



17524 - A Deep Search for Moons around Contact Binary Trans-Neptunian Objects.

Cycle: 31, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Audrey Thirouin (PI) (Contact)	Lowell Observatory
Dr. Scott Sander Sheppard (CoI)	Carnegie Institution of Washington
Dr. Keith S. Noll (CoI)	NASA Goddard Space Flight Center

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) 2014JO80	WFC3/UVIS	1	18-Sep-2024 14:00:17.0	yes
02	(2) 2014JL80	WFC3/UVIS	1	18-Sep-2024 14:00:18.0	yes
11	(2) 2014JL80	WFC3/UVIS	1	18-Sep-2024 14:00:18.0	yes
03	(3) 2014JQ80	WFC3/UVIS	1	18-Sep-2024 14:00:19.0	yes
04	(4) 2014WC510	WFC3/UVIS	1	18-Sep-2024 14:00:20.0	yes
05	(5) 2013FR28	WFC3/UVIS	1	18-Sep-2024 14:00:20.0	yes
06	(6) 2012DX98	WFC3/UVIS	1	18-Sep-2024 14:00:21.0	yes
07	(7) 2004VU75	WFC3/UVIS	1	18-Sep-2024 14:00:21.0	yes
08	(8) 2015BU518	WFC3/UVIS	1	18-Sep-2024 14:00:22.0	yes
09	(9) 2013BN82	WFC3/UVIS	1	18-Sep-2024 14:00:23.0	yes
10	(10) 2004SC60	WFC3/UVIS	1	18-Sep-2024 14:00:23.0	yes

11 Total Orbits Used

ABSTRACT

A close/contact binary can be a small body with a bi-lobed shape (like 67P/Churyumov-Gerasimenko visited by the European Space Agency's Rosetta mission) or two objects touching in one point, as well as two objects with a small separation of less than a few hundred kilometers. The flyby of the trans-Neptunian object Arrokoth (a.k.a (486958) 2014 MU69) by the NASA New Horizons spacecraft has left us with no doubt that contact binaries do exist in the trans-Neptunian belt. Unfortunately, it is still unclear how these objects can form at the edge of our Solar System. Several models have been proposed, but none have been thoroughly tested with observations as the contact binary population remained elusive until recently. We propose a deep search for moon(s) around likely/confirmed contact binary identified through lightcurve and stellar occultation observations. The fraction of systems with/without a moon will allow us to infer which proposed formation model (if any) is more likely to reproduce the current contact binary population. These observations will (1) provide context for the New Horizons flyby of Arrokoth, (2) provide constraints for planetesimal formation, and (3) challenge the current formation models for binary/multiple systems.

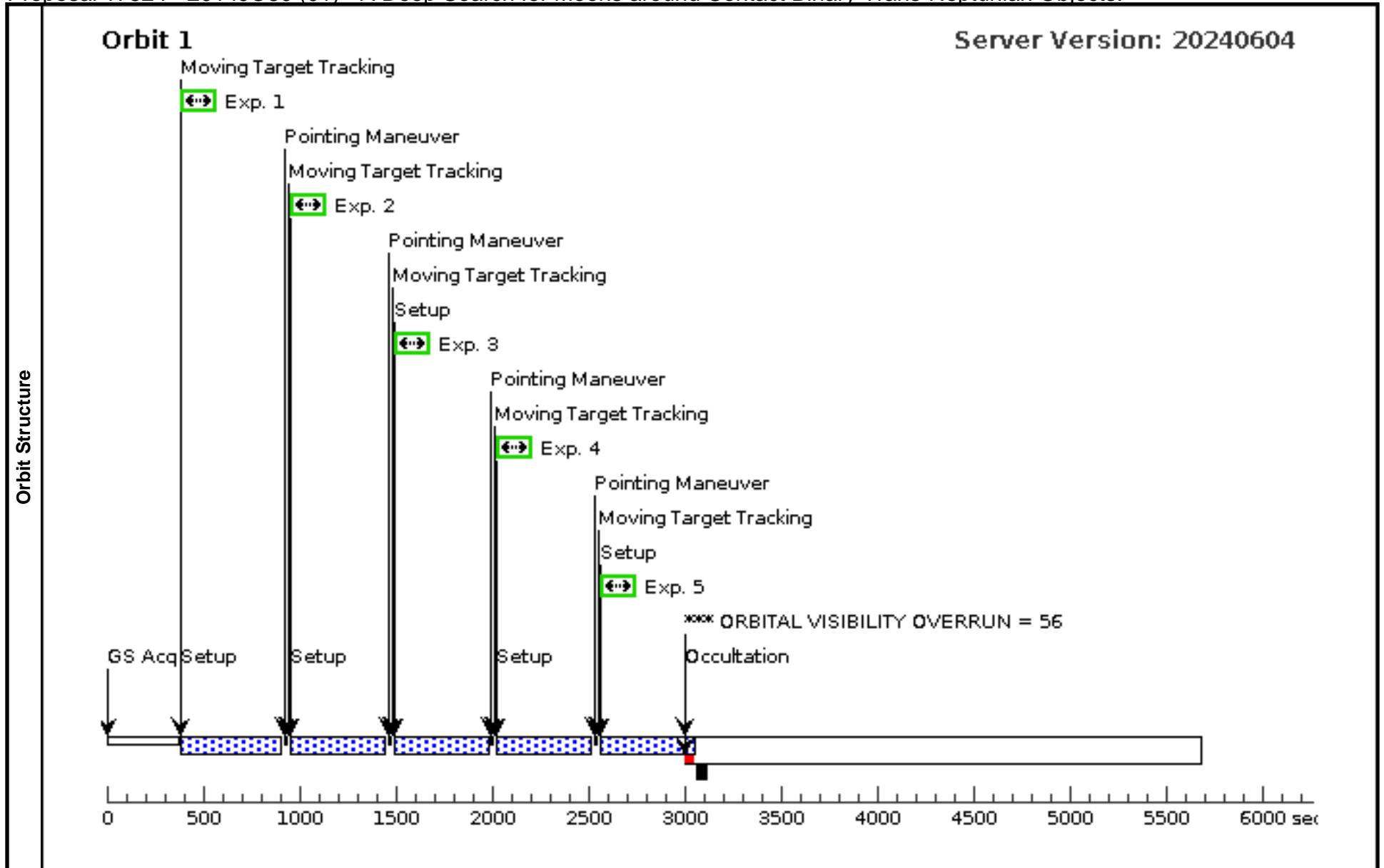
OBSERVING DESCRIPTION

We aim to look for moon(s) around contact binaries in the trans-Neptunian belt to constrain the formation of these systems.

Proposal 17524 - 2014JO80 (01) - A Deep Search for Moons around Contact Binary Trans-Neptunian Objects.

Wed Sep 18 18:00:24 GMT 2024

Visit	Proposal 17524, 2014JO80 (01), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 04-APR-2024:00:00:00 AND 04-APR-2024:21:00:00; BETWEEN 22-MAY-2024:15:00:00 AND 22-MAY-2024:18:00:00; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET									
	(2014JO80 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (2014JO80 (01)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
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<i>Comments: Description=2014JO80 Extended=NO</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) 2014JO80		WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.3437,0 .3674	Sequence 1-5 Non-Int in 2014JO80 (01)	450 Secs (450 Secs) [==>]	[1]
	2	(1) 2014JO80		WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.4760,0 .5286	Sequence 1-5 Non-Int in 2014JO80 (01)	450 Secs (450 Secs) [==>]	[1]
	3	(1) 2014JO80		WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.6544,0 .6796	Sequence 1-5 Non-Int in 2014JO80 (01)	450 Secs (450 Secs) [==>]	[1]
	4	(1) 2014JO80		WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.1719,0 .1837	Sequence 1-5 Non-Int in 2014JO80 (01)	450 Secs (450 Secs) [==>]	[1]
	5	(1) 2014JO80		WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-5 Non-Int in 2014JO80 (01)	450 Secs (450 Secs) [==>]	[1]



Proposal 17524 - 2014JL80 (02) - A Deep Search for Moons around Contact Binary Trans-Neptunian Objects.

