



17474 - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitationally Lensed Supernovae

Cycle: 31, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Justin Pierel (PI) (Contact)	Space Telescope Science Institute
Prof. Jens Hjorth (CoI) (ESA Member)	University of Copenhagen, Niels Bohr Institute
Prof. Simon Birrer (CoI)	State University of New York at Stony Brook
Dr. Saurabh W. Jha (CoI)	Rutgers the State University of New Jersey
Dr. Nikki Arendse (CoI) (ESA Member)	Stockholm University
Dr. Frederick Poidevin (CoI) (ESA Member)	Instituto de Astrofísica de Canarias
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Dr. Michael Scott Talbot (CoI)	Jet Propulsion Laboratory
Dr. Suhail Dhawan (CoI) (ESA Member)	University of Cambridge
Dr. Lise Christensen (CoI) (ESA Member)	University of Copenhagen, Niels Bohr Institute
Dr. Ismael Perez-Fournon (CoI) (ESA Member)	Instituto de Astrofísica de Canarias
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Prof. Tommaso L. Treu (CoI)	University of California - Los Angeles
Conor Larison (CoI)	Space Telescope Science Institute
Prof. Sherry H. Suyu (CoI) (ESA Member)	Technical University of Munich
Dr. Leonidas A Moustakas (CoI)	Jet Propulsion Laboratory
Dr. Louis-Gregory Strolger (CoI)	Space Telescope Science Institute
Dr. Armin Rest (CoI)	Space Telescope Science Institute
Dr. Ori Dosovitz Fox (CoI)	Space Telescope Science Institute
Dr. Suvi Gezari (CoI)	University of Maryland

Proposal 17474 (STScI Edit Number: 1, Created: Wednesday, December 3, 2025, 5:00:49PM Eastern Standard Time) - Overview

<i>Name</i>	<i>Institution</i>
Prof. Sukanya Chakrabarti (CoI)	University of Alabama in Huntsville
Prof. Ryan Foley (CoI)	University of California - Santa Cruz
Dr. Sebastian Gomez (CoI)	University of Texas at Austin
Dr. Matthew Ryan Siebert (CoI)	Space Telescope Science Institute
Dr. Melissa Shahbandeh (CoI)	Space Telescope Science Institute
Dr. Qinan Wang (CoI)	Massachusetts Institute of Technology
Dr. Yossef Zenati (CoI)	The Johns Hopkins University
Mike Engesser (CoI)	Space Telescope Science Institute
Dr. Christa Gall (CoI) (ESA Member)	University of Copenhagen, Niels Bohr Institute
Mr. Christopher Storfer (CoI)	University of Hawaii
Dr. Stefan Schuldt (CoI) (ESA Member)	Universita di Milano
Prof. Xiaosheng Huang (CoI)	University of San Francisco
Dr. Tanja Petrushevska (CoI)	University of Nova Gorica
Dr. Patrick Kelly (CoI)	University of Minnesota - Twin Cities
Dr. Wenlei Chen (CoI)	Oklahoma State University Main Campus

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	(4) ABELL-370-IRTARGET (7) ABELL-370-UVTARGET	WFC3/IR WFC3/UVIS	3	03-Dec-2025 17:00:25.0	yes
12	(4) ABELL-370-IRTARGET (7) ABELL-370-UVTARGET	WFC3/IR WFC3/UVIS	3	03-Dec-2025 17:00:27.0	yes
13	(4) ABELL-370-IRTARGET (7) ABELL-370-UVTARGET	WFC3/IR WFC3/UVIS	3	03-Dec-2025 17:00:29.0	yes
14	(4) ABELL-370-IRTARGET	WFC3/IR	2	03-Dec-2025 17:00:31.0	yes
21	(9) MACS-J0308-SN-IRPOS (10) MACS-J0308-SN-UVISPOS	WFC3/IR WFC3/UVIS	2	03-Dec-2025 17:00:32.0	yes
22	(9) MACS-J0308-SN-IRPOS (10) MACS-J0308-SN-UVISPOS	WFC3/IR WFC3/UVIS	3	03-Dec-2025 17:00:33.0	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>
23	(9) MACS-J0308-SN-IRPOS (10) MACS-J0308-SN-UVISPOS	WFC3/IR WFC3/UVIS	4	03-Dec-2025 17:00:35.0	yes
24	(9) MACS-J0308-SN-IRPOS (10) MACS-J0308-SN-UVISPOS	WFC3/IR WFC3/UVIS	4	03-Dec-2025 17:00:37.0	yes
25	(9) MACS-J0308-SN-IRPOS (10) MACS-J0308-SN-UVISPOS	WFC3/IR WFC3/UVIS	4	03-Dec-2025 17:00:39.0	yes
31	(11) MACS-J0417-SN	WFC3/IR WFC3/UVIS	3	03-Dec-2025 17:00:41.0	yes
32	(11) MACS-J0417-SN	WFC3/IR WFC3/UVIS	3	03-Dec-2025 17:00:42.0	yes
33	(11) MACS-J0417-SN	WFC3/IR WFC3/UVIS	3	03-Dec-2025 17:00:43.0	yes
34	(11) MACS-J0417-SN	WFC3/IR WFC3/UVIS	3	03-Dec-2025 17:00:44.0	yes
35	(11) MACS-J0417-SN	WFC3/IR WFC3/UVIS	3	03-Dec-2025 17:00:46.0	yes
36	(11) MACS-J0417-SN	WFC3/IR WFC3/UVIS	3	03-Dec-2025 17:00:47.0	yes
37	(11) MACS-J0417-SN	WFC3/IR	2	03-Dec-2025 17:00:49.0	yes

48 Total Orbits Used

ABSTRACT

There is a 5-sigma tension between local measurements of the Hubble constant (H_0) from Type Ia supernovae (SNe Ia), and the value inferred using late universe constraints from the cosmic microwave background (CMB). Independent measurements of H_0 can help resolve the tension by agreeing with one method or the other, but a $\sim 2.7\%$ uncertainty is needed to distinguish between the values. The first H_0 measurement from observing the multiple images of a gravitationally lensed SN (gLSN) was recently made using SN Refsdal (6% precision), paving the way for gLSNe to realize their promise as precise and single-step cosmological probes. This program will pursue complete follow-up campaigns for up to three gLSNe using target of opportunity (ToO) observations over Cycles 31 & 32, which combined with the current sample (two gLSNe) will enable a $\sim 2.7\%$ measurement of

H0. G1SNe also have unique leverage on dark energy properties, such that this program alone will increase our best dark energy constraints by 40%. The total request for this proposal is 45 HST imaging orbits (15 per g1SN) and 8.1 JWST NIRSpec hours (2.7 per g1SN, with all overheads), which includes all observations necessary to deliver our cosmological measurements.

OBSERVING DESCRIPTION

This program has three ToO activations, with joint JWST observations. A preliminary JWST APT is being submitted alongside the HST phase II. Due to the variable nature of the targets for this program, we cannot create an exhaustive set of observations. However we have created three plausible trigger visits, and some combination of those visits will be used to fill out the remaining orbits across the three triggers. As each target is identified, we will create a tailored follow-up campaign for that trigger.

Reduced Gyro Operations comments: As this is a ToO program, operating on reduced gyros would have a significant impact in terms of both the loss in field of regard, and the slower response time of the observatory. The program can still be successful in this scenario, but we may not be able to trigger on every possible target, even those that will be quite attractive. These observations are also intended to be scheduled in conjunction with JWST, which is more difficult in a reduced gyro operations scenario.

Proposal 17474 - Abell370-SN (11) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitationally Le...

Wed Dec 03 22:00:49 GMT 2025

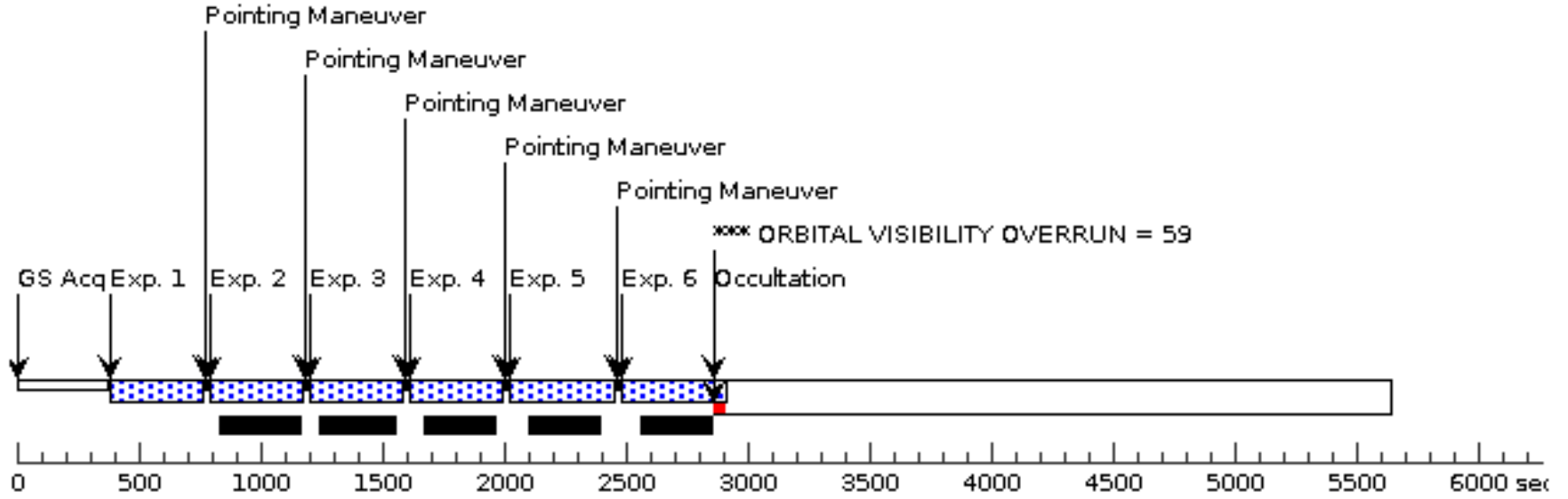
Visit	Proposal 17474, Abell370-SN (11), completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 100%; TOO RESPONSE TIME 15.0D <i>Comments: 3 short WFC3-IR F110W and 3 short WFC3-IR F160W exposures of high-z g1SN, x2, then one orbit of F814W.</i>					
	Diagnosics (Abell370-SN (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Abell370-SN (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Abell370-SN (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(2)	Pattern Type=WFC3-UVIS-DITHER- Coordinate Frame=POS-TARG LINE-3PT Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.135 Line Spacing=		(13)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	ABELL-370-IRTARGET	RA: 02 39 53.6321 (39.9734671d) Dec: -01 34 15.37 (-1.57094d) Equinox: J2000		V=26	Reference Frame: ICRS
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA] Extended=NO					
	(7)	ABELL-370-UVTARGET	RA: 02 39 52.6321 (39.9693004d) Dec: -01 34 28.77 (-1.57466d) Equinox: J2000		V=26	Reference Frame: ICRS
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA] Extended=NO					

Proposal 17474 - Abell370-SN (11) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitationally Le...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	F160W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0,0 Sequence 1-6 Non-Int in Abell370-SN (11)	349.232932 Secs (349.233 Secs) [==>]	[1]
	2	F160W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.451,0.403 Sequence 1-6 Non-Int in Abell370-SN (11)	349.232932 Secs (349.233 Secs) [==>]	[1]
	3	F110W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.474,0.424 Sequence 1-6 Non-Int in Abell370-SN (11)	349.232932 Secs (349.233 Secs) [==>]	[1]
	4	F110W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.925,0.827 Sequence 1-6 Non-Int in Abell370-SN (11)	349.232932 Secs (349.233 Secs) [==>]	[1]
	5	F110W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=13; SAMP-SEQ=STEP5 0	POS TARG 1.376,1.230 Sequence 1-6 Non-Int in Abell370-SN (11)	399.233383 Secs (399.233 Secs) [==>]	[1]
	6	F160W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=13; SAMP-SEQ=STEP5 0	POS TARG 0.902,0.806 Sequence 1-6 Non-Int in Abell370-SN (11)	399.233383 Secs (399.233 Secs) [==>]	[1]
	7	F160W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0,0 Sequence 7-12 Non-Int in Abell370-SN (11)	349.232932 Secs (349.233 Secs) [==>]	[2]
	8	F160W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.451,0.403 Sequence 7-12 Non-Int in Abell370-SN (11)	349.232932 Secs (349.233 Secs) [==>]	[2]
	9	F110W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG .474,.424 Sequence 7-12 Non-Int in Abell370-SN (11)	349.232932 Secs (349.233 Secs) [==>]	[2]
	10	F110W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG .925,.827 Sequence 7-12 Non-Int in Abell370-SN (11)	349.232932 Secs (349.233 Secs) [==>]	[2]
	11	F110W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=13; SAMP-SEQ=STEP5 0	POS TARG 1.376,1.230 Sequence 7-12 Non-Int in Abell370-SN (11)	399.233383 Secs (399.233 Secs) [==>]	[2]
	12	F160W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=13; SAMP-SEQ=STEP5 0	POS TARG 0.902,0.806 Sequence 7-12 Non-Int in Abell370-SN (11)	399.233383 Secs (399.233 Secs) [==>]	[2]
	13		(7) ABELL-370-UV TARGET	WFC3/UVIS, ACCUM, UVIS2	F814W			Pattern 2, Exps 13-13 in Abell370-SN (11) (2)	756 Secs (2268 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]

Orbit 1

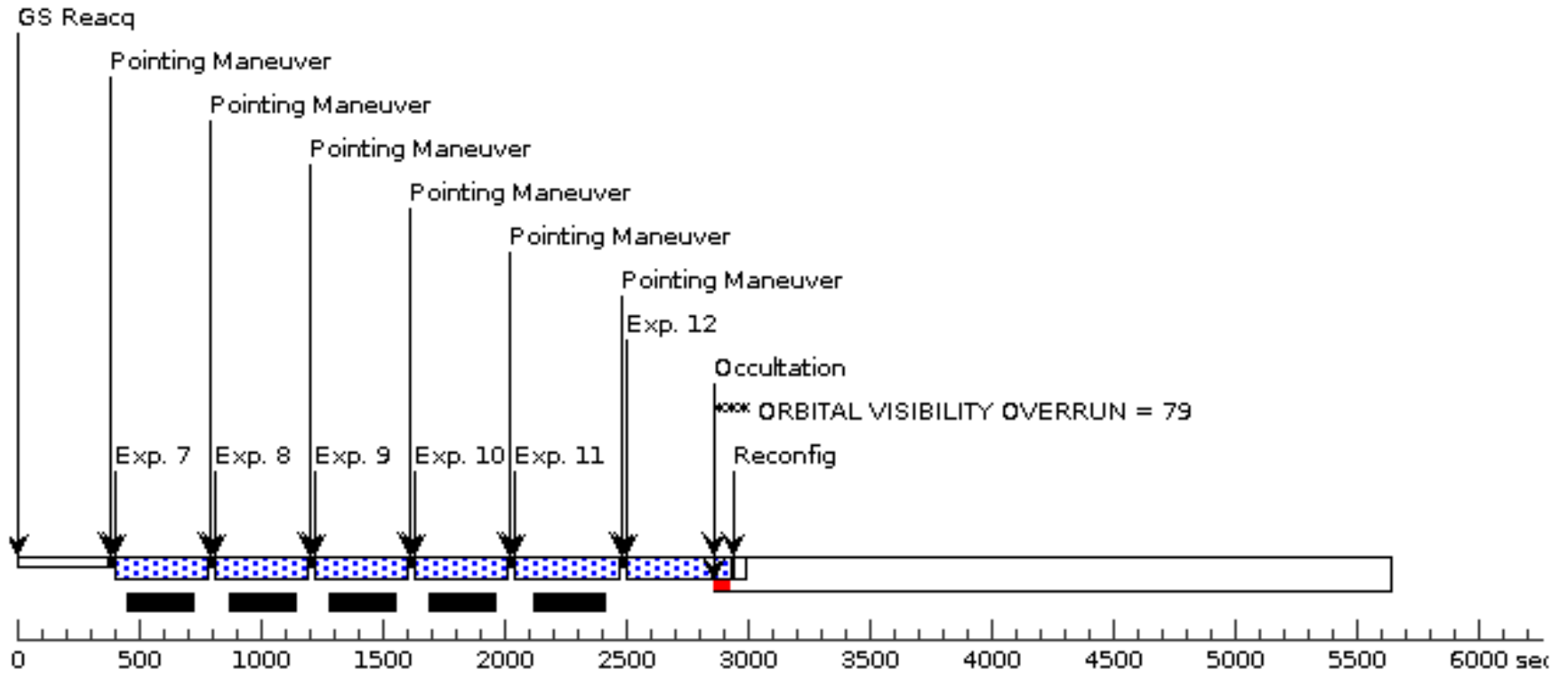
Server Version: 20250929

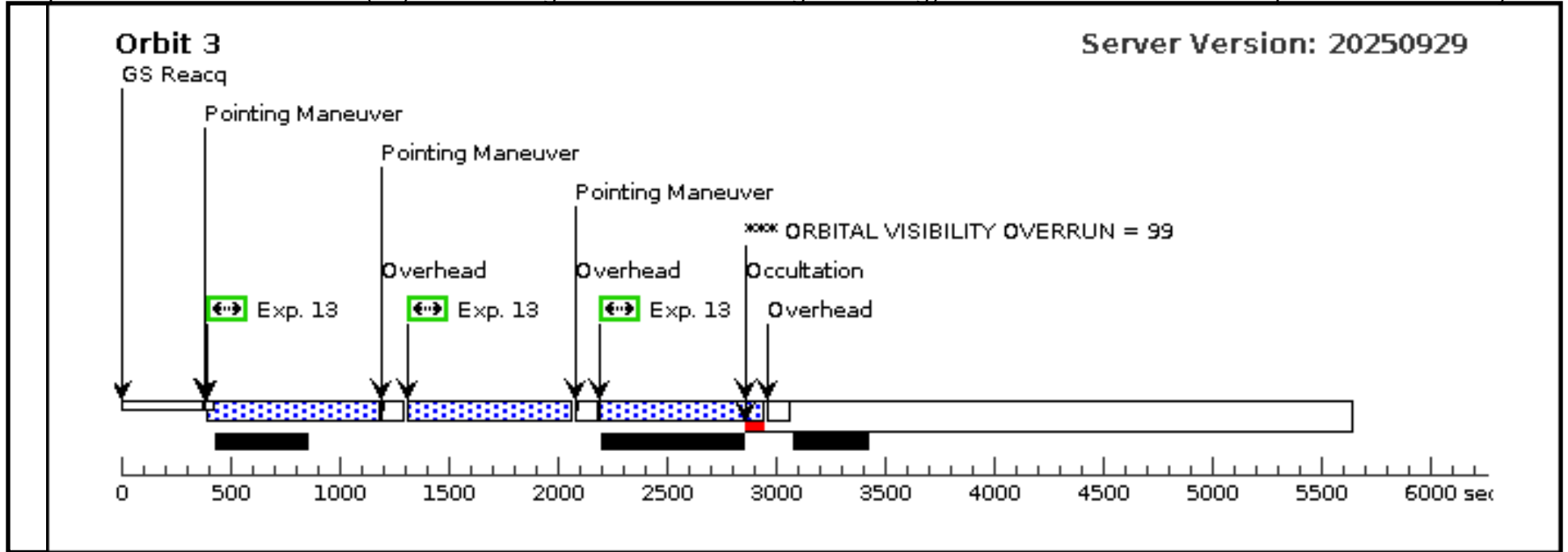


Orbit Structure

Orbit 2

Server Version: 20250929





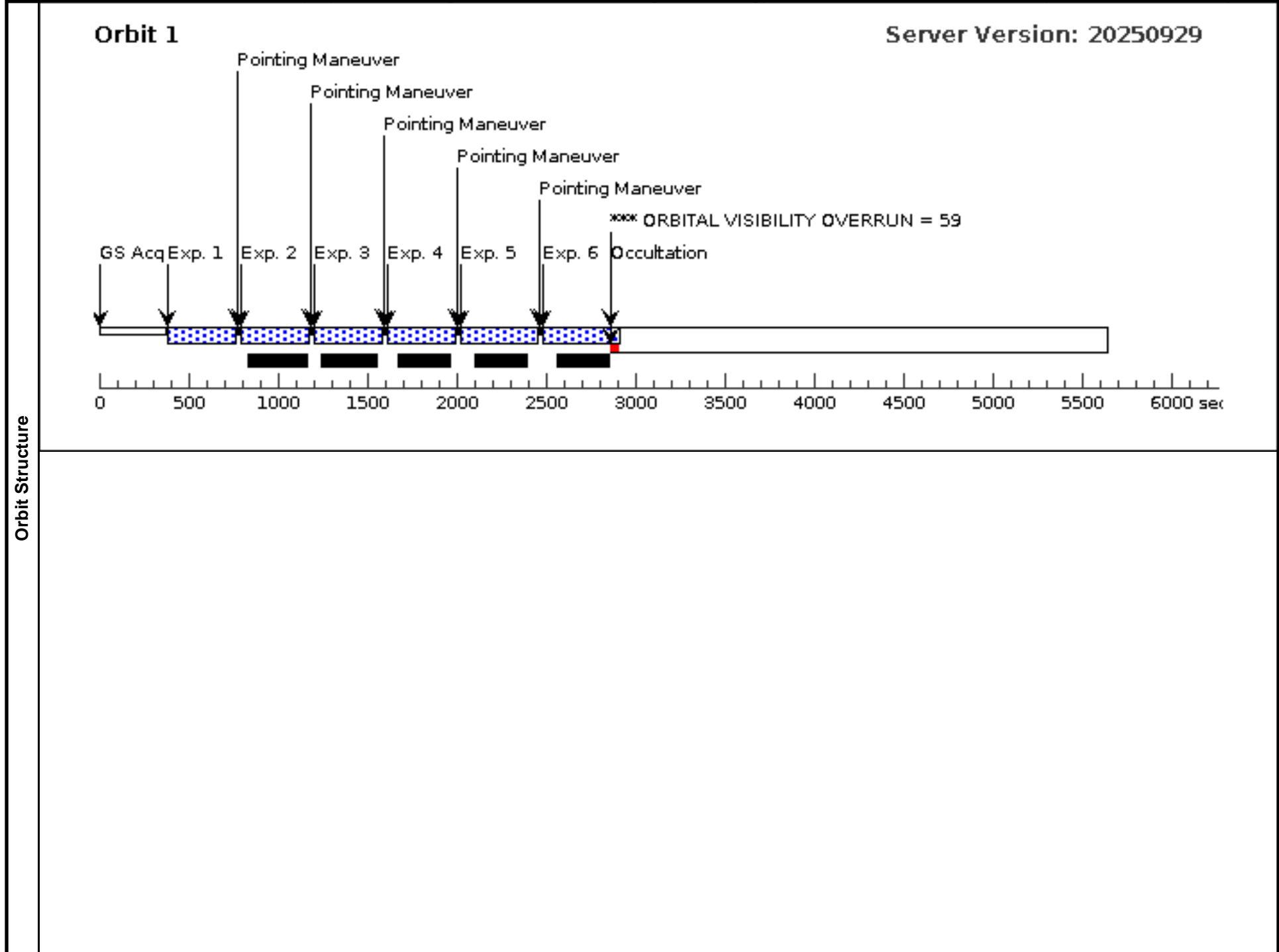
Proposal 17474 - Abell370-SN (12) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitationally Le...

