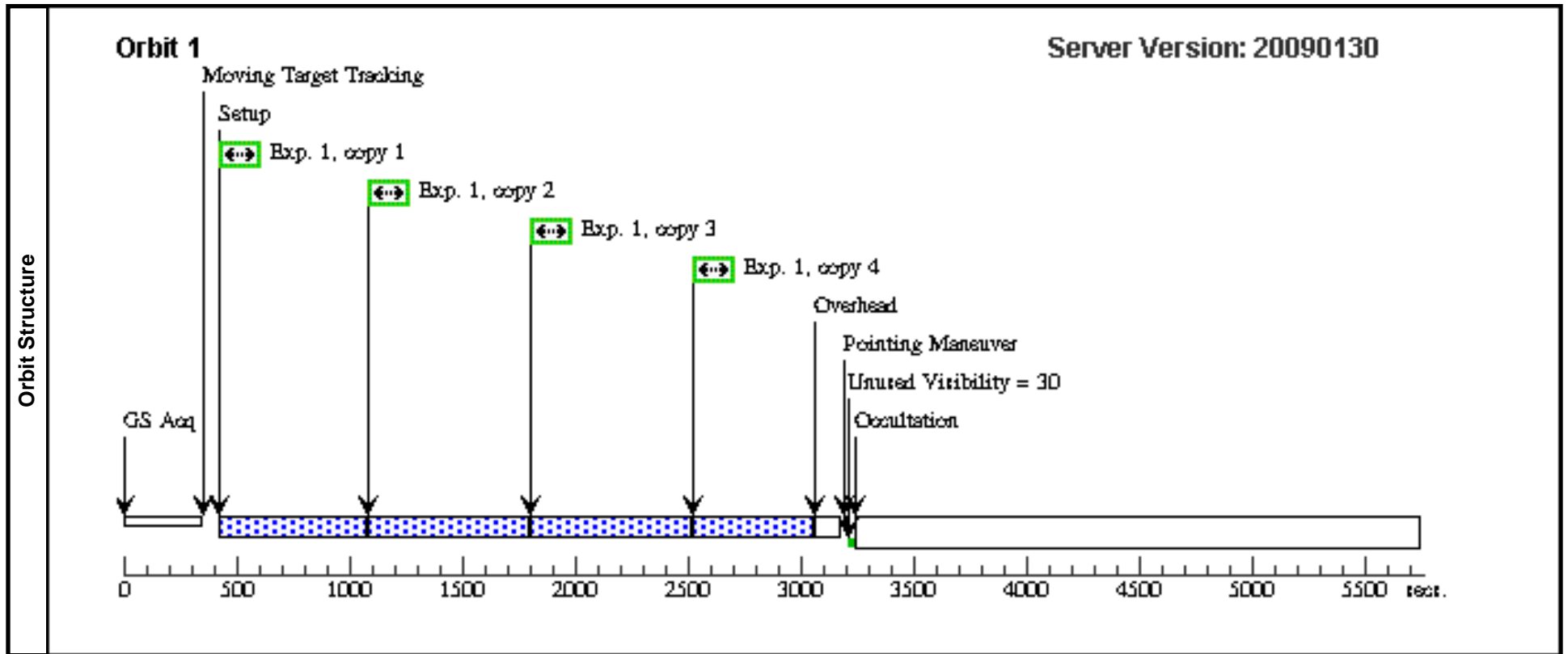
Proposal 11972 - Visit 51 - Investigating the Early Solar System with Distant Comet Nuclei

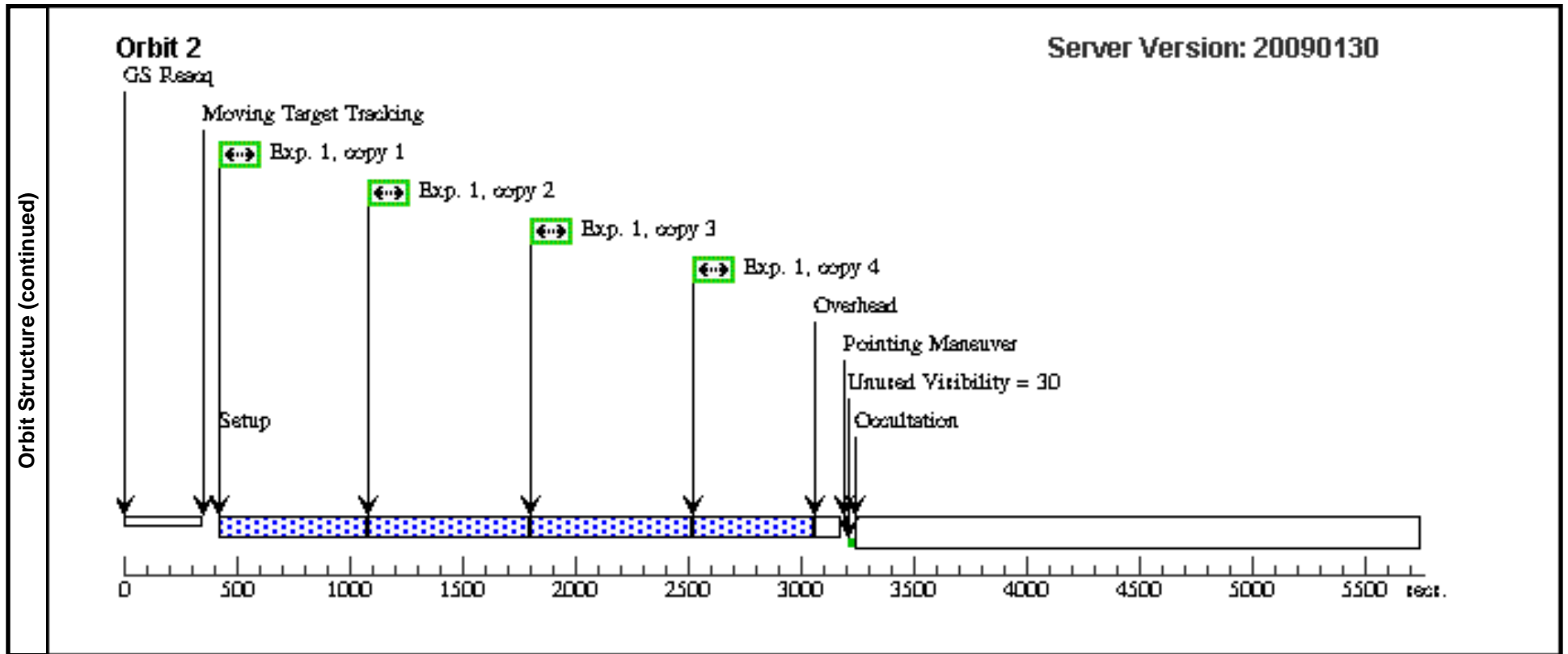
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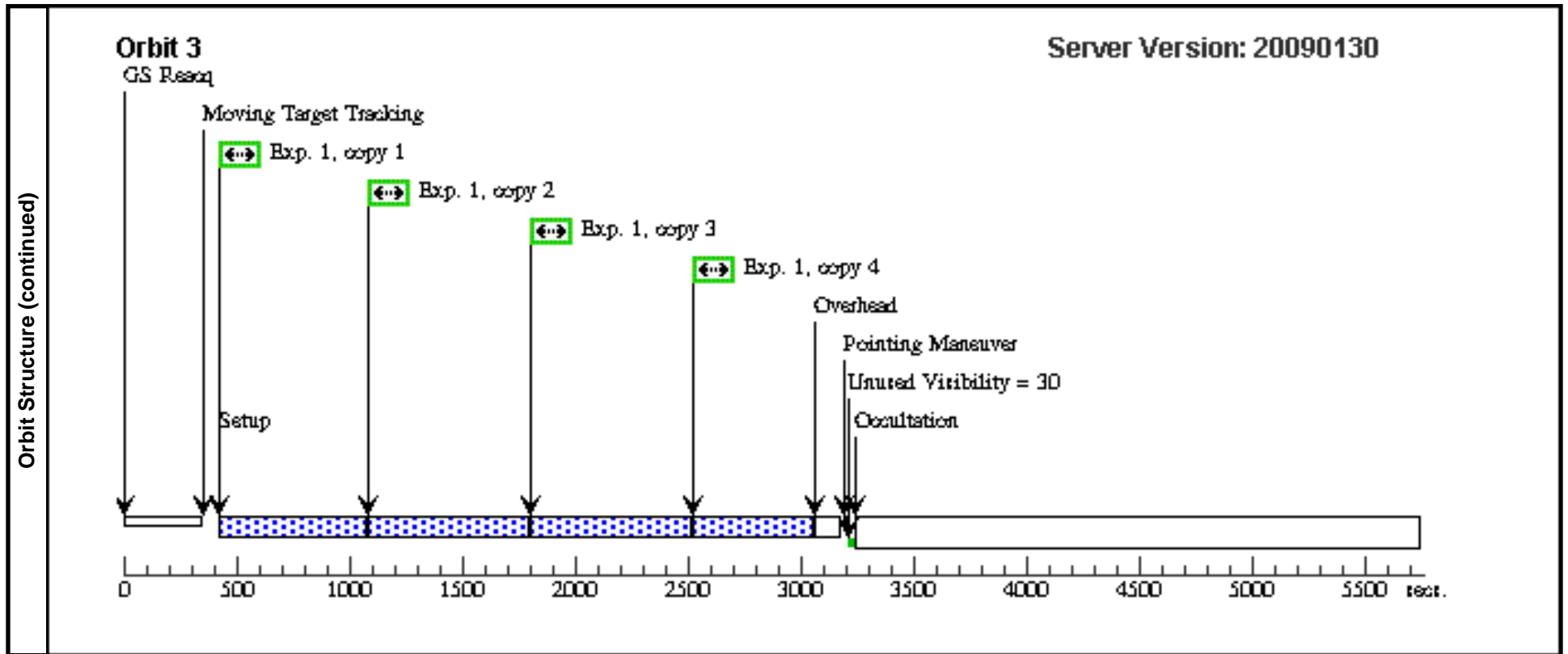
Visit	Proposal 11972, Visit 51, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BETWEEN 29-JAN-2009:21:44:08 AND 15-FEB-2009:12:00:00; BETWEEN 17-FEB-2009:12:00:00 AND 20-FEB-2009:02:00:00; BETWEEN 23-FEB-2009:00:00:00 AND 27-FEB-2009:14:00:00; BETWEEN 28-FEB-2009:22:00:00 AND 06-MAR-2009:04:00:00; BETWEEN 07-MAR-2009:08:00:00 AND 29-JAN-2010:00:00:00; VISIBILITY INTERVAL 54 M						
	Patterns	#	Primary Pattern		Secondary Pattern		Exposures
	(1)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=5 Point Spacing=.559017 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=true			(1)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(5)	C2003A2- GLEASON	TYPE=COMET,Q=11.427271666084 56,E=1.006940290709539,I=8.061451 328647777,O=154.5443060292772,W =346.6110937403476,T=04-NOV- 2003:06:18:19,EQUINOX=J2000,EPO CH=06-MAY-2003:00:00:00				EARTH
	Comments: Acquisition Uncertainty: 7.6 Arcsec Ephemeris Uncertainty: 10000 Secs						

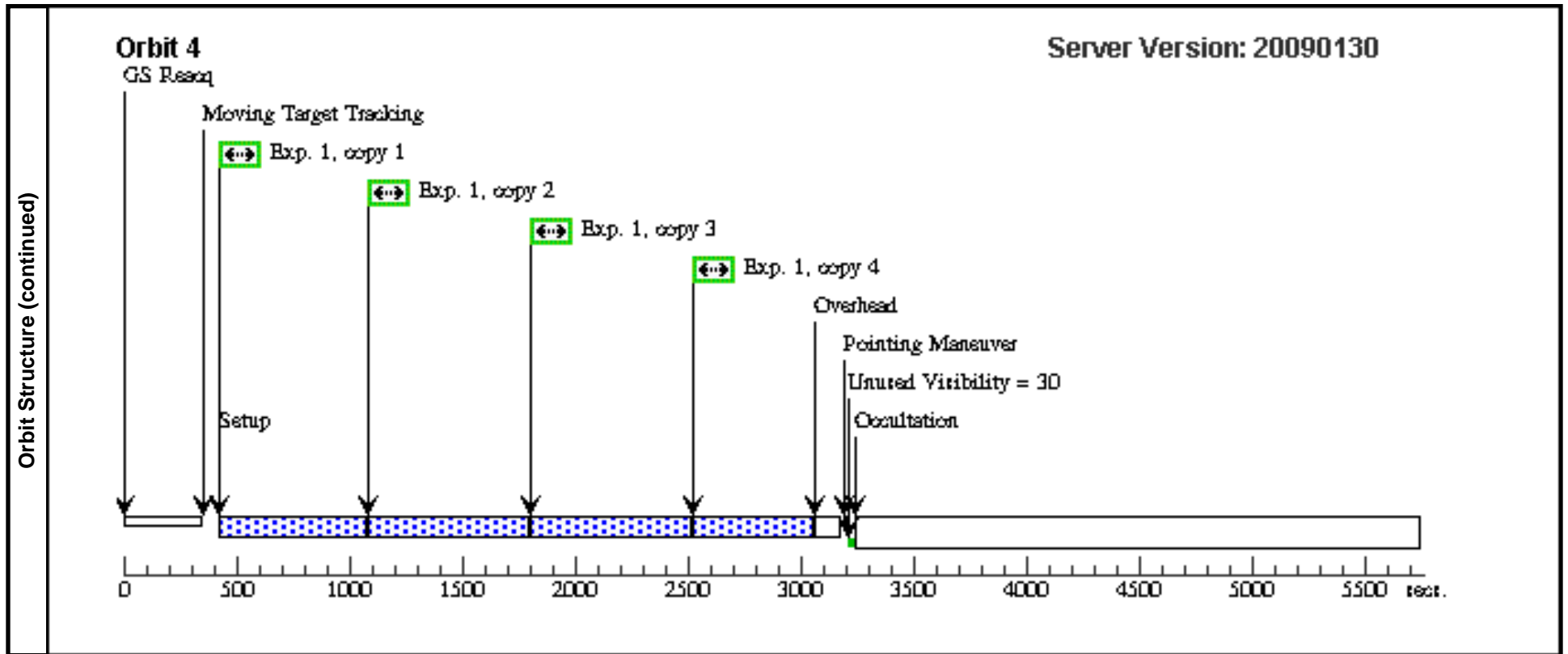
Proposal 11972 - Visit 51 - Investigating the Early Solar System with Distant Comet Nuclei