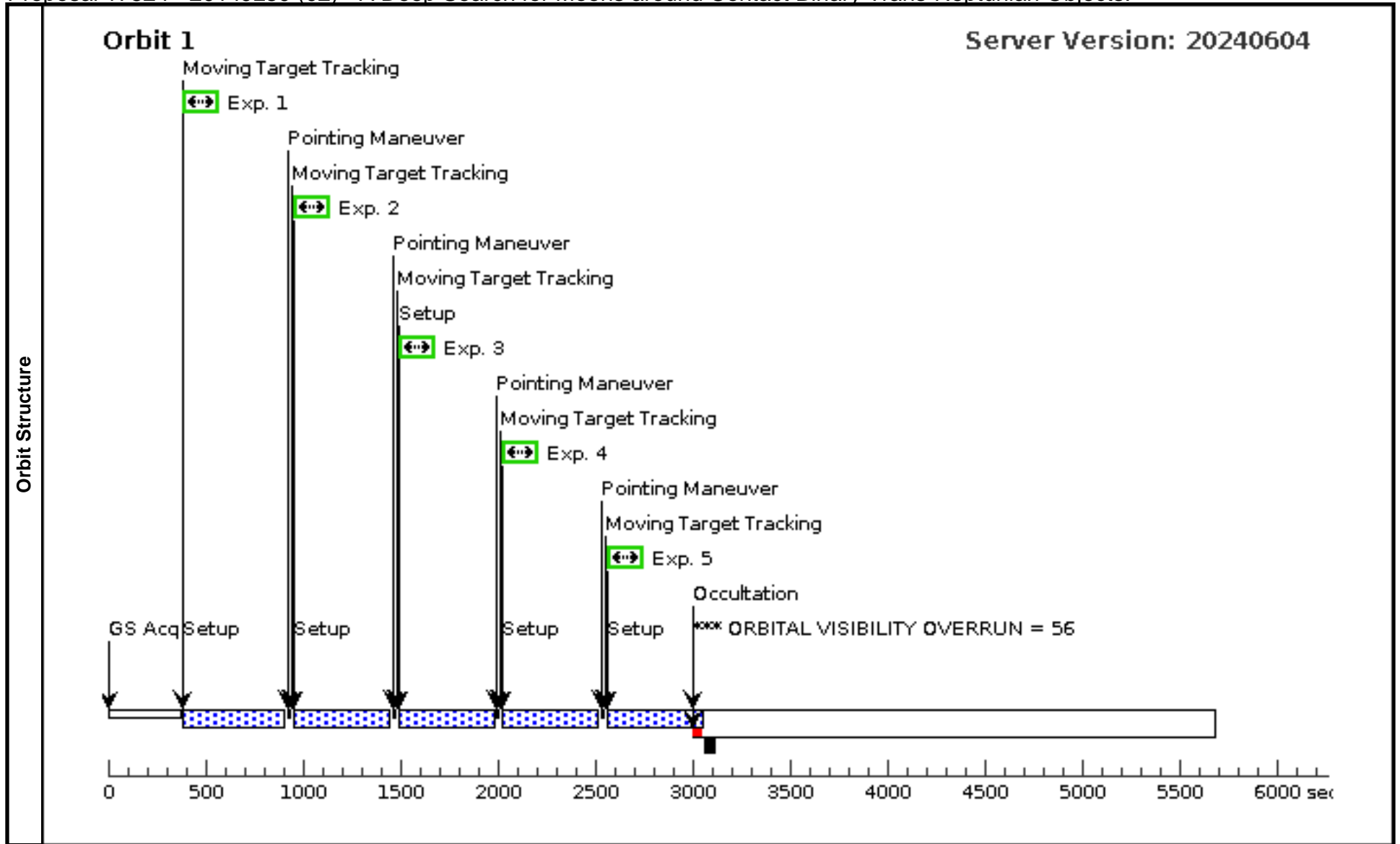
Wed Sep 18 18:00:24 GMT 2024

Visit	<p>Proposal 17524, 2014JL80 (02), failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 29-JAN-2024:01:00:00 AND 29-JAN-2024:05:00:00; BETWEEN 09-FEB-2024:10:00:00 AND 09-FEB-2024:12:00:00; BETWEEN 13-MAY-2024:07:50:00 AND 13-MAY-2024:12:20:00; BETWEEN 16-MAY-2024:17:50:00 AND 16-MAY-2024:21:00:00; BETWEEN 06-JUL-2024:20:00:00 AND 06-JUL-2024:22:50:00; BETWEEN 30-JUN-2024:19:10:00 AND 30-JUN-2024:23:00:00; BETWEEN 29-JUN-2024:18:10:00 AND 29-JUN-2024:21:40:00; BETWEEN 28-JUN-2024:14:00:00 AND 28-JUN-2024:21:20:00; BETWEEN 12-JUL-2024:04:40:00 AND 12-JUL-2024:13:00:00; BETWEEN 14-JUL-2024:00:50:00 AND 14-JUL-2024:03:00:00; BETWEEN 16-JUL-2024:13:30:00 AND 16-JUL-2024:18:10:00; BETWEEN 17-JUL-2024:04:10:00 AND 17-JUL-2024:06:30:00; BETWEEN 18-JUL-2024:03:40:00 AND 18-JUL-2024:05:20:00; BETWEEN 19-JUL-2024:00:10:00 AND 19-JUL-2024:02:00:00; BETWEEN 19-JUL-2024:20:50:00 AND 20-JUL-2024:04:20:00; BETWEEN 21-JUL-2024:00:00:00 AND 22-JUL-2024:05:00:00; BETWEEN 22-JUL-2024:20:20:00 AND 23-JUL-2024:08:10:00; BETWEEN 24-JUL-2024:08:20:00 AND 27-JUL-2024:08:40:00; BETWEEN 02-AUG-2024:02:50:00 AND 02-AUG-2024:16:30:00; BETWEEN 11-AUG-2024:00:00:00 AND 13-AUG-2024:02:10:00; BETWEEN 25-AUG-2024:20:50:00 AND 25-AUG-2024:22:50:00; BETWEEN 30-AUG-2024:22:50:00 AND 31-AUG-2024:05:10:00; BETWEEN 01-SEP-2024:18:00:00 AND 01-SEP-2024:23:10:00; BETWEEN 06-SEP-2024:18:20:00 AND 07-SEP-2024:02:20:00; BETWEEN 12-SEP-2024:22:30:00 AND 13-SEP-2024:15:10:00; BETWEEN 19-SEP-2024:10:40:00 AND 20-SEP-2024:02:10:00; BETWEEN 23-SEP-2024:02:10:00 AND 26-SEP-2024:00:00:00; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET</p>
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Diagnostics	<p>(2014JL80 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(2014JL80 (02)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>
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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>2014JL80</td> <td>TYPE=ASTEROID,A=39.5968435982 2288,E=0.282400646807814,I=6.1922 67253732557 ,O=129.2999191298114,W=118.05234 07991754,M=351.0980618617695,EQ UINOX=J2000,EPOCH=27-NOV- 2015:00:00:00,EpochTimeScale=TDB</td> <td></td> <td></td> <td></td> <td>EARTH</td> </tr> </tbody> </table> <p><i>Comments: Description=2014JL80 Extended=NO</i></p>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(2)	2014JL80	TYPE=ASTEROID,A=39.5968435982 2288,E=0.282400646807814,I=6.1922 67253732557 ,O=129.2999191298114,W=118.05234 07991754,M=351.0980618617695,EQ UINOX=J2000,EPOCH=27-NOV- 2015:00:00:00,EpochTimeScale=TDB				EARTH
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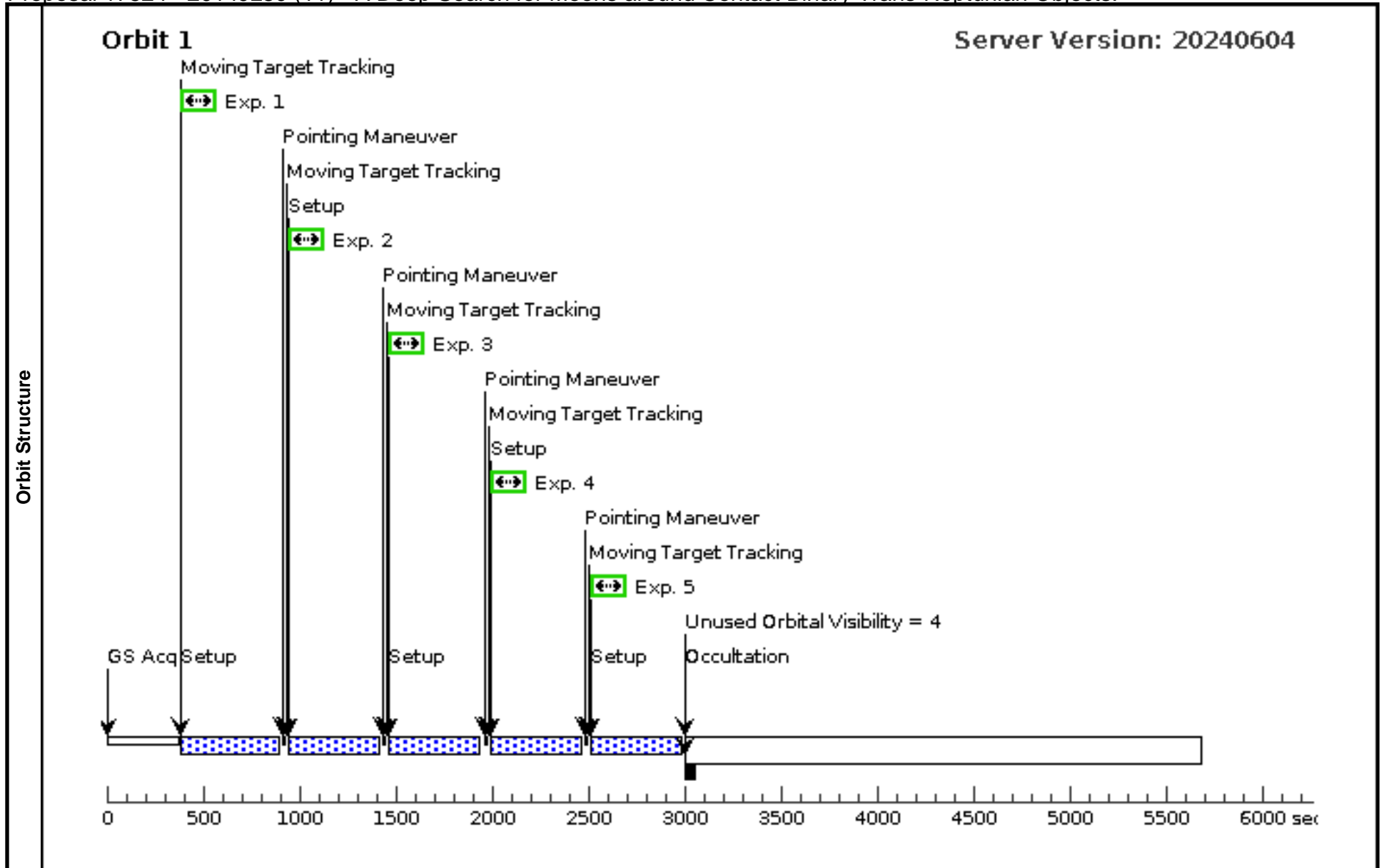
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2)	2014JL80	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.3437,0 .3674	Sequence 1-5 Non-In t in 2014JL80 (02)	450 Secs (450 Secs) [==>]	[1]
	2	(2)	2014JL80	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.1719, 0.1837	Sequence 1-5 Non-In t in 2014JL80 (02)	450 Secs (450 Secs) [==>]	[1]
	3	(2)	2014JL80	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.4760,0 .5286	Sequence 1-5 Non-In t in 2014JL80 (02)	450 Secs (450 Secs) [==>]	[1]
	4	(2)	2014JL80	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-5 Non-In t in 2014JL80 (02)	450 Secs (450 Secs) [==>]	[1]
	5	(2)	2014JL80	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.6544,0 .6796	Sequence 1-5 Non-In t in 2014JL80 (02)	450 Secs (450 Secs) [==>]	[1]