Wed Dec 03 22:00:49 GMT 2025

Visit	Proposal 17474, Abell370-SN (12), completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 100%; AFTER 11 BY 8 D TO 16 D; TOO RESPONSE TIME 15.0D <i>Comments: 3 short WFC3-IR F110W and 3 short WFC3-IR F160W exposures of high-z g1SN, x2, then one orbit of F814W.</i>					
	Diagnosics (Abell370-SN (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Abell370-SN (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Abell370-SN (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(2)	Pattern Type=WFC3-UVIS-DITHER- Coordinate Frame=POS-TARG LINE-3PT Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.135 Line Spacing=		(13)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	ABELL-370-IRTARGET	RA: 02 39 53.6321 (39.9734671d) Dec: -01 34 15.37 (-1.57094d) Equinox: J2000		V=26	Reference Frame: ICRS
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA] Extended=NO					
	(7)	ABELL-370-UVTARGET	RA: 02 39 52.6321 (39.9693004d) Dec: -01 34 28.77 (-1.57466d) Equinox: J2000		V=26	Reference Frame: ICRS
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA] Extended=NO					

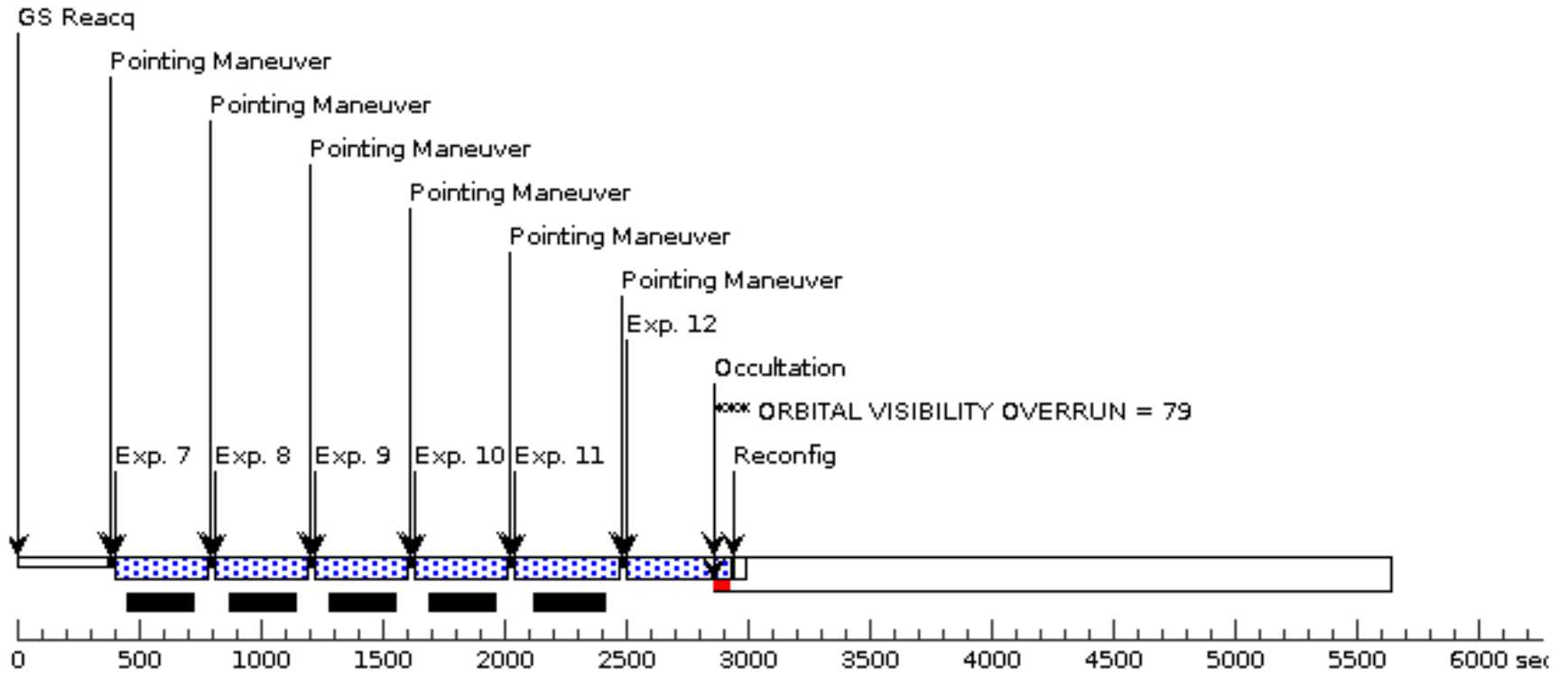
Proposal 17474 - Abell370-SN (12) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitationally Le...

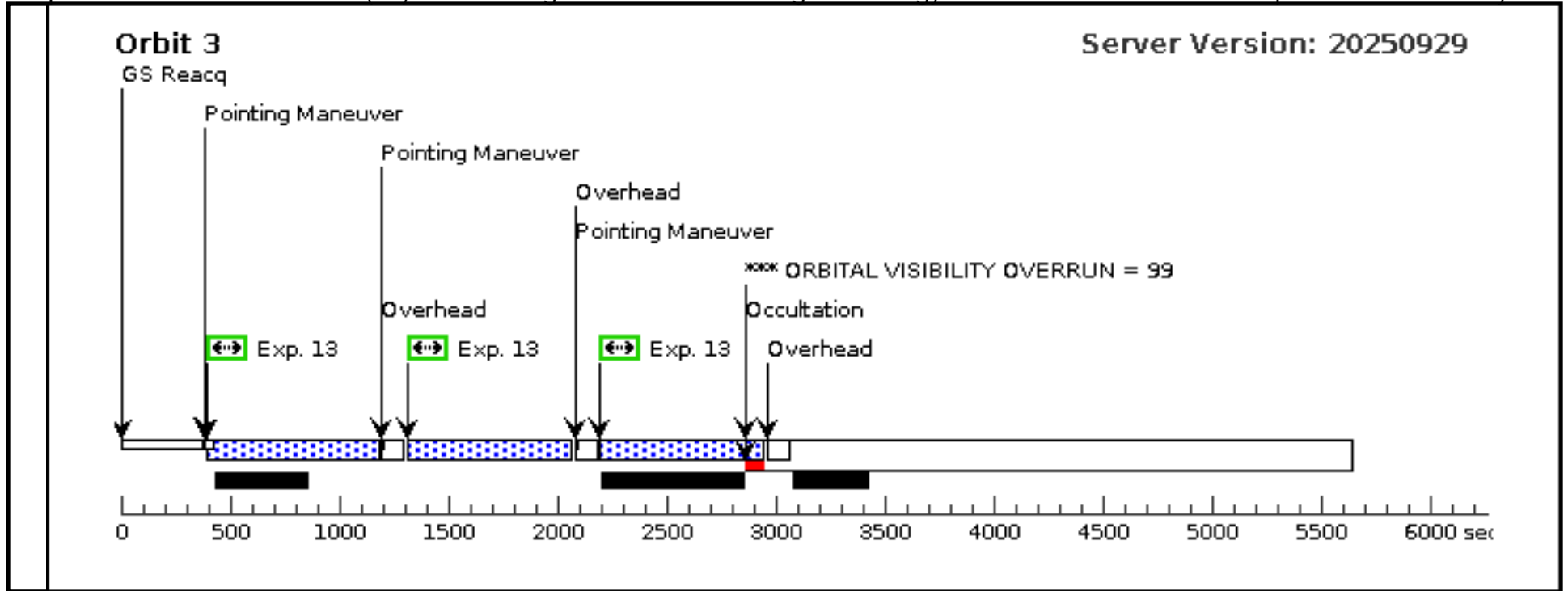
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	F160W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0,0 Sequence 1-6 Non-Int in Abell370-SN (12)	349.232932 Secs (349.233 Secs) [==>]	[1]
	2	F160W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.451,0.403 Sequence 1-6 Non-Int in Abell370-SN (12)	349.232932 Secs (349.233 Secs) [==>]	[1]
	3	F110W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.474,0.424 Sequence 1-6 Non-Int in Abell370-SN (12)	349.232932 Secs (349.233 Secs) [==>]	[1]
	4	F110W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.925,0.827 Sequence 1-6 Non-Int in Abell370-SN (12)	349.232932 Secs (349.233 Secs) [==>]	[1]
	5	F110W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=13; SAMP-SEQ=STEP5 0	POS TARG 1.376,1.230 Sequence 1-6 Non-Int in Abell370-SN (12)	399.233383 Secs (399.233 Secs) [==>]	[1]
	6	F160W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=13; SAMP-SEQ=STEP5 0	POS TARG 0.902,0.806 Sequence 1-6 Non-Int in Abell370-SN (12)	399.233383 Secs (399.233 Secs) [==>]	[1]
	7	F160W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0,0 Sequence 7-12 Non-Int in Abell370-SN (12)	349.232932 Secs (349.233 Secs) [==>]	[2]
	8	F160W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.451,0.403 Sequence 7-12 Non-Int in Abell370-SN (12)	349.232932 Secs (349.233 Secs) [==>]	[2]
	9	F110W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG .474,.424 Sequence 7-12 Non-Int in Abell370-SN (12)	349.232932 Secs (349.233 Secs) [==>]	[2]
	10	F110W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG .925,.827 Sequence 7-12 Non-Int in Abell370-SN (12)	349.232932 Secs (349.233 Secs) [==>]	[2]
	11	F110W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=13; SAMP-SEQ=STEP5 0	POS TARG 1.376,1.230 Sequence 7-12 Non-Int in Abell370-SN (12)	399.233383 Secs (399.233 Secs) [==>]	[2]
	12	F160W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=13; SAMP-SEQ=STEP5 0	POS TARG 0.902,0.806 Sequence 7-12 Non-Int in Abell370-SN (12)	399.233383 Secs (399.233 Secs) [==>]	[2]
	13		(7) ABELL-370-UV TARGET	WFC3/UVIS, ACCUM, UVIS2	F814W			Pattern 2, Exps 13-13 in Abell370-SN (12) (2)	756 Secs (2268 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]



Orbit 2

Server Version: 20250929





Proposal 17474 - Abell370-SN (13) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitationally Le...

Wed Dec 03 22:00:49 GMT 2025

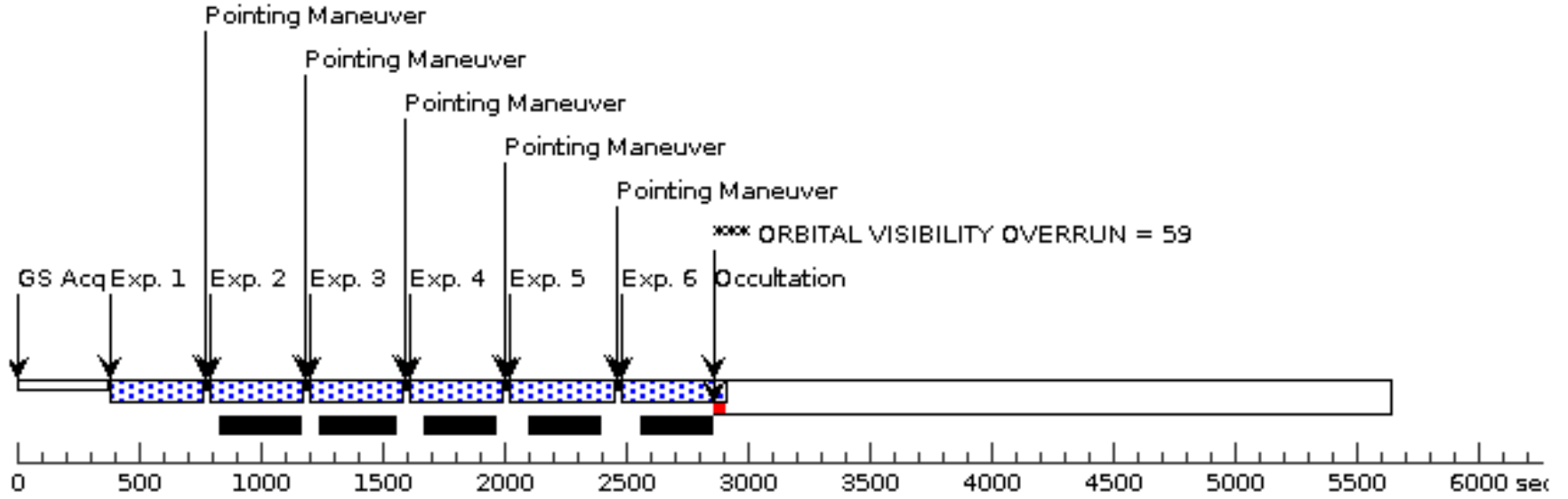
Visit	Proposal 17474, Abell370-SN (13), completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 100%; AFTER 12 BY 8 D TO 16 D; TOO RESPONSE TIME 15.0D <i>Comments: 3 short WFC3-IR F110W and 3 short WFC3-IR F160W exposures of high-z g1SN, x2, then one orbit of F814W.</i>					
	Diagnosics (Abell370-SN (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Abell370-SN (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Abell370-SN (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(2)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(13)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	ABELL-370-IRTARGET	RA: 02 39 53.6321 (39.9734671d) Dec: -01 34 15.37 (-1.57094d) Equinox: J2000		V=26	Reference Frame: ICRS
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA] Extended=NO					
	(7)	ABELL-370-UVTARGET	RA: 02 39 52.6321 (39.9693004d) Dec: -01 34 28.77 (-1.57466d) Equinox: J2000		V=26	Reference Frame: ICRS
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA] Extended=NO					

Proposal 17474 - Abell370-SN (13) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitationally Le...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F160W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0,0	Sequence 1-6 Non-Int in Abell370-SN (13)	349.232932 Secs (349.233 Secs) [==>]	[1]
	2	F160W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.451,0. 403	Sequence 1-6 Non-Int in Abell370-SN (13)	349.232932 Secs (349.233 Secs) [==>]	[1]
	3	F110W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.474,0. 424	Sequence 1-6 Non-Int in Abell370-SN (13)	349.232932 Secs (349.233 Secs) [==>]	[1]
	4	F110W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.925,0. 827	Sequence 1-6 Non-Int in Abell370-SN (13)	349.232932 Secs (349.233 Secs) [==>]	[1]
	5	F110W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=13; SAMP-SEQ=STEP5 0	POS TARG 1.376,1. 230	Sequence 1-6 Non-Int in Abell370-SN (13)	399.233383 Secs (399.233 Secs) [==>]	[1]
	6	F160W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=13; SAMP-SEQ=STEP5 0	POS TARG 0.902,0. 806	Sequence 1-6 Non-Int in Abell370-SN (13)	399.233383 Secs (399.233 Secs) [==>]	[1]
	7	F160W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0,0	Sequence 7-12 Non-Int in Abell370-SN (13)	349.232932 Secs (349.233 Secs) [==>]	[2]
	8	F160W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.451,0. 403	Sequence 7-12 Non-Int in Abell370-SN (13)	349.232932 Secs (349.233 Secs) [==>]	[2]
	9	F110W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG .474,.42 4	Sequence 7-12 Non-Int in Abell370-SN (13)	349.232932 Secs (349.233 Secs) [==>]	[2]
	10	F110W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG .925,.82 7	Sequence 7-12 Non-Int in Abell370-SN (13)	349.232932 Secs (349.233 Secs) [==>]	[2]
	11	F110W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=13; SAMP-SEQ=STEP5 0	POS TARG 1.376,1. 230	Sequence 7-12 Non-Int in Abell370-SN (13)	399.233383 Secs (399.233 Secs) [==>]	[2]
	12	F160W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=13; SAMP-SEQ=STEP5 0	POS TARG 0.902,0. 806	Sequence 7-12 Non-Int in Abell370-SN (13)	399.233383 Secs (399.233 Secs) [==>]	[2]
13		(7) ABELL-370-UV TARGET	WFC3/UVIS, ACCUM, UVIS2	F814W			Pattern 2, Exps 13-1 3 in Abell370-SN (13) (2)	756 Secs (2268 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[3]	

Orbit 1

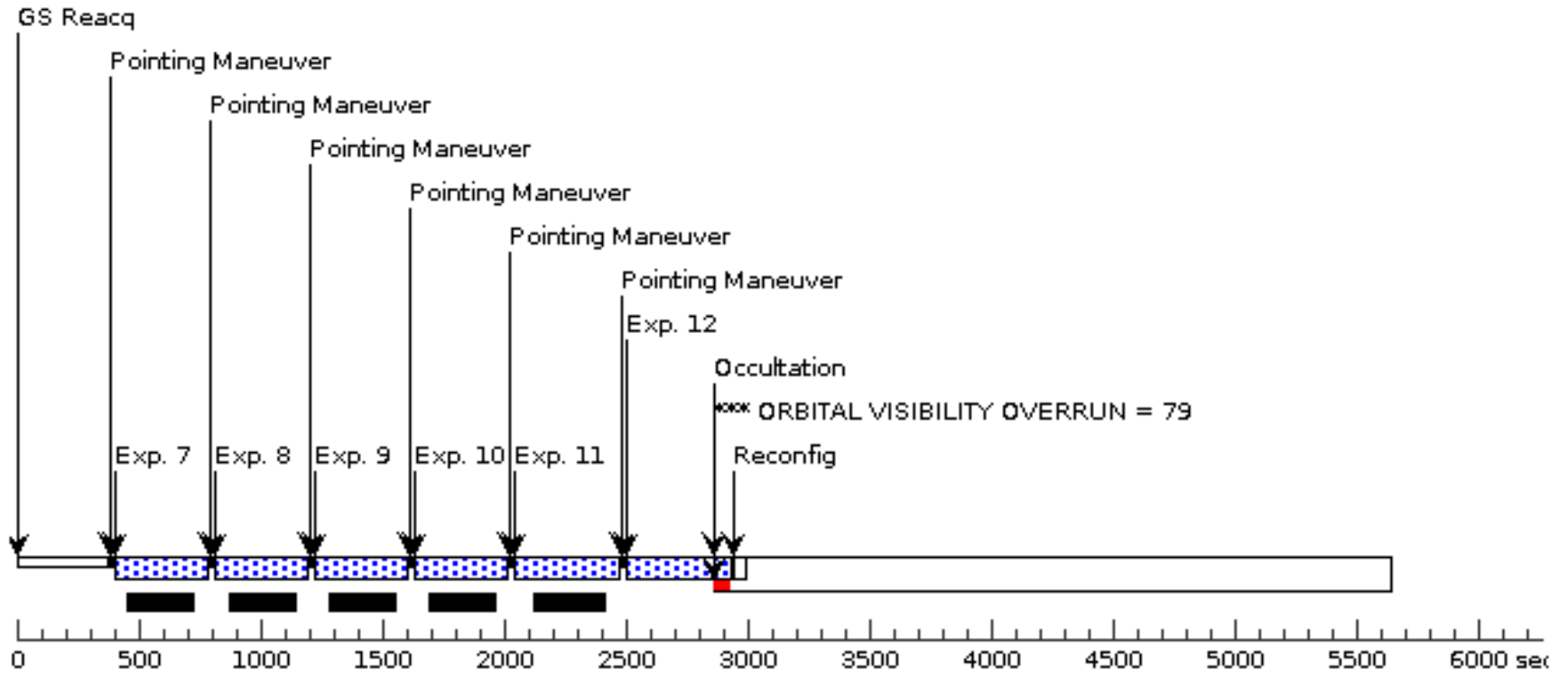
Server Version: 20250929

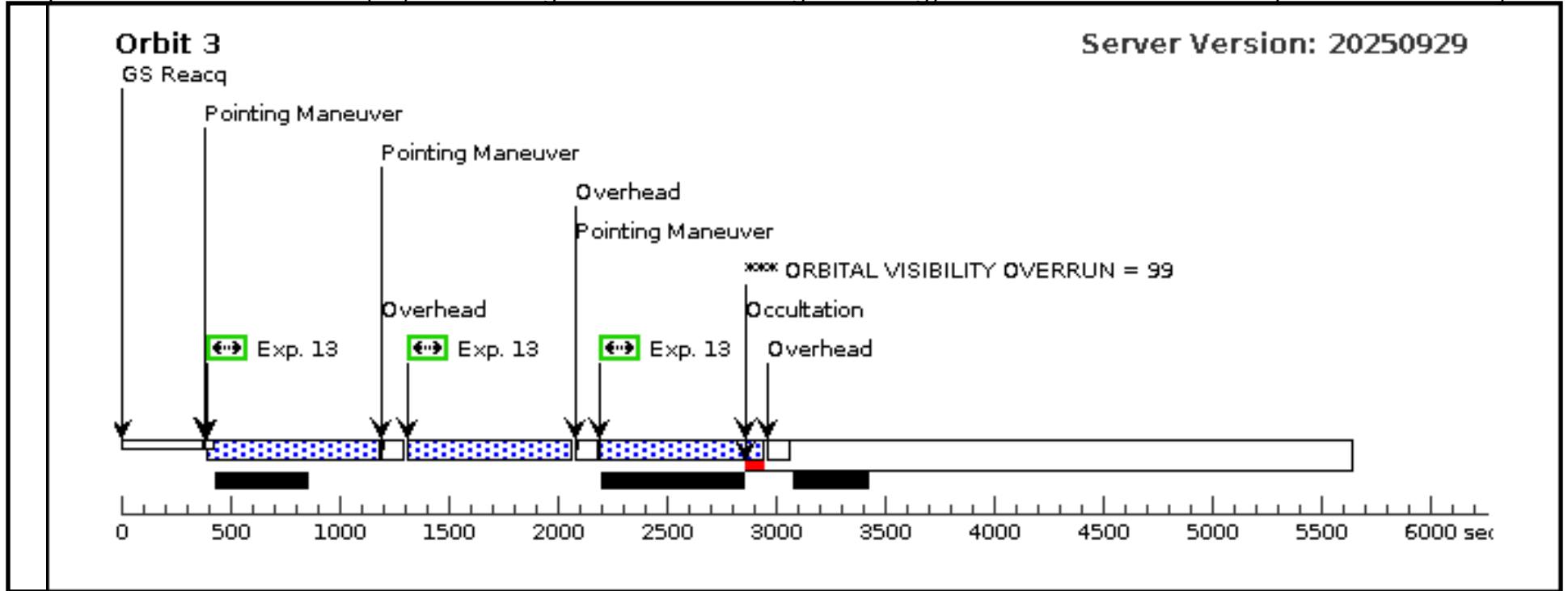


Orbit Structure

Orbit 2

Server Version: 20250929





Proposal 17474 - Abell370-SN (14) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitationally Le...