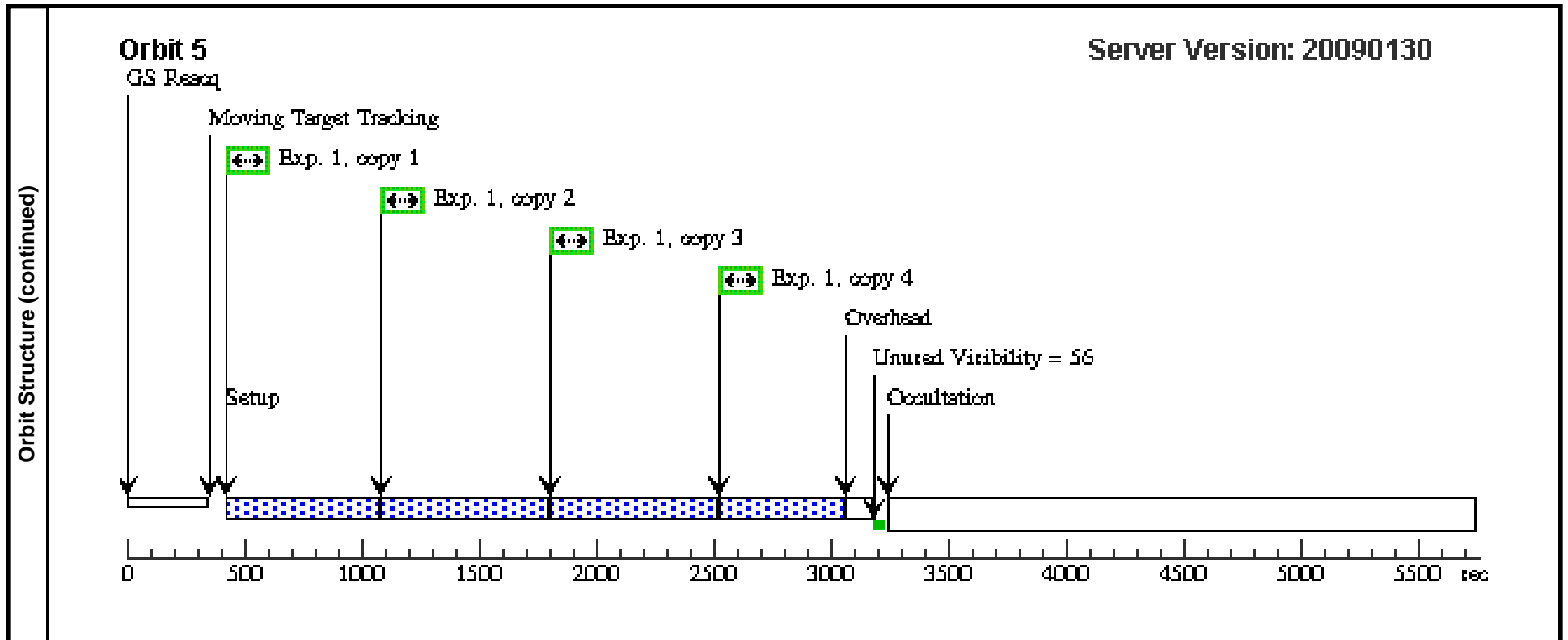
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Exposures	1	C2003A2-v 1/2	(5) C2003A2-GLEA SON	WFPC2, IMAGE, WF3	F606W	CLOCKS=YES; CR-SPLIT=NO	Pattern 1-1 (1)	600 Secs X 4	
								[==>500.0 Secs (Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>500.0 Secs (Pattern 1, Copy 4)]	[1]
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								[==>500.0 Secs (Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>500.0 Secs (Pattern 3, Copy 4)]	[3]
								[==>500.0 Secs (Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>500.0 Secs (Pattern 4, Copy 4)]	[4]
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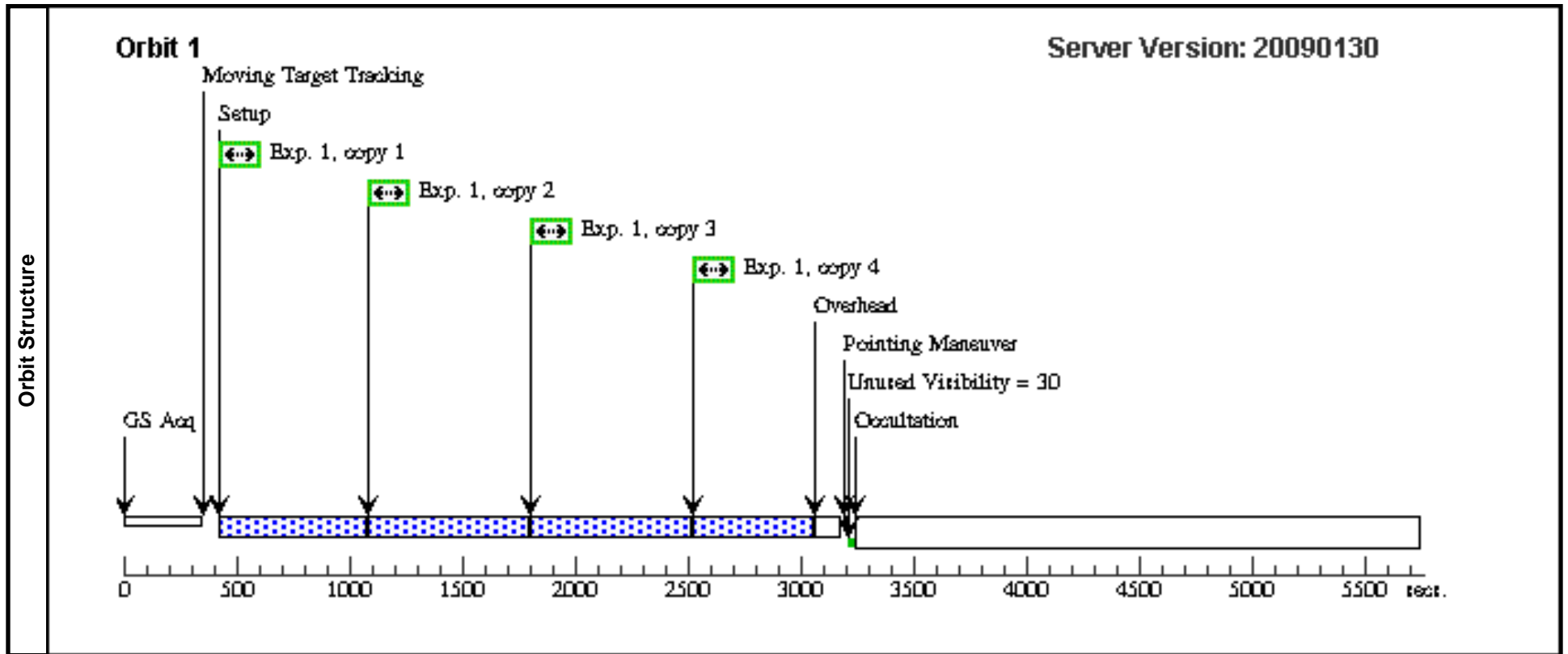
Proposal 11972 - Visit 52 - Investigating the Early Solar System with Distant Comet Nuclei

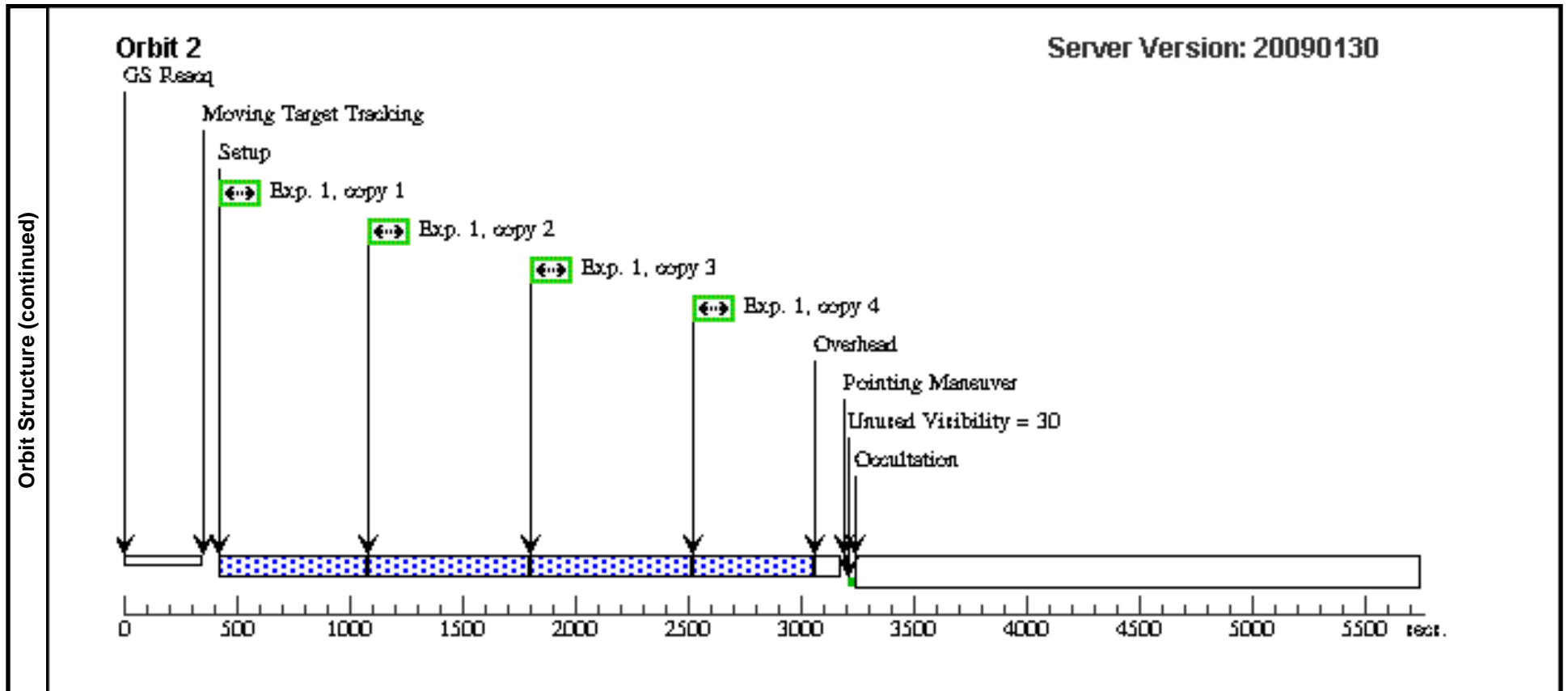
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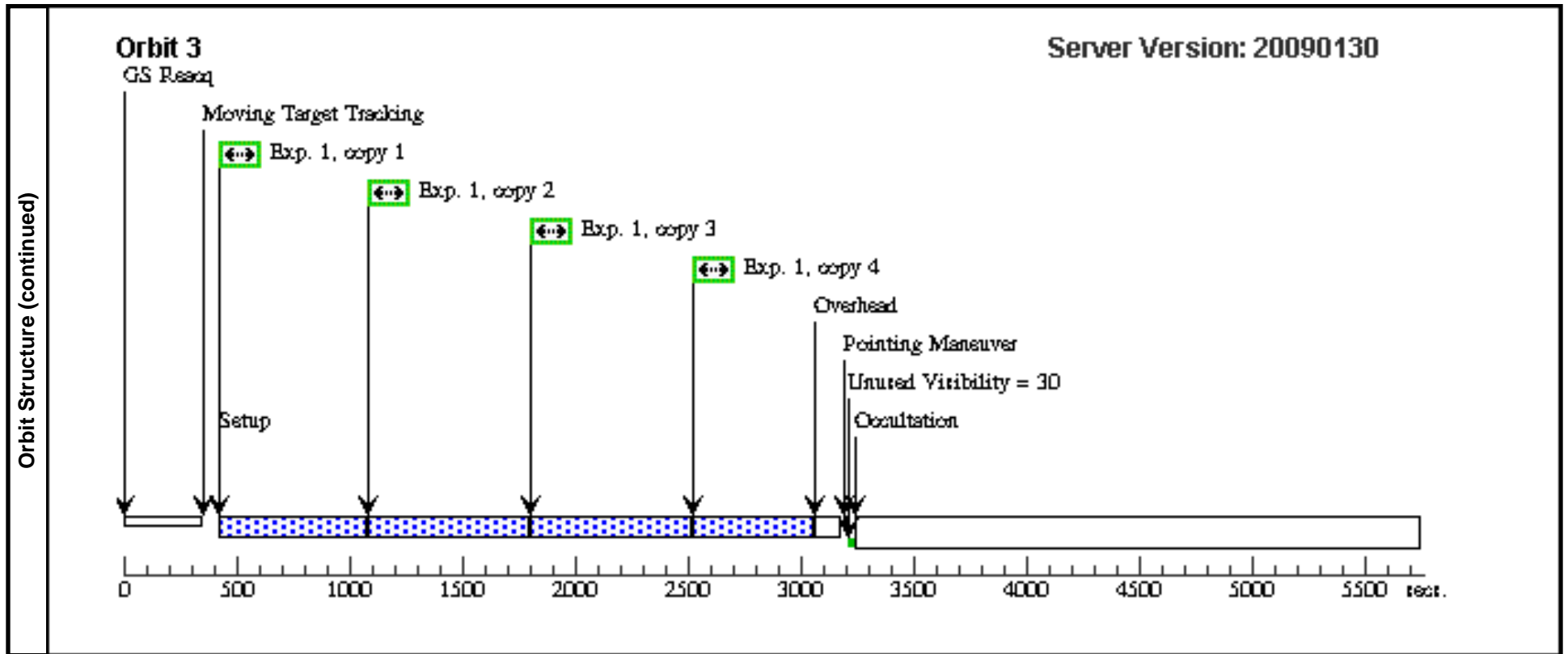
Visit	Proposal 11972, Visit 52, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BETWEEN 29-JAN-2009:21:44:08 AND 15-FEB-2009:12:00:00; BETWEEN 17-FEB-2009:12:00:00 AND 20-FEB-2009:02:00:00; BETWEEN 23-FEB-2009:00:00:00 AND 27-FEB-2009:14:00:00; BETWEEN 28-FEB-2009:22:00:00 AND 06-MAR-2009:04:00:00; BETWEEN 07-MAR-2009:08:00:00 AND 29-JAN-2010:00:00:00; VISIBILITY INTERVAL 54 M														
	Patterns	<table border="1"> <thead> <tr> <th>#</th> <th>Primary Pattern</th> <th>Secondary Pattern</th> <th>Exposures</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td> Pattern Type=SPIRAL Purpose=DITHER Number Of Points=5 Point Spacing=.559017 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=true </td> <td></td> <td>(1)</td> </tr> </tbody> </table>	#	Primary Pattern	Secondary Pattern	Exposures	(1)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=5 Point Spacing=.559017 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=true		(1)					
#	Primary Pattern	Secondary Pattern	Exposures												
(1)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=5 Point Spacing=.559017 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=true		(1)												
Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(5)</td> <td>C2003A2- GLEASON</td> <td> TYPE=COMET,Q=11.427271666084 56,E=1.006940290709539,I=8.061451 328647777,O=154.5443060292772,W =346.6110937403476,T=04-NOV- 2003:06:18:19,EQUINOX=J2000,EPO CH=06-MAY-2003:00:00:00 </td> <td></td> <td></td> <td></td> <td>EARTH</td> </tr> </tbody> </table> <p><i>Comments:</i> Acquisition Uncertainty: 7.6 Arcsec Ephemeris Uncertainty: 10000 Secs</p>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(5)	C2003A2- GLEASON	TYPE=COMET,Q=11.427271666084 56,E=1.006940290709539,I=8.061451 328647777,O=154.5443060292772,W =346.6110937403476,T=04-NOV- 2003:06:18:19,EQUINOX=J2000,EPO CH=06-MAY-2003:00:00:00				EARTH
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center									
(5)	C2003A2- GLEASON	TYPE=COMET,Q=11.427271666084 56,E=1.006940290709539,I=8.061451 328647777,O=154.5443060292772,W =346.6110937403476,T=04-NOV- 2003:06:18:19,EQUINOX=J2000,EPO CH=06-MAY-2003:00:00:00				EARTH									

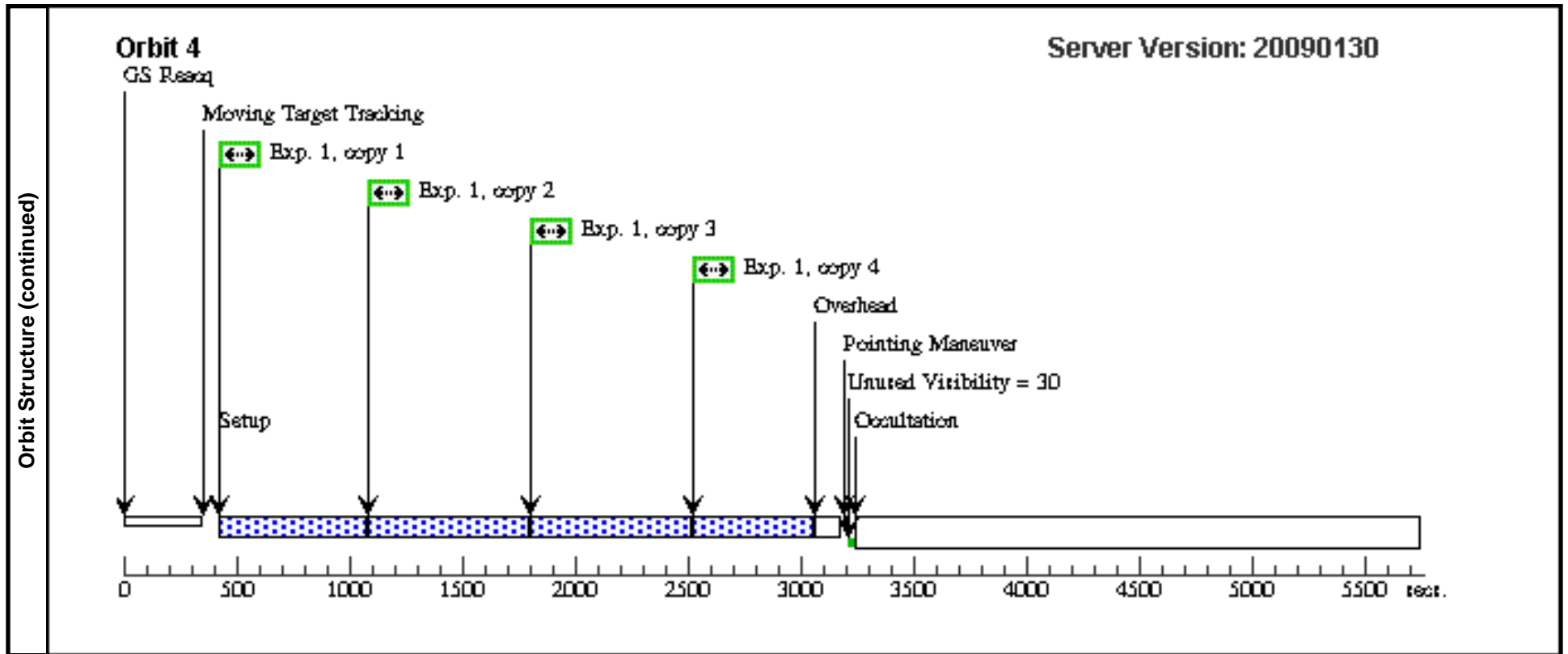
Proposal 11972 - Visit 52 - Investigating the Early Solar System with Distant Comet Nuclei