Proposal 17524 - 2014JL80 (11) - A Deep Search for Moons around Contact Binary Trans-Neptunian Objects.

Wed Sep 18 18:00:24 GMT 2024

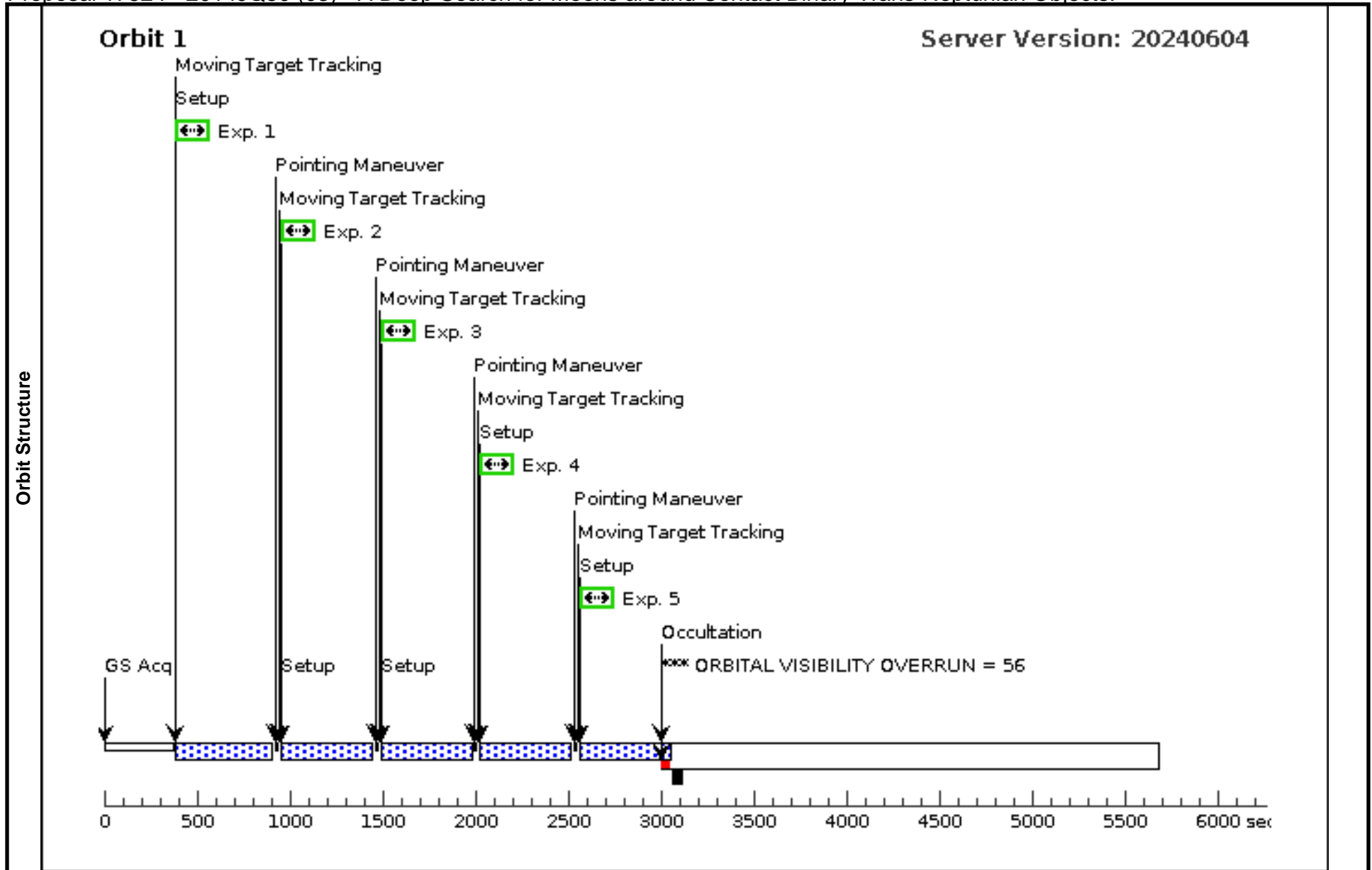
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Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) 2014JL80		WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.3437,0 .3674	Sequence 1-5 Non-Int in 2014JL80 (11)	450 Secs (438 Secs) [=>438.0 Secs]	[1]
	2	(2) 2014JL80		WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.1719, 0.1837	Sequence 1-5 Non-Int in 2014JL80 (11)	450 Secs (438 Secs) [=>438.0 Secs]	[1]
	3	(2) 2014JL80		WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.4760,0 .5286	Sequence 1-5 Non-Int in 2014JL80 (11)	450 Secs (438 Secs) [=>438.0 Secs]	[1]
	4	(2) 2014JL80		WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-5 Non-Int in 2014JL80 (11)	450 Secs (438 Secs) [=>438.0 Secs]	[1]
	5	(2) 2014JL80		WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.6544,0 .6796	Sequence 1-5 Non-Int in 2014JL80 (11)	450 Secs (438 Secs) [=>438.0 Secs]	[1]



Proposal 17524 - 2014JQ80 (03) - A Deep Search for Moons around Contact Binary Trans-Neptunian Objects.