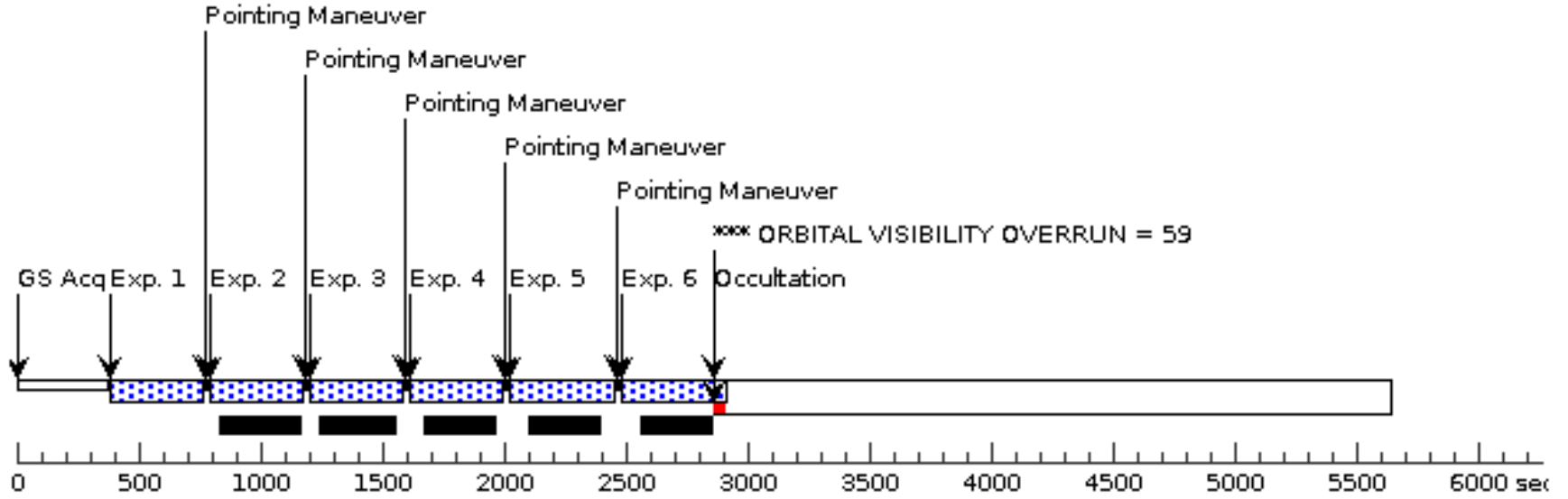
Visit	Proposal 17474, Abell370-SN (14), completed Wed Dec 03 22:00:49 GMT 2025 Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; AFTER 13 BY 10 D TO 30 D; TOO RESPONSE TIME 15.0D <i>Comments: 3 short WFC3-IR F110W and 3 short WFC3-IR F160W exposures of high-z gISN, x2, then one orbit of F814W.</i>																
	Diagnosics (Abell370-SN (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Abell370-SN (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>ABELL-370-IRTARGET</td> <td>RA: 02 39 53.6321 (39.9734671d) Dec: -01 34 15.37 (-1.57094d) Equinox: J2000</td> <td></td> <td>V=26</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(4)	ABELL-370-IRTARGET	RA: 02 39 53.6321 (39.9734671d) Dec: -01 34 15.37 (-1.57094d) Equinox: J2000		V=26	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(4)	ABELL-370-IRTARGET	RA: 02 39 53.6321 (39.9734671d) Dec: -01 34 15.37 (-1.57094d) Equinox: J2000		V=26	Reference Frame: ICRS												
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA] Extended=NO																	

Proposal 17474 - Abell370-SN (14) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitationally Le...

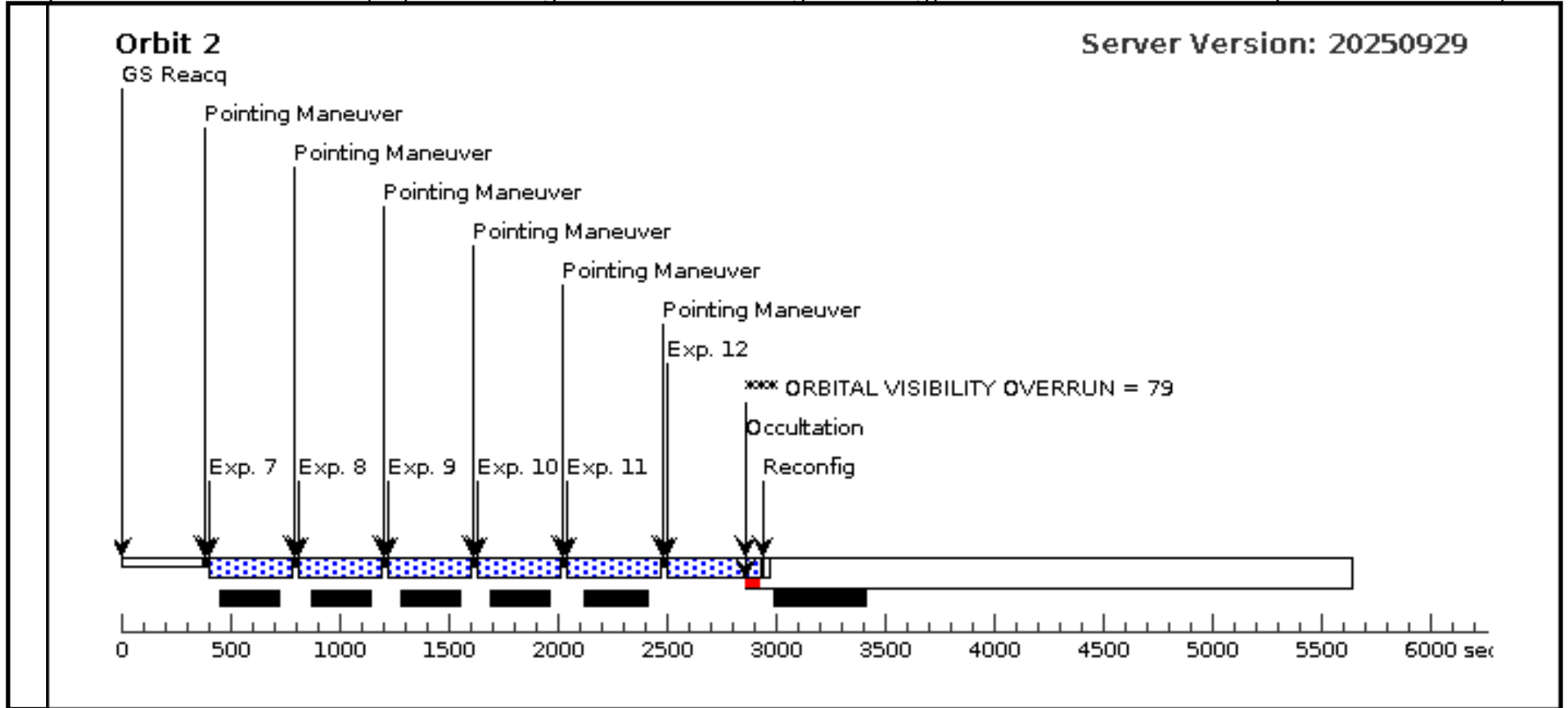
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F160W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0,0	Sequence 1-6 Non-Int in Abell370-SN (14)	349.232932 Secs (349.233 Secs) [==>]	[1]
	2	F160W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.451,0. 403	Sequence 1-6 Non-Int in Abell370-SN (14)	349.232932 Secs (349.233 Secs) [==>]	[1]
	3	F110W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.474,0. 424	Sequence 1-6 Non-Int in Abell370-SN (14)	349.232932 Secs (349.233 Secs) [==>]	[1]
	4	F110W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.925,0. 827	Sequence 1-6 Non-Int in Abell370-SN (14)	349.232932 Secs (349.233 Secs) [==>]	[1]
	5	F110W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=13; SAMP-SEQ=STEP5 0	POS TARG 1.376,1. 230	Sequence 1-6 Non-Int in Abell370-SN (14)	399.233383 Secs (399.233 Secs) [==>]	[1]
	6	F160W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=13; SAMP-SEQ=STEP5 0	POS TARG 0.902,0. 806	Sequence 1-6 Non-Int in Abell370-SN (14)	399.233383 Secs (399.233 Secs) [==>]	[1]
	7	F160W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0,0	Sequence 7-12 Non-Int in Abell370-SN (14)	349.232932 Secs (349.233 Secs) [==>]	[2]
	8	F160W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.451,0. 403	Sequence 7-12 Non-Int in Abell370-SN (14)	349.232932 Secs (349.233 Secs) [==>]	[2]
	9	F110W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG .474,.42 4	Sequence 7-12 Non-Int in Abell370-SN (14)	349.232932 Secs (349.233 Secs) [==>]	[2]
	10	F110W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG .925,.82 7	Sequence 7-12 Non-Int in Abell370-SN (14)	349.232932 Secs (349.233 Secs) [==>]	[2]
	11	F110W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=13; SAMP-SEQ=STEP5 0	POS TARG 1.376,1. 230	Sequence 7-12 Non-Int in Abell370-SN (14)	399.233383 Secs (399.233 Secs) [==>]	[2]
12	F160W	(4) ABELL-370-IRT ARGET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=13; SAMP-SEQ=STEP5 0	POS TARG 0.902,0. 806	Sequence 7-12 Non-Int in Abell370-SN (14)	399.233383 Secs (399.233 Secs) [==>]	[2]	

Orbit 1

Server Version: 20250929



Orbit Structure



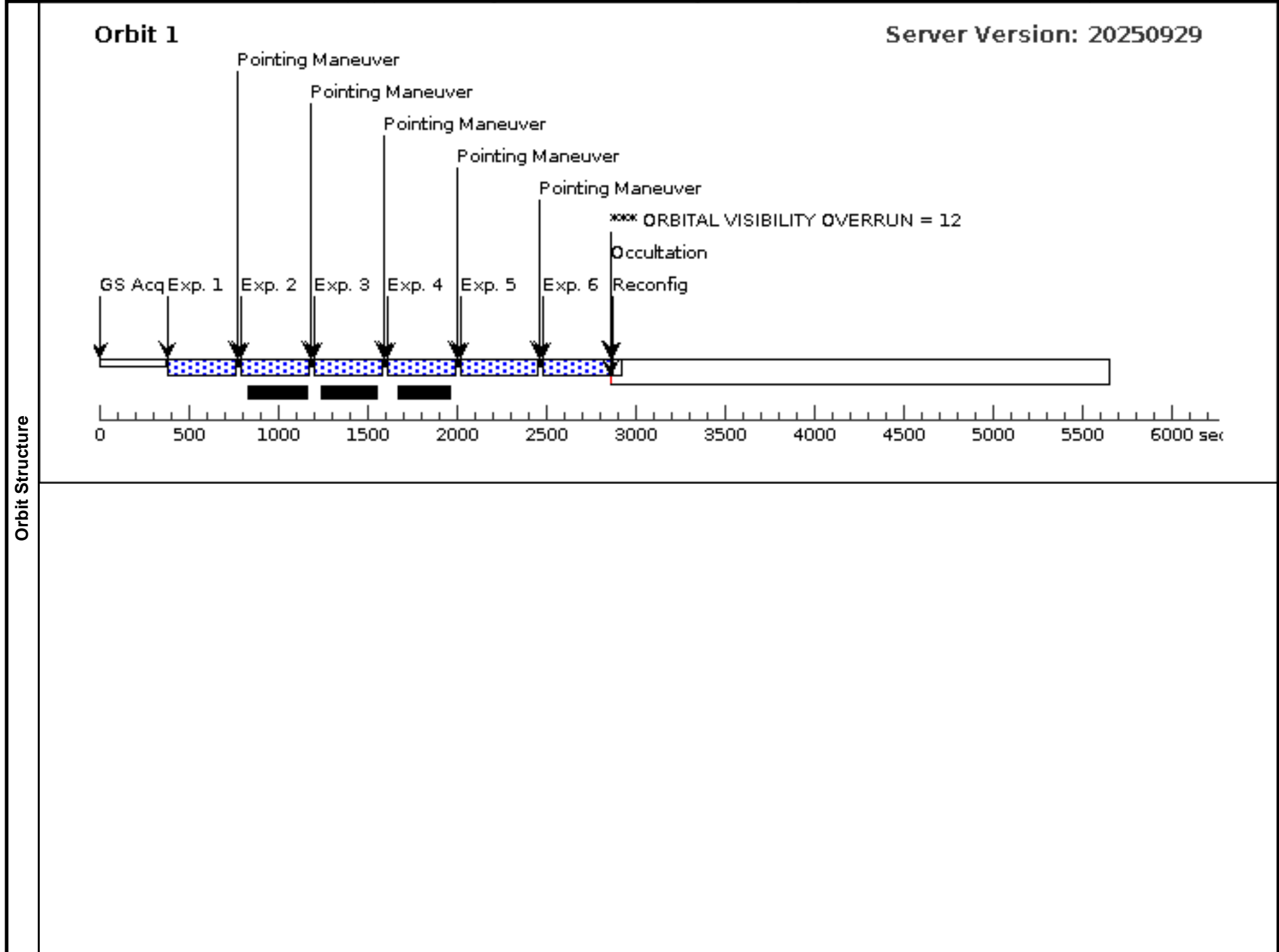
Proposal 17474 - MACS-J0308-SN (21) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitational...

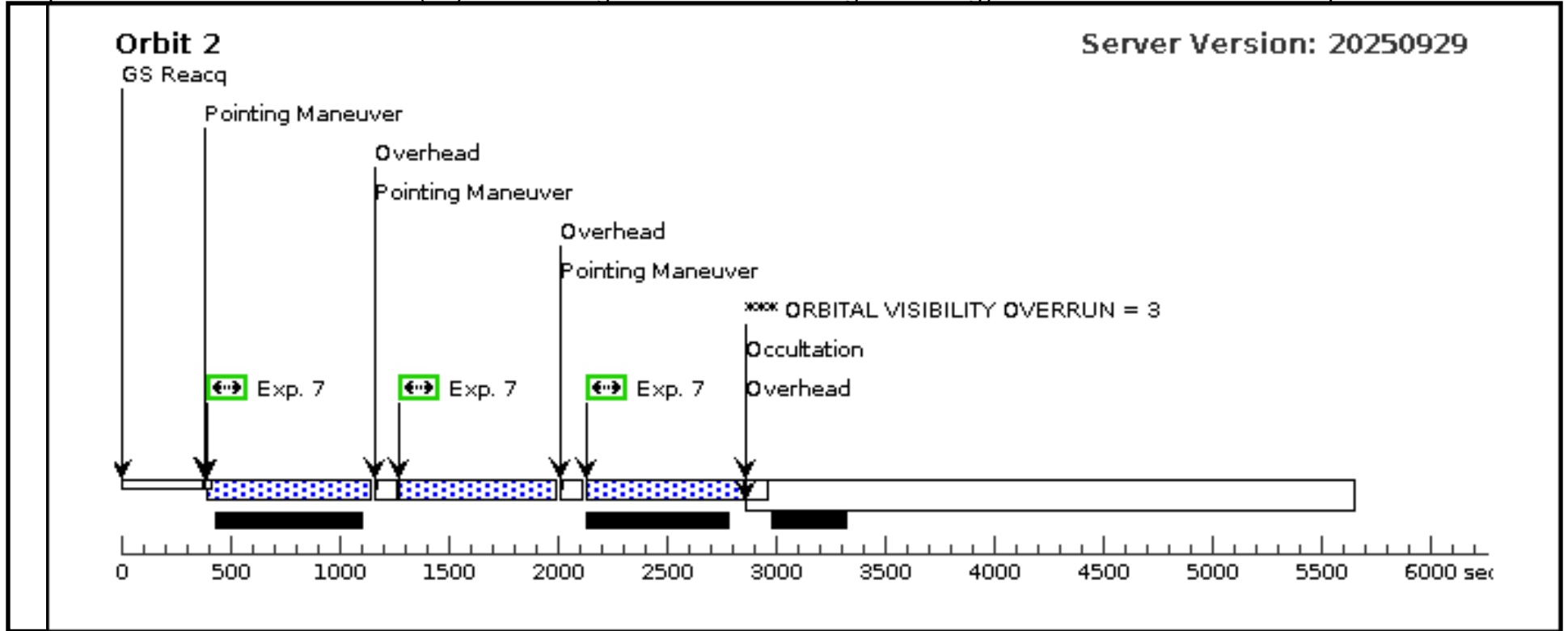
Wed Dec 03 22:00:49 GMT 2025

Visit	Proposal 17474, MACS-J0308-SN (21), completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 100%; ORIENT 200D TO 265 D; BEFORE 25-SEP-2025:00:00:00; TOO RESPONSE TIME 21.0D <i>Comments: 3 short WFC3-IR F110W and 3 short WFC3-IR F160W exposures of high-z gISN.</i>					
	Diagnosics (MACS-J0308-SN (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (MACS-J0308-SN (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(2)	Pattern Type=WFC3-UVIS-DITHER- Coordinate Frame=POS-TARG LINE-3PT Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.135 Line Spacing=		(7)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	MACS-J0308-SN-IRPOS	RA: 03 08 54.9183 (47.2288262d) Dec: +26 45 58.64 (26.76629d) Equinox: J2000		V=27+/-0.3	Reference Frame: ICRS
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA] Extended=NO					
	(10)	MACS-J0308-SN-UVISPOS	RA: 03 08 54.9183 (47.2288262d) Dec: +26 45 58.64 (26.76629d) Equinox: J2000		V=27+/-0.3	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA] Extended=NO						

Proposal 17474 - MACS-J0308-SN (21) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitational...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F160W	(9) MACS-J0308-SN -IRPOS	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0,0	Sequence 1-6 Non-Int in MACS-J0308-SN (21)	349.232932 Secs (349.233 Secs) [==>]	[1]
	2	F160W	(9) MACS-J0308-SN -IRPOS	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.451,0.403	Sequence 1-6 Non-Int in MACS-J0308-SN (21)	349.232932 Secs (349.233 Secs) [==>]	[1]
	3	F110W	(9) MACS-J0308-SN -IRPOS	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG .474,.424	Sequence 1-6 Non-Int in MACS-J0308-SN (21)	349.232932 Secs (349.233 Secs) [==>]	[1]
	4	F110W	(9) MACS-J0308-SN -IRPOS	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG .925,.827	Sequence 1-6 Non-Int in MACS-J0308-SN (21)	349.232932 Secs (349.233 Secs) [==>]	[1]
	5	F110W	(9) MACS-J0308-SN -IRPOS	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=13; SAMP-SEQ=STEP5 0	POS TARG 1.376,1.230	Sequence 1-6 Non-Int in MACS-J0308-SN (21)	399.233383 Secs (399.233 Secs) [==>]	[1]
	6	F160W	(9) MACS-J0308-SN -IRPOS	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.902,0.806	Sequence 1-6 Non-Int in MACS-J0308-SN (21)	349.232932 Secs (349.233 Secs) [==>]	[1]
	7		(10) MACS-J0308-SN -UVISPOS	WFC3/UVIS, ACCUM, UVIS2	F814W			Pattern 2, Exps 7-7 in MACS-J0308-SN (21) (2)	725 Secs (2175 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[2]





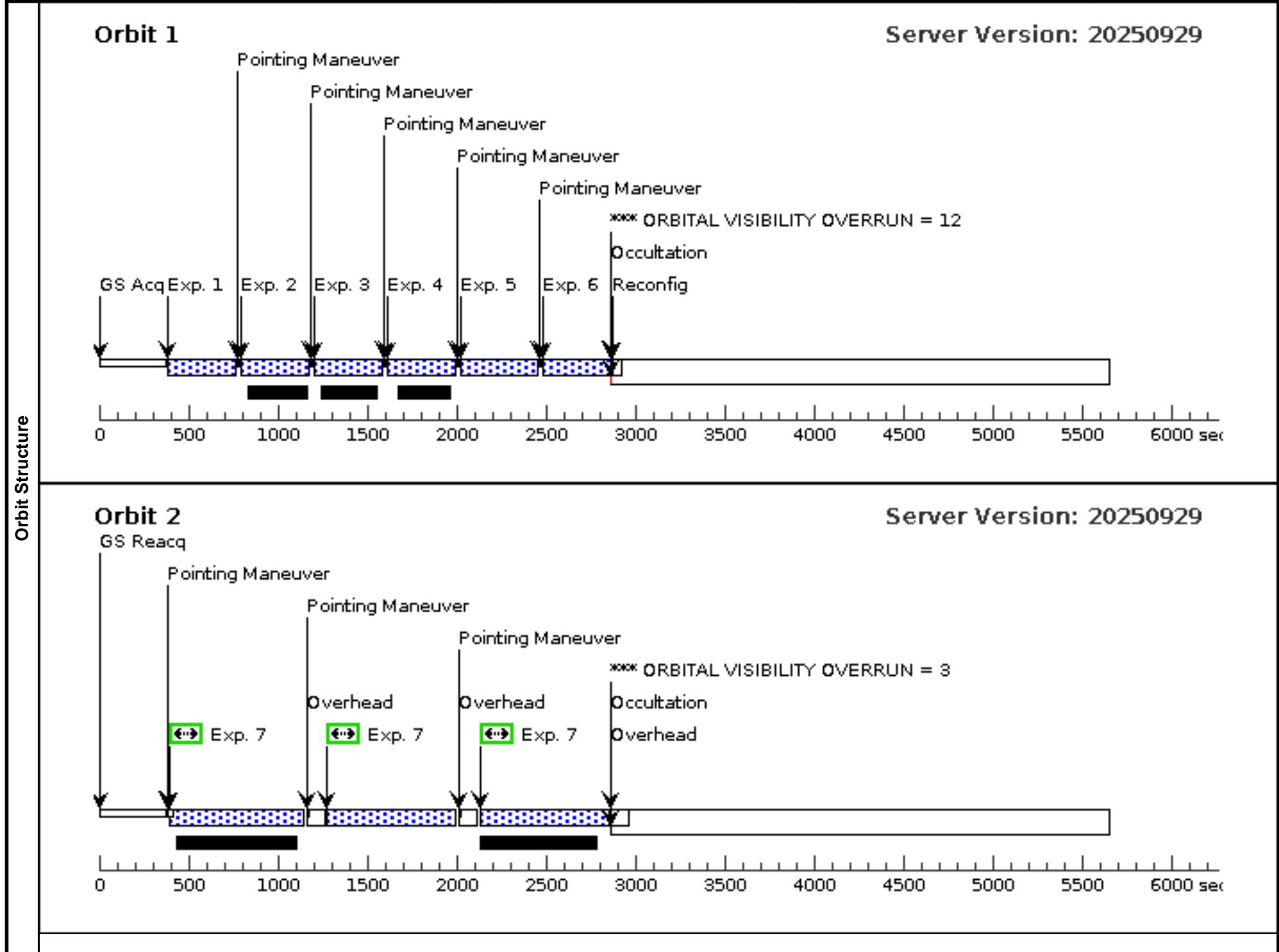
Proposal 17474 - MACS-J0308-SN (22) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitational...