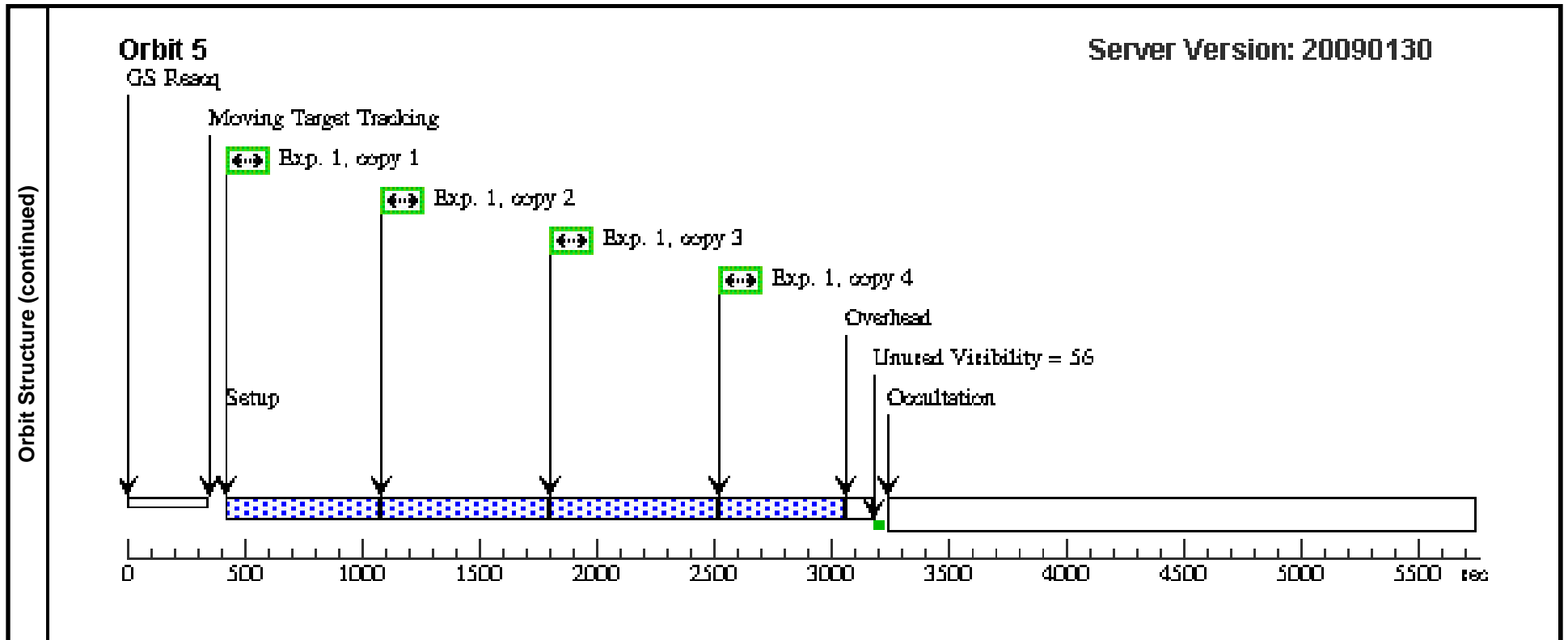
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	C2003A2-v 2/2	(5) C2003A2-GLEA SON	WFPC2, IMAGE, WF3	F606W	CLOCKS=YES; CR-SPLIT=NO	Pattern 1-1 (1)	600 Secs X 4	
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								[==>500.0 Secs (Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>500.0 Secs (Pattern 2, Copy 4)]	[2]
								[==>500.0 Secs (Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>500.0 Secs (Pattern 3, Copy 4)]	[3]
								[==>500.0 Secs (Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>500.0 Secs (Pattern 4, Copy 4)]	[4]
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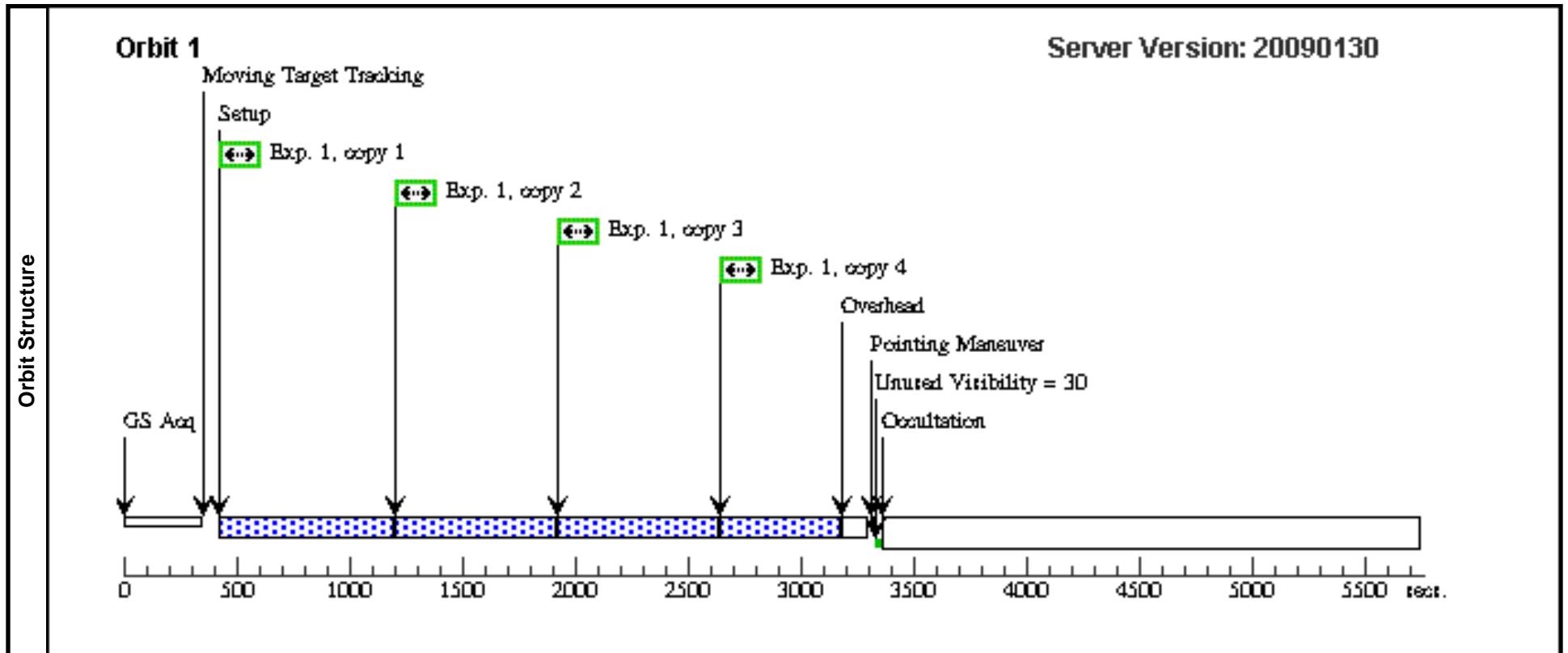
Proposal 11972 - Visit 61 - Investigating the Early Solar System with Distant Comet Nuclei

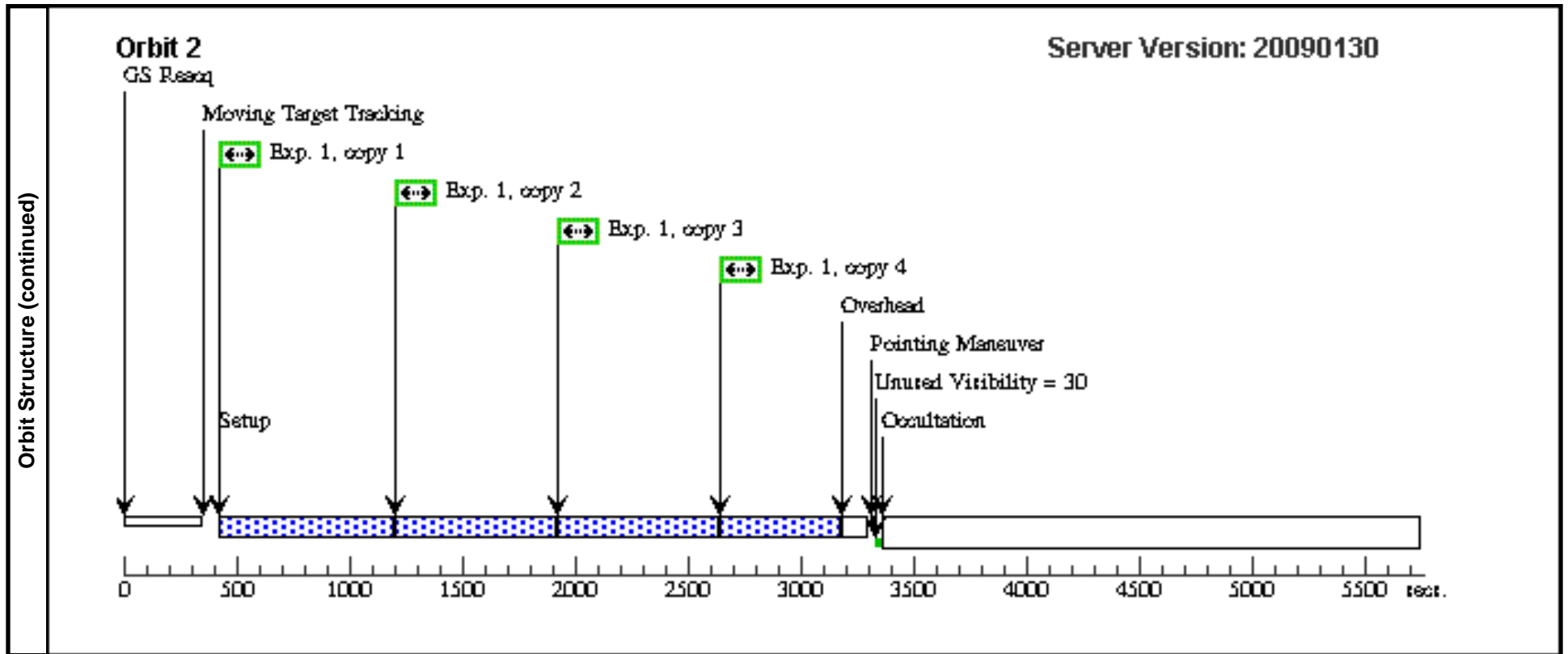
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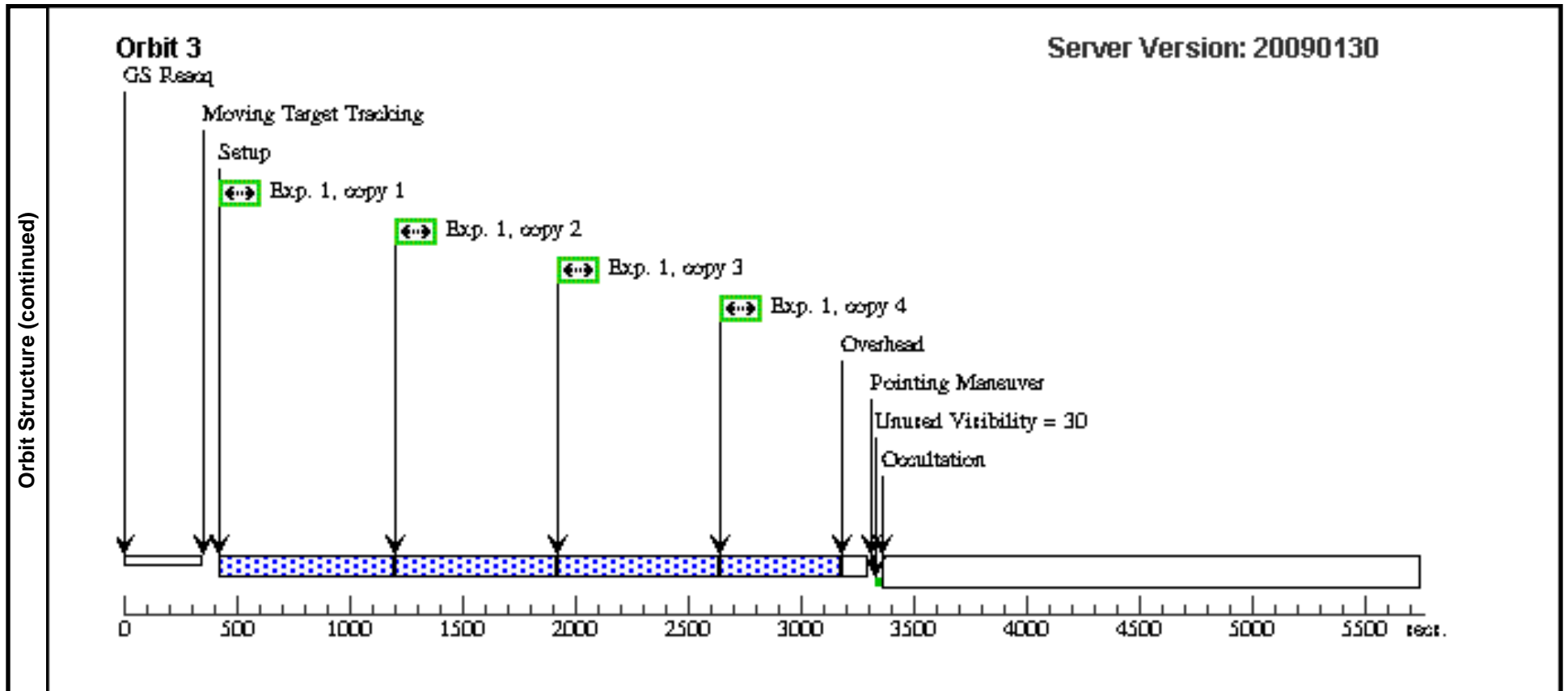
Visit	Proposal 11972, Visit 61, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BETWEEN 29-JAN-2009:21:54:43 AND 02-FEB-2009:02:00:00; BETWEEN 03-FEB-2009:06:00:00 AND 01-MAR-2009:12:00:00; BETWEEN 02-MAR-2009:06:00:00 AND 29-MAR-2009:12:00:00; BETWEEN 31-MAR-2009:06:00:00 AND 06-APR-2009:20:00:00; BETWEEN 08-APR-2009:10:00:00 AND 29-JAN-2010:00:00:00; VISIBILITY INTERVAL 56 M						
	Patterns	#	Primary Pattern		Secondary Pattern		Exposures
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Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
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	Comments: Acquisition Uncertainty: 0.45 Arcsec Ephemeris Uncertainty: 10000 Secs						