Wed Sep 18 18:00:24 GMT 2024

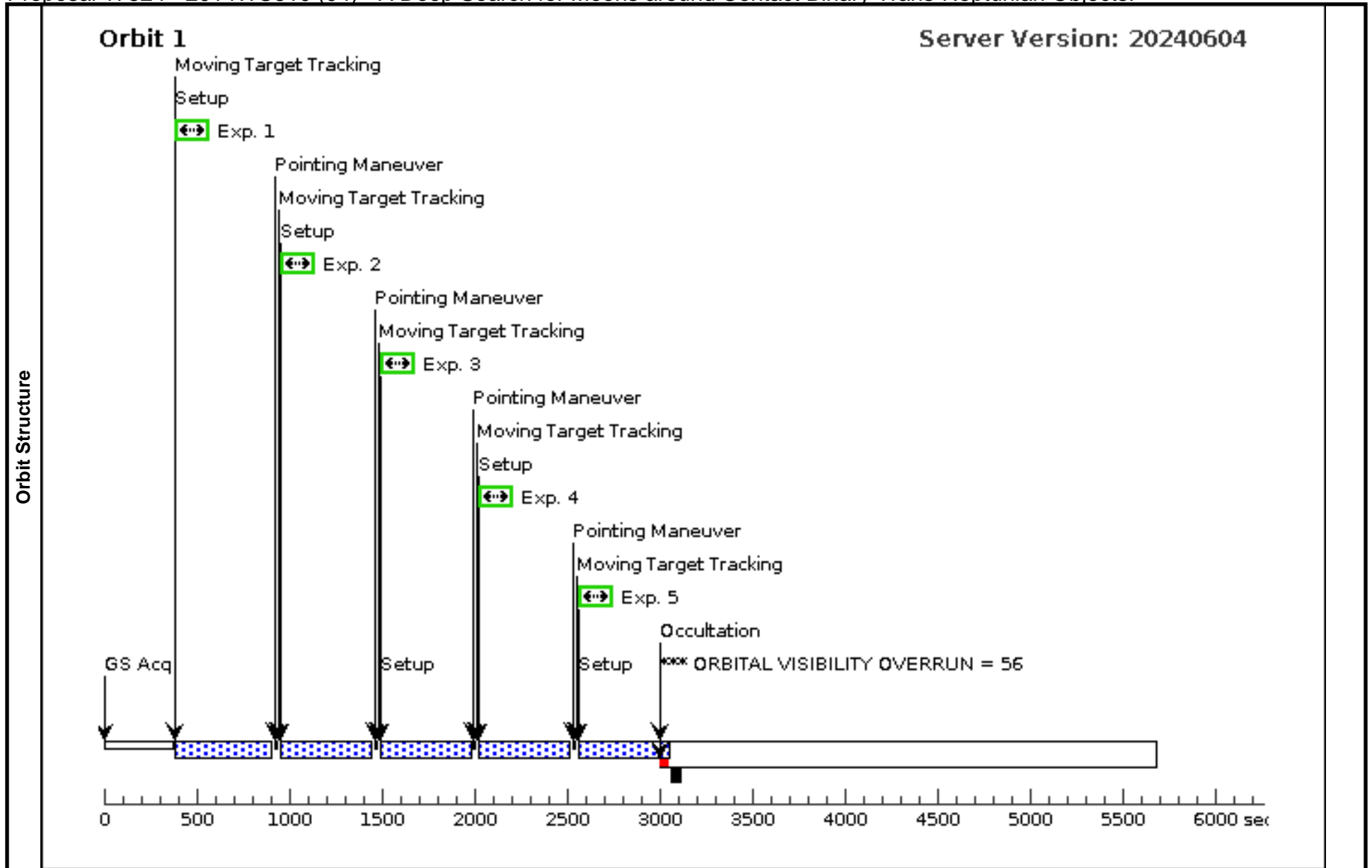
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Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>(3) 2014JQ80</td> <td>WFC3/UVIS, ACCUM, UVIS2-C512C-SUB</td> <td>F350LP</td> <td></td> <td>POS TARG 0.6544,0 .6796</td> <td>Sequence 1-5 Non-Int in 2014JQ80 (03)</td> <td>450 Secs (450 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td></td> <td>(3) 2014JQ80</td> <td>WFC3/UVIS, ACCUM, UVIS2-C512C-SUB</td> <td>F350LP</td> <td></td> <td>POS TARG 0.3437,0 .3674</td> <td>Sequence 1-5 Non-Int in 2014JQ80 (03)</td> <td>450 Secs (450 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td></td> <td>(3) 2014JQ80</td> <td>WFC3/UVIS, ACCUM, UVIS2-C512C-SUB</td> <td>F350LP</td> <td></td> <td>POS TARG 0.1719,0 .1837</td> <td>Sequence 1-5 Non-Int in 2014JQ80 (03)</td> <td>450 Secs (450 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td></td> <td>(3) 2014JQ80</td> <td>WFC3/UVIS, ACCUM, UVIS2-C512C-SUB</td> <td>F350LP</td> <td></td> <td>POS TARG 0.4760,0 .5286</td> <td>Sequence 1-5 Non-Int in 2014JQ80 (03)</td> <td>450 Secs (450 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>5</td> <td></td> <td>(3) 2014JQ80</td> <td>WFC3/UVIS, ACCUM, UVIS2-C512C-SUB</td> <td>F350LP</td> <td></td> <td>POS TARG 0,0</td> <td>Sequence 1-5 Non-Int in 2014JQ80 (03)</td> <td>450 Secs (450 Secs) [==>]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1		(3) 2014JQ80	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.6544,0 .6796	Sequence 1-5 Non-Int in 2014JQ80 (03)	450 Secs (450 Secs) [==>]	[1]	2		(3) 2014JQ80	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.3437,0 .3674	Sequence 1-5 Non-Int in 2014JQ80 (03)	450 Secs (450 Secs) [==>]	[1]	3		(3) 2014JQ80	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.1719,0 .1837	Sequence 1-5 Non-Int in 2014JQ80 (03)	450 Secs (450 Secs) [==>]	[1]	4		(3) 2014JQ80	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.4760,0 .5286	Sequence 1-5 Non-Int in 2014JQ80 (03)	450 Secs (450 Secs) [==>]	[1]	5		(3) 2014JQ80	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-5 Non-Int in 2014JQ80 (03)	450 Secs (450 Secs) [==>]	[1]									
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Proposal 17524 - 2014WC510 (04) - A Deep Search for Moons around Contact Binary Trans-Neptunian Objects.

Wed Sep 18 18:00:24 GMT 2024

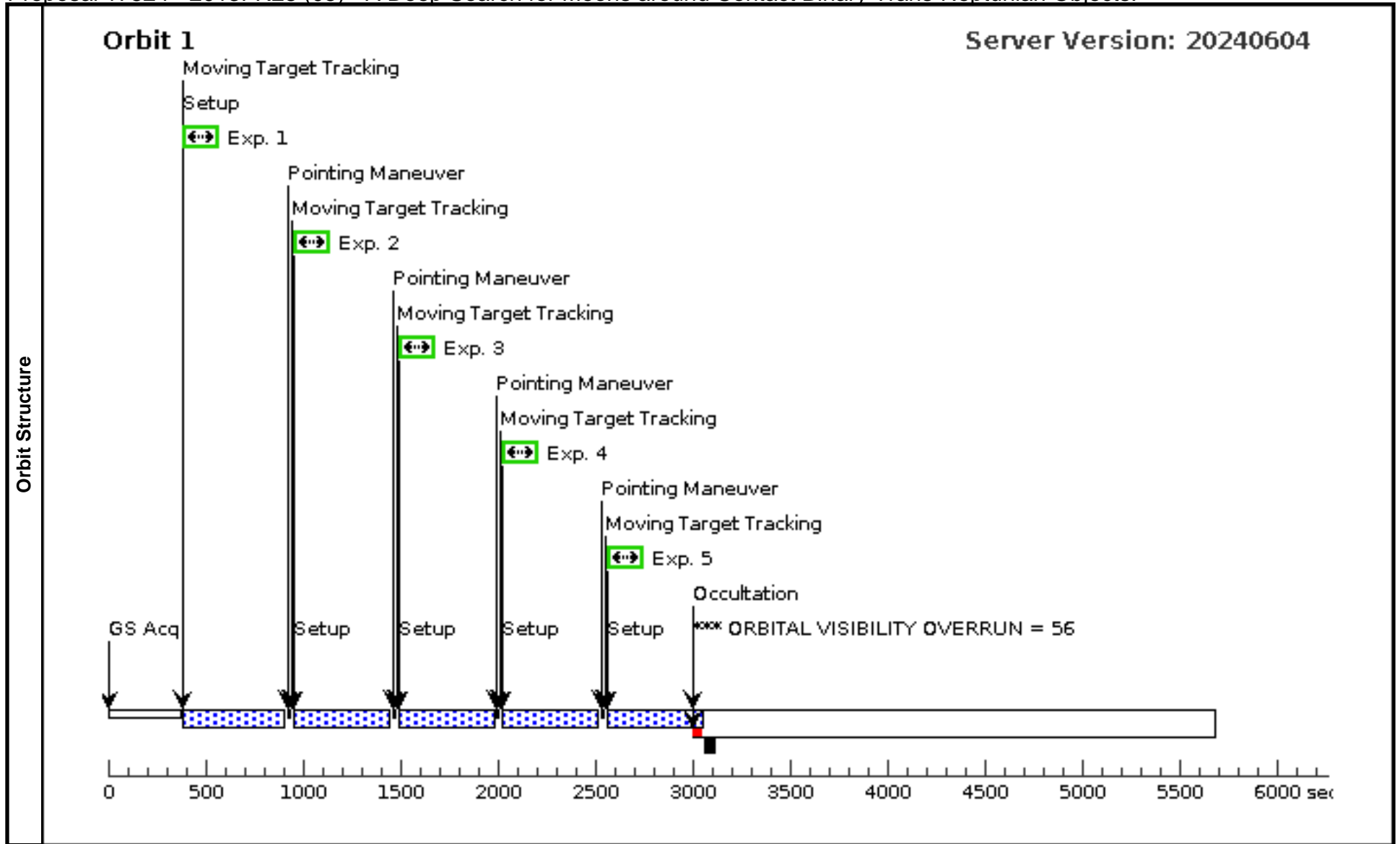
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	(2014WC510 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (2014WC510 (04)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																																																																					
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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>(4)</td> <td>2014WC510</td> <td>TYPE=ASTEROID,A=39.7008685974 7327,E=0.2560282587909943,I=19.54 536751213587 .O=194.5488913756715,W=288.66726 99229918,M=336.0928769635712,EQ UINOX=J2000,EPOCH=10-MAR- 2015:00:00:00,EpochTimeScale=TDB</td> <td></td> <td></td> <td></td> <td>EARTH</td> </tr> </tbody> </table>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(4)	2014WC510	TYPE=ASTEROID,A=39.7008685974 7327,E=0.2560282587909943,I=19.54 536751213587 .O=194.5488913756715,W=288.66726 99229918,M=336.0928769635712,EQ UINOX=J2000,EPOCH=10-MAR- 2015:00:00:00,EpochTimeScale=TDB				EARTH	Comments: Description=2014WC510 Extended=NO																																																						
	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center																																																															
(4)	2014WC510	TYPE=ASTEROID,A=39.7008685974 7327,E=0.2560282587909943,I=19.54 536751213587 .O=194.5488913756715,W=288.66726 99229918,M=336.0928769635712,EQ UINOX=J2000,EPOCH=10-MAR- 2015:00:00:00,EpochTimeScale=TDB				EARTH																																																																
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 (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>(4) 2014WC510</td> <td>WFC3/UVIS, ACCUM, UVIS2-C512C-SUB</td> <td>F350LP</td> <td></td> <td>POS TARG 0.3437,0 .3674</td> <td>Sequence 1-5 Non-Int in 2014WC510 (04)</td> <td>450 Secs (450 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td></td> <td>(4) 2014WC510</td> <td>WFC3/UVIS, ACCUM, UVIS2-C512C-SUB</td> <td>F350LP</td> <td></td> <td>POS TARG 0.1719,0 .1837</td> <td>Sequence 1-5 Non-Int in 2014WC510 (04)</td> <td>450 Secs (450 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td></td> <td>(4) 2014WC510</td> <td>WFC3/UVIS, ACCUM, UVIS2-C512C-SUB</td> <td>F350LP</td> <td></td> <td>POS TARG 0.4760,0 .5286</td> <td>Sequence 1-5 Non-Int in 2014WC510 (04)</td> <td>450 Secs (450 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td></td> <td>(4) 2014WC510</td> <td>WFC3/UVIS, ACCUM, UVIS2-C512C-SUB</td> <td>F350LP</td> <td></td> <td>POS TARG 0.6544,0 .6796</td> <td>Sequence 1-5 Non-Int in 2014WC510 (04)</td> <td>450 Secs (450 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>5</td> <td></td> <td>(4) 2014WC510</td> <td>WFC3/UVIS, ACCUM, UVIS2-C512C-SUB</td> <td>F350LP</td> <td></td> <td>POS TARG 0,0</td> <td>Sequence 1-5 Non-Int in 2014WC510 (04)</td> <td>450 Secs (450 Secs) [==>]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1		(4) 2014WC510	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.3437,0 .3674	Sequence 1-5 Non-Int in 2014WC510 (04)	450 Secs (450 Secs) [==>]	[1]	2		(4) 2014WC510	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.1719,0 .1837	Sequence 1-5 Non-Int in 2014WC510 (04)	450 Secs (450 Secs) [==>]	[1]	3		(4) 2014WC510	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.4760,0 .5286	Sequence 1-5 Non-Int in 2014WC510 (04)	450 Secs (450 Secs) [==>]	[1]	4		(4) 2014WC510	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.6544,0 .6796	Sequence 1-5 Non-Int in 2014WC510 (04)	450 Secs (450 Secs) [==>]	[1]	5		(4) 2014WC510	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-5 Non-Int in 2014WC510 (04)	450 Secs (450 Secs) [==>]	[1]									
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																												
	1		(4) 2014WC510	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.3437,0 .3674	Sequence 1-5 Non-Int in 2014WC510 (04)	450 Secs (450 Secs) [==>]	[1]																																																												
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Proposal 17524 - 2013FR28 (05) - A Deep Search for Moons around Contact Binary Trans-Neptunian Objects.