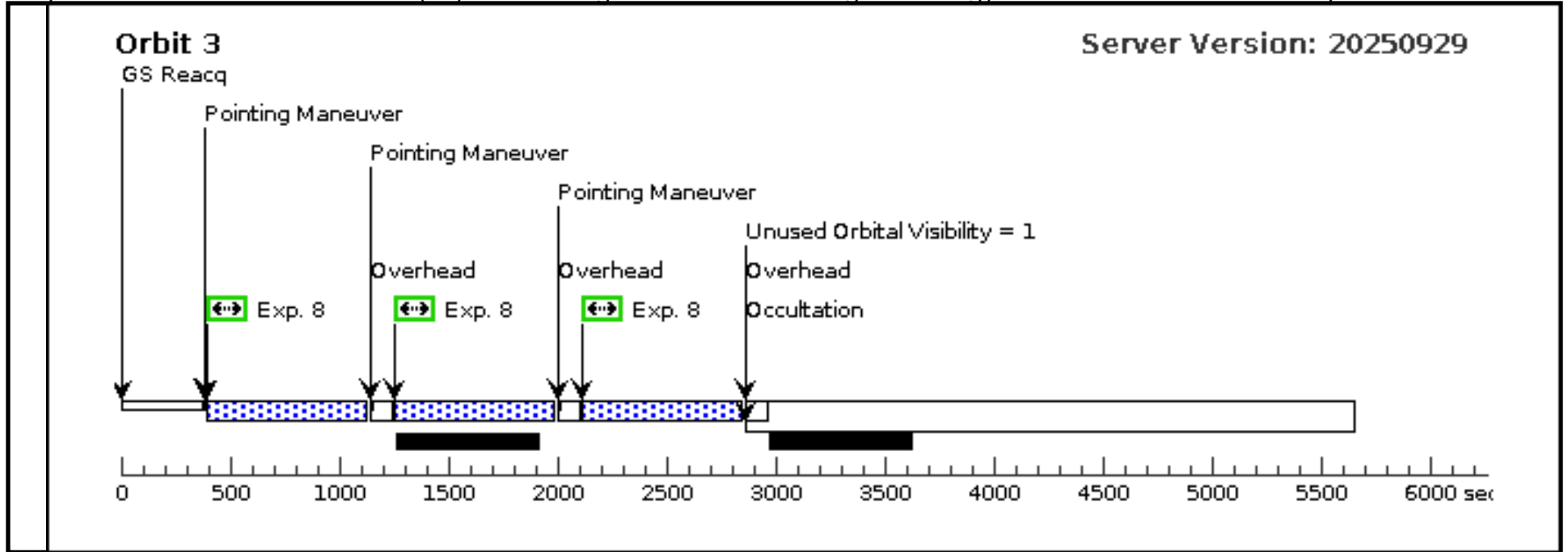
Wed Dec 03 22:00:49 GMT 2025

Visit	Proposal 17474, MACS-J0308-SN (22), completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 100%; ORIENT 200D TO 250 D; AFTER 21 BY 5 D TO 12 D <i>Comments: 3 short WFC3-IR F110W and 3 short WFC3-IR F160W exposures of high-z gISN.</i>					
	Diagnosics (MACS-J0308-SN (22)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (MACS-J0308-SN (22)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(2)	Pattern Type=WFC3-UVIS-DITHER- Coordinate Frame=POS-TARG LINE-3PT Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.135 Line Spacing=		(7), (8)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	MACS-J0308-SN-IRPOS	RA: 03 08 54.9183 (47.2288262d) Dec: +26 45 58.64 (26.76629d) Equinox: J2000		V=27+/-0.3	Reference Frame: ICRS
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA] Extended=NO					
	(10)	MACS-J0308-SN-UVISPOS	RA: 03 08 54.9183 (47.2288262d) Dec: +26 45 58.64 (26.76629d) Equinox: J2000		V=27+/-0.3	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA] Extended=NO						

Proposal 17474 - MACS-J0308-SN (22) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitational...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F160W	(9) MACS-J0308-SN -IRPOS	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0,0	Sequence 1-6 Non-Int in MACS-J0308-SN (22)	349.232932 Secs (349.233 Secs) [==>]	[1]
	2	F160W	(9) MACS-J0308-SN -IRPOS	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.451,0.403	Sequence 1-6 Non-Int in MACS-J0308-SN (22)	349.232932 Secs (349.233 Secs) [==>]	[1]
	3	F110W	(9) MACS-J0308-SN -IRPOS	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG .474,.424	Sequence 1-6 Non-Int in MACS-J0308-SN (22)	349.232932 Secs (349.233 Secs) [==>]	[1]
	4	F110W	(9) MACS-J0308-SN -IRPOS	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG .925,.827	Sequence 1-6 Non-Int in MACS-J0308-SN (22)	349.232932 Secs (349.233 Secs) [==>]	[1]
	5	F110W	(9) MACS-J0308-SN -IRPOS	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=13; SAMP-SEQ=STEP5 0	POS TARG 1.376,1.230	Sequence 1-6 Non-Int in MACS-J0308-SN (22)	399.233383 Secs (399.233 Secs) [==>]	[1]
	6	F160W	(9) MACS-J0308-SN -IRPOS	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.902,0.806	Sequence 1-6 Non-Int in MACS-J0308-SN (22)	349.232932 Secs (349.233 Secs) [==>]	[1]
	7		(10) MACS-J0308-SN -UVISPOS	WFC3/UVIS, ACCUM, UVIS2	F814W			Pattern 2, Exps 7-7 in MACS-J0308-SN (22) (2)	725 Secs (2175 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[2]
	8		(10) MACS-J0308-SN -UVISPOS	WFC3/UVIS, ACCUM, UVIS2	F814W			Pattern 2, Exps 8-8 in MACS-J0308-SN (22) (2)	733 Secs (2199 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[3]





Proposal 17474 - MACS-J0308-SN (23) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitational...

Wed Dec 03 22:00:49 GMT 2025

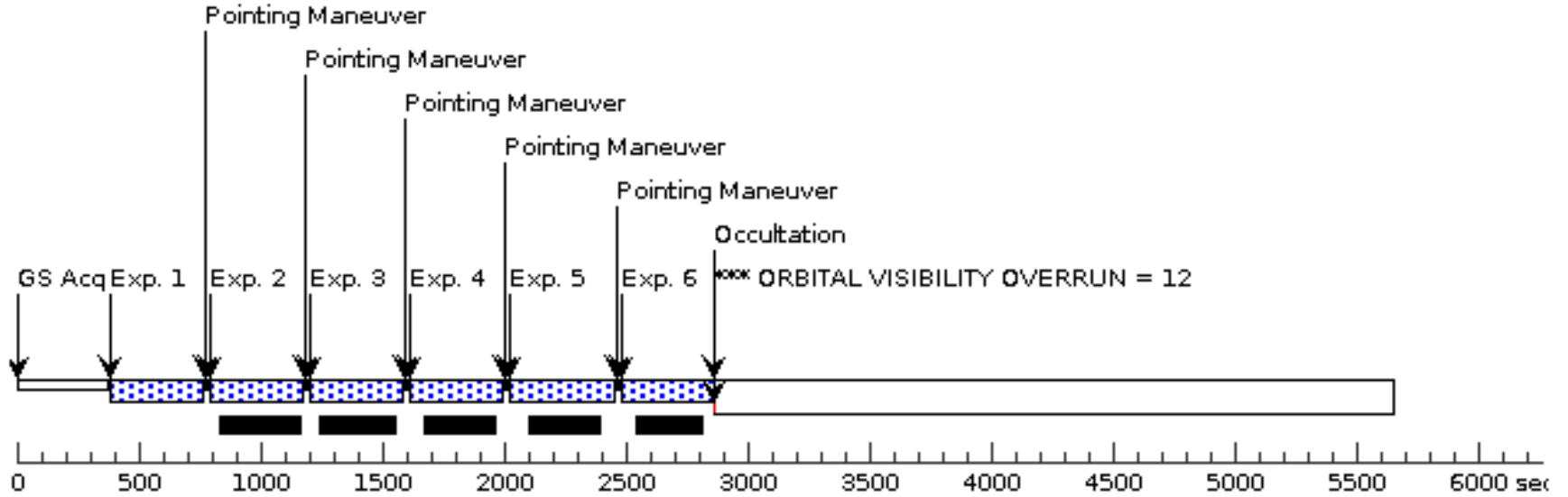
Visit	Proposal 17474, MACS-J0308-SN (23), completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 100%; ORIENT 200D TO 250 D; AFTER 22 BY 5 D TO 12 D <i>Comments: 3 short WFC3-IR F110W and 3 short WFC3-IR F160W exposures of high-z gISN.</i>					
	Diagnosics (MACS-J0308-SN (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (MACS-J0308-SN (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (MACS-J0308-SN (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(2)	Pattern Type=WFC3-UVIS-DITHER- Coordinate Frame=POS-TARG LINE-3PT Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.135 Line Spacing=		(13), (14)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	MACS-J0308-SN-IRPOS	RA: 03 08 54.9183 (47.2288262d) Dec: +26 45 58.64 (26.76629d) Equinox: J2000 <i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA] Extended=NO		V=27+/-0.3	Reference Frame: ICRS
	(10)	MACS-J0308-SN-UVISPOS	RA: 03 08 54.9183 (47.2288262d) Dec: +26 45 58.64 (26.76629d) Equinox: J2000 <i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA] Extended=NO		V=27+/-0.3	Reference Frame: ICRS

Proposal 17474 - MACS-J0308-SN (23) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitational...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	F160W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F160W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-6 Non-Int in MACS-J0308-SN (23)	349.232932 Secs (349.233 Secs) [==>]	[1]	
	2	F160W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F160W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0.451,0.403	Sequence 1-6 Non-Int in MACS-J0308-SN (23)	349.232932 Secs (349.233 Secs) [==>]	[1]	
	3	F110W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F110W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG .474,.424	Sequence 1-6 Non-Int in MACS-J0308-SN (23)	349.232932 Secs (349.233 Secs) [==>]	[1]	
	4	F110W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F110W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG .925,.827	Sequence 1-6 Non-Int in MACS-J0308-SN (23)	349.232932 Secs (349.233 Secs) [==>]	[1]	
	5	F110W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F110W	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 1.376,1.230	Sequence 1-6 Non-Int in MACS-J0308-SN (23)	399.233383 Secs (399.233 Secs) [==>]	[1]	
	6	F160W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F160W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0.902,0.806	Sequence 1-6 Non-Int in MACS-J0308-SN (23)	349.232932 Secs (349.233 Secs) [==>]	[1]	
	7	F160W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F160W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 7-12 Non-Int in MACS-J0308-SN (23)	349.232932 Secs (349.233 Secs) [==>]	[2]	
	8	F160W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F160W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0.451,0.403	Sequence 7-12 Non-Int in MACS-J0308-SN (23)	349.232932 Secs (349.233 Secs) [==>]	[2]	
	9	F110W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F110W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG .474,.424	Sequence 7-12 Non-Int in MACS-J0308-SN (23)	349.232932 Secs (349.233 Secs) [==>]	[2]	
	10	F110W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F110W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG .925,.827	Sequence 7-12 Non-Int in MACS-J0308-SN (23)	349.232932 Secs (349.233 Secs) [==>]	[2]	
	11	F110W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F110W	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 1.376,1.230	Sequence 7-12 Non-Int in MACS-J0308-SN (23)	399.233383 Secs (399.233 Secs) [==>]	[2]	
	12	F160W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F160W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0.902,0.806	Sequence 7-12 Non-Int in MACS-J0308-SN (23)	349.232932 Secs (349.233 Secs) [==>]	[2]	
	13		(10) MACS-J0308-SN-UVISPOS	WFC3/UVIS, ACCUM, UVIS2	F814W			Pattern 2, Exps 13-13 in MACS-J0308-SN (23) (2)	725 Secs (2175 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[3]
	14		(10) MACS-J0308-SN-UVISPOS	WFC3/UVIS, ACCUM, UVIS2	F814W			Pattern 2, Exps 14-14 in MACS-J0308-SN (23) (2)	733 Secs (2199 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[4]

Orbit 1

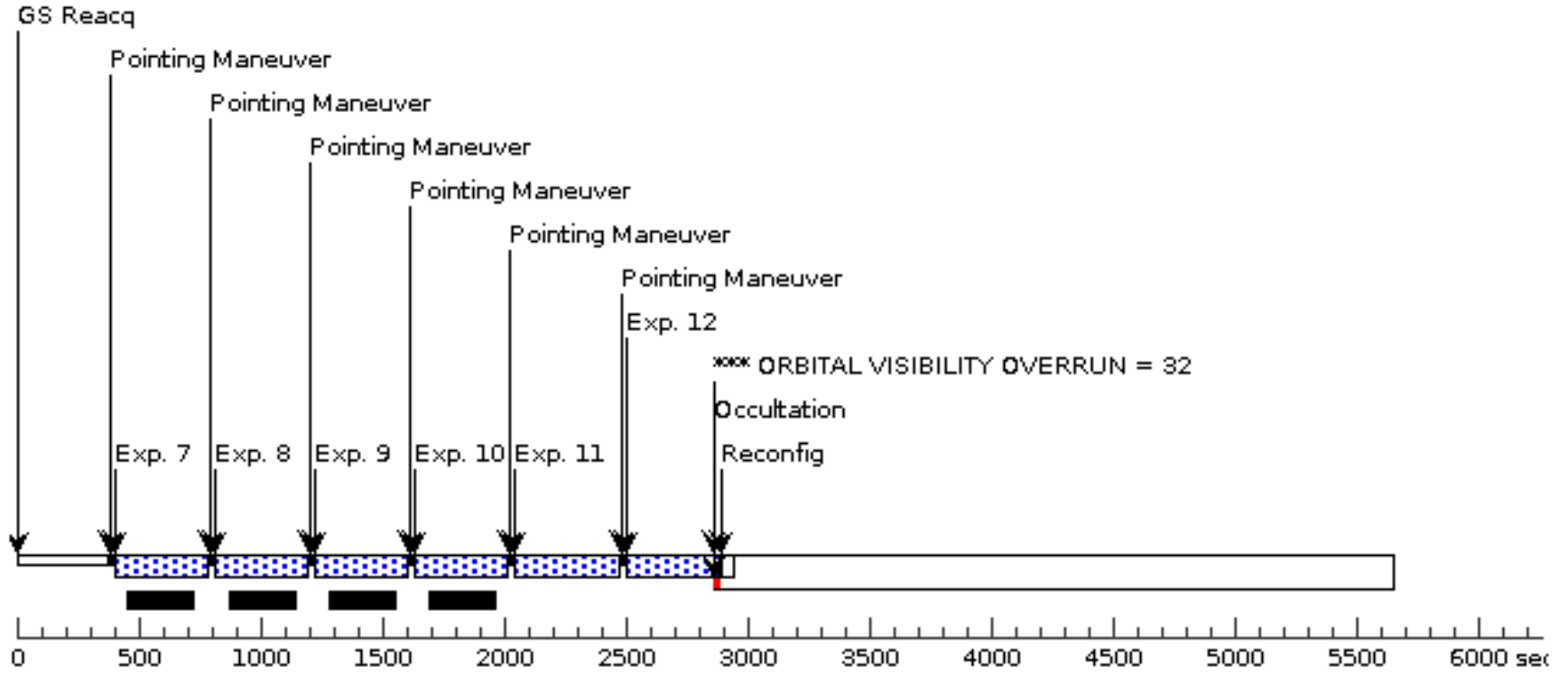
Server Version: 20250929



Orbit Structure

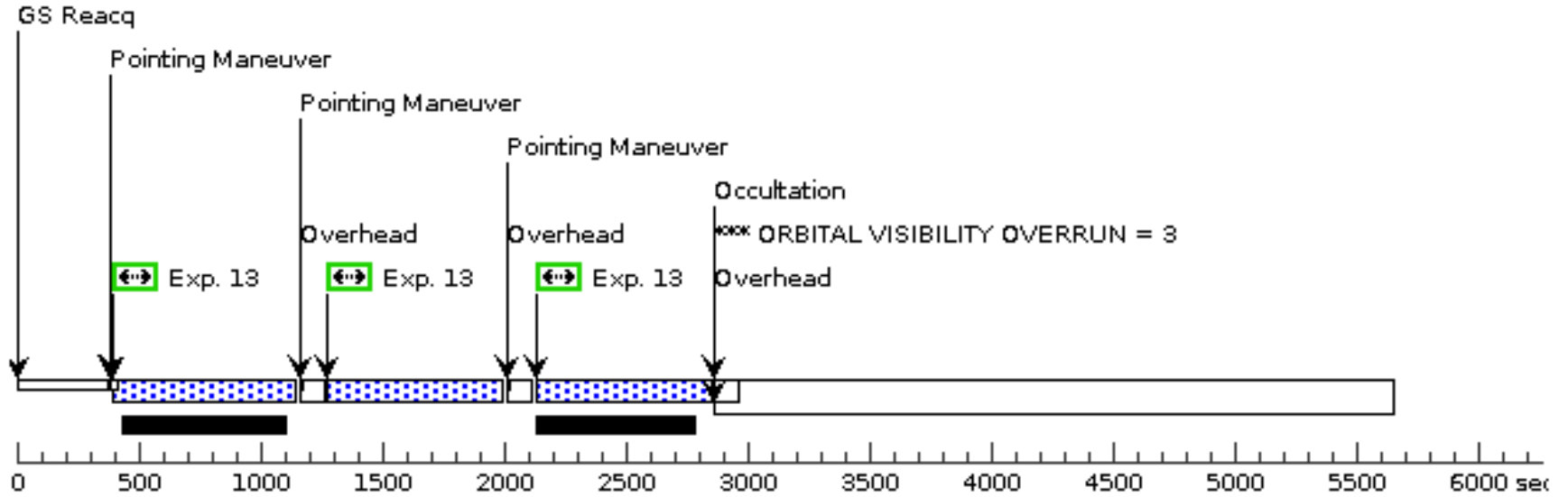
Orbit 2

Server Version: 20250929



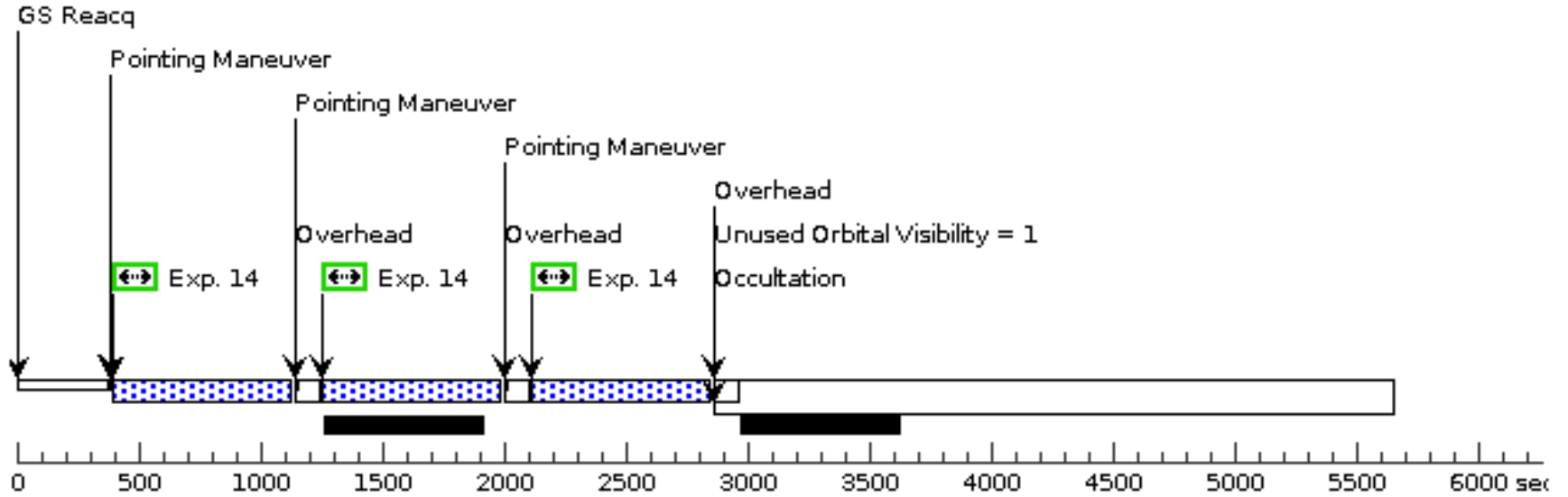
Orbit 3

Server Version: 20250929



Orbit 4

Server Version: 20250929



Proposal 17474 - MACS-J0308-SN (24) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitational...