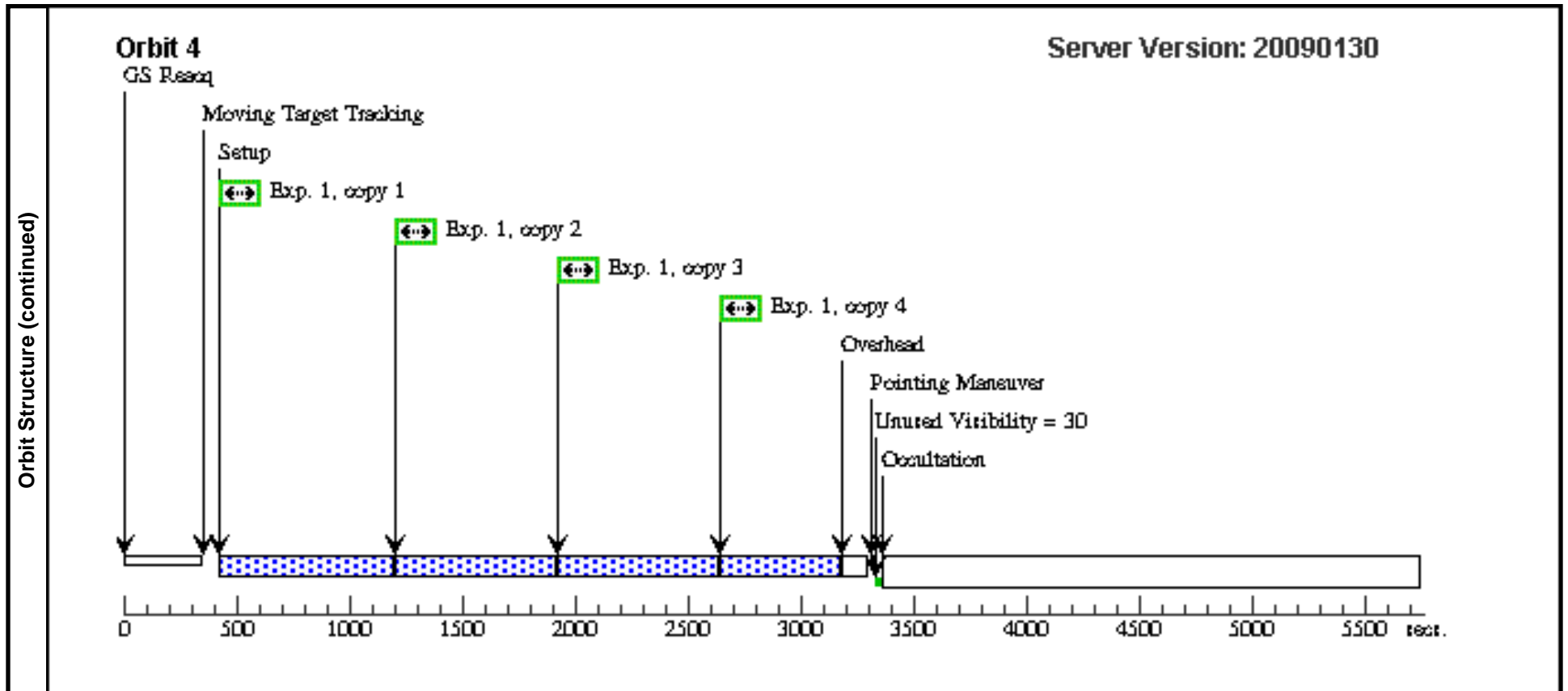
Proposal 11972 - Visit 61 - Investigating the Early Solar System with Distant Comet Nuclei

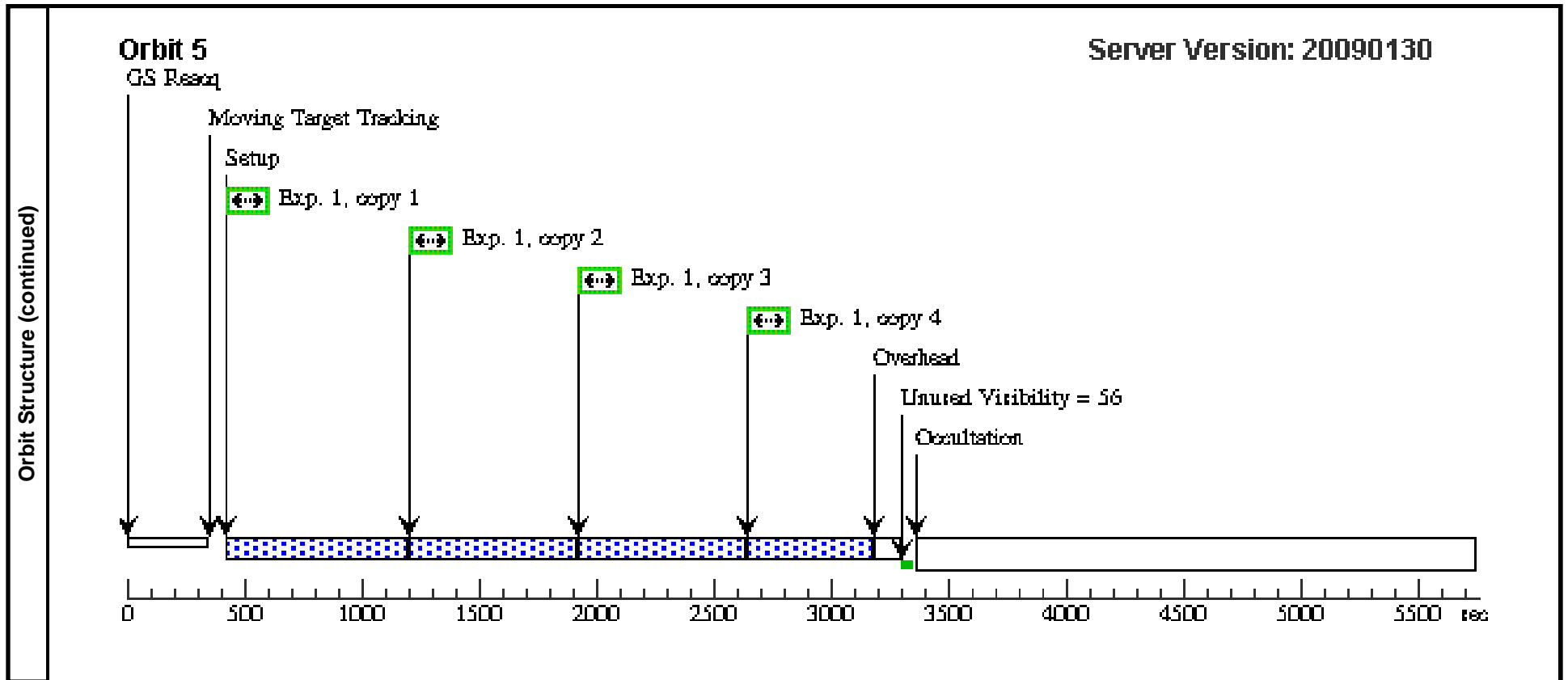
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	C1995O1-v 1/1	(6) C1995O1-HALE -BOPP	WFPC2, IMAGE, WF3	F606W	CLOCKS=YES; CR-SPLIT=NO	Pattern 1-1 (1)	600 Secs X 4	
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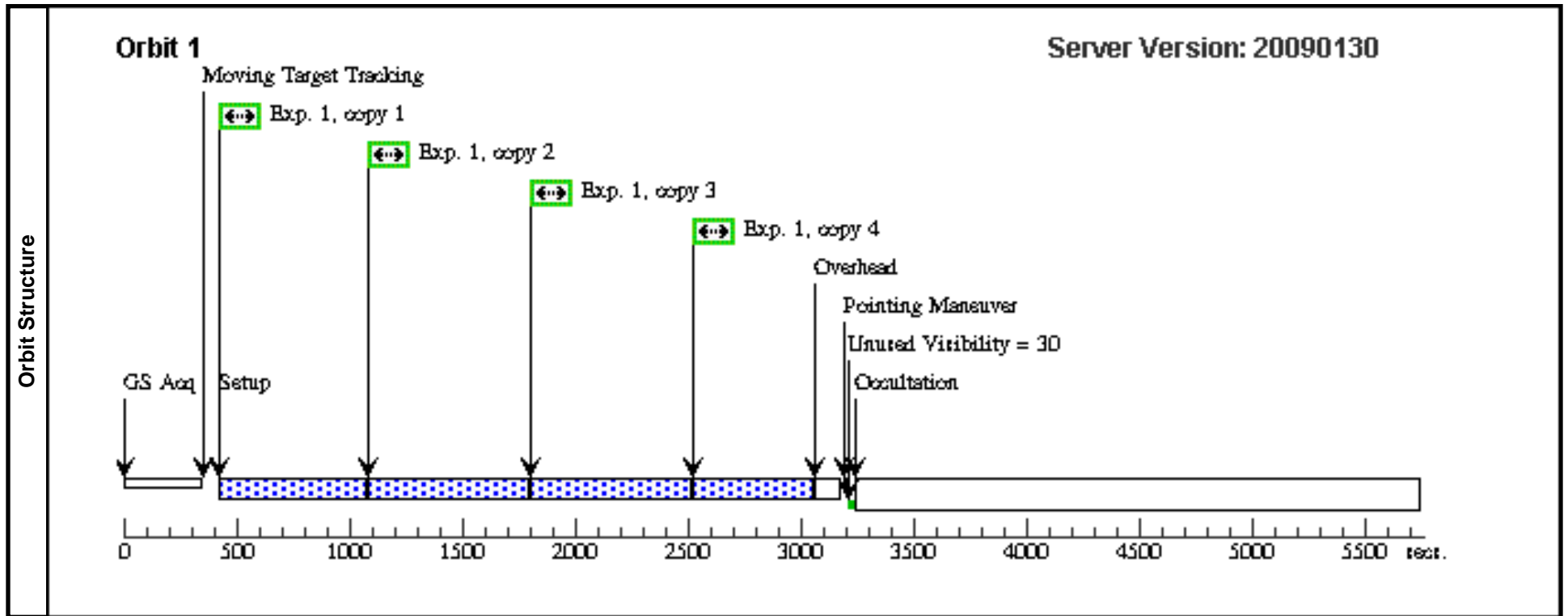
Proposal 11972 - Visit 71 - Investigating the Early Solar System with Distant Comet Nuclei

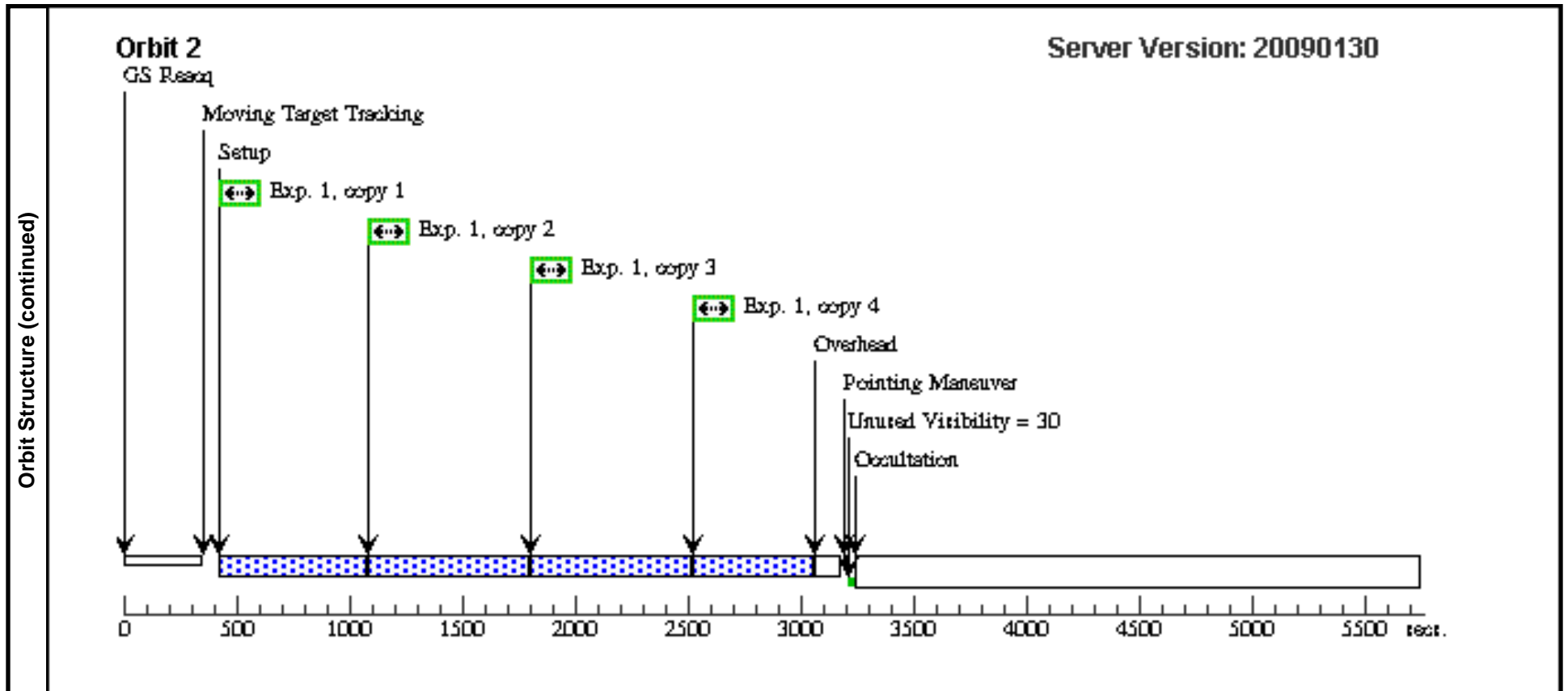
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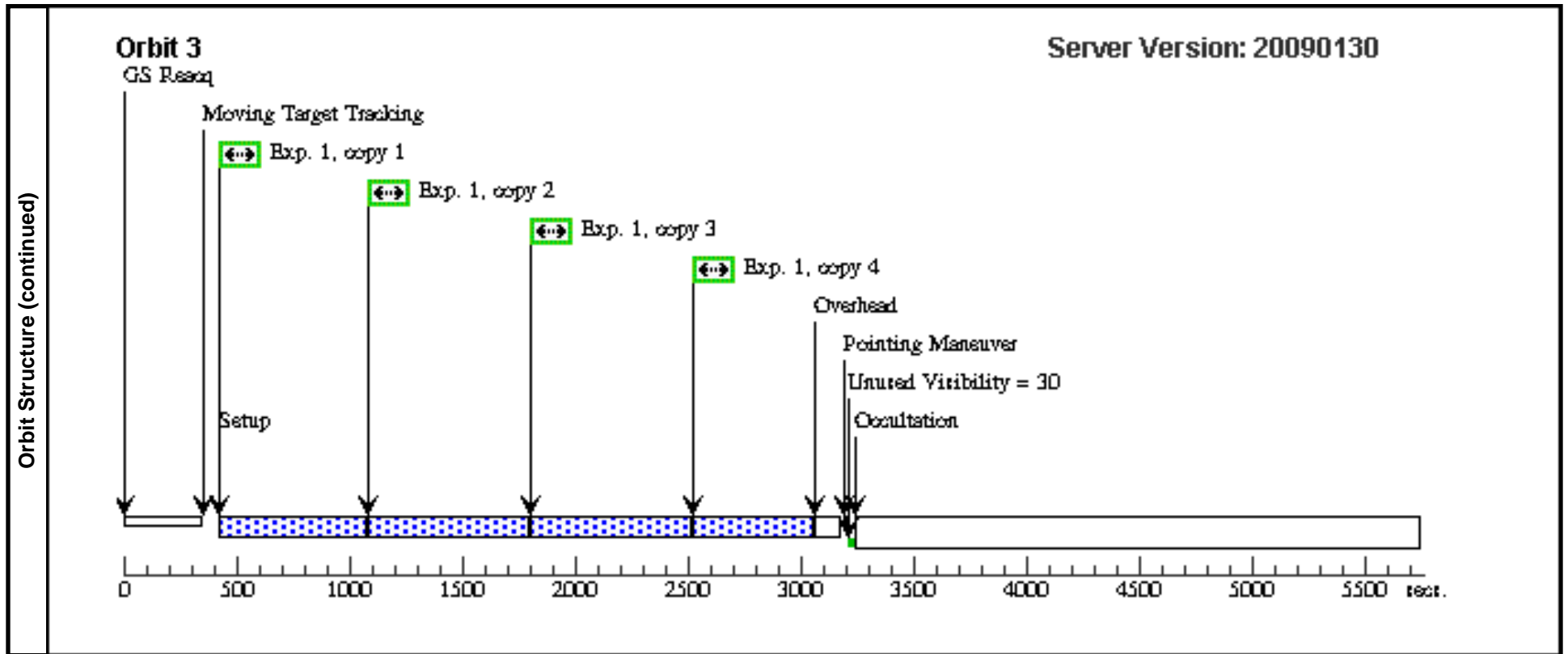
Visit	Proposal 11972, Visit 71, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BETWEEN 29-JAN-2009:22:02:40 AND 06-MAR-2009:10:00:00; BETWEEN 07-MAR-2009:04:00:00 AND 10-MAR-2009:10:00:00; BETWEEN 11-MAR-2009:08:00:00 AND 12-MAR-2009:14:00:00; BETWEEN 13-MAR-2009:08:00:00 AND 29-JAN-2010:00:00:00; VISIBILITY INTERVAL 54 M														
	Patterns	<table border="1"> <thead> <tr> <th>#</th> <th>Primary Pattern</th> <th>Secondary Pattern</th> <th>Exposures</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td> Pattern Type=SPIRAL Purpose=DITHER Number Of Points=5 Point Spacing=.559017 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=true </td> <td></td> <td>(1)</td> </tr> </tbody> </table>	#	Primary Pattern	Secondary Pattern	Exposures	(1)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=5 Point Spacing=.559017 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=true		(1)					
#	Primary Pattern	Secondary Pattern	Exposures												
(1)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=5 Point Spacing=.559017 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=true		(1)												
Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(7)</td> <td>C2002VQ94-LINEAR</td> <td> TYPE=COMET,Q=6.7966375006721 5,E=0.9668687859442731,I=70.51571 84661428,O=35.01670733283934,W= 100.0376874119211,T=06-FEB- 2006:15:50:12,EQUINOX=J2000,EPO CH=04-FEB-2006:00:00:00 </td> <td></td> <td></td> <td></td> <td>EARTH</td> </tr> </tbody> </table> <p><i>Comments:</i> Acquisition Uncertainty: 0.46 Arcsec Ephemeris Uncertainty: 10000 Secs</p>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(7)	C2002VQ94-LINEAR	TYPE=COMET,Q=6.7966375006721 5,E=0.9668687859442731,I=70.51571 84661428,O=35.01670733283934,W= 100.0376874119211,T=06-FEB- 2006:15:50:12,EQUINOX=J2000,EPO CH=04-FEB-2006:00:00:00				EARTH
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center									
(7)	C2002VQ94-LINEAR	TYPE=COMET,Q=6.7966375006721 5,E=0.9668687859442731,I=70.51571 84661428,O=35.01670733283934,W= 100.0376874119211,T=06-FEB- 2006:15:50:12,EQUINOX=J2000,EPO CH=04-FEB-2006:00:00:00				EARTH									