Wed Sep 18 18:00:24 GMT 2024

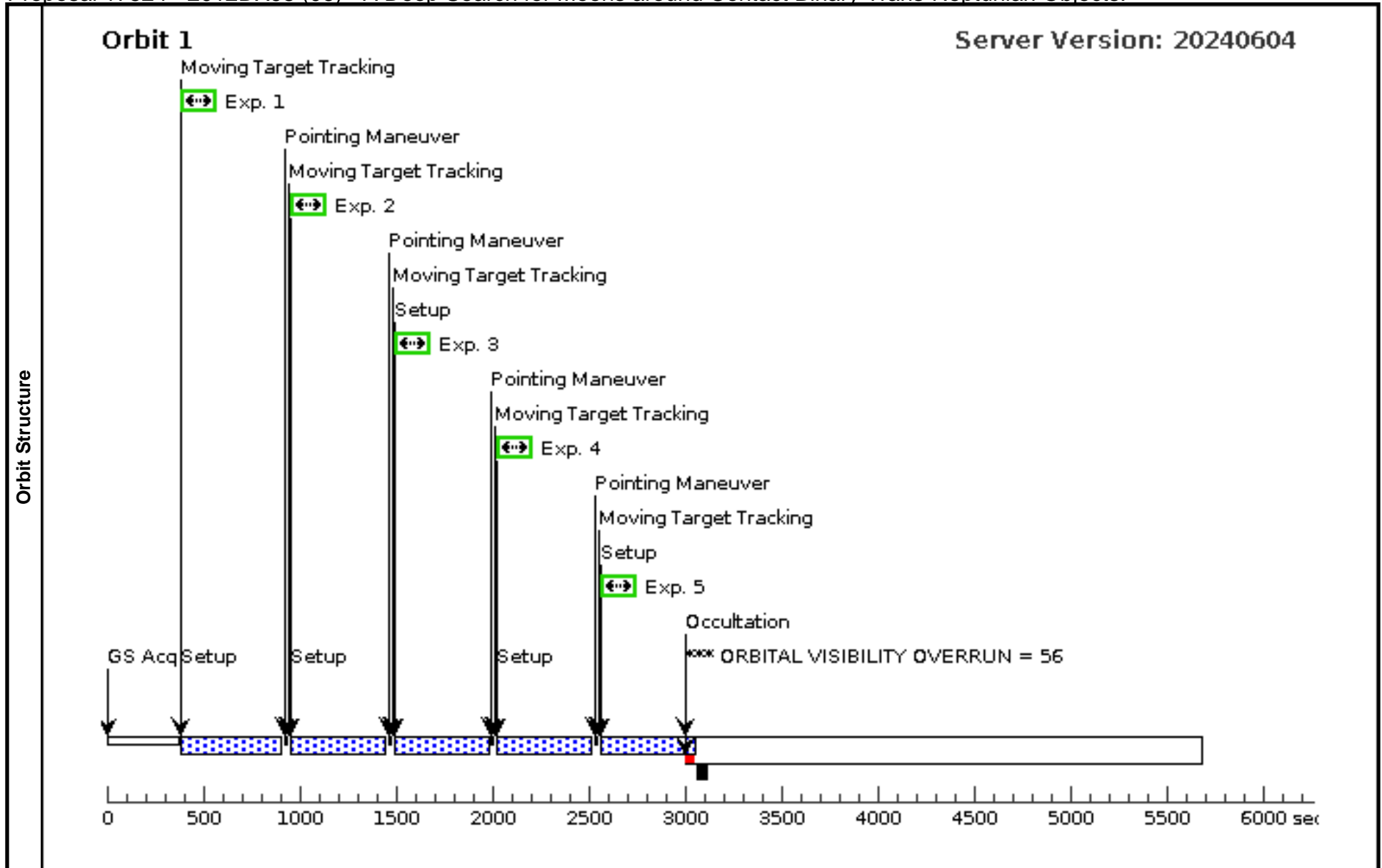
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	(2013FR28 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (2013FR28 (05)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(5)	2013FR28	TYPE=ASTEROID,A=43.8576935390 0616,E=0.2442179808779075,I=2.991 491405743757 .O=41.92654007584913,W=132.05518 0799013,M=14.2102379328887,EQUI NOX=J2000,EPOCH=11-MAY- 2014:00:00:00,EpochTimeScale=TDB					EARTH		
<i>Comments: Description=2013FR28 Extended=NO</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(5) 2013FR28		WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.6544,0 .6796	Sequence 1-5 Non-Int in 2013FR28 (05)	450 Secs (450 Secs) [==>]	[1]
	2	(5) 2013FR28		WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-5 Non-Int in 2013FR28 (05)	450 Secs (450 Secs) [==>]	[1]
	3	(5) 2013FR28		WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.3437,0 .3674	Sequence 1-5 Non-Int in 2013FR28 (05)	450 Secs (450 Secs) [==>]	[1]
	4	(5) 2013FR28		WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.4760,0 .5286	Sequence 1-5 Non-Int in 2013FR28 (05)	450 Secs (450 Secs) [==>]	[1]
	5	(5) 2013FR28		WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.1719,0 .1837	Sequence 1-5 Non-Int in 2013FR28 (05)	450 Secs (450 Secs) [==>]	[1]



Proposal 17524 - 2012DX98 (06) - A Deep Search for Moons around Contact Binary Trans-Neptunian Objects.