Wed Dec 03 22:00:50 GMT 2025

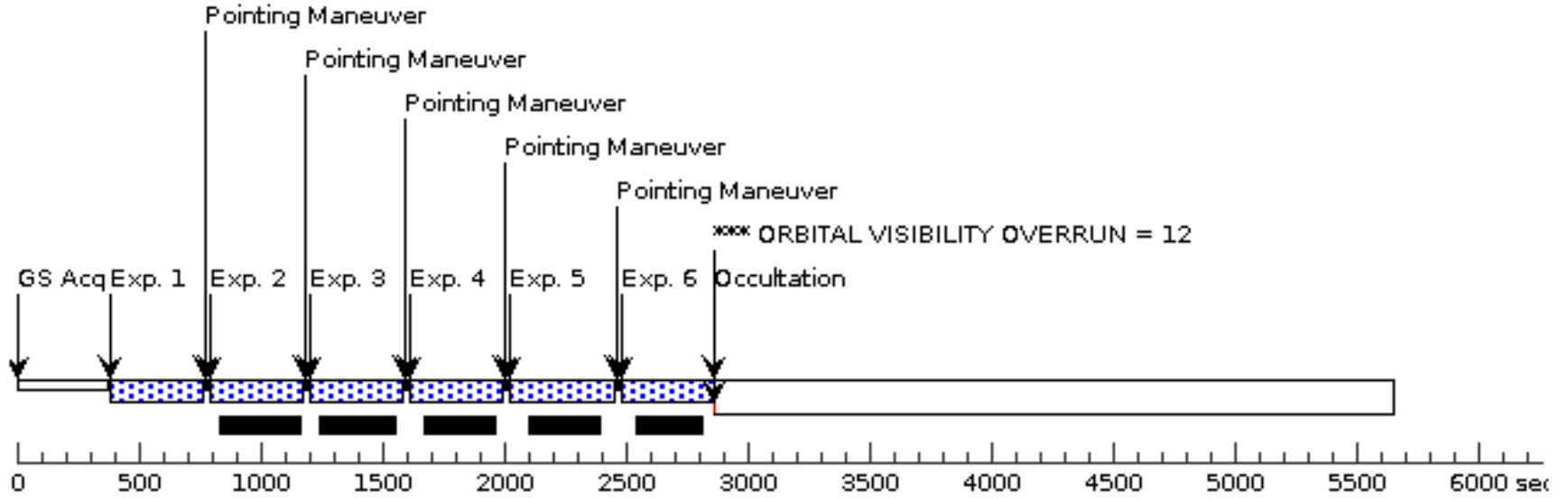
Visit	Proposal 17474, MACS-J0308-SN (24), completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 100%; ORIENT 200D TO 250 D; AFTER 23 BY 5 D TO 12 D <i>Comments: 3 short WFC3-IR F110W and 3 short WFC3-IR F160W exposures of high-z gISN.</i>					
	Diagnosics (MACS-J0308-SN (24)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (MACS-J0308-SN (24)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (MACS-J0308-SN (24)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(2)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(13), (14)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	MACS-J0308-SN-IRPOS	RA: 03 08 54.9183 (47.2288262d) Dec: +26 45 58.64 (26.76629d) Equinox: J2000		V=27+/-0.3	Reference Frame: ICRS
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA] Extended=NO					
	(10)	MACS-J0308-SN-UVISPOS	RA: 03 08 54.9183 (47.2288262d) Dec: +26 45 58.64 (26.76629d) Equinox: J2000		V=27+/-0.3	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA] Extended=NO						

Proposal 17474 - MACS-J0308-SN (24) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitational...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	F160W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F160W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-6 Non-Int in MACS-J0308-SN (24)	349.232932 Secs (349.233 Secs) [==>]	[1]	
	2	F160W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F160W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0.451,0.403	Sequence 1-6 Non-Int in MACS-J0308-SN (24)	349.232932 Secs (349.233 Secs) [==>]	[1]	
	3	F110W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F110W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG .474,.424	Sequence 1-6 Non-Int in MACS-J0308-SN (24)	349.232932 Secs (349.233 Secs) [==>]	[1]	
	4	F110W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F110W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG .925,.827	Sequence 1-6 Non-Int in MACS-J0308-SN (24)	349.232932 Secs (349.233 Secs) [==>]	[1]	
	5	F110W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F110W	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 1.376,1.230	Sequence 1-6 Non-Int in MACS-J0308-SN (24)	399.233383 Secs (399.233 Secs) [==>]	[1]	
	6	F160W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F160W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0.902,0.806	Sequence 1-6 Non-Int in MACS-J0308-SN (24)	349.232932 Secs (349.233 Secs) [==>]	[1]	
	7	F160W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F160W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 7-12 Non-Int in MACS-J0308-SN (24)	349.232932 Secs (349.233 Secs) [==>]	[2]	
	8	F160W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F160W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0.451,0.403	Sequence 7-12 Non-Int in MACS-J0308-SN (24)	349.232932 Secs (349.233 Secs) [==>]	[2]	
	9	F110W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F110W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG .474,.424	Sequence 7-12 Non-Int in MACS-J0308-SN (24)	349.232932 Secs (349.233 Secs) [==>]	[2]	
	10	F110W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F110W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG .925,.827	Sequence 7-12 Non-Int in MACS-J0308-SN (24)	349.232932 Secs (349.233 Secs) [==>]	[2]	
	11	F110W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F110W	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 1.376,1.230	Sequence 7-12 Non-Int in MACS-J0308-SN (24)	399.233383 Secs (399.233 Secs) [==>]	[2]	
	12	F160W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F160W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0.902,0.806	Sequence 7-12 Non-Int in MACS-J0308-SN (24)	349.232932 Secs (349.233 Secs) [==>]	[2]	
	13		(10) MACS-J0308-SN-UVISPOS	WFC3/UVIS, ACCUM, UVIS2	F814W			Pattern 2, Exps 13-13 in MACS-J0308-SN (24) (2)	725 Secs (2175 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[3]
	14		(10) MACS-J0308-SN-UVISPOS	WFC3/UVIS, ACCUM, UVIS2	F814W			Pattern 2, Exps 14-14 in MACS-J0308-SN (24) (2)	733 Secs (2199 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[4]

Orbit 1

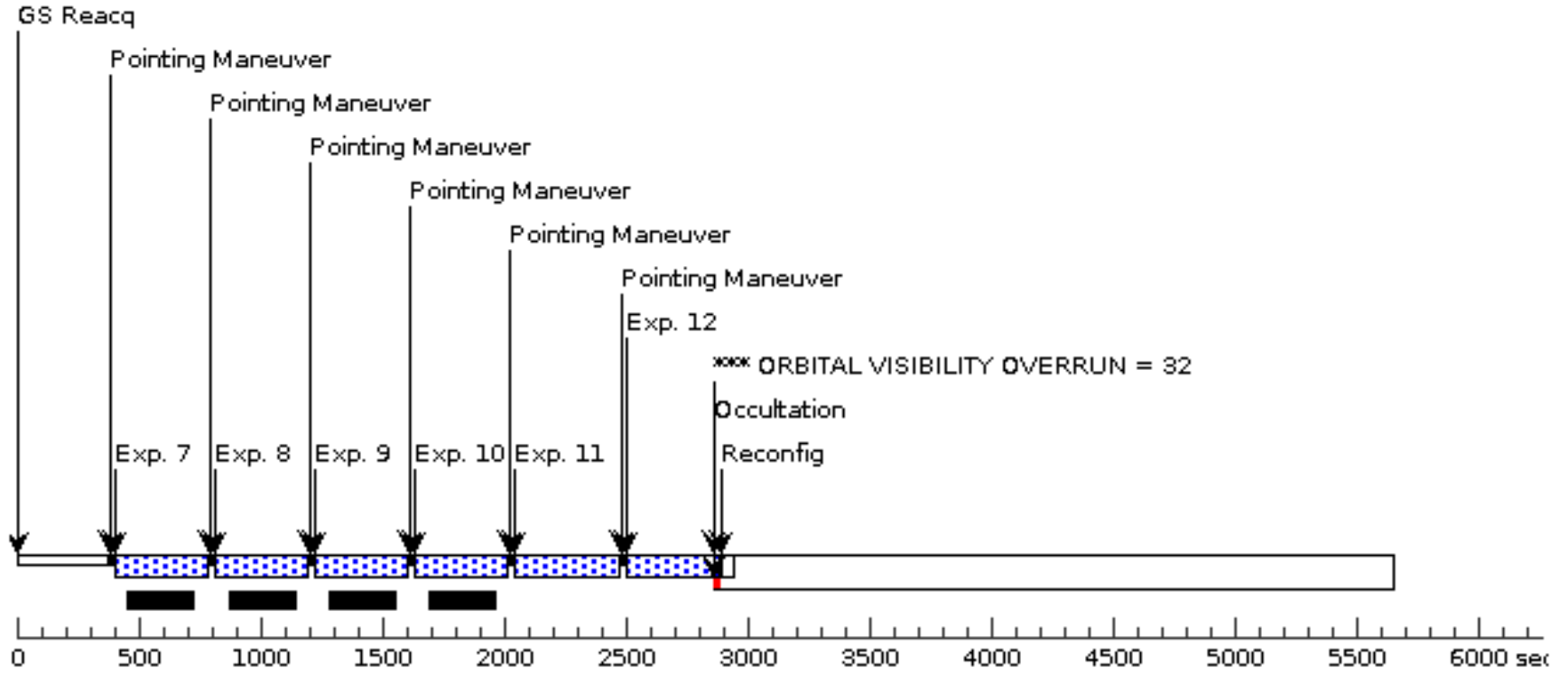
Server Version: 20250929



Orbit Structure

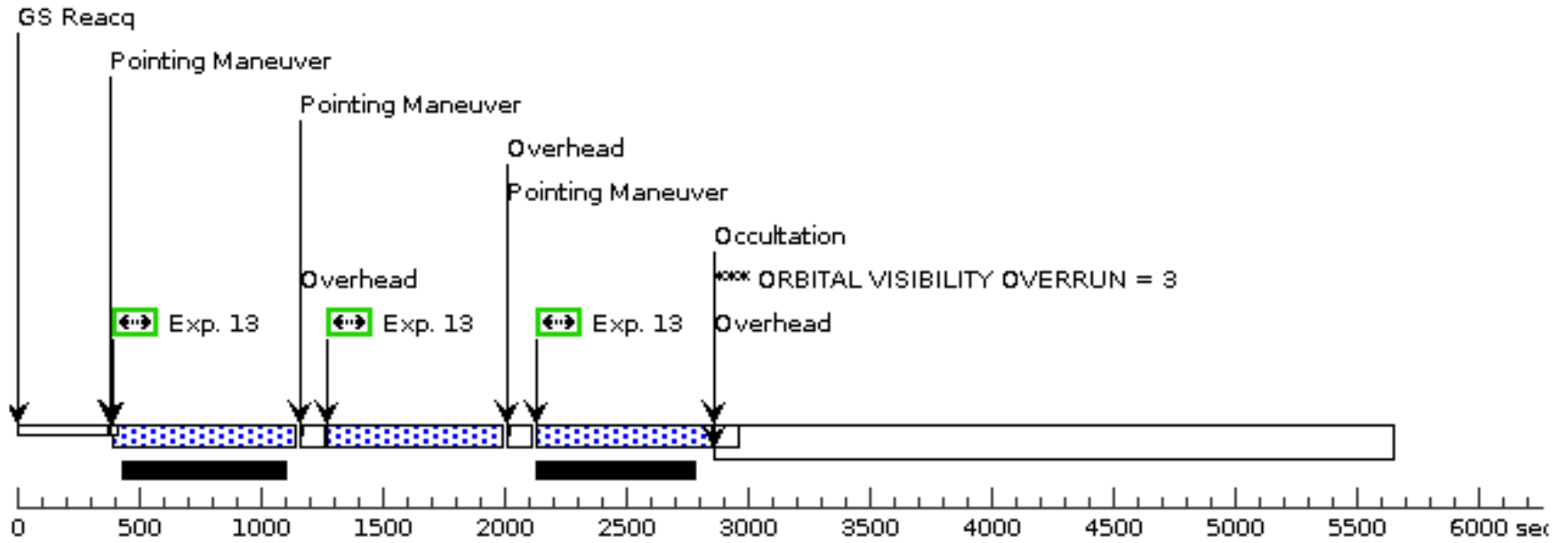
Orbit 2

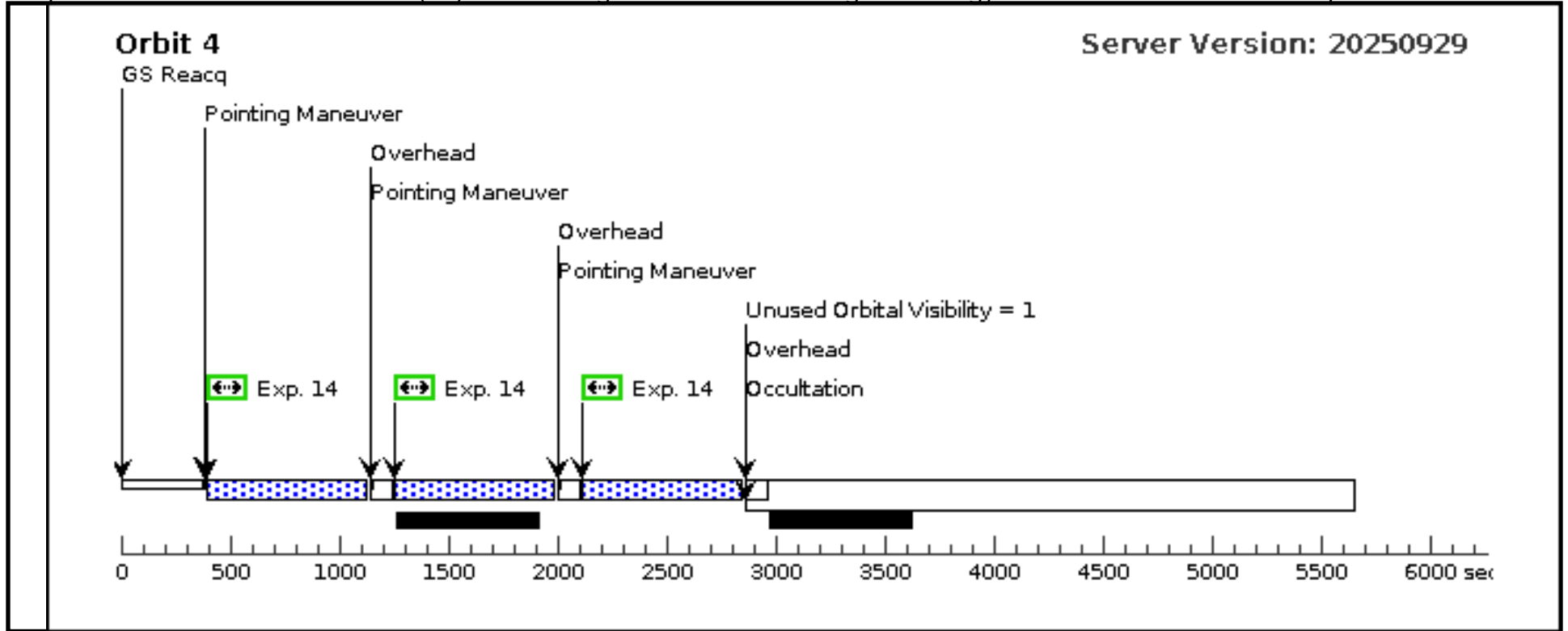
Server Version: 20250929



Orbit 3

Server Version: 20250929





Proposal 17474 - MACS-J0308-SN (25) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitational...

Wed Dec 03 22:00:50 GMT 2025

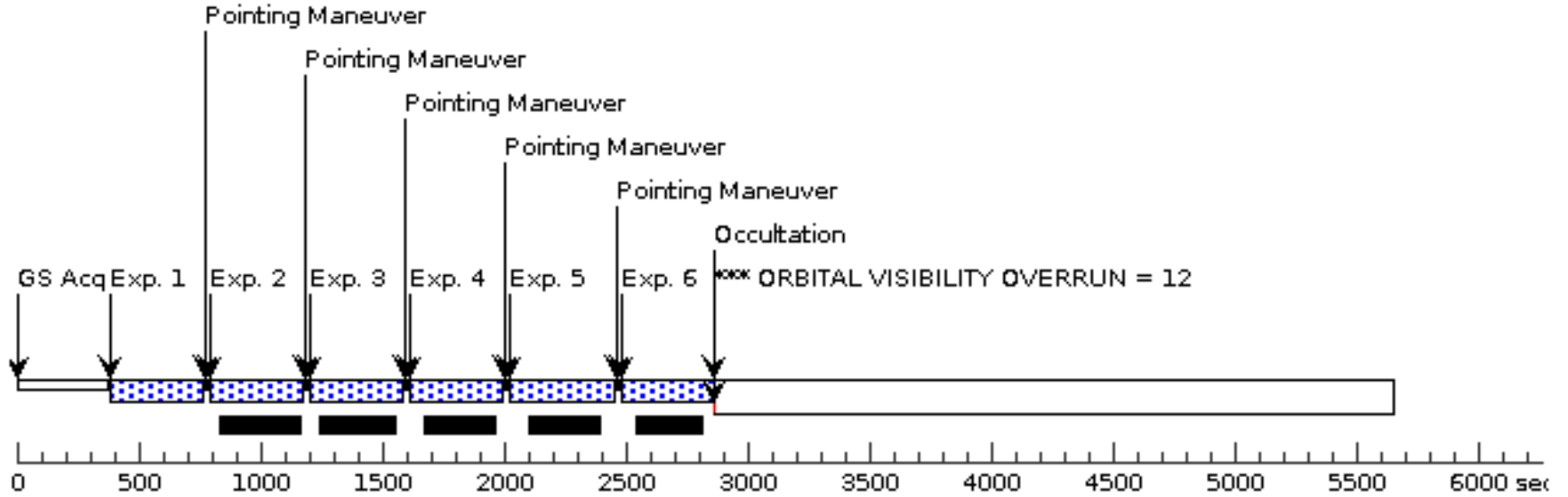
Visit	Proposal 17474, MACS-J0308-SN (25), completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 100%; ORIENT 200D TO 250 D; AFTER 24 BY 5 D TO 12 D <i>Comments: 3 short WFC3-IR F110W and 3 short WFC3-IR F160W exposures of high-z gISN.</i>					
	Diagnosics (MACS-J0308-SN (25)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (MACS-J0308-SN (25)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (MACS-J0308-SN (25)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(2)	Pattern Type=WFC3-UVIS-DITHER- Coordinate Frame=POS-TARG LINE-3PT Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.135 Line Spacing=		(13), (14)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	MACS-J0308-SN-IRPOS	RA: 03 08 54.9183 (47.2288262d) Dec: +26 45 58.64 (26.76629d) Equinox: J2000		V=27+/-0.3	Reference Frame: ICRS
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA] Extended=NO					
	(10)	MACS-J0308-SN-UVISPOS	RA: 03 08 54.9183 (47.2288262d) Dec: +26 45 58.64 (26.76629d) Equinox: J2000		V=27+/-0.3	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA] Extended=NO						

Proposal 17474 - MACS-J0308-SN (25) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitational...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	F160W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F160W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-6 Non-Int in MACS-J0308-SN (25)	349.232932 Secs (349.233 Secs) [==>]	[1]	
	2	F160W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F160W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0.451,0.403	Sequence 1-6 Non-Int in MACS-J0308-SN (25)	349.232932 Secs (349.233 Secs) [==>]	[1]	
	3	F110W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F110W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG .474,.424	Sequence 1-6 Non-Int in MACS-J0308-SN (25)	349.232932 Secs (349.233 Secs) [==>]	[1]	
	4	F110W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F110W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG .925,.827	Sequence 1-6 Non-Int in MACS-J0308-SN (25)	349.232932 Secs (349.233 Secs) [==>]	[1]	
	5	F110W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F110W	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 1.376,1.230	Sequence 1-6 Non-Int in MACS-J0308-SN (25)	399.233383 Secs (399.233 Secs) [==>]	[1]	
	6	F160W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F160W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0.902,0.806	Sequence 1-6 Non-Int in MACS-J0308-SN (25)	349.232932 Secs (349.233 Secs) [==>]	[1]	
	7	F160W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F160W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 7-12 Non-Int in MACS-J0308-SN (25)	349.232932 Secs (349.233 Secs) [==>]	[2]	
	8	F160W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F160W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0.451,0.403	Sequence 7-12 Non-Int in MACS-J0308-SN (25)	349.232932 Secs (349.233 Secs) [==>]	[2]	
	9	F110W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F110W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG .474,.424	Sequence 7-12 Non-Int in MACS-J0308-SN (25)	349.232932 Secs (349.233 Secs) [==>]	[2]	
	10	F110W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F110W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG .925,.827	Sequence 7-12 Non-Int in MACS-J0308-SN (25)	349.232932 Secs (349.233 Secs) [==>]	[2]	
	11	F110W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F110W	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 1.376,1.230	Sequence 7-12 Non-Int in MACS-J0308-SN (25)	399.233383 Secs (399.233 Secs) [==>]	[2]	
	12	F160W	(9) MACS-J0308-SN WFC3/IR, MULTIACCUM, IR-IRPOS	F160W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0.902,0.806	Sequence 7-12 Non-Int in MACS-J0308-SN (25)	349.232932 Secs (349.233 Secs) [==>]	[2]	
	13		(10) MACS-J0308-SN-UVISPOS	WFC3/UVIS, ACCUM, UVIS2	F814W			Pattern 2, Exps 13-13 in MACS-J0308-SN (25) (2)	725 Secs (2175 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[3]
	14		(10) MACS-J0308-SN-UVISPOS	WFC3/UVIS, ACCUM, UVIS2	F814W			Pattern 2, Exps 14-14 in MACS-J0308-SN (25) (2)	733 Secs (2199 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[4]