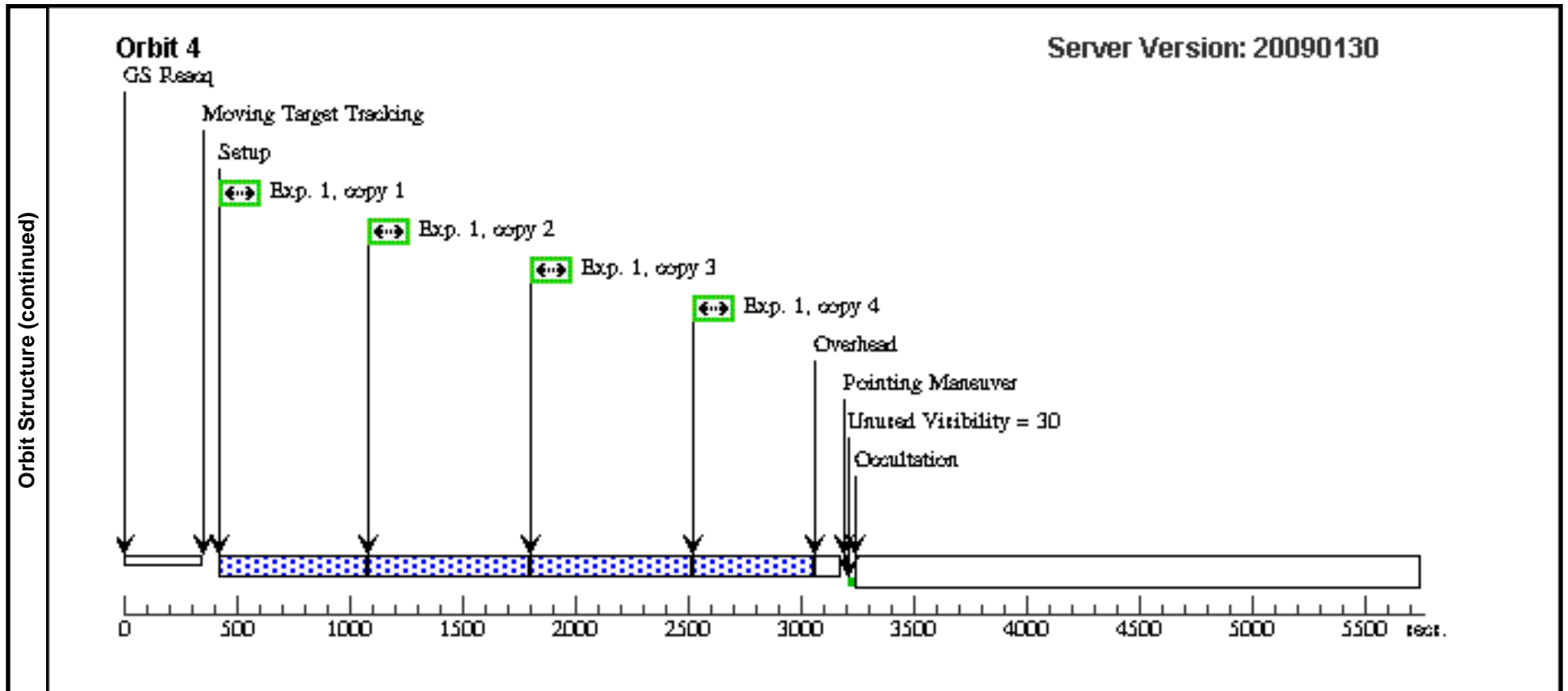
Proposal 11972 - Visit 71 - Investigating the Early Solar System with Distant Comet Nuclei

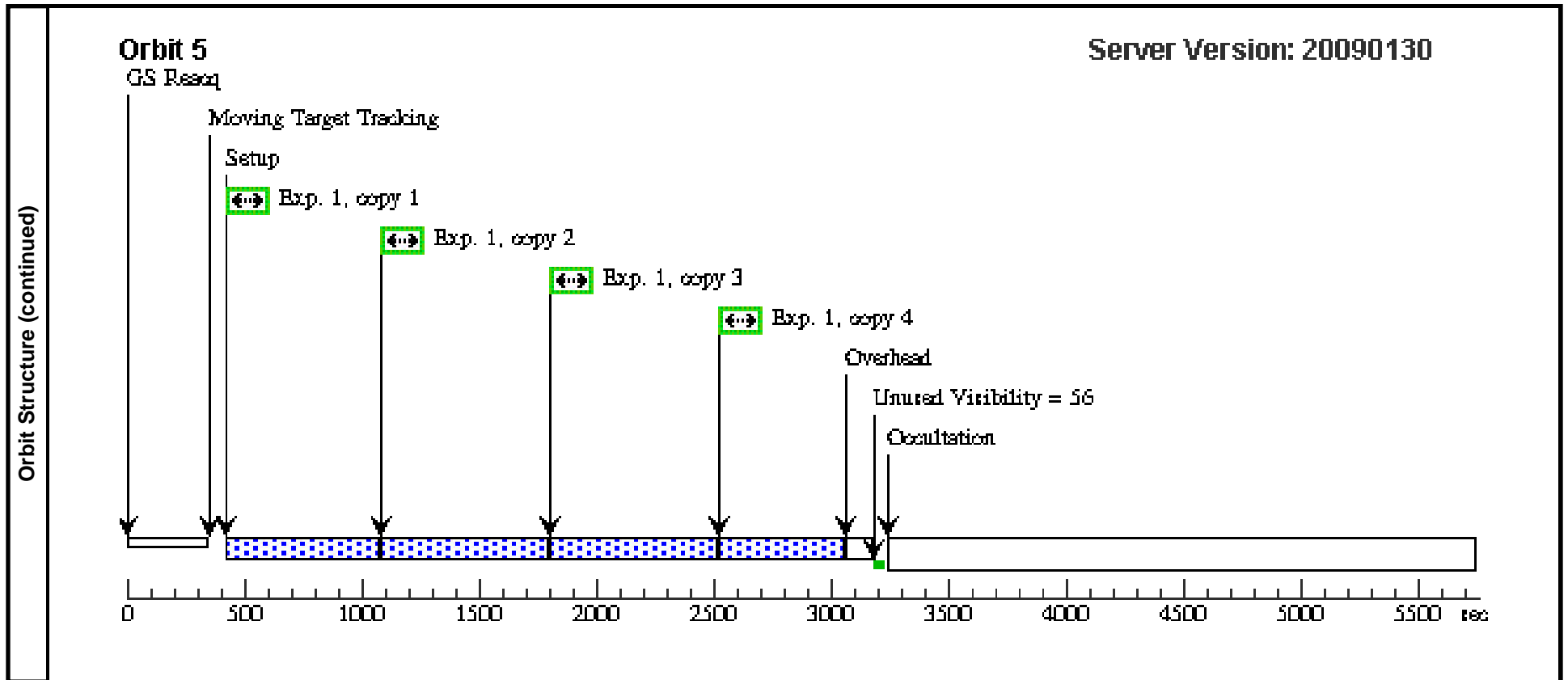
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	C2002VQ94	(7) C2002VQ94-LIN	WFPC2, IMAGE, WF3	F606W	CLOCKS=YES; CR-SPLIT=NO	Pattern 1-1 (1)	600 Secs X 4	
	-v1/2	EAR						[==>500.0 Secs (Pattern 1, Copy 1)]	
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							[==>(Pattern 3, Copy 2)]	[3]	
							[==>(Pattern 3, Copy 3)]		
							[==>500.0 Secs (Pattern 3, Copy 4)]		
							[==>500.0 Secs (Pattern 4, Copy 1)]		
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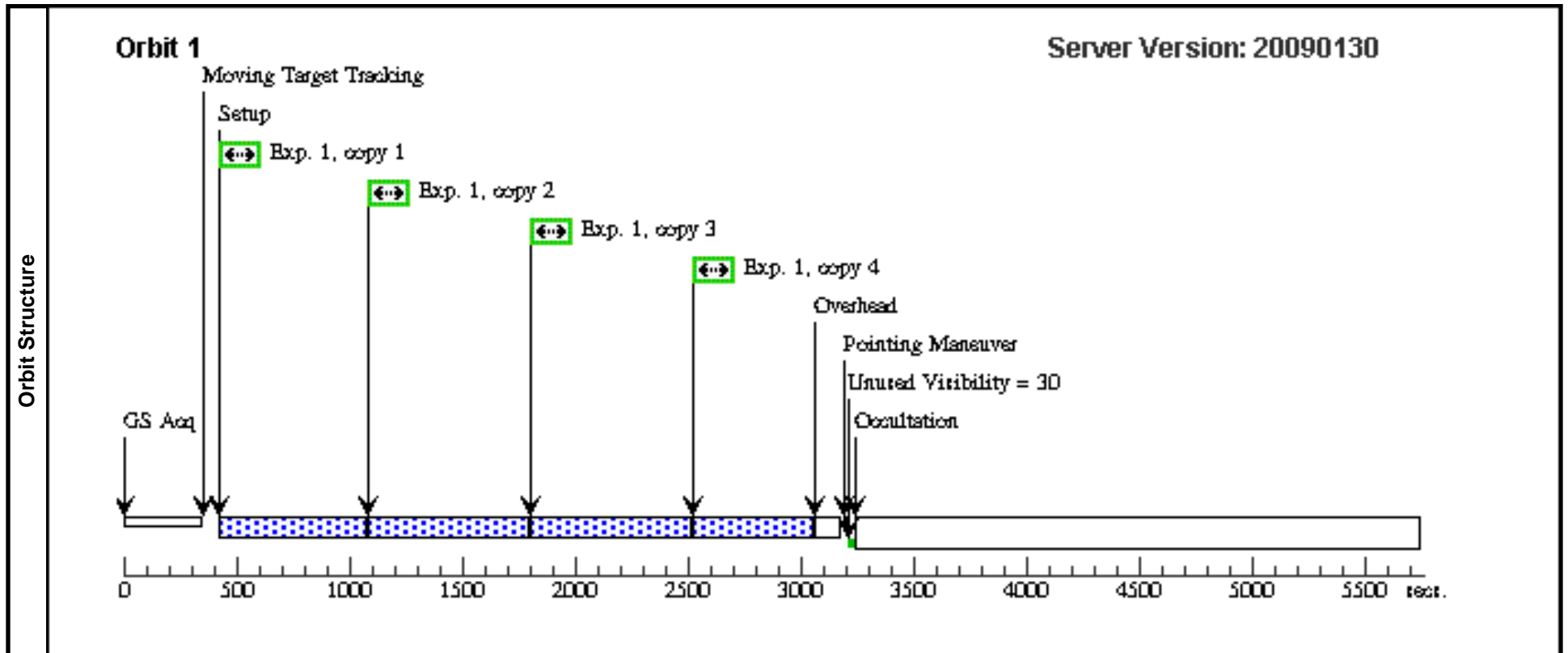
Proposal 11972 - Visit 72 - Investigating the Early Solar System with Distant Comet Nuclei