Wed Sep 18 18:00:24 GMT 2024

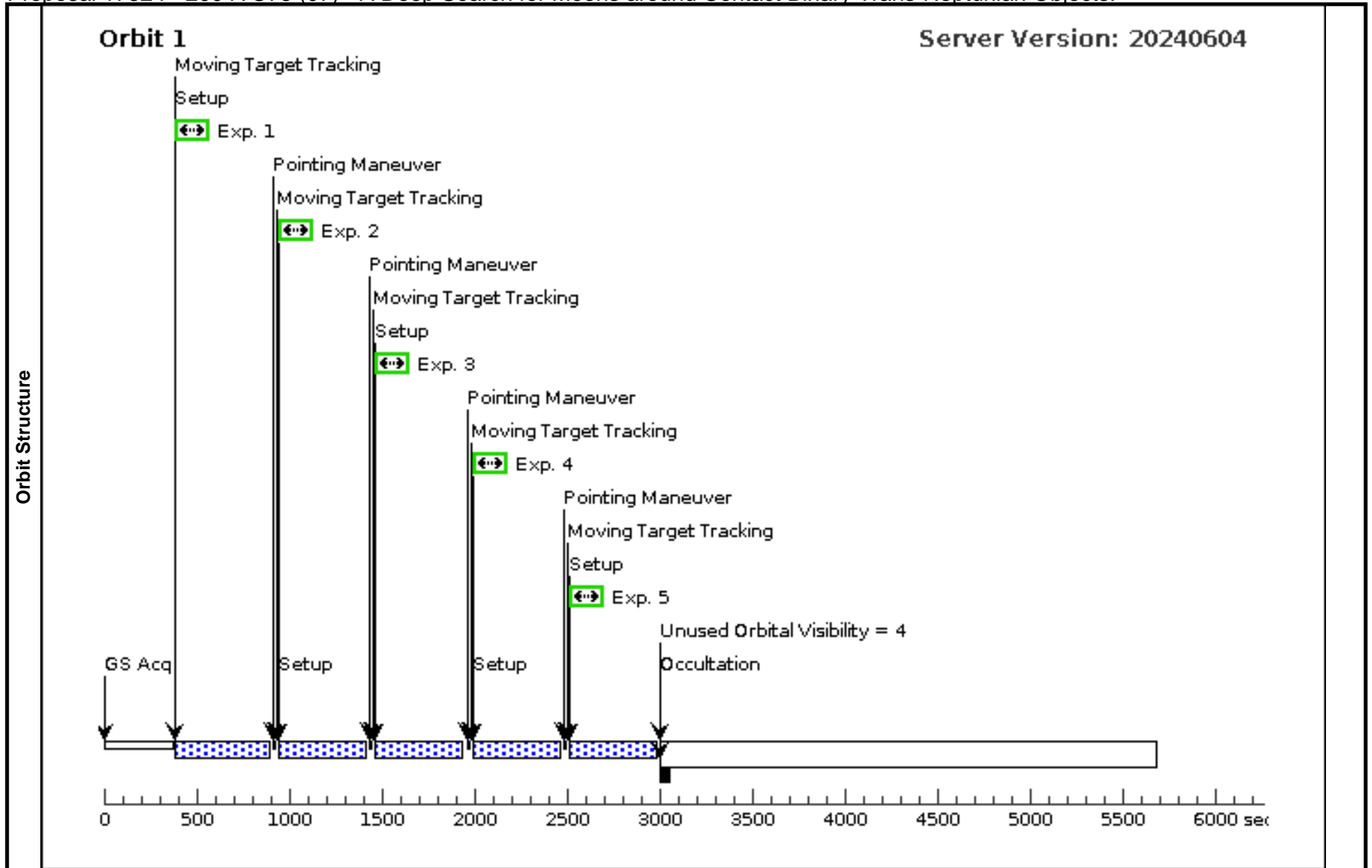
Visit	Proposal 17524, 2012DX98 (06), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-FEB-2024:00:00:00 AND 04-FEB-2024:00:00:00: VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET										
	(2012DX98 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (2012DX98 (06)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.										
Diagnosics											
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center				
	(6)	2012DX98	TYPE=ASTEROID,A=48.3197929479 4919,E=0.2731431187031366,I=13.08 856145345563 ,O=9.706757995066864,W=188.17788 31011808,M=357.5825534769866,EQ UINOX=J2000,EPOCH=28-MAY- 2015:00:00:00,EpochTimeScale=TDB					EARTH			
<i>Comments: Description=2012DX98 Extended=NO</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	(6) 2012DX98		WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-5 Non-Int in 2012DX98 (06)	450 Secs (450 Secs) [==>]	[1]	
	<i>Comments: The entire plan window from February 1, 2024 to February 4, 2024 is feasible.</i>										
	2	(6) 2012DX98		WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.4760,0	Sequence 1-5 Non-Int in 2012DX98 (06)	450 Secs (450 Secs) [==>]	[1]	
	3	(6) 2012DX98		WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.6544,0	Sequence 1-5 Non-Int in 2012DX98 (06)	450 Secs (450 Secs) [==>]	[1]	
	4	(6) 2012DX98		WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.3437,0	Sequence 1-5 Non-Int in 2012DX98 (06)	450 Secs (450 Secs) [==>]	[1]	
5	(6) 2012DX98		WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.1719,0	Sequence 1-5 Non-Int in 2012DX98 (06)	450 Secs (450 Secs) [==>]	[1]		



Proposal 17524 - 2004VU75 (07) - A Deep Search for Moons around Contact Binary Trans-Neptunian Objects.