Orbit 1

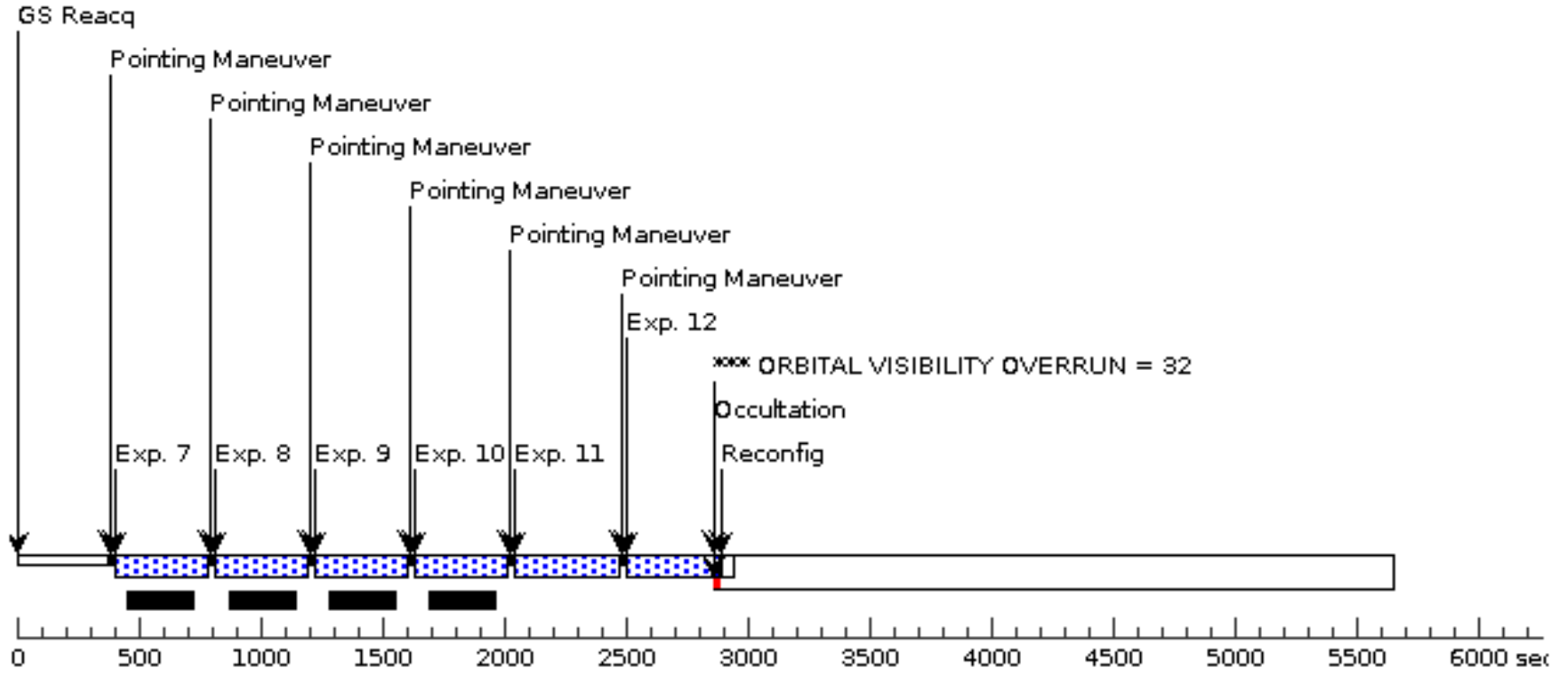
Server Version: 20250929



Orbit Structure

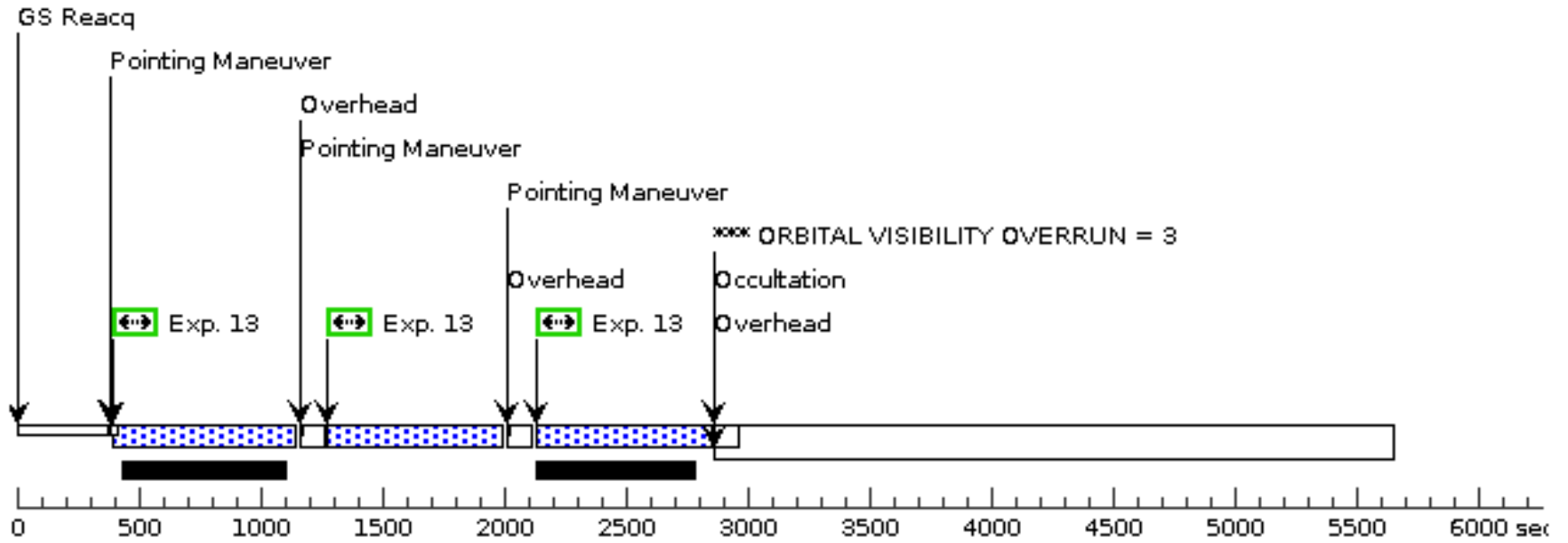
Orbit 2

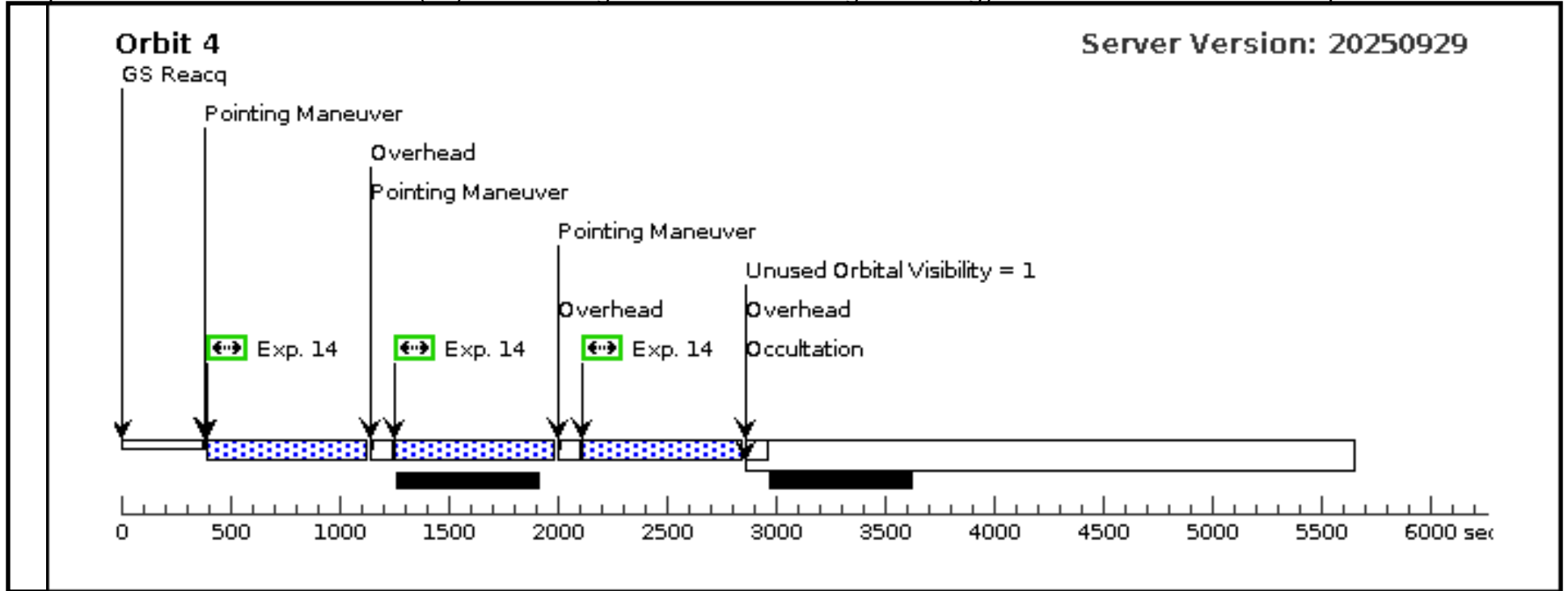
Server Version: 20250929



Orbit 3

Server Version: 20250929





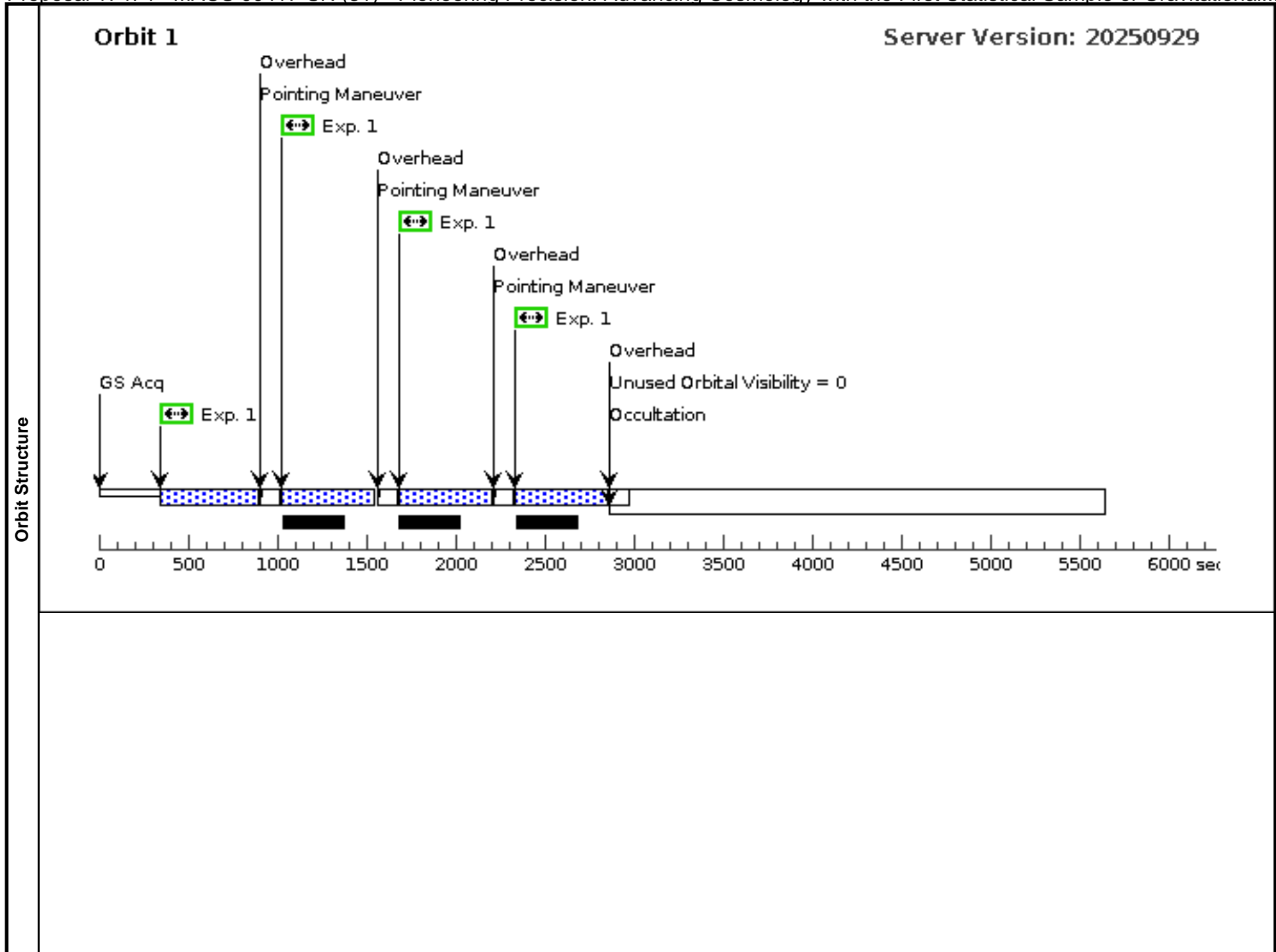
Proposal 17474 - MACS-J0417-SN (31) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitational...

Wed Dec 03 22:00:50 GMT 2025

Visit	Proposal 17474, MACS-J0417-SN (31), completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 100%; BEFORE 17-OCT-2025:00:00:00; TOO RESPONSE TIME 7.0D <i>Comments: Alternate orbit setup for a lower-z gLSN.</i>					
	Diagnosics (MACS-J0417-SN (31)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(4)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false	(1), (2)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(11)	MACS-J0417-SN	RA: 04 17 35.1368 (64.3964033d) Dec: -11 54 25.36 (-11.90704d) Equinox: J2000		V=24+/-0.5	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA]						

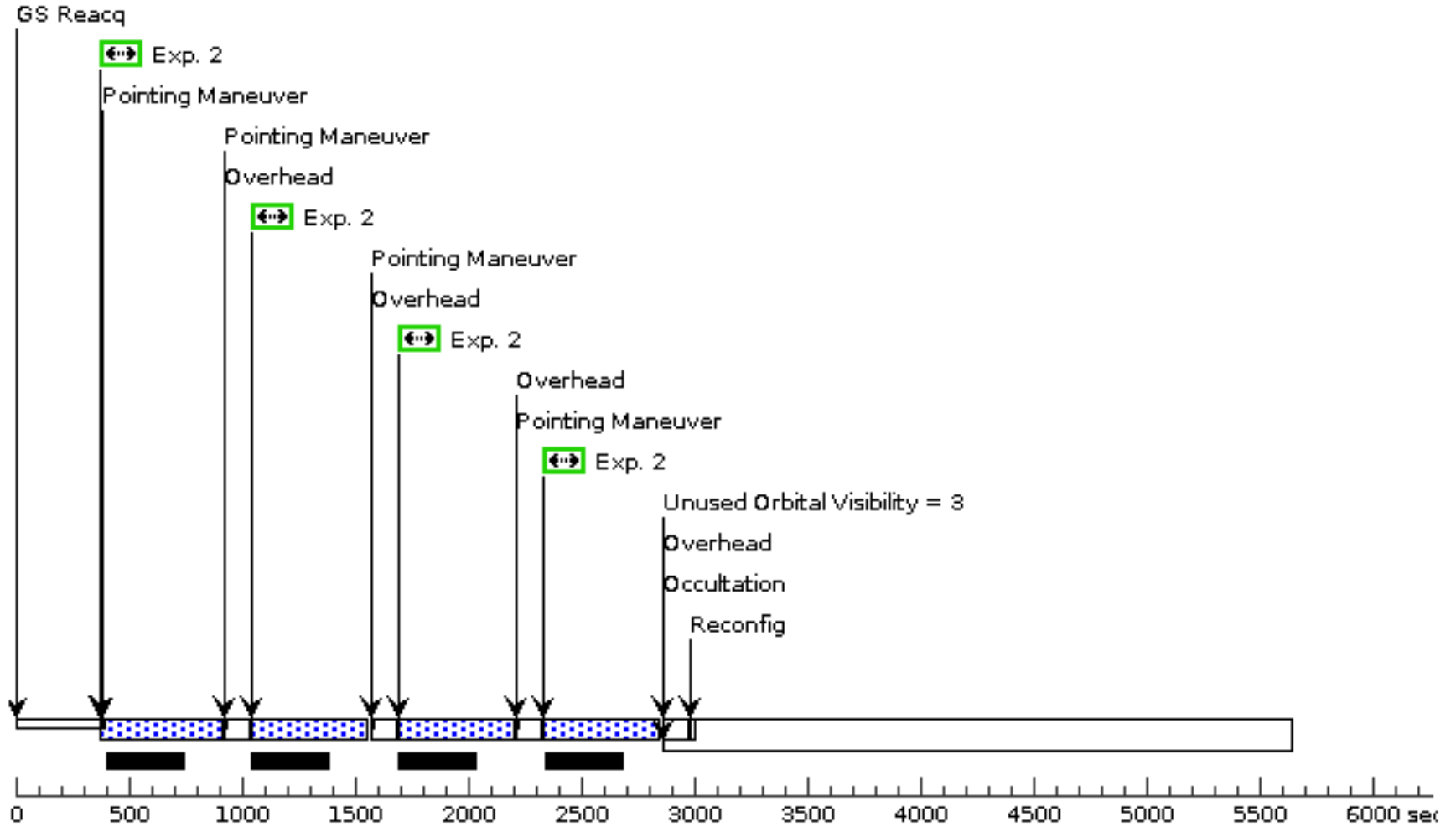
Proposal 17474 - MACS-J0417-SN (31) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitational...

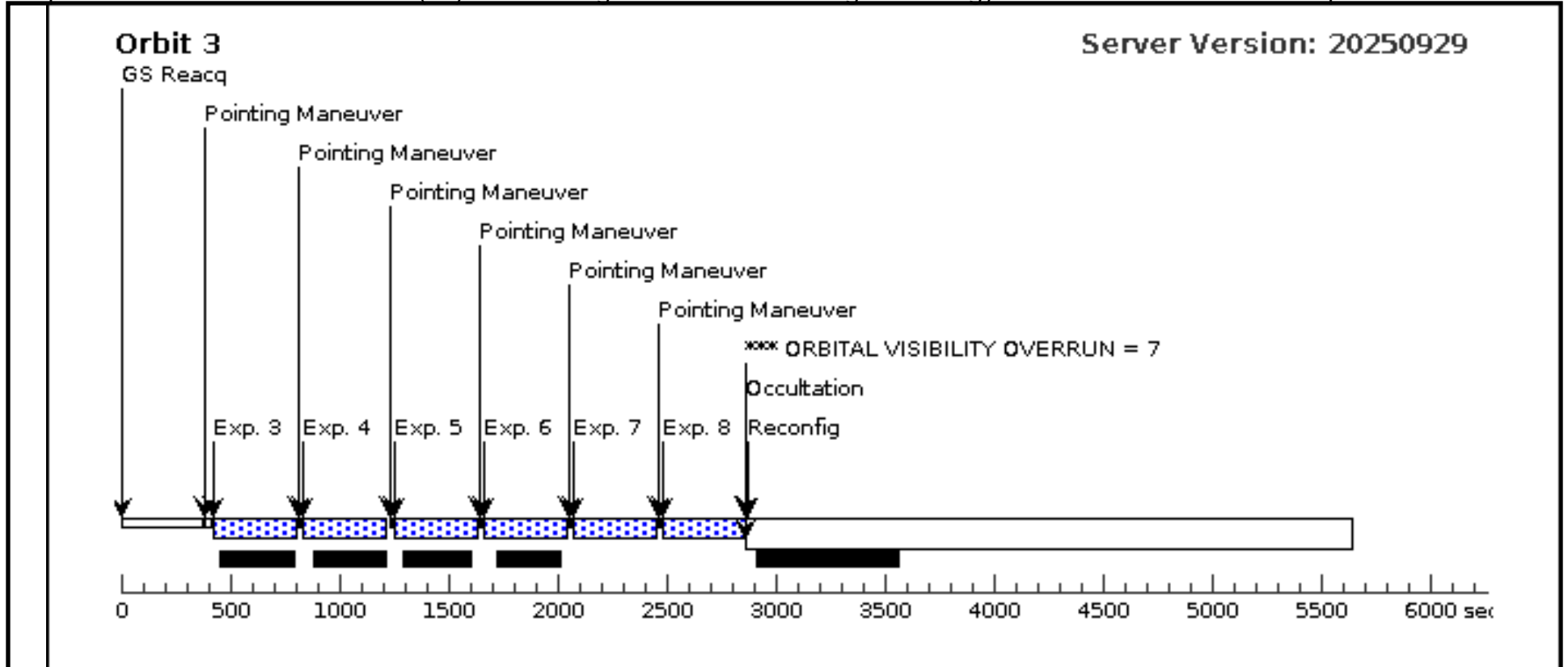
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	(11) MACS-J0417-S N	WFC3/UVIS, ACCUM, UVIS2	F814W	FLASH=5		Pattern 4, Exps 1-1 i n MACS-J0417-SN (31) (4)	520 Secs (2080 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	2	(11) MACS-J0417-S N	WFC3/UVIS, ACCUM, UVIS2	F606W	FLASH=3		Pattern 4, Exps 2-2 i n MACS-J0417-SN (31) (4)	515 Secs (2060 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]	
	3	F140W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0,0	Sequence 3-8 Non-Int in MACS-J0417-S N (31)	349.232932 Secs (349.233 Secs) [==>]	[3]
	4	F140W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.451,0. 403	Sequence 3-8 Non-Int in MACS-J0417-S N (31)	349.232932 Secs (349.233 Secs) [==>]	[3]
	5	F140W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG .474,.42 4	Sequence 3-8 Non-Int in MACS-J0417-S N (31)	349.232932 Secs (349.233 Secs) [==>]	[3]
	6	F105W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG .925,.82 7	Sequence 3-8 Non-Int in MACS-J0417-S N (31)	349.232932 Secs (349.233 Secs) [==>]	[3]
	7	F105W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 1.376,1. 230	Sequence 3-8 Non-Int in MACS-J0417-S N (31)	349.232932 Secs (349.233 Secs) [==>]	[3]
	8	F105W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.902,0. 806	Sequence 3-8 Non-Int in MACS-J0417-S N (31)	349.232932 Secs (349.233 Secs) [==>]	[3]



Orbit 2

Server Version: 20250929





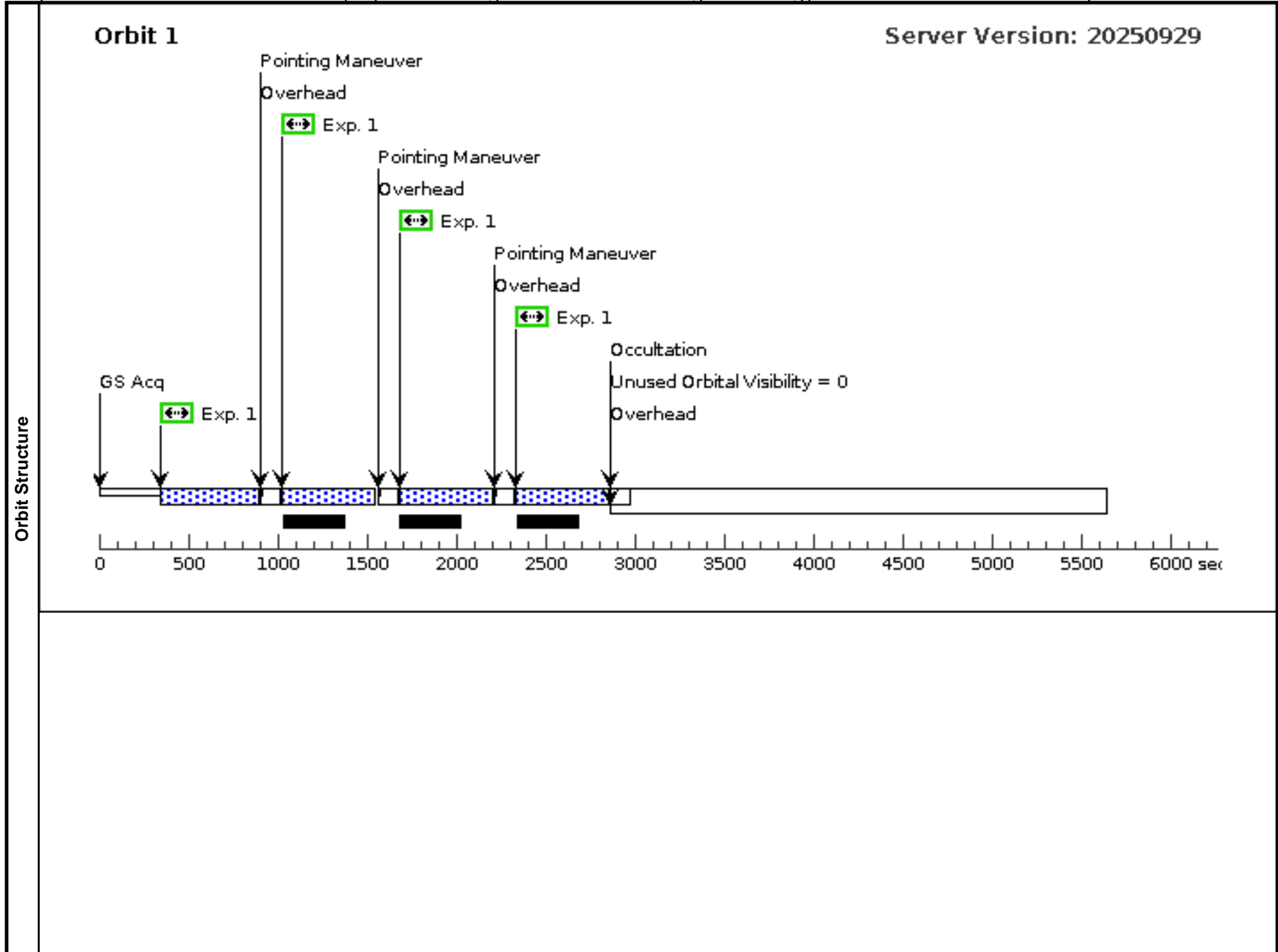
Proposal 17474 - MACS-J0417-SN (32) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitational...