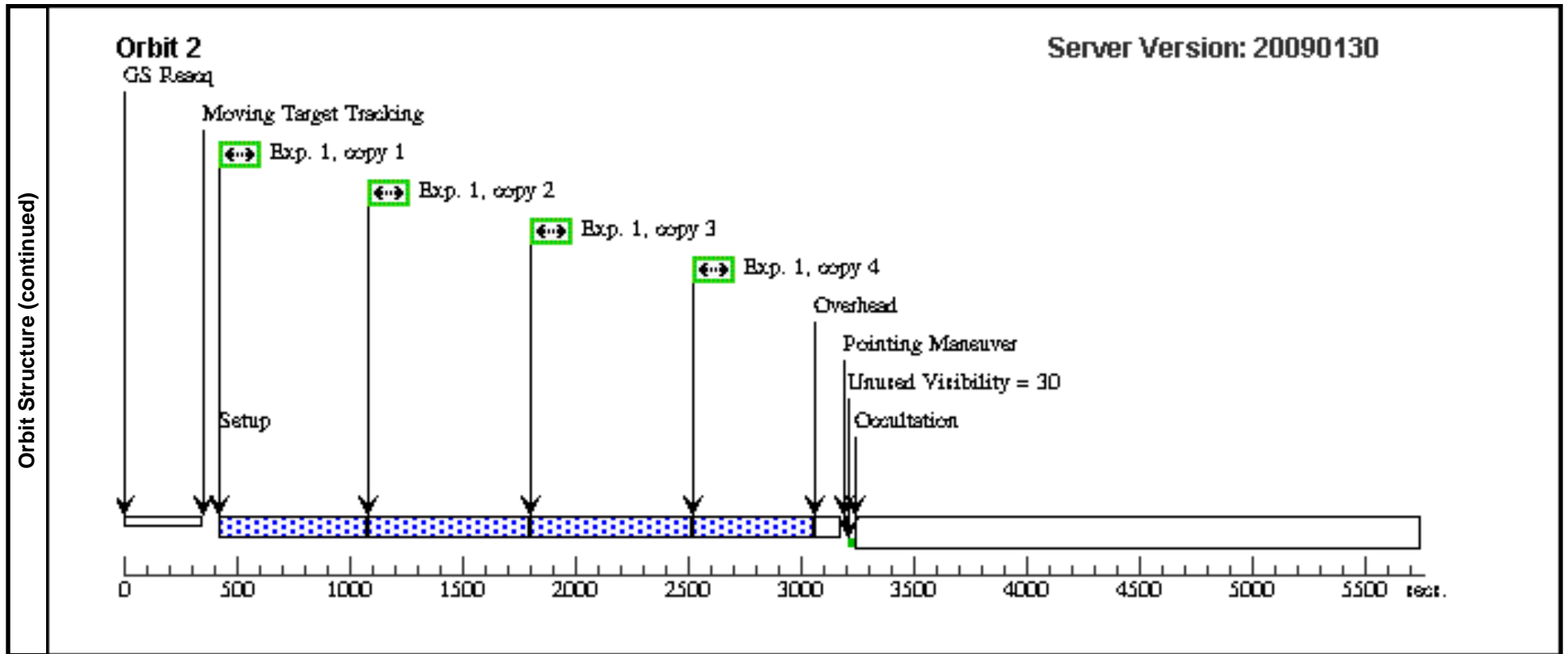
Thu Mar 26 01:37:50 GMT 2009

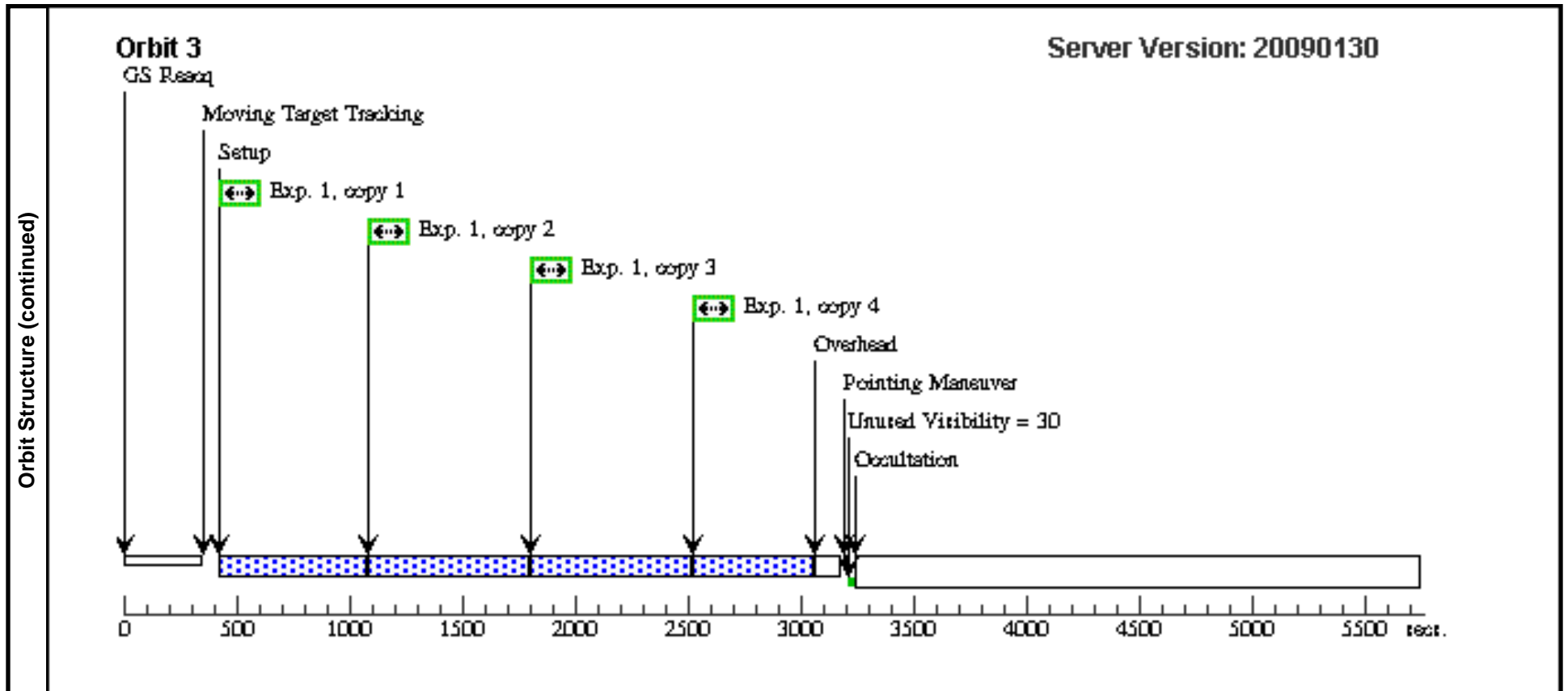
Visit	Proposal 11972, Visit 72, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BETWEEN 29-JAN-2009:22:02:40 AND 06-MAR-2009:10:00:00; BETWEEN 07-MAR-2009:04:00:00 AND 10-MAR-2009:10:00:00; BETWEEN 11-MAR-2009:08:00:00 AND 12-MAR-2009:14:00:00; BETWEEN 13-MAR-2009:08:00:00 AND 29-JAN-2010:00:00:00; VISIBILITY INTERVAL 54 M														
	Patterns	<table border="1"> <thead> <tr> <th>#</th> <th>Primary Pattern</th> <th>Secondary Pattern</th> <th>Exposures</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td> Pattern Type=SPIRAL Purpose=DITHER Number Of Points=5 Point Spacing=.559017 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=true </td> <td></td> <td>(1)</td> </tr> </tbody> </table>	#	Primary Pattern	Secondary Pattern	Exposures	(1)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=5 Point Spacing=.559017 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=true		(1)					
#	Primary Pattern	Secondary Pattern	Exposures												
(1)	Pattern Type=SPIRAL Purpose=DITHER Number Of Points=5 Point Spacing=.559017 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=true		(1)												
Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(7)</td> <td>C2002VQ94-LINEAR</td> <td> TYPE=COMET,Q=6.7966375006721 5,E=0.9668687859442731,I=70.51571 84661428,O=35.01670733283934,W= 100.0376874119211,T=06-FEB- 2006:15:50:12,EQUINOX=J2000,EPO CH=04-FEB-2006:00:00:00 </td> <td></td> <td></td> <td></td> <td>EARTH</td> </tr> </tbody> </table> <p><i>Comments:</i> Acquisition Uncertainty: 0.46 Arcsec Ephemeris Uncertainty: 10000 Secs</p>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(7)	C2002VQ94-LINEAR	TYPE=COMET,Q=6.7966375006721 5,E=0.9668687859442731,I=70.51571 84661428,O=35.01670733283934,W= 100.0376874119211,T=06-FEB- 2006:15:50:12,EQUINOX=J2000,EPO CH=04-FEB-2006:00:00:00				EARTH
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center									
(7)	C2002VQ94-LINEAR	TYPE=COMET,Q=6.7966375006721 5,E=0.9668687859442731,I=70.51571 84661428,O=35.01670733283934,W= 100.0376874119211,T=06-FEB- 2006:15:50:12,EQUINOX=J2000,EPO CH=04-FEB-2006:00:00:00				EARTH									

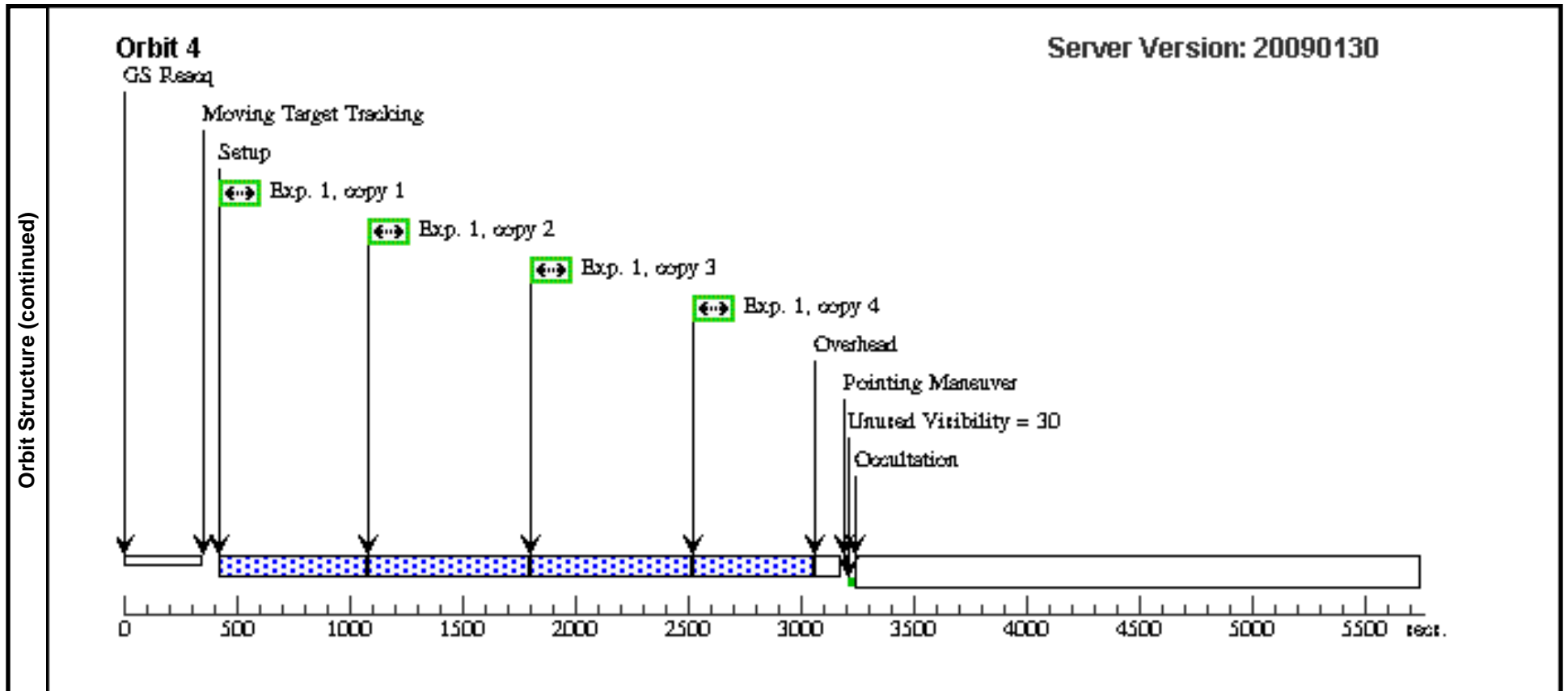
Proposal 11972 - Visit 72 - Investigating the Early Solar System with Distant Comet Nuclei

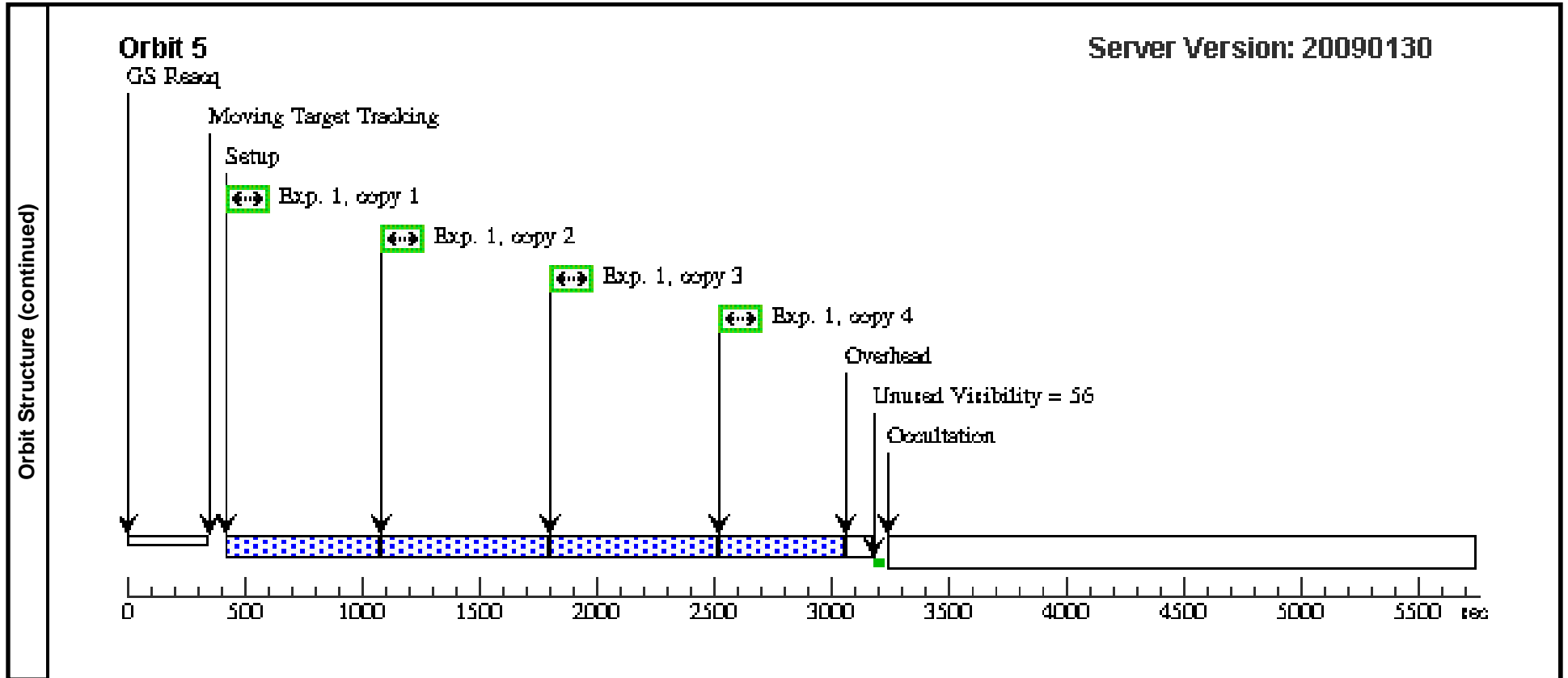
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	C2002VQ94 -v2/2	(7) C2002VQ94-LIN EAR	WFPC2, IMAGE, WF3	F606W	CLOCKS=YES; CR-SPLIT=NO	Pattern 1-1 (1)	600 Secs X 4	
	[==>500.0 Secs (Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>500.0 Secs (Pattern 1, Copy 4)]	[1]							
	[==>500.0 Secs (Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>500.0 Secs (Pattern 2, Copy 4)]	[2]							
	[==>500.0 Secs (Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>500.0 Secs (Pattern 3, Copy 4)]	[3]							
	[==>500.0 Secs (Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>500.0 Secs (Pattern 4, Copy 4)]	[4]							
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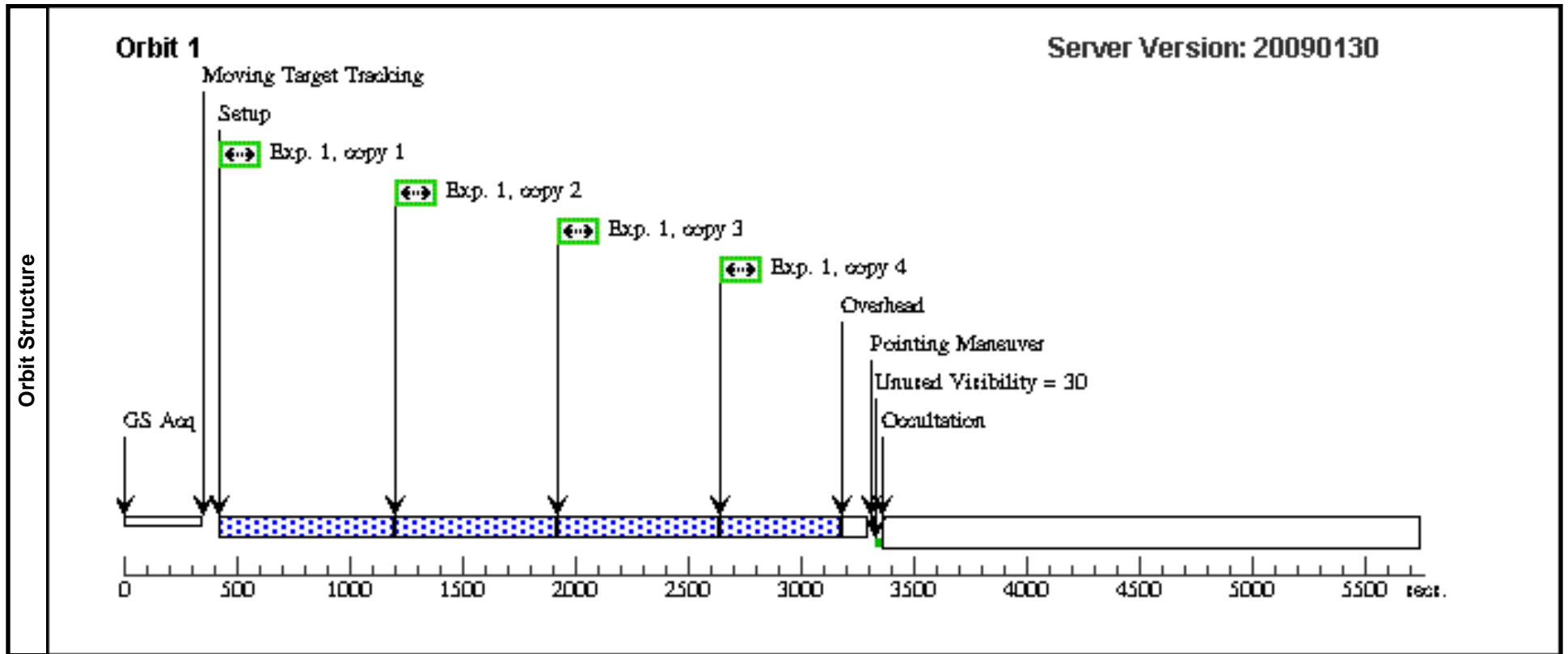
Proposal 11972 - Visit 81 - Investigating the Early Solar System with Distant Comet Nuclei