Wed Sep 18 18:00:24 GMT 2024

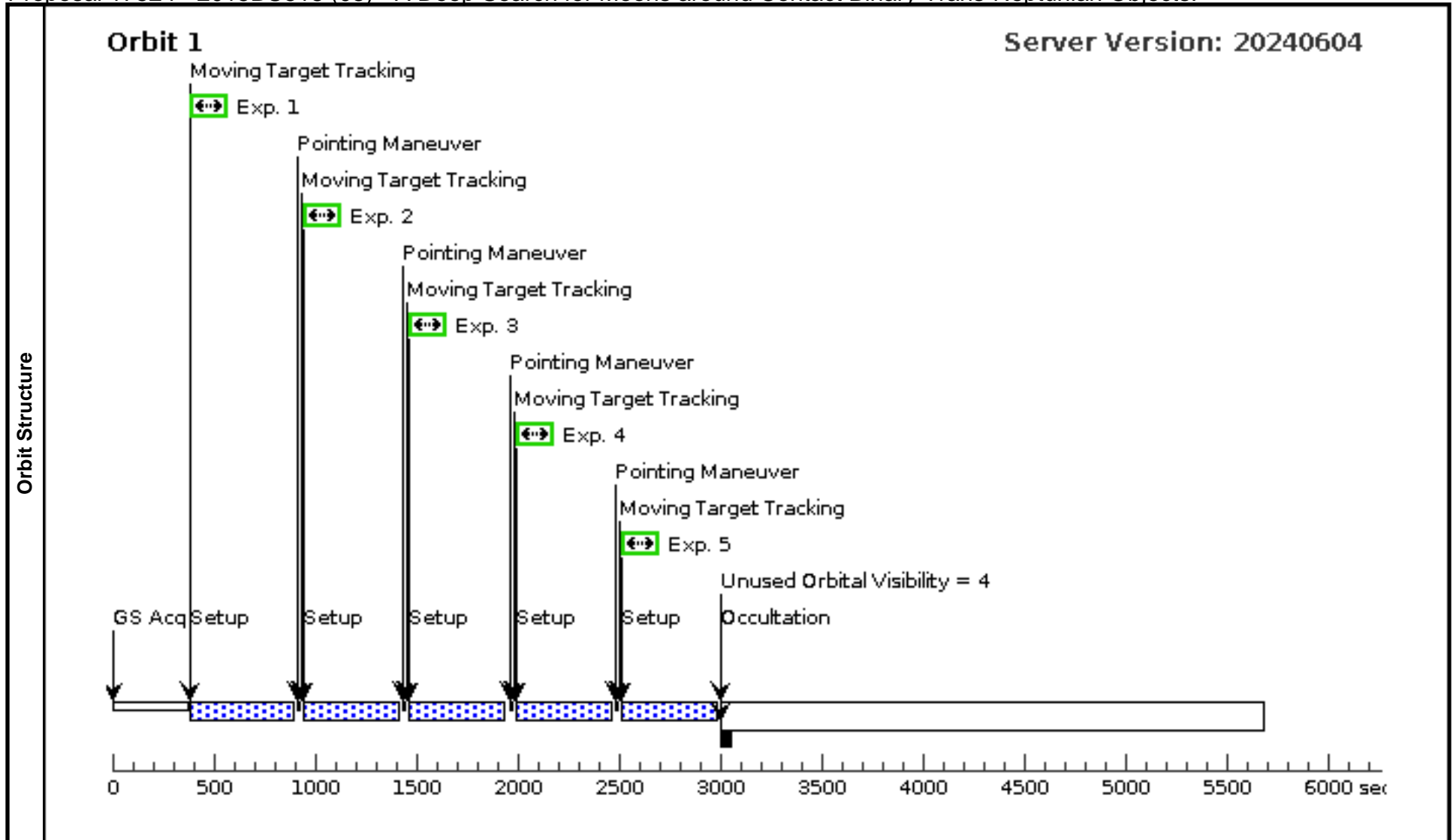
Visit	Proposal 17524, 2004VU75 (07), implementation Diagnostic Status: Informational Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-SEP-2024:00:00:00 AND 04-SEP-2024:05:00:00; BETWEEN 05-SEP-2024:18:00:00 AND 06-SEP-2024:13:00:00; BETWEEN 09-SEP-2024:11:00:00 AND 12-SEP-2024:11:00:00; BETWEEN 13-SEP-2024:21:00:00 AND 15-SEP-2024:22:00:00; BETWEEN 16-SEP-2024:06:00:00 AND 16-SEP-2024:15:00:00; BETWEEN 18-SEP-2024:01:00:00 AND 19-SEP-2024:11:00:00; BETWEEN 20-SEP-2024:16:00:00 AND 23-SEP-2024:14:00:00; BETWEEN 24-SEP-2024:17:00:00 AND 25-SEP-2024:11:00:00; BETWEEN 29-SEP-2024:02:00:00 AND 30-SEP-2024:22:00:00; BETWEEN 02-OCT-2024:07:00:00 AND 08-OCT-2024:17:00:00; BETWEEN 10-OCT-2024:12:00:00 AND 11-OCT-2024:04:00:00; BETWEEN 12-OCT-2024:15:00:00 AND 14-OCT-2024:01:00:00; BETWEEN 01-NOV-2024:17:00:00 AND 04-NOV-2024:17:00:00; BETWEEN 06-NOV-2024:02:00:00 AND 10-NOV-2024:15:00:00; BETWEEN 16-OCT-2024:17:00:00 AND 19-OCT-2024:05:00:00; BETWEEN 20-OCT-2024:00:00:00 AND 20-OCT-2024:11:00:00; BETWEEN 20-OCT-2024:20:00:00 AND 22-OCT-2024:14:00:00; BETWEEN 22-OCT-2024:23:00:00 AND 24-OCT-2024:03:00:00; BETWEEN 28-OCT-2024:10:00:00 AND 29-OCT-2024:00:00:00; BETWEEN 29-OCT-2024:08:00:00 AND 31-OCT-2024:00:00:00; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET									
	(2004VU75 (07)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(7)	2004VU75	TYPE=ASTEROID,A=43.75512689560638,E=0.1357747677320264,I=3.345975875734768,O=53.06102088999503,W=248.0172999465108,M=69.15357206067767,EQUINOX=J2000,EPOCH=26-NOV-2008:00:00:00,EpochTimeScale=TDB				EARTH			
Comments: Description=2004VU75 Extended=NO										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(7) 2004VU75	(7) 2004VU75	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-5 Non-Int in 2004VU75 (07)	450 Secs (438 Secs) [==>438.0 Secs]	[1]
	2	(7) 2004VU75	(7) 2004VU75	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.6544,0.6796	Sequence 1-5 Non-Int in 2004VU75 (07)	450 Secs (438 Secs) [==>438.0 Secs]	[1]
	3	(7) 2004VU75	(7) 2004VU75	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.4760,0.5286	Sequence 1-5 Non-Int in 2004VU75 (07)	450 Secs (438 Secs) [==>438.0 Secs]	[1]
	4	(7) 2004VU75	(7) 2004VU75	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.3437,0.3674	Sequence 1-5 Non-Int in 2004VU75 (07)	450 Secs (438 Secs) [==>438.0 Secs]	[1]
	5	(7) 2004VU75	(7) 2004VU75	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.1719,0.1837	Sequence 1-5 Non-Int in 2004VU75 (07)	450 Secs (438 Secs) [==>438.0 Secs]	[1]



Proposal 17524 - 2015BU518 (08) - A Deep Search for Moons around Contact Binary Trans-Neptunian Objects.