Wed Dec 03 22:00:50 GMT 2025

Visit	Proposal 17474, MACS-J0417-SN (32), failed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 100%; AFTER 31 BY 6 D TO 12 D; TOO RESPONSE TIME 7.0D <i>Comments: Alternate orbit setup for a lower-z gLSN.</i>					
	Diagnosics (MACS-J0417-SN (32)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(4)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(11)	MACS-J0417-SN	RA: 04 17 35.1368 (64.3964033d) Dec: -11 54 25.36 (-11.90704d) Equinox: J2000		V=24+/-0.5	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA]						

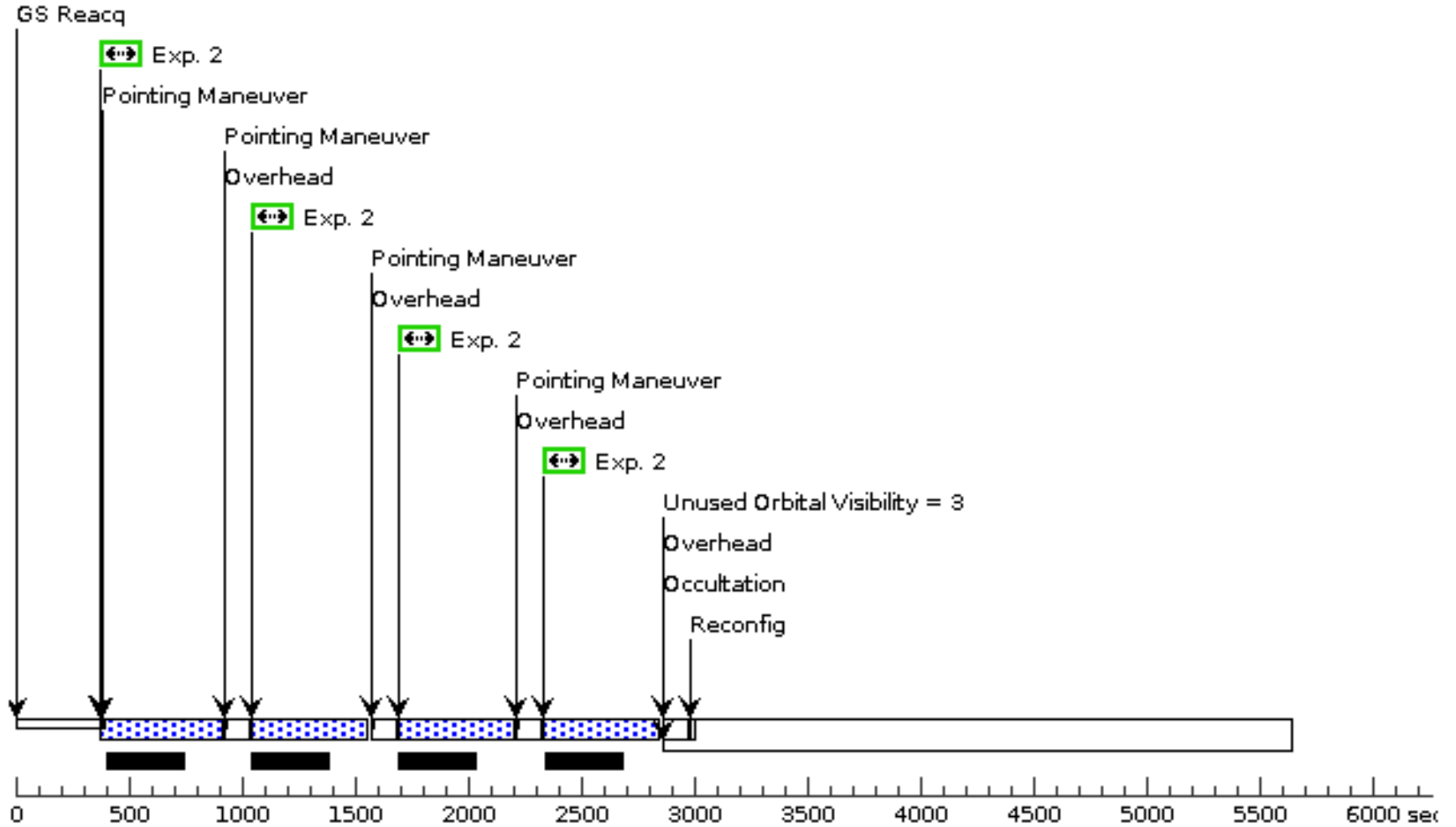
Proposal 17474 - MACS-J0417-SN (32) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitational...

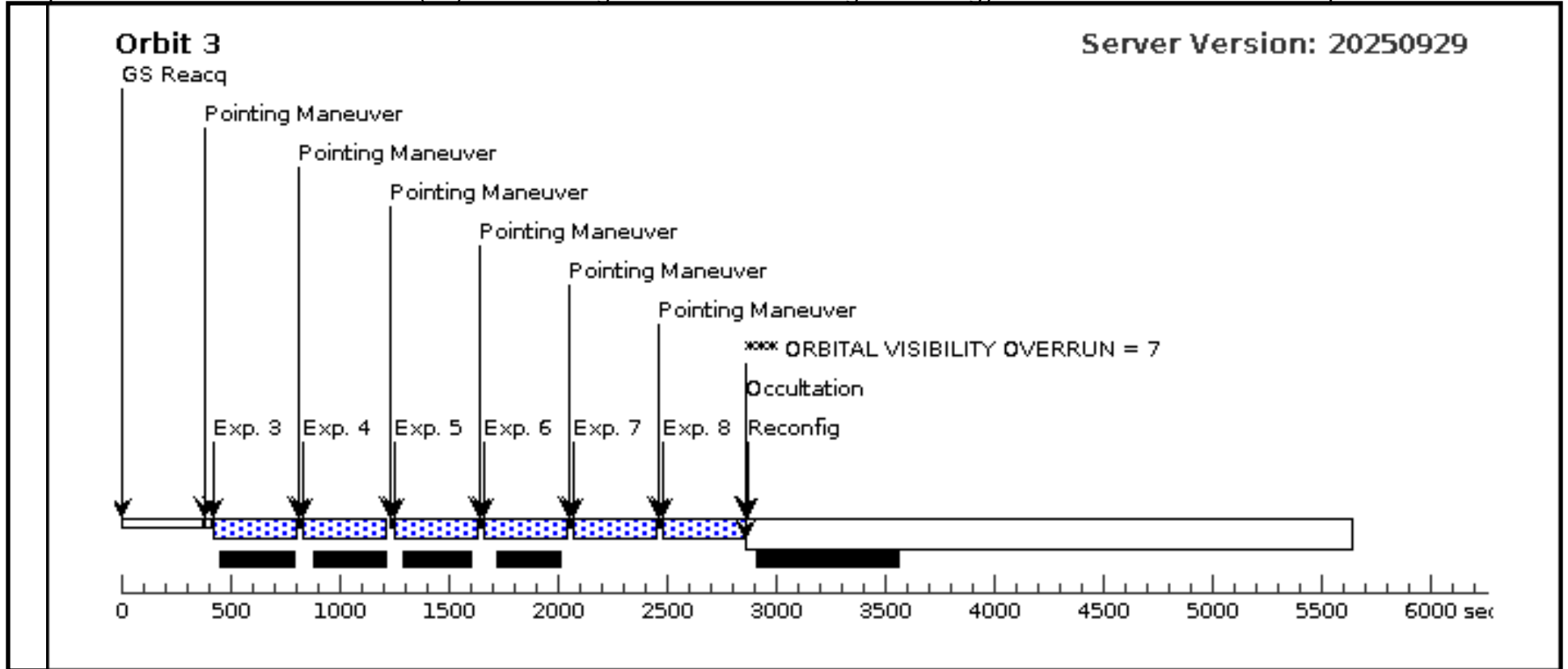
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	(11) MACS-J0417-S N	WFC3/UVIS, ACCUM, UVIS2	F814W	FLASH=5		Pattern 4, Exps 1-1 i n MACS-J0417-SN (32) (4)	520 Secs (2080 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	2	(11) MACS-J0417-S N	WFC3/UVIS, ACCUM, UVIS2	F606W	FLASH=3		Pattern 4, Exps 2-2 i n MACS-J0417-SN (32) (4)	515 Secs (2060 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]	
	3	F140W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0,0	Sequence 3-8 Non-Int in MACS-J0417-S N (32)	349.232932 Secs (349.233 Secs) [==>]	[3]
	4	F140W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.451,0. 403	Sequence 3-8 Non-Int in MACS-J0417-S N (32)	349.232932 Secs (349.233 Secs) [==>]	[3]
	5	F140W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG .474,.42 4	Sequence 3-8 Non-Int in MACS-J0417-S N (32)	349.232932 Secs (349.233 Secs) [==>]	[3]
	6	F105W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG .925,.82 7	Sequence 3-8 Non-Int in MACS-J0417-S N (32)	349.232932 Secs (349.233 Secs) [==>]	[3]
	7	F105W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 1.376,1. 230	Sequence 3-8 Non-Int in MACS-J0417-S N (32)	349.232932 Secs (349.233 Secs) [==>]	[3]
	8	F105W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.902,0. 806	Sequence 3-8 Non-Int in MACS-J0417-S N (32)	349.232932 Secs (349.233 Secs) [==>]	[3]



Orbit 2

Server Version: 20250929





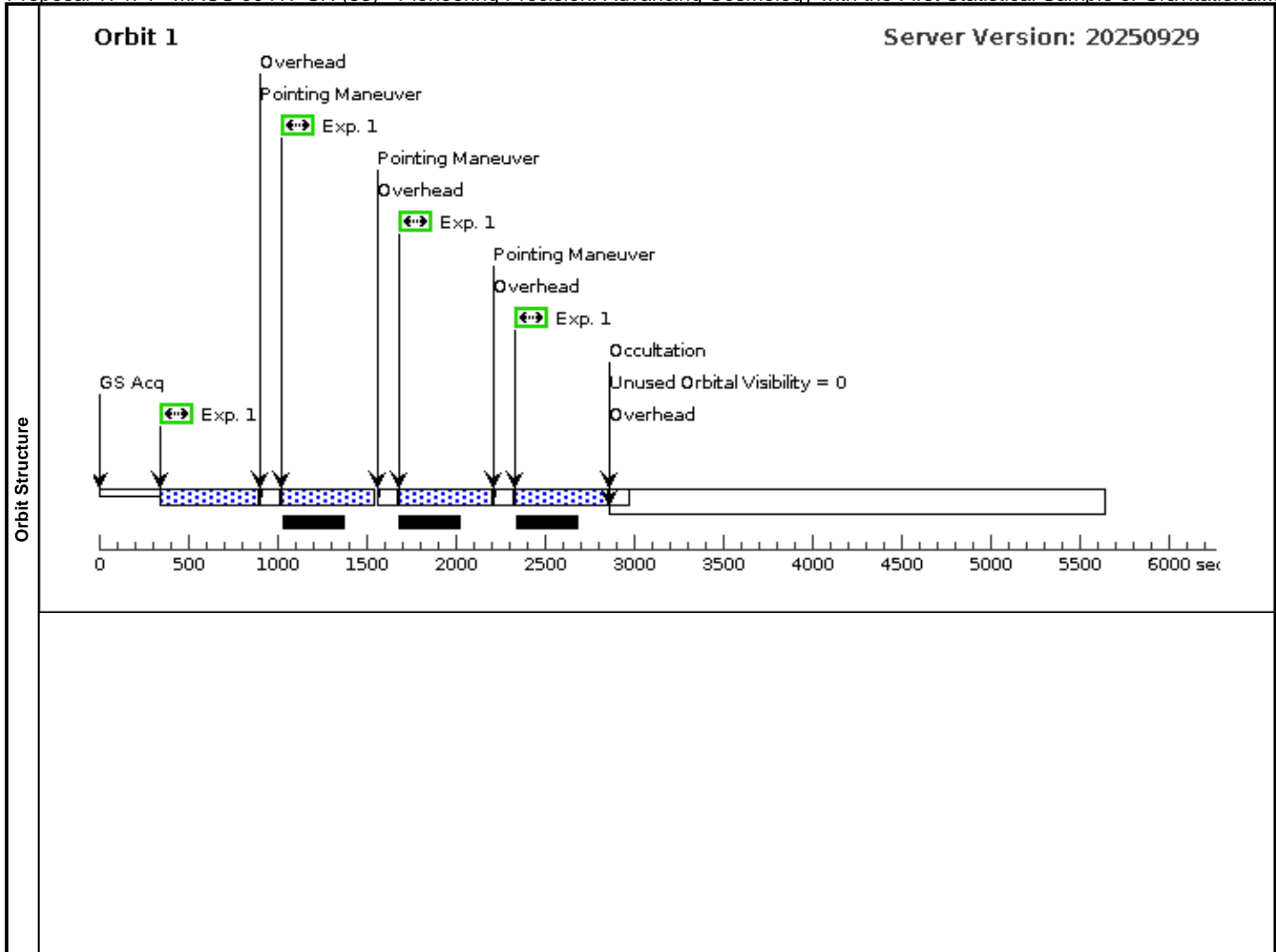
Proposal 17474 - MACS-J0417-SN (33) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitational...

Wed Dec 03 22:00:50 GMT 2025

Visit	Proposal 17474, MACS-J0417-SN (33), failed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 100%; AFTER 32 BY 6 D TO 12 D; TOO RESPONSE TIME 7.0D <i>Comments: Alternate orbit setup for a lower-z gLSN.</i>					
	Diagnosics (MACS-J0417-SN (33)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(4)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(11)	MACS-J0417-SN	RA: 04 17 35.1368 (64.3964033d) Dec: -11 54 25.36 (-11.90704d) Equinox: J2000		V=24+/-0.5	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA]						

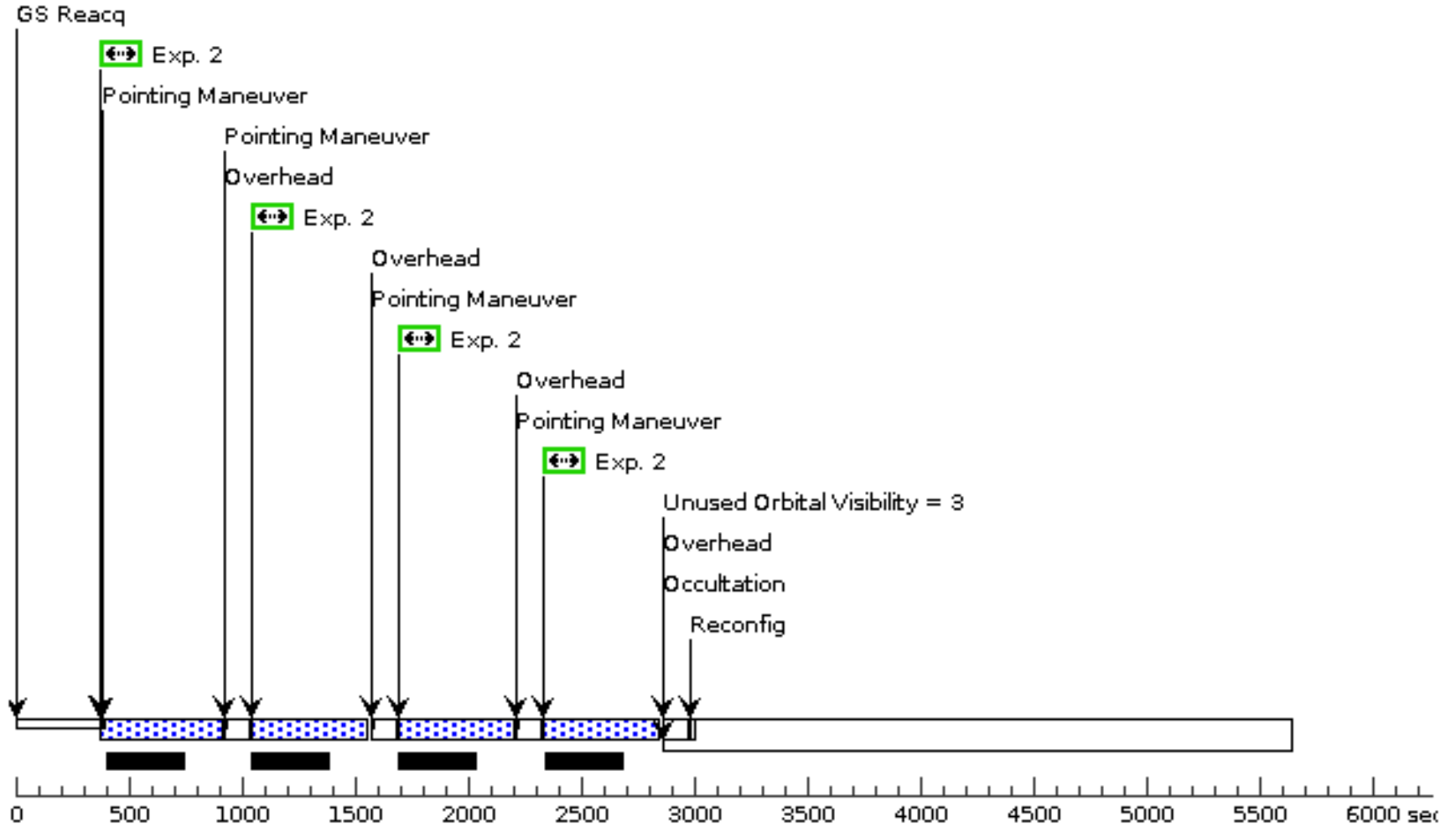
Proposal 17474 - MACS-J0417-SN (33) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitational...

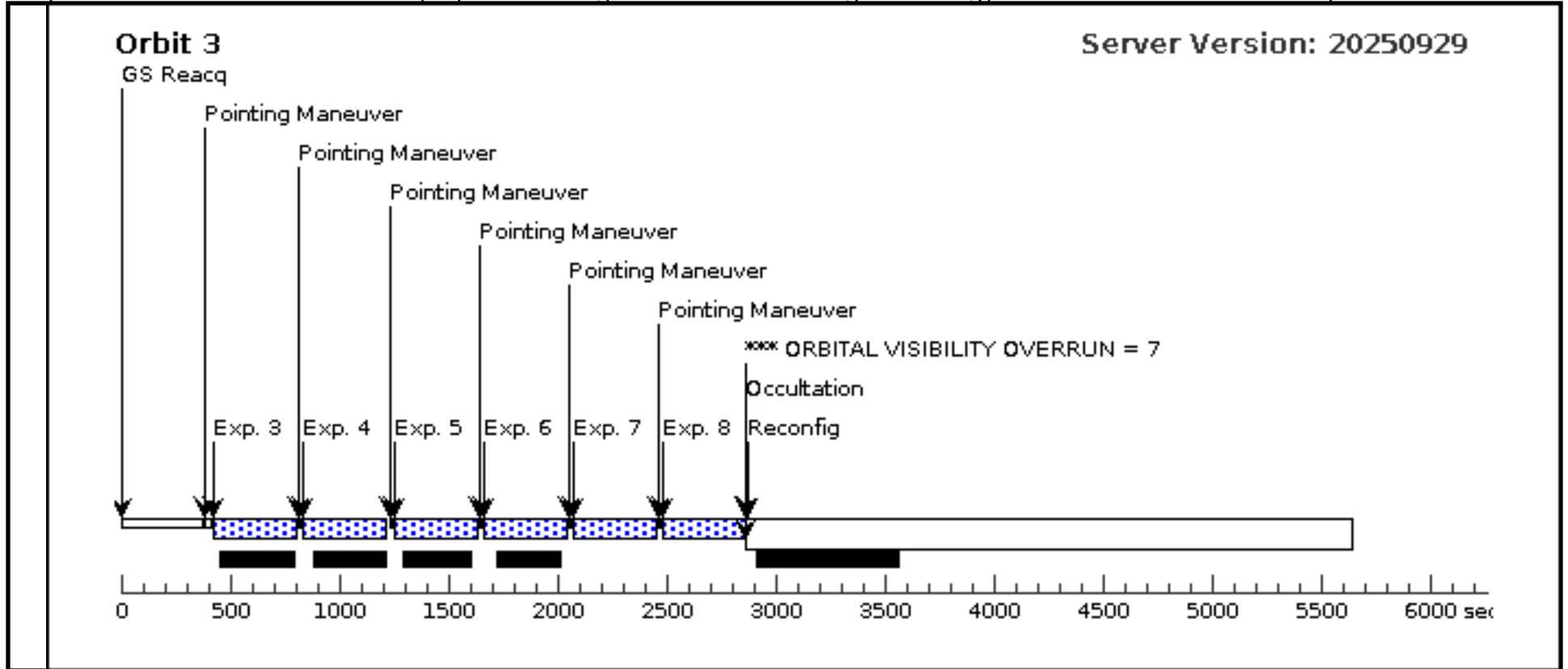
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	(11) MACS-J0417-S N	WFC3/UVIS, ACCUM, UVIS2	F814W	FLASH=5		Pattern 4, Exps 1-1 i n MACS-J0417-SN (33) (4)	520 Secs (2080 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	2	(11) MACS-J0417-S N	WFC3/UVIS, ACCUM, UVIS2	F606W	FLASH=3		Pattern 4, Exps 2-2 i n MACS-J0417-SN (33) (4)	515 Secs (2060 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]	
	3	F140W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0,0	Sequence 3-8 Non-Int in MACS-J0417-S N (33)	349.232932 Secs (349.233 Secs) [==>]	[3]
	4	F140W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.451,0. 403	Sequence 3-8 Non-Int in MACS-J0417-S N (33)	349.232932 Secs (349.233 Secs) [==>]	[3]
	5	F140W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG .474,.42 4	Sequence 3-8 Non-Int in MACS-J0417-S N (33)	349.232932 Secs (349.233 Secs) [==>]	[3]
	6	F105W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG .925,.82 7	Sequence 3-8 Non-Int in MACS-J0417-S N (33)	349.232932 Secs (349.233 Secs) [==>]	[3]
	7	F105W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 1.376,1. 230	Sequence 3-8 Non-Int in MACS-J0417-S N (33)	349.232932 Secs (349.233 Secs) [==>]	[3]
	8	F105W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.902,0. 806	Sequence 3-8 Non-Int in MACS-J0417-S N (33)	349.232932 Secs (349.233 Secs) [==>]	[3]



Orbit 2

Server Version: 20250929





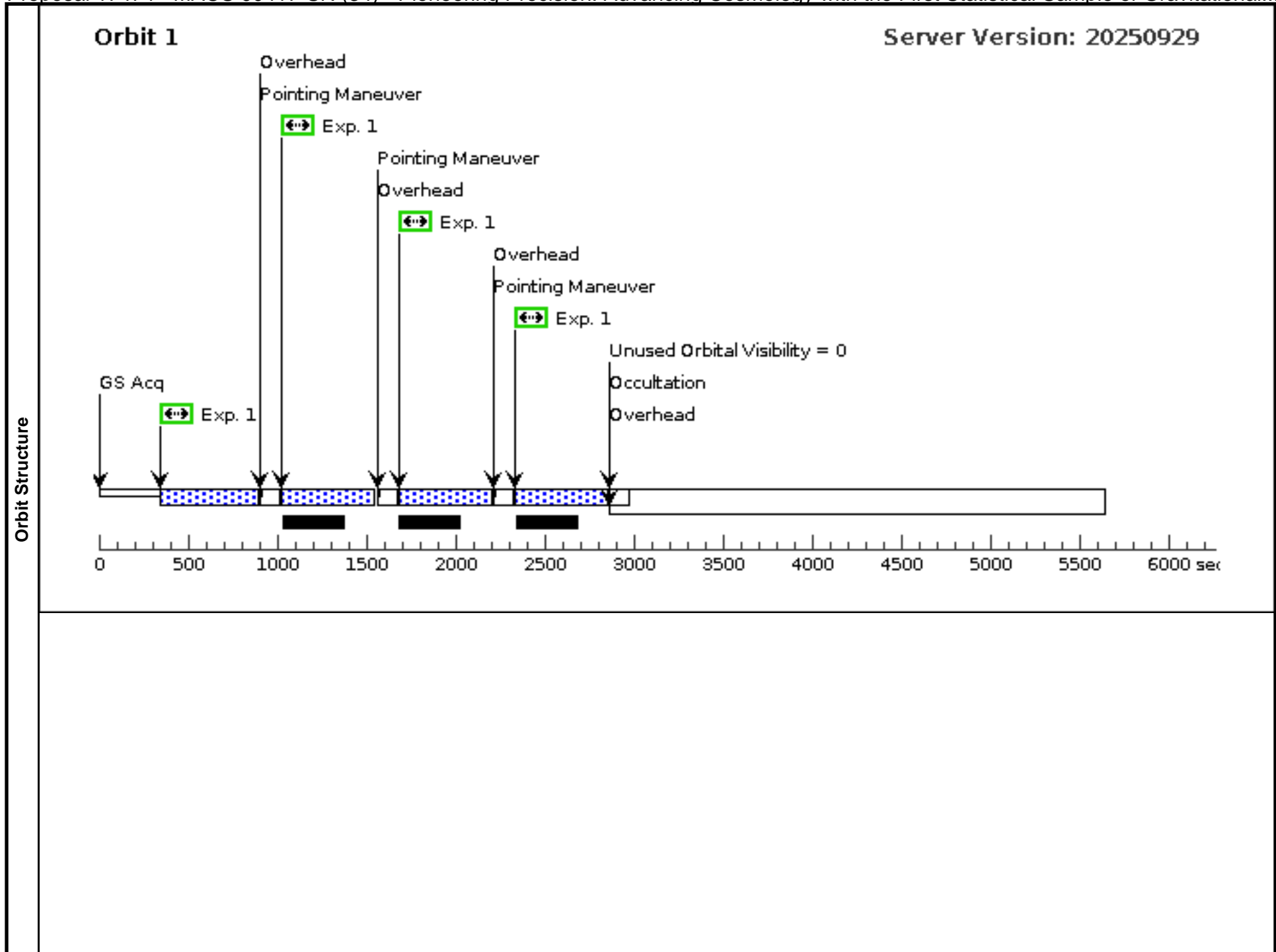
Proposal 17474 - MACS-J0417-SN (34) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitational...