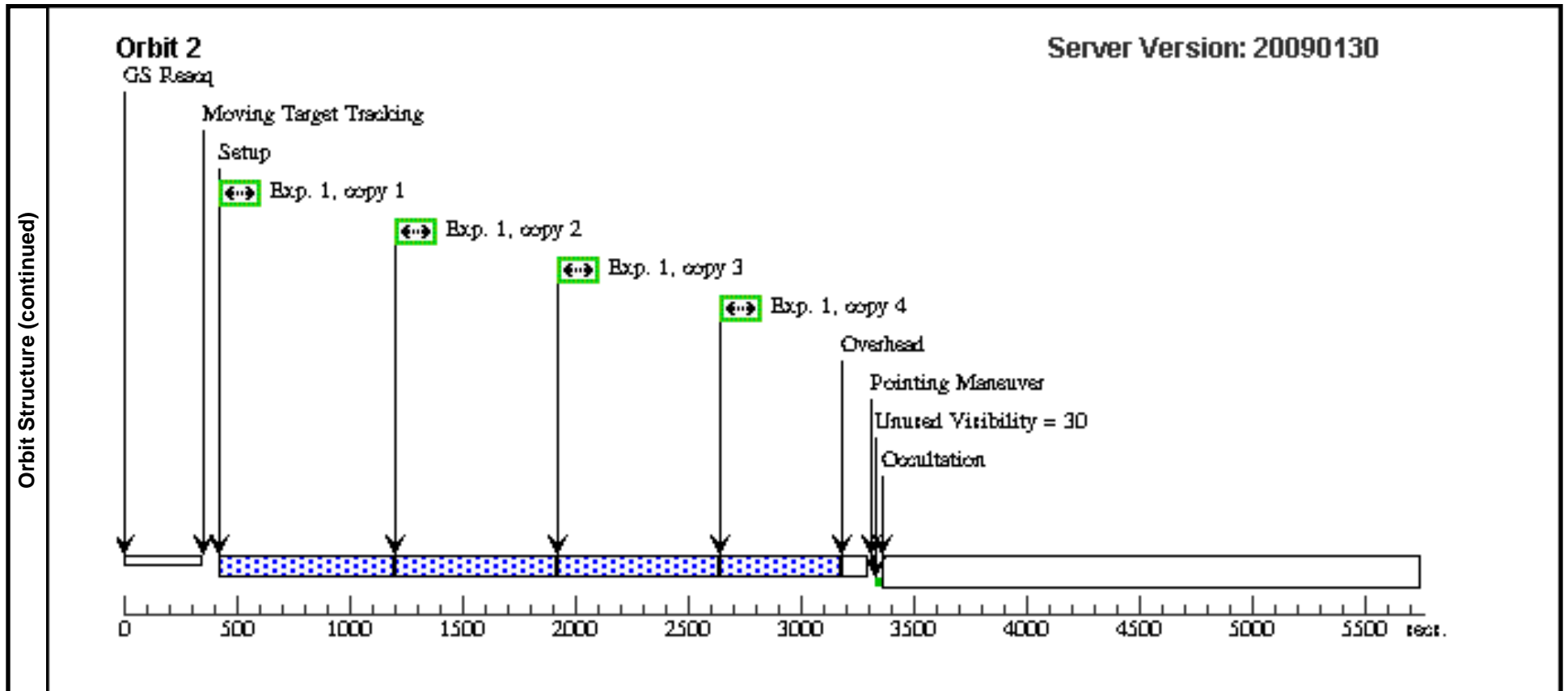
Thu Mar 26 01:37:51 GMT 2009

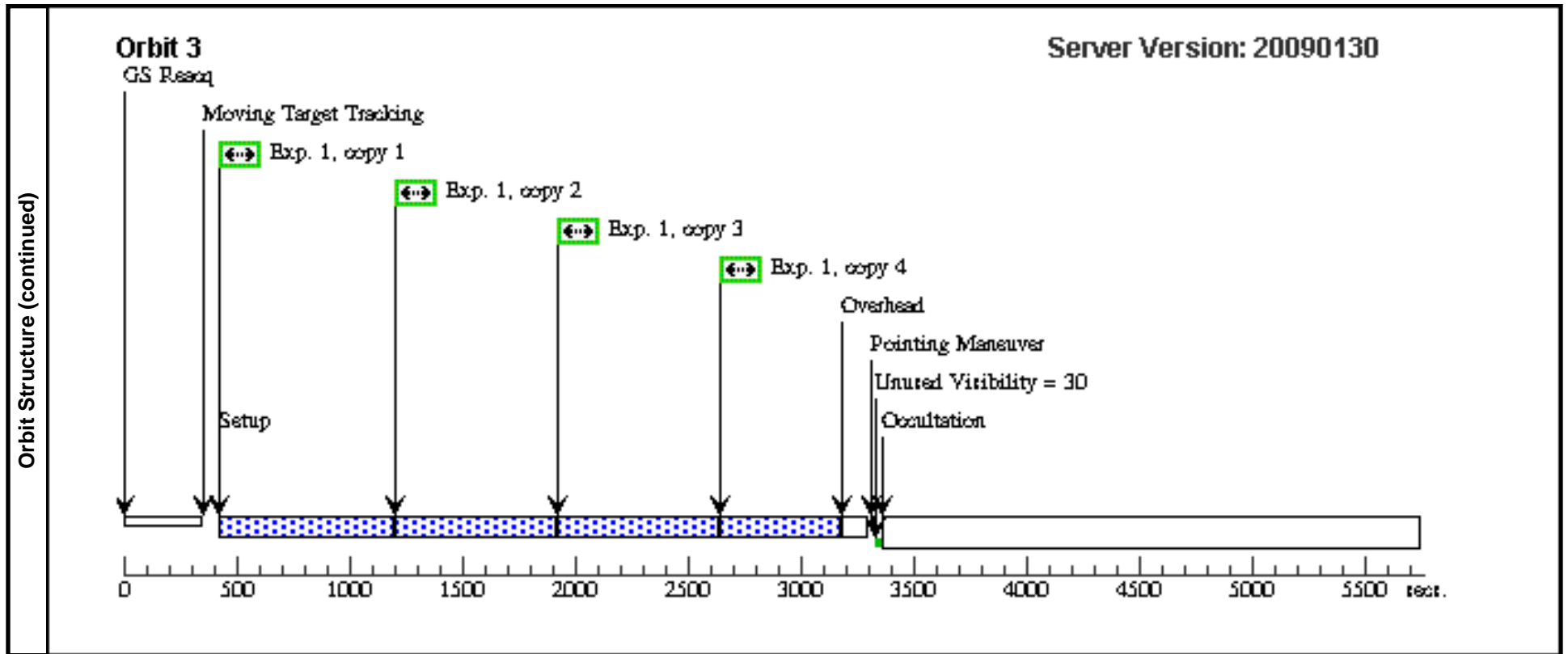
Visit	Proposal 11972, Visit 81, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BETWEEN 29-JAN-2009:22:22:21 AND 02-FEB-2009:20:00:00; BETWEEN 03-FEB-2009:20:00:00 AND 24-FEB-2009:12:00:00; BETWEEN 25-FEB-2009:14:00:00 AND 05-MAR-2009:13:00:00; BETWEEN 06-MAR-2009:14:00:00 AND 21-MAR-2009:14:00:00; BETWEEN 23-MAR-2009:00:00:00 AND 24-MAR-2009:02:00:00; BETWEEN 25-MAR-2009:04:00:00 AND 25-MAR-2009:12:00:00; BETWEEN 26-MAR-2009:04:00:00 AND 29-JAN-2010:00:00:00; VISIBILITY INTERVAL 56 M						
	Patterns	#	Primary Pattern		Secondary Pattern		Exposures
(1)		Pattern Type=SPIRAL Purpose=DITHER Number Of Points=5 Point Spacing=.559017 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=true			(1)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(8)	C1997BA6-SPACEWATCH	TYPE=COMET,Q=3.4364376766976 91,E=0.9989916877738408,I=72.7144 7851732188,O=317.6663578928504, W=285.9342133542679,T=27-NOV-1999:13:29:07,EQUINOX=J2000,EPO CH=29-SEP-1999:00:00:00				EARTH
	Comments: Acquisition Uncertainty: 5 Arcsec Ephemeris Uncertainty: 10000 Secs						

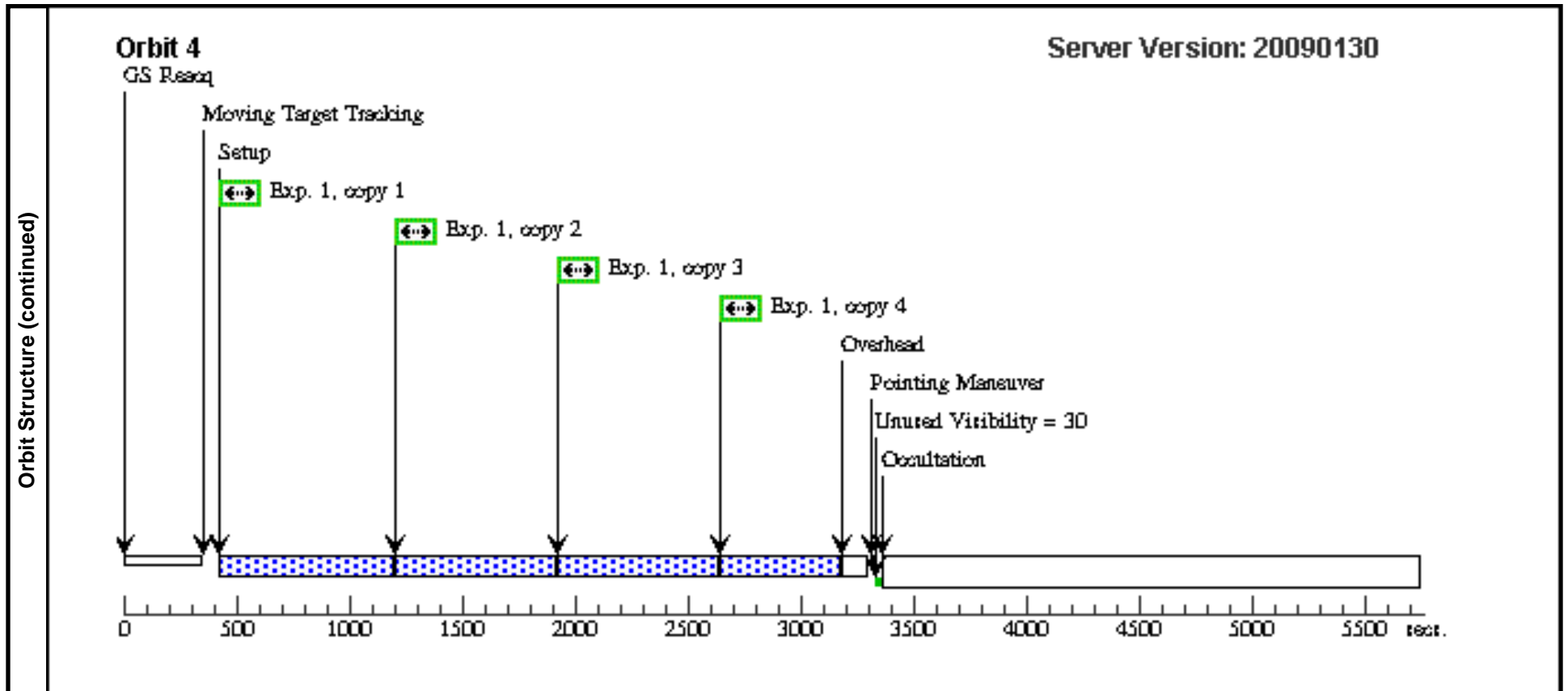
Proposal 11972 - Visit 81 - Investigating the Early Solar System with Distant Comet Nuclei

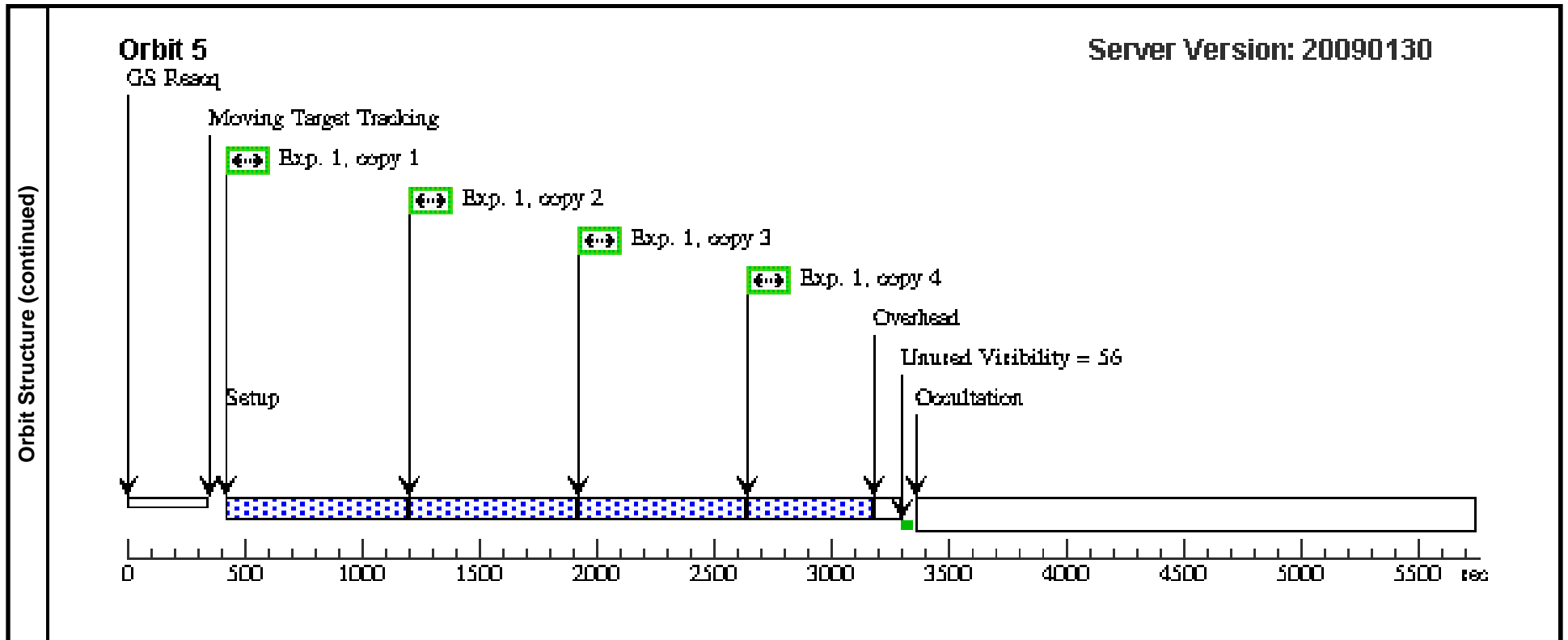
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1 C1997BA6- v1/3	(8) C1997BA6-SPA CEWATCH	WFPC2, IMAGE, WF3	F606W	CLOCKS=YES; CR-SPLIT=NO		Pattern 1-1 (1)	600 Secs X 4	
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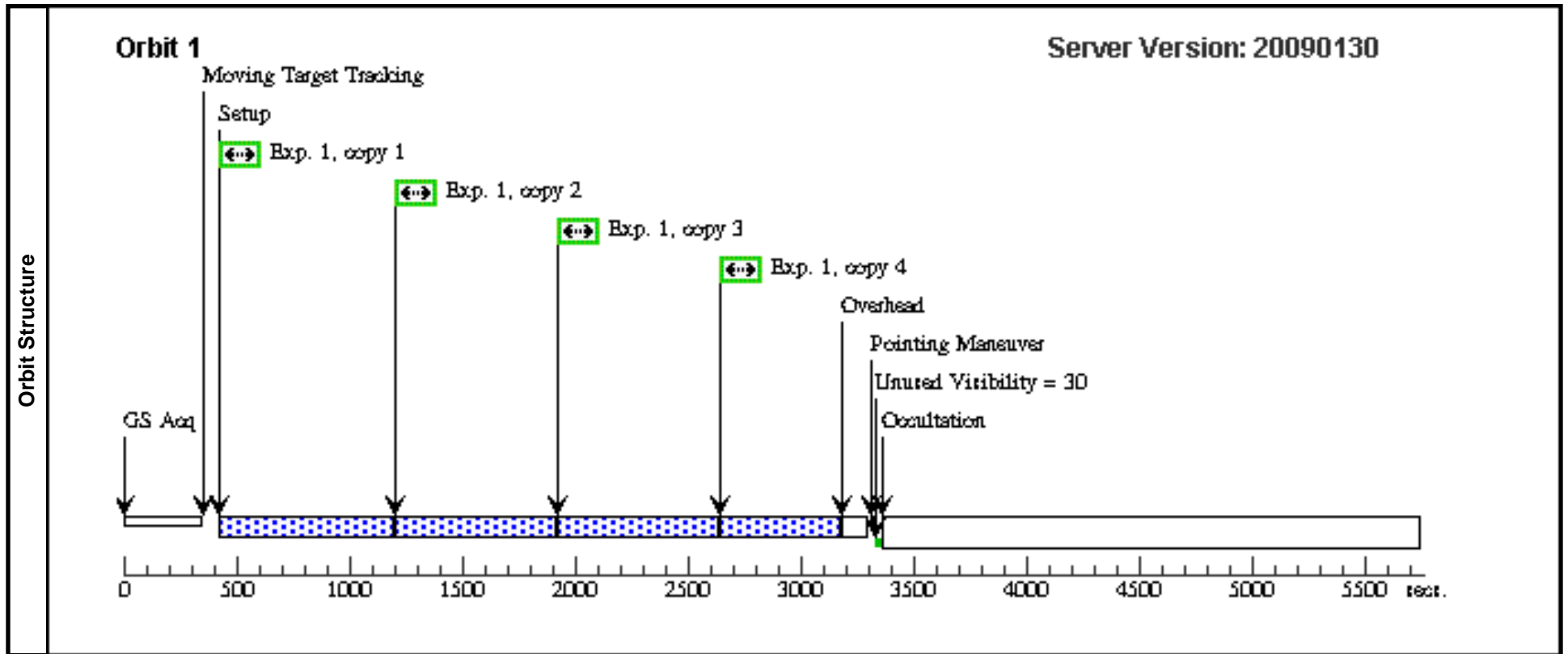
Proposal 11972 - Visit 82 - Investigating the Early Solar System with Distant Comet Nuclei