Wed Sep 18 18:00:24 GMT 2024

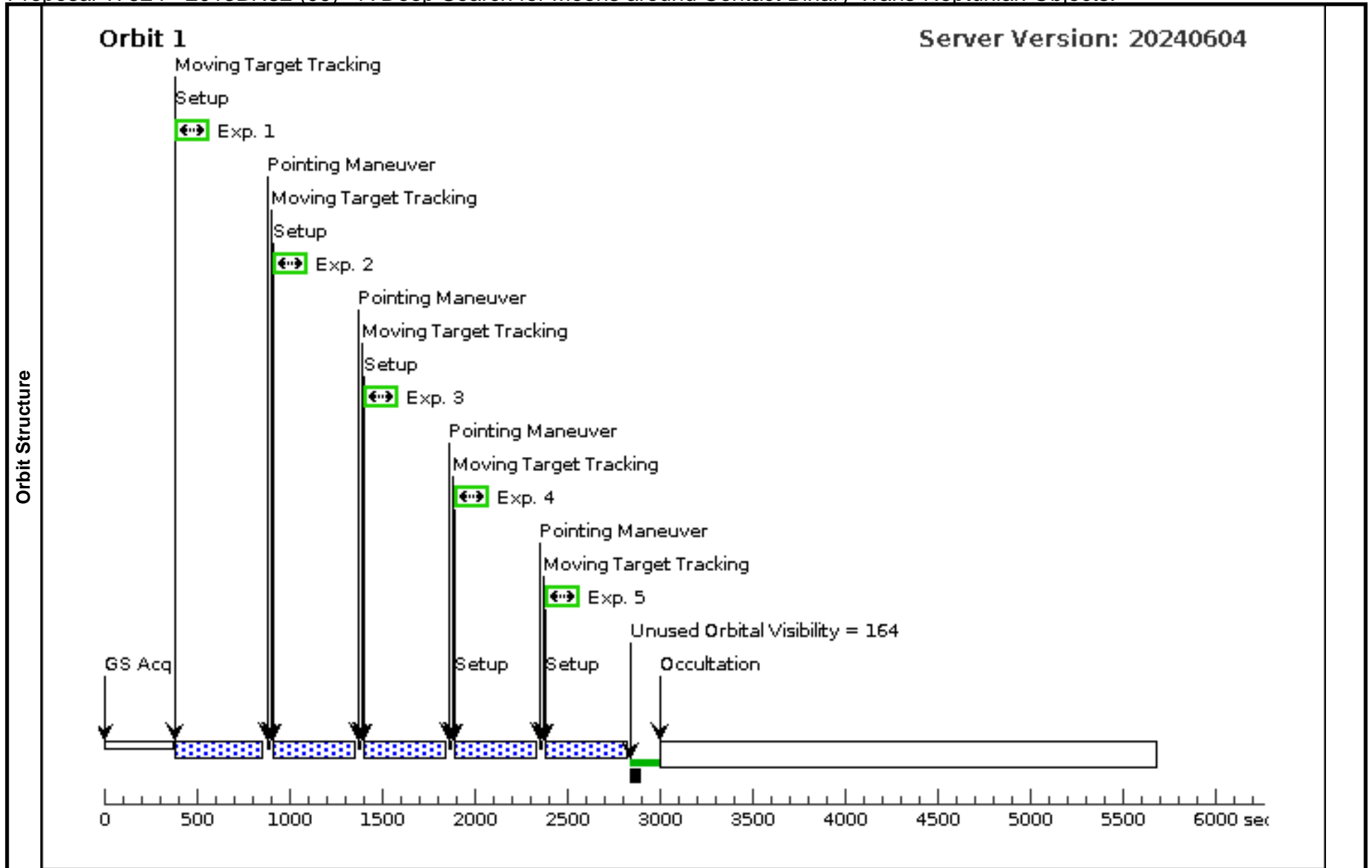
Visit	Proposal 17524, 2015BU518 (08), implementation Diagnostic Status: Informational Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 24-JAN-2025:00:00:00 AND 24-JAN-2025:18:00:00; BETWEEN 25-JAN-2025:08:00:00 AND 26-JAN-2025:18:00:00; BETWEEN 30-JAN-2025:06:00:00 AND 31-JAN-2025:04:00:00; BETWEEN 01-FEB-2025:12:00:00 AND 02-FEB-2025:04:00:00; BETWEEN 03-FEB-2025:07:00:00 AND 04-FEB-2025:06:00:00; BETWEEN 09-MAR-2025:03:00:00 AND 11-MAR-2025:04:00:00; BETWEEN 12-MAR-2025:11:00:00 AND 12-MAR-2025:22:00:00; BETWEEN 13-MAR-2025:23:00:00 AND 14-MAR-2025:19:00:00; BETWEEN 16-MAR-2025:05:00:00 AND 16-MAR-2025:22:00:00; BETWEEN 18-MAR-2025:05:00:00 AND 19-MAR-2025:00:00:00; BETWEEN 20-MAR-2025:05:00:00 AND 21-MAR-2025:07:00:00; BETWEEN 22-MAR-2025:08:00:00 AND 24-MAR-2025:00:00:00; BETWEEN 25-MAR-2025:03:00:00 AND 27-MAR-2025:01:00:00; BETWEEN 07-APR-2025:08:00:00 AND 08-APR-2025:15:00:00; BETWEEN 10-APR-2025:15:00:00 AND 11-APR-2025:05:00:00; BETWEEN 13-APR-2025:09:00:00 AND 13-APR-2025:15:00:00; BETWEEN 14-APR-2025:04:00:00 AND 14-APR-2025:17:00:00; BETWEEN 16-APR-2025:16:00:00 AND 19-APR-2025:00:00:00; BETWEEN 24-APR-2025:00:00:00 AND 24-APR-2025:05:00:00; BETWEEN 24-APR-2025:12:00:00 AND 26-APR-2025:20:00:00; BETWEEN 28-APR-2025:18:00:00 AND 29-APR-2025:00:00:00; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET																																																																		
	(2015BU518 (08)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																																																																		
Diagnostics																																																																			
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	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center																																																												
(8)	2015BU518	TYPE=ASTEROID,A=44.0205070893 9536,E=0.2794271932180069,I=11.38 515102088709 .O=61.31173309063589,W=131.98163 183699,M=9.037115976126078,EQUI NOX=J2000,EPOCH=07-JUN- 2015:00:00:00,EpochTimeScale=TDB				EARTH																																																													
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 (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>(8) 2015BU518</td> <td>WFC3/UVIS, ACCUM, UVIS2-C512C-SUB</td> <td>F350LP</td> <td></td> <td>POS TARG 0,0</td> <td>Sequence 1-5 Non-Int in 2015BU518 (08)</td> <td>450 Secs (438 Secs) [=>438.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td></td> <td>(8) 2015BU518</td> <td>WFC3/UVIS, ACCUM, UVIS2-C512C-SUB</td> <td>F350LP</td> <td></td> <td>POS TARG 0.6544,0 .6796</td> <td>Sequence 1-5 Non-Int in 2015BU518 (08)</td> <td>450 Secs (438 Secs) [=>438.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td></td> <td>(8) 2015BU518</td> <td>WFC3/UVIS, ACCUM, UVIS2-C512C-SUB</td> <td>F350LP</td> <td></td> <td>POS TARG 0.4760,0 .5286</td> <td>Sequence 1-5 Non-Int in 2015BU518 (08)</td> <td>450 Secs (438 Secs) [=>438.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td></td> <td>(8) 2015BU518</td> <td>WFC3/UVIS, ACCUM, UVIS2-C512C-SUB</td> <td>F350LP</td> <td></td> <td>POS TARG 0.3437,0 .3674</td> <td>Sequence 1-5 Non-Int in 2015BU518 (08)</td> <td>450 Secs (438 Secs) [=>438.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>5</td> <td></td> <td>(8) 2015BU518</td> <td>WFC3/UVIS, ACCUM, UVIS2-C512C-SUB</td> <td>F350LP</td> <td></td> <td>POS TARG 0.1719,0 .1837</td> <td>Sequence 1-5 Non-Int in 2015BU518 (08)</td> <td>450 Secs (438 Secs) [=>438.0 Secs]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1		(8) 2015BU518	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-5 Non-Int in 2015BU518 (08)	450 Secs (438 Secs) [=>438.0 Secs]	[1]	2		(8) 2015BU518	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.6544,0 .6796	Sequence 1-5 Non-Int in 2015BU518 (08)	450 Secs (438 Secs) [=>438.0 Secs]	[1]	3		(8) 2015BU518	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.4760,0 .5286	Sequence 1-5 Non-Int in 2015BU518 (08)	450 Secs (438 Secs) [=>438.0 Secs]	[1]	4		(8) 2015BU518	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.3437,0 .3674	Sequence 1-5 Non-Int in 2015BU518 (08)	450 Secs (438 Secs) [=>438.0 Secs]	[1]	5		(8) 2015BU518	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.1719,0 .1837	Sequence 1-5 Non-Int in 2015BU518 (08)	450 Secs (438 Secs) [=>438.0 Secs]	[1]						
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																									
	1		(8) 2015BU518	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-5 Non-Int in 2015BU518 (08)	450 Secs (438 Secs) [=>438.0 Secs]	[1]																																																									
	2		(8) 2015BU518	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.6544,0 .6796	Sequence 1-5 Non-Int in 2015BU518 (08)	450 Secs (438 Secs) [=>438.0 Secs]	[1]																																																									
	3		(8) 2015BU518	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.4760,0 .5286	Sequence 1-5 Non-Int in 2015BU518 (08)	450 Secs (438 Secs) [=>438.0 Secs]	[1]																																																									
	4		(8) 2015BU518	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.3437,0 .3674	Sequence 1-5 Non-Int in 2015BU518 (08)	450 Secs (438 Secs) [=>438.0 Secs]	[1]																																																									
5		(8) 2015BU518	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.1719,0 .1837	Sequence 1-5 Non-Int in 2015BU518 (08)	450 Secs (438 Secs) [=>438.0 Secs]	[1]																																																										



Proposal 17524 - 2013BN82 (09) - A Deep Search for Moons around Contact Binary Trans-Neptunian Objects.

Wed Sep 18 18:00:24 GMT 2024

Visit	Proposal 17524, 2013BN82 (09), completed Diagnostic Status: Informational Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 04-MAR-2024:00:00:00 AND 05-MAR-2024:06:00:00; BETWEEN 05-MAR-2024:17:00:00 AND 06-MAR-2024:15:00:00; BETWEEN 09-MAR-2024:03:00:00 AND 10-MAR-2024:19:00:00; BETWEEN 07-MAR-2024:22:00:00 AND 08-MAR-2024:04:00:00; BETWEEN 08-MAR-2024:17:00:00 AND 08-MAR-2024:22:00:00; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET									
	(2013BN82 (09)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(9)	2013BN82	TYPE=ASTEROID,A=43.9198101592666,E=0.213626456992016,I=6.598614092420417,O=193.8431790485521,W=278.7759648802606,M=9.297203605101014,EQUINOX=J2000,EPOCH=15-NOV-2015:00:00:00,EpochTimeScale=TDB					EARTH		
Comments: Description=2013BN82 Extended=NO										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(9) 2013BN82		WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.3437,0.3674	Sequence 1-5 Non-Int in 2013BN82 (09)	406 Secs (406 Secs) [==>]	[1]
	2	(9) 2013BN82		WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.6544,0.6796	Sequence 1-5 Non-Int in 2013BN82 (09)	406 Secs (406 Secs) [==>]	[1]
	3	(9) 2013BN82		WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-5 Non-Int in 2013BN82 (09)	406 Secs (406 Secs) [==>]	[1]
	4	(9) 2013BN82		WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.4760,0.5286	Sequence 1-5 Non-Int in 2013BN82 (09)	406 Secs (406 Secs) [==>]	[1]
	5	(9) 2013BN82		WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.1719,0.1837	Sequence 1-5 Non-Int in 2013BN82 (09)	406 Secs (406 Secs) [==>]	[1]



Proposal 17524 - 2004SC60 (10) - A Deep Search for Moons around Contact Binary Trans-Neptunian Objects.

Wed Sep 18 18:00:24 GMT 2024

Visit	Proposal 17524, 2004SC60 (10), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 02-JAN-2024:14:00:00 AND 17-JAN-2024:00:00:00; BETWEEN 19-JAN-2024:00:00:00 AND 20-JAN-2024:23:00:00; BETWEEN 23-JAN-2024:10:00:00 AND 03-FEB-2024:06:00:00; BETWEEN 04-FEB-2024:11:00:00 AND 05-FEB-2024:00:00:00; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET									
	(2004SC60 (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (2004SC60 (10)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(10)	2004SC60	TYPE=ASTEROID,A=43.5265894456 1426,E=0.2629003384825828,I=0.988 0201406070356 .O=358.9676585748016,W=48.994829 90528296,M=341.1489249969026,EQ UINOX=J2000,EPOCH=09-JUL- 2015:00:00:00,EpochTimeScale=TDB				EARTH			
Comments: Description=2004SC60 Extended=NO										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(10) 2004SC60	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0,0	Sequence 1-5 Non-Int in 2004SC60 (10)	450 Secs (450 Secs) [==>]	[1]	
	2	(10) 2004SC60	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.3437,0 .3674	Sequence 1-5 Non-Int in 2004SC60 (10)	450 Secs (450 Secs) [==>]	[1]	
	3	(10) 2004SC60	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.6544,0 .6796	Sequence 1-5 Non-Int in 2004SC60 (10)	450 Secs (450 Secs) [==>]	[1]	
	4	(10) 2004SC60	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.4760,0 .5286	Sequence 1-5 Non-Int in 2004SC60 (10)	450 Secs (450 Secs) [==>]	[1]	
	5	(10) 2004SC60	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F350LP		POS TARG 0.1719,0 .1837	Sequence 1-5 Non-Int in 2004SC60 (10)	450 Secs (450 Secs) [==>]	[1]	