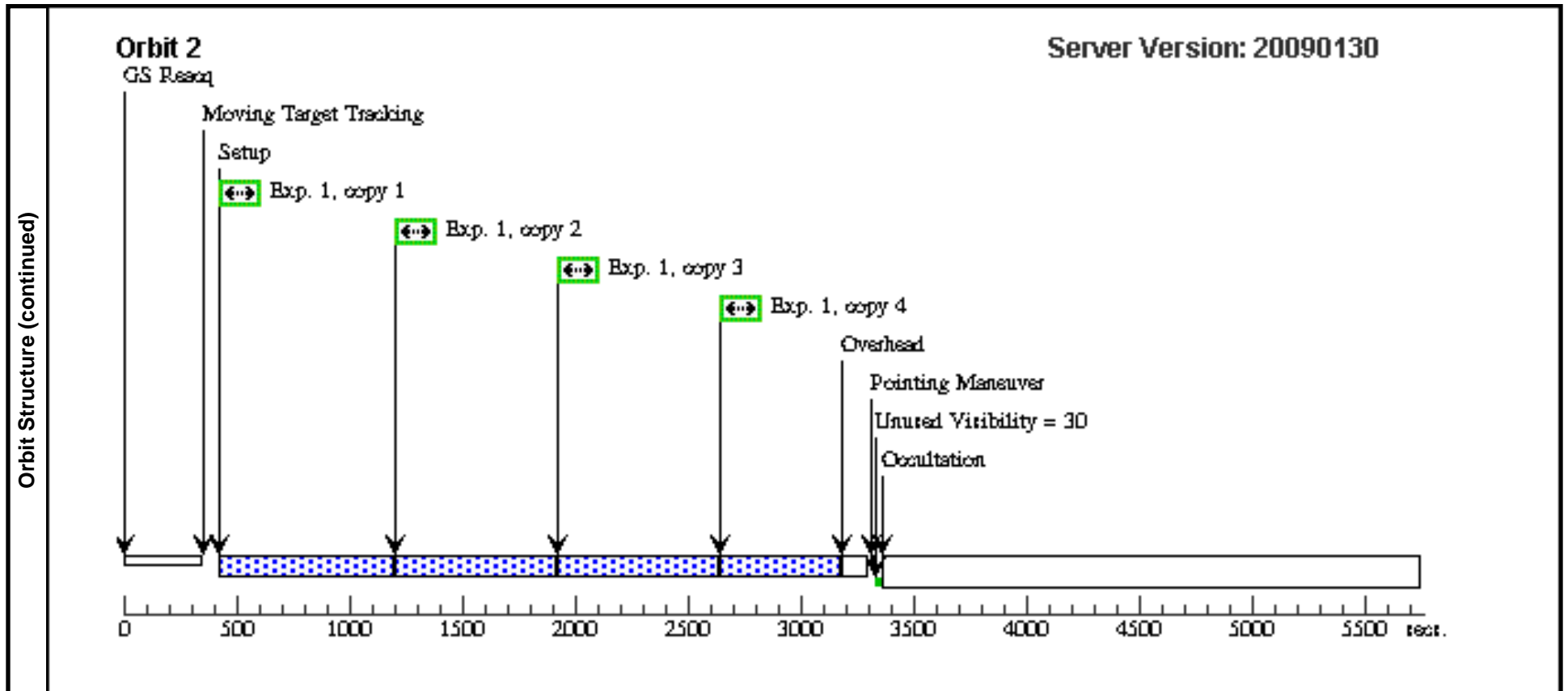
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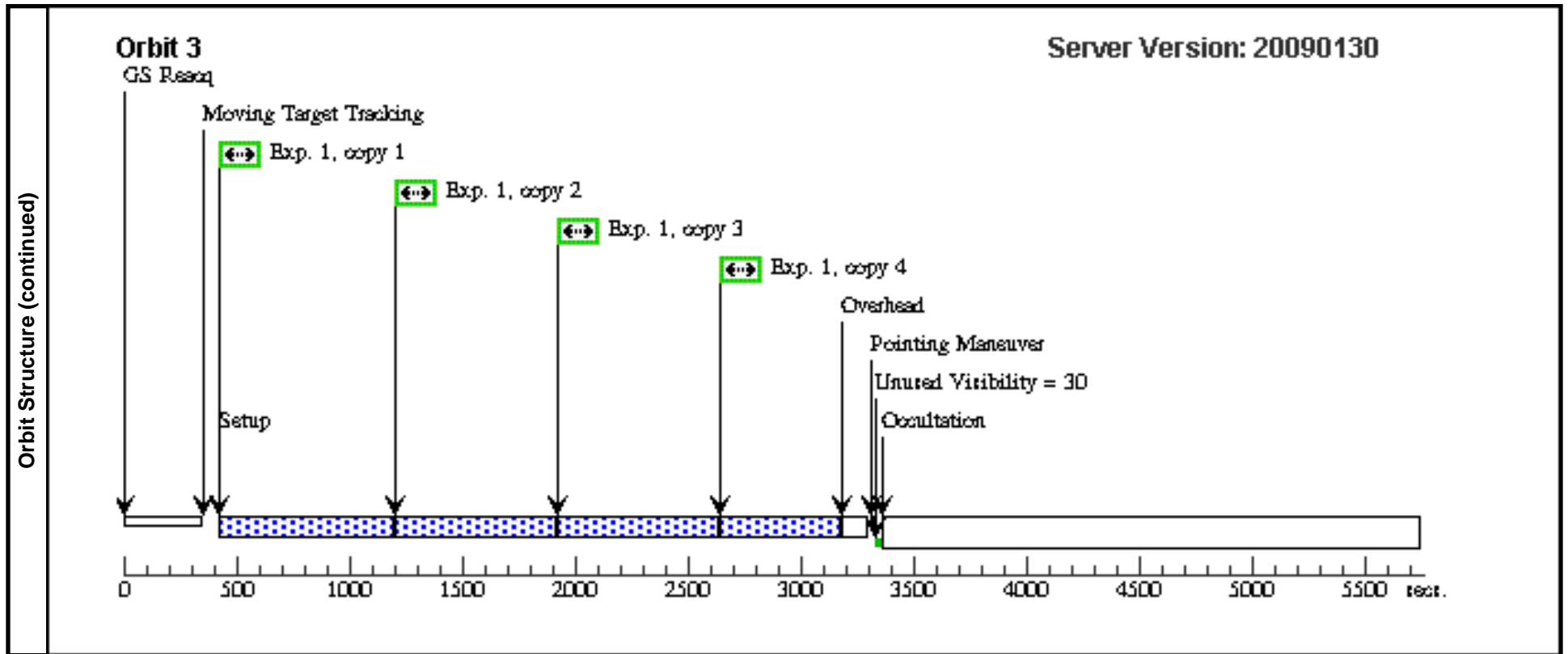
Visit	Proposal 11972, Visit 82, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BETWEEN 29-JAN-2009:22:22:21 AND 02-FEB-2009:20:00:00; BETWEEN 03-FEB-2009:20:00:00 AND 24-FEB-2009:12:00:00; BETWEEN 25-FEB-2009:14:00:00 AND 05-MAR-2009:13:00:00; BETWEEN 06-MAR-2009:14:00:00 AND 21-MAR-2009:14:00:00; BETWEEN 23-MAR-2009:00:00:00 AND 24-MAR-2009:02:00:00; BETWEEN 25-MAR-2009:04:00:00 AND 25-MAR-2009:12:00:00; BETWEEN 26-MAR-2009:04:00:00 AND 29-JAN-2010:00:00:00; VISIBILITY INTERVAL 56 M						
	Patterns	#	Primary Pattern		Secondary Pattern		Exposures
(1)		Pattern Type=SPIRAL Purpose=DITHER Number Of Points=5 Point Spacing=.559017 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=true			(1)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(8)	C1997BA6-SPACEWATCH	TYPE=COMET,Q=3.4364376766976 91,E=0.9989916877738408,I=72.7144 7851732188,O=317.6663578928504, W=285.9342133542679,T=27-NOV- 1999:13:29:07,EQUINOX=J2000,EPO CH=29-SEP-1999:00:00:00				EARTH
	<i>Comments:</i> Acquisition Uncertainty: 5 Arcsec Ephemeris Uncertainty: 10000 Secs						

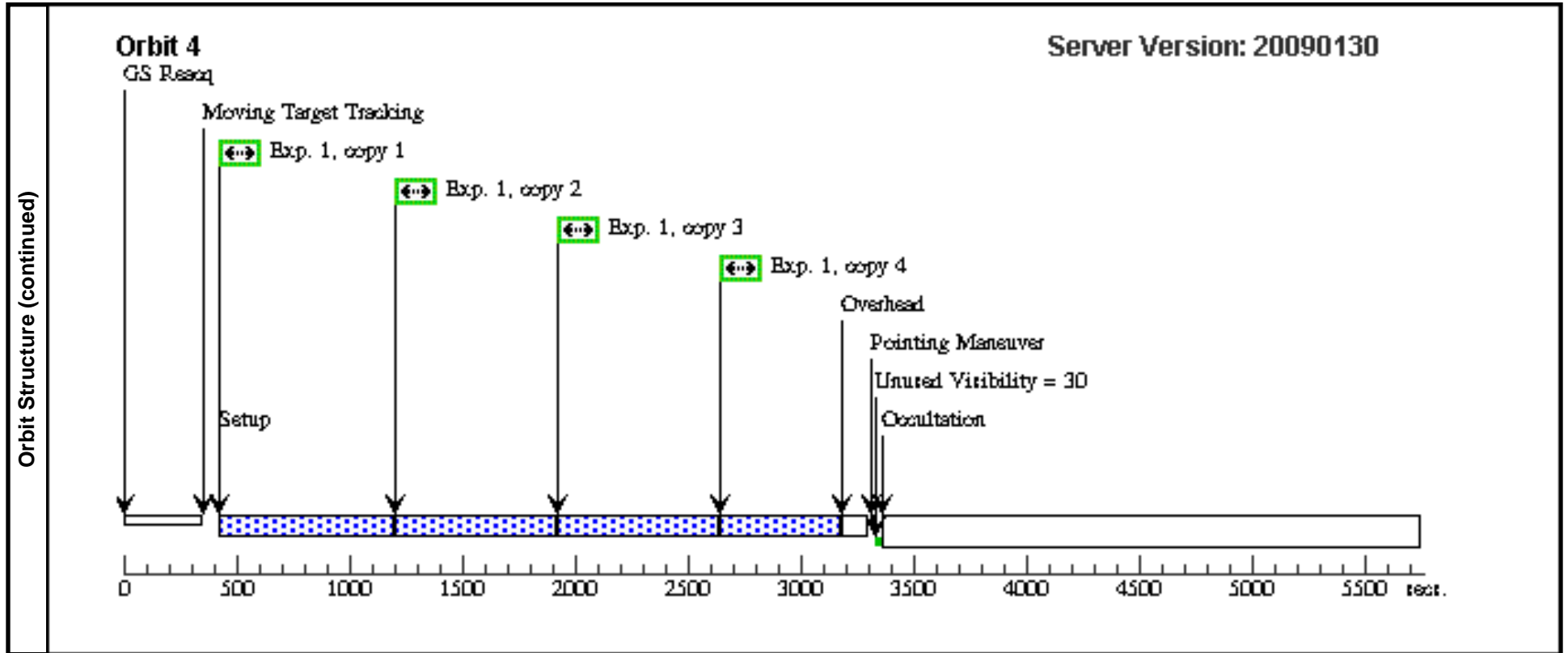
Proposal 11972 - Visit 82 - Investigating the Early Solar System with Distant Comet Nuclei

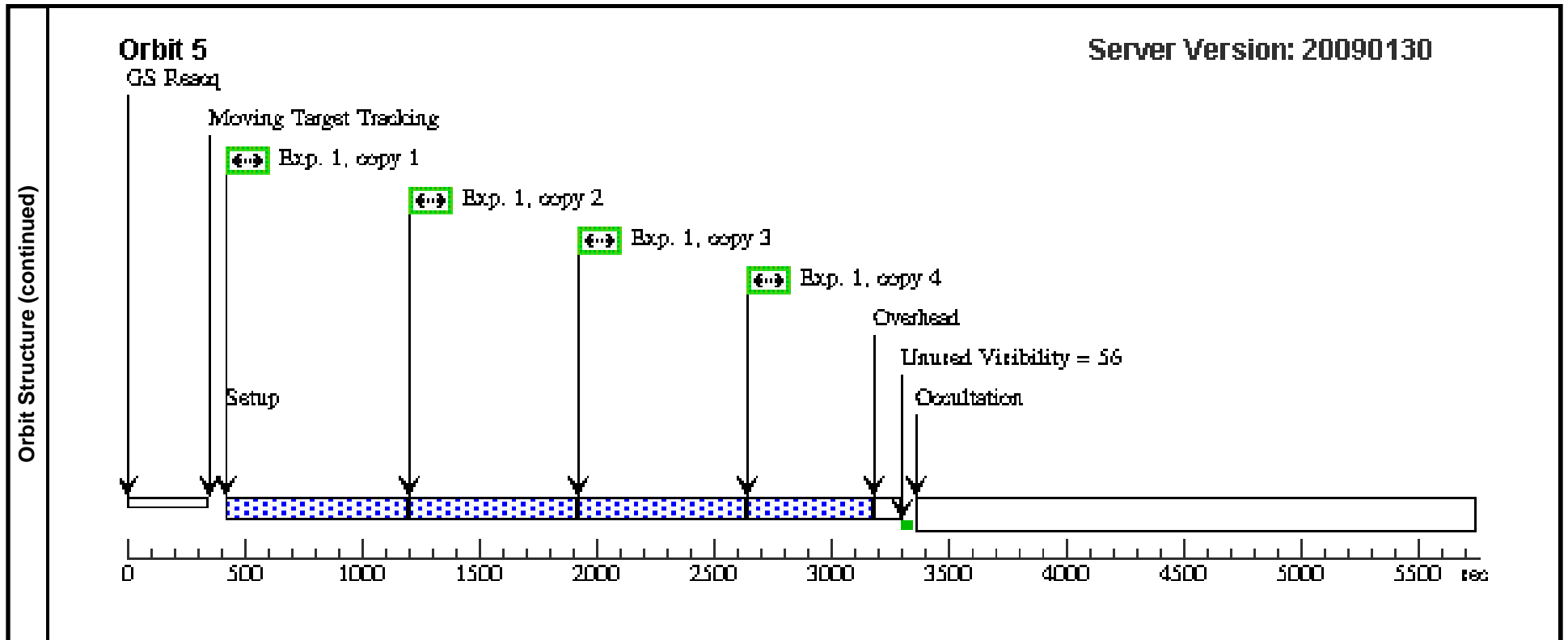
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1 C1997BA6- v2/3	(8) C1997BA6-SPA CEWATCH	WFPC2, IMAGE, WF3	F606W	CLOCKS=YES; CR-SPLIT=NO		Pattern 1-1 (1)	600 Secs X 4	
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Proposal 11972 - Visit 83 - Investigating the Early Solar System with Distant Comet Nuclei

Thu Mar 26 01:37:52 GMT 2009

Visit	Proposal 11972, Visit 83, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BETWEEN 29-JAN-2009:22:22:21 AND 02-FEB-2009:20:00:00; BETWEEN 03-FEB-2009:20:00:00 AND 24-FEB-2009:12:00:00; BETWEEN 25-FEB-2009:14:00:00 AND 05-MAR-2009:13:00:00; BETWEEN 06-MAR-2009:14:00:00 AND 21-MAR-2009:14:00:00; BETWEEN 23-MAR-2009:00:00:00 AND 24-MAR-2009:02:00:00; BETWEEN 25-MAR-2009:04:00:00 AND 25-MAR-2009:12:00:00; BETWEEN 26-MAR-2009:04:00:00 AND 29-JAN-2010:00:00:00; VISIBILITY INTERVAL 56 M						
	Patterns	#	Primary Pattern		Secondary Pattern		Exposures
(1)		Pattern Type=SPIRAL Purpose=DITHER Number Of Points=5 Point Spacing=.559017 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=true			(1)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(8)	C1997BA6-SPACEWATCH	TYPE=COMET,Q=3.4364376766976 91,E=0.9989916877738408,I=72.7144 7851732188,O=317.6663578928504, W=285.9342133542679,T=27-NOV-1999:13:29:07,EQUINOX=J2000,EPO CH=29-SEP-1999:00:00:00				EARTH
	Comments: Acquisition Uncertainty: 5 Arcsec Ephemeris Uncertainty: 10000 Secs						

Proposal 11972 - Visit 83 - Investigating the Early Solar System with Distant Comet Nuclei

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1 C1997BA6- v3/3	(8) C1997BA6-SPA CEWATCH	WFPC2, IMAGE, WF3	F606W	CLOCKS=YES; CR-SPLIT=NO		Pattern 1-1 (1)	600 Secs X 4	
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