Wed Dec 03 22:00:50 GMT 2025

Visit	Proposal 17474, MACS-J0417-SN (34), failed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 100%; AFTER 33 BY 6 D TO 12 D; TOO RESPONSE TIME 7.0D <i>Comments: Alternate orbit setup for a lower-z gLSN.</i>					
	Diagnosics (MACS-J0417-SN (34)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(4)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(11)	MACS-J0417-SN	RA: 04 17 35.1368 (64.3964033d) Dec: -11 54 25.36 (-11.90704d) Equinox: J2000		V=24+/-0.5	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA]						

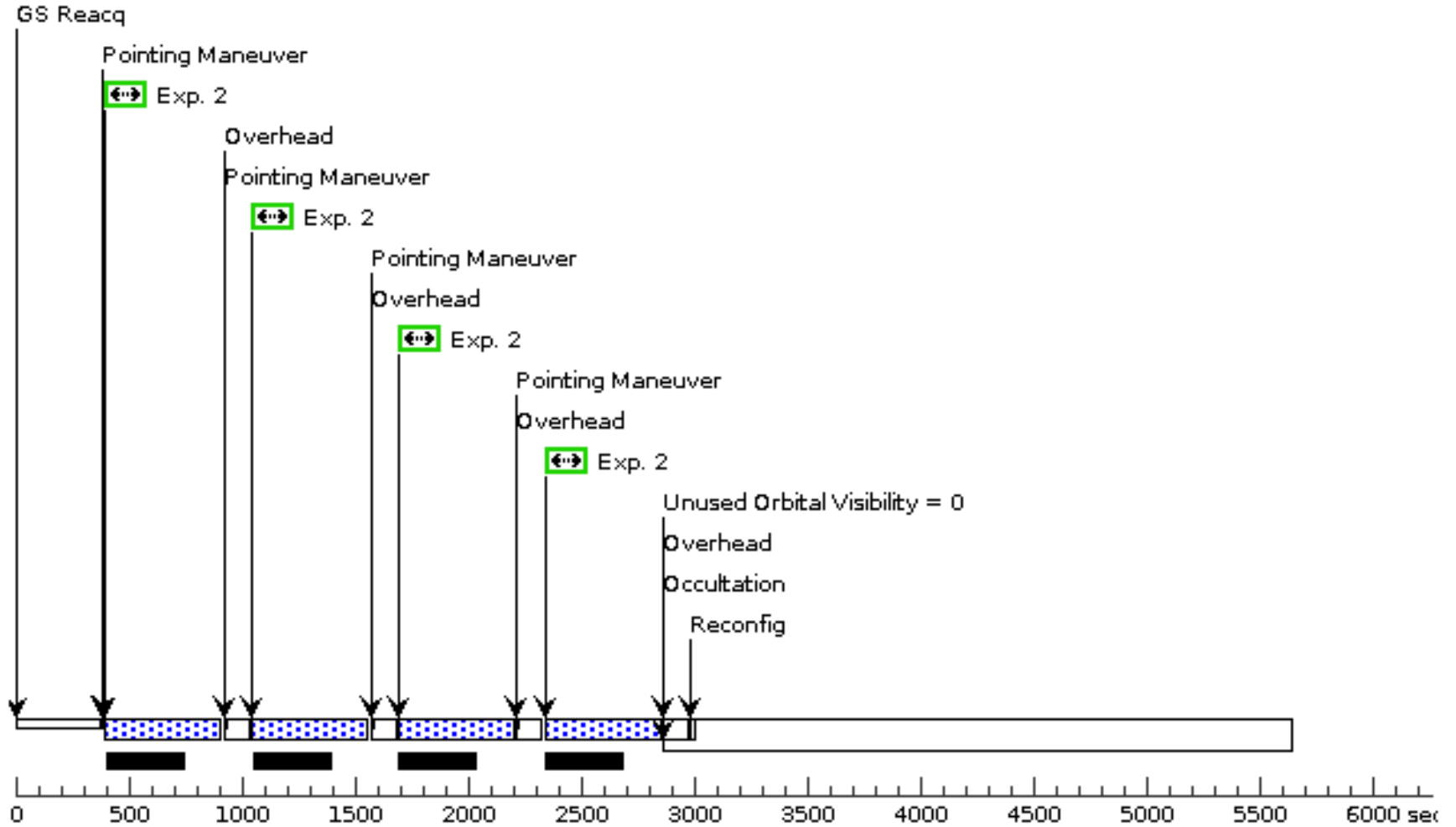
Proposal 17474 - MACS-J0417-SN (34) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitational...

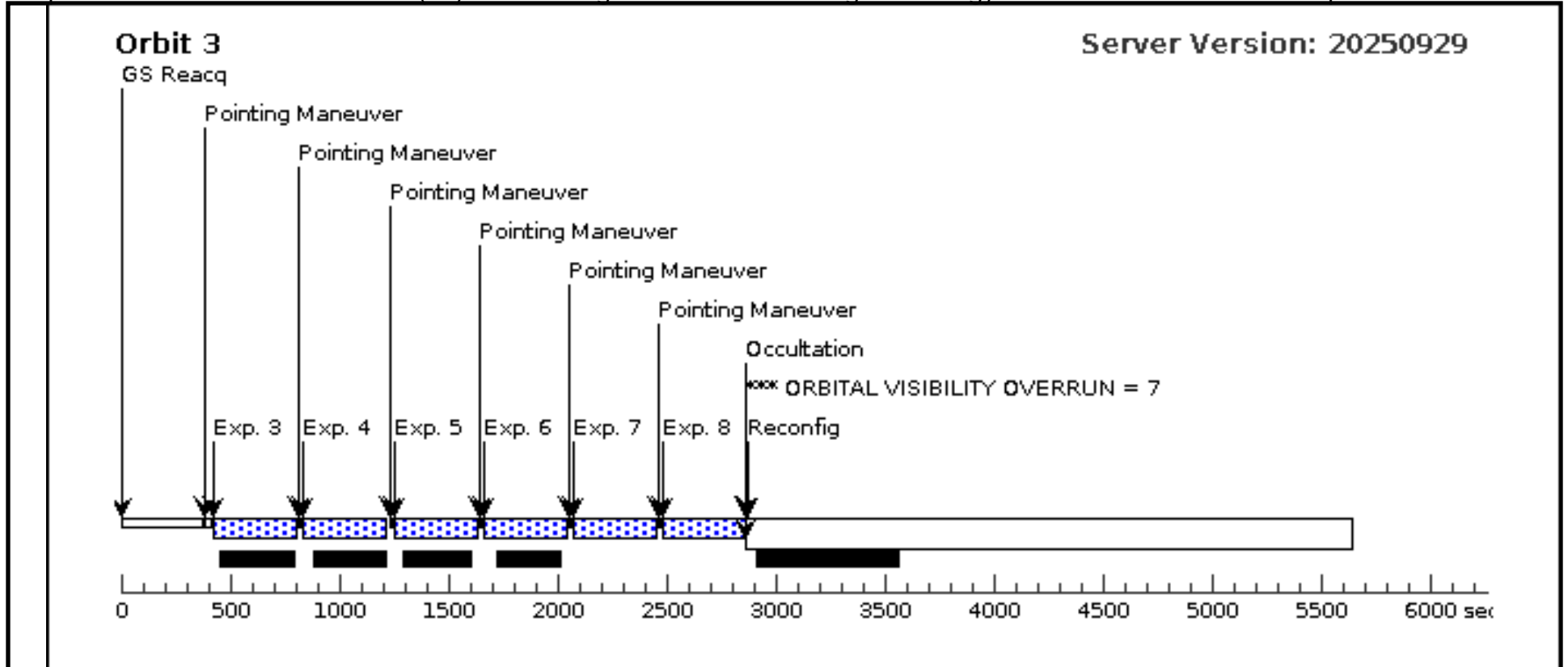
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	(11) MACS-J0417-S N	WFC3/UVIS, ACCUM, UVIS2	F814W	FLASH=5		Pattern 4, Exps 1-1 i n MACS-J0417-SN (34) (4)	520 Secs (2080 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	2	(11) MACS-J0417-S N	WFC3/UVIS, ACCUM, UVIS2	F814W	FLASH=5		Pattern 4, Exps 2-2 i n MACS-J0417-SN (34) (4)	515 Secs (2060 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]	
	3	F140W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0,0	Sequence 3-8 Non-Int in MACS-J0417-S N (34)	349.232932 Secs (349.233 Secs) [==>]	[3]
	4	F140W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.451,0. 403	Sequence 3-8 Non-Int in MACS-J0417-S N (34)	349.232932 Secs (349.233 Secs) [==>]	[3]
	5	F140W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG .474,.42 4	Sequence 3-8 Non-Int in MACS-J0417-S N (34)	349.232932 Secs (349.233 Secs) [==>]	[3]
	6	F105W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG .925,.82 7	Sequence 3-8 Non-Int in MACS-J0417-S N (34)	349.232932 Secs (349.233 Secs) [==>]	[3]
	7	F105W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 1.376,1. 230	Sequence 3-8 Non-Int in MACS-J0417-S N (34)	349.232932 Secs (349.233 Secs) [==>]	[3]
	8	F105W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.902,0. 806	Sequence 3-8 Non-Int in MACS-J0417-S N (34)	349.232932 Secs (349.233 Secs) [==>]	[3]



Orbit 2

Server Version: 20250929





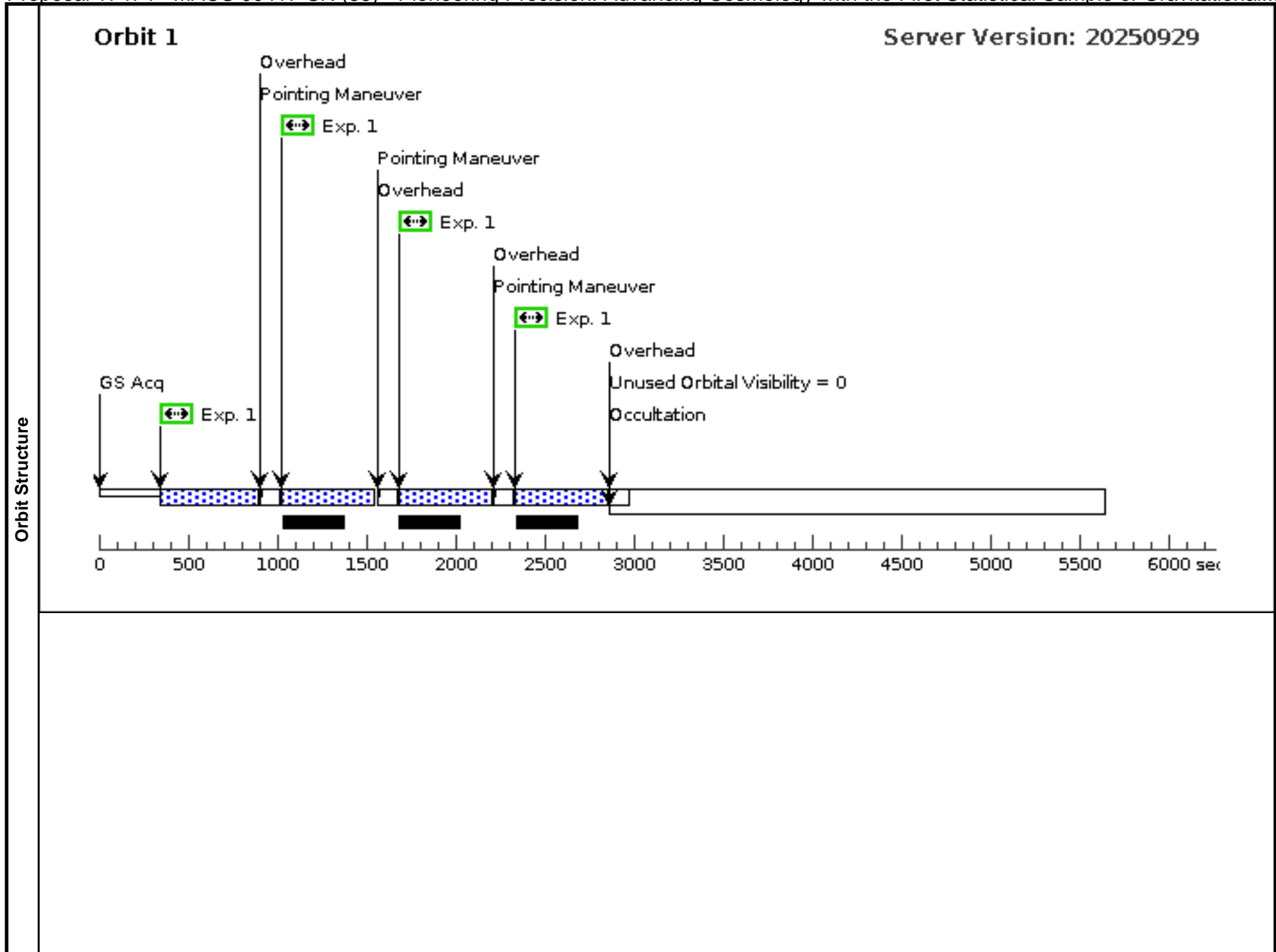
Proposal 17474 - MACS-J0417-SN (35) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitational...

Wed Dec 03 22:00:50 GMT 2025

Visit	Proposal 17474, MACS-J0417-SN (35), failed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 100%; AFTER 34 BY 6 D TO 12 D; TOO RESPONSE TIME 7.0D <i>Comments: Alternate orbit setup for a lower-z gLSN.</i>					
	Diagnosics (MACS-J0417-SN (35)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(4)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(11)	MACS-J0417-SN	RA: 04 17 35.1368 (64.3964033d) Dec: -11 54 25.36 (-11.90704d) Equinox: J2000		V=24+/-0.5	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA]						

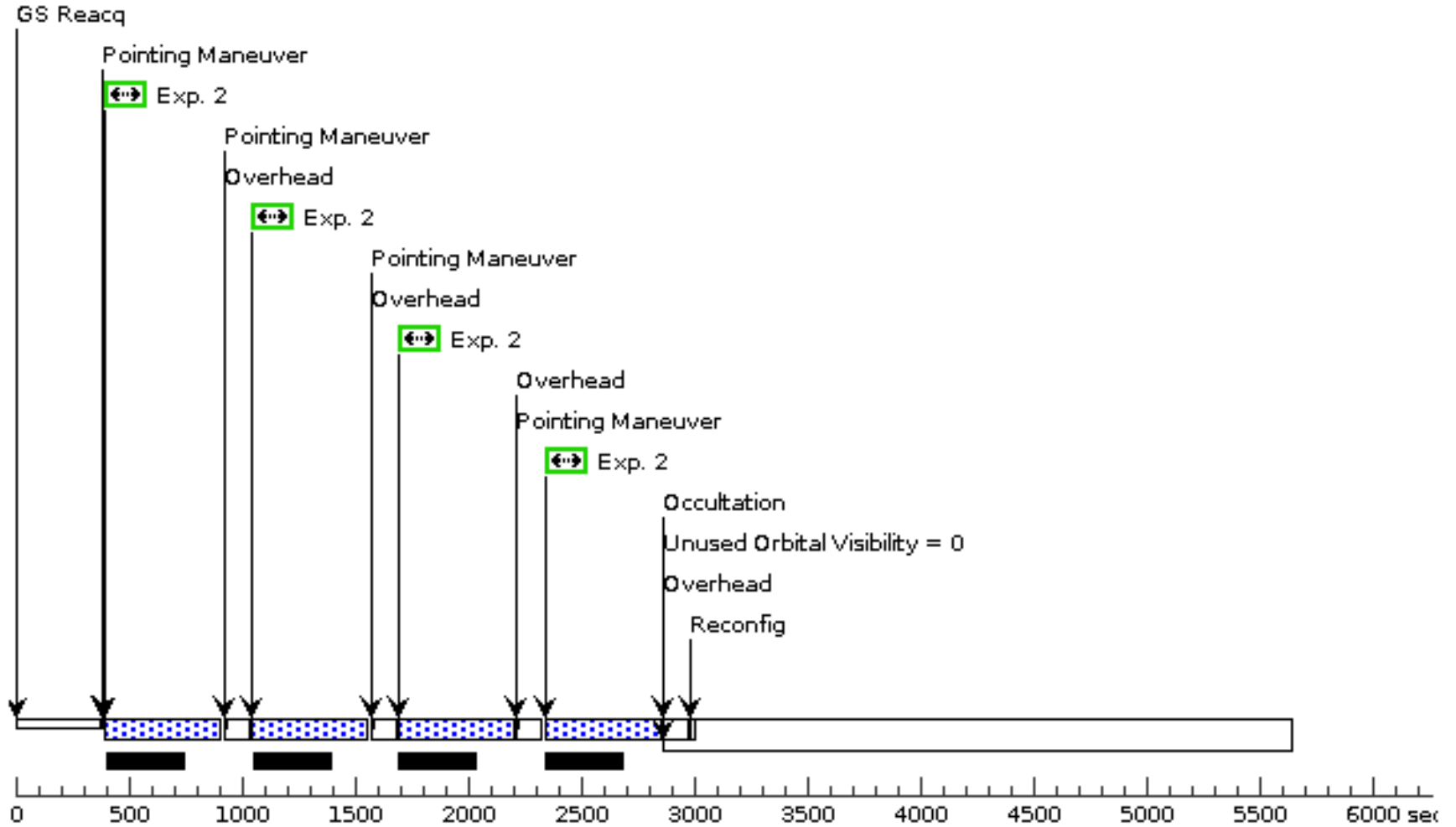
Proposal 17474 - MACS-J0417-SN (35) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitational...

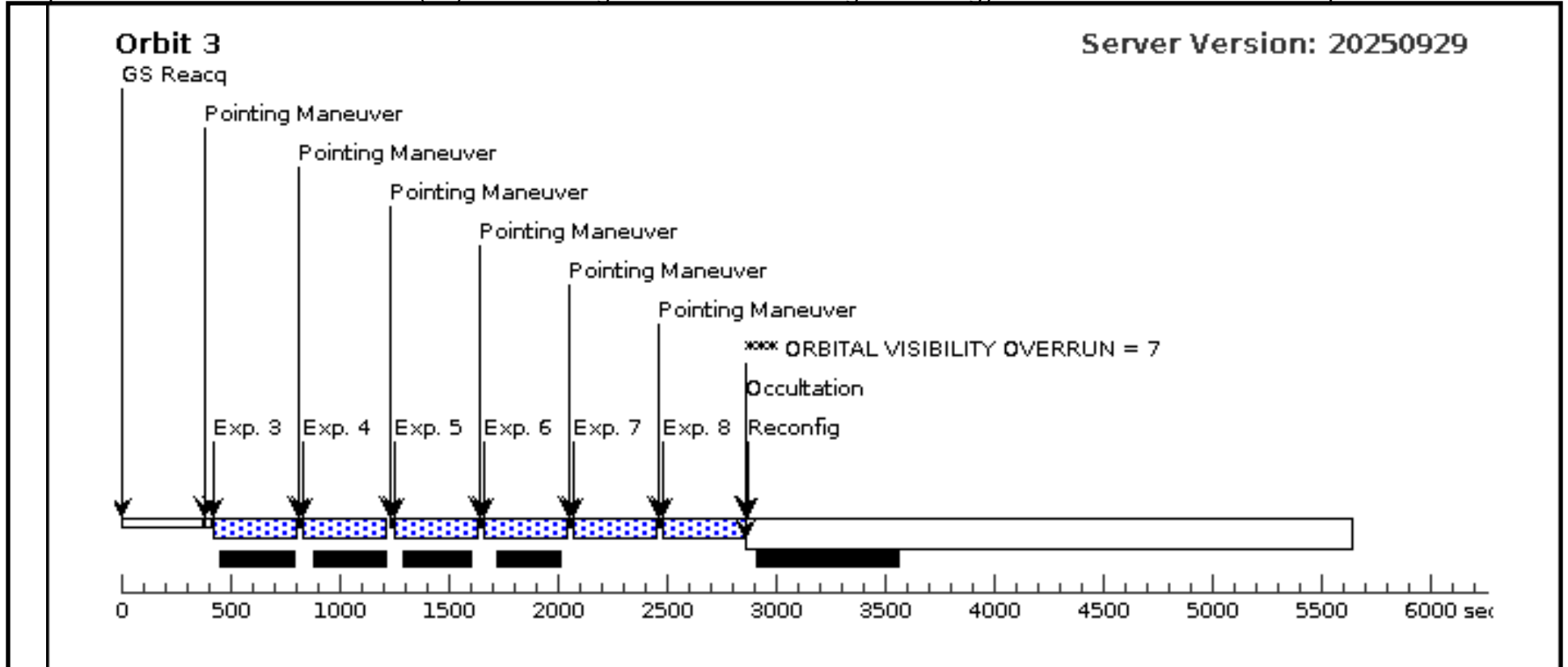
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	(11) MACS-J0417-S N	WFC3/UVIS, ACCUM, UVIS2	F814W	FLASH=5		Pattern 4, Exps 1-1 i n MACS-J0417-SN (35) (4)	520 Secs (2080 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	2	(11) MACS-J0417-S N	WFC3/UVIS, ACCUM, UVIS2	F814W	FLASH=5		Pattern 4, Exps 2-2 i n MACS-J0417-SN (35) (4)	515 Secs (2060 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]	
	3	F140W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0,0	Sequence 3-8 Non-Int in MACS-J0417-S N (35)	349.232932 Secs (349.233 Secs) [==>]	[3]
	4	F140W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.451,0. 403	Sequence 3-8 Non-Int in MACS-J0417-S N (35)	349.232932 Secs (349.233 Secs) [==>]	[3]
	5	F140W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG .474,.42 4	Sequence 3-8 Non-Int in MACS-J0417-S N (35)	349.232932 Secs (349.233 Secs) [==>]	[3]
	6	F105W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG .925,.82 7	Sequence 3-8 Non-Int in MACS-J0417-S N (35)	349.232932 Secs (349.233 Secs) [==>]	[3]
	7	F105W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 1.376,1. 230	Sequence 3-8 Non-Int in MACS-J0417-S N (35)	349.232932 Secs (349.233 Secs) [==>]	[3]
	8	F105W N	(11) MACS-J0417-S N	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP5 0	POS TARG 0.902,0. 806	Sequence 3-8 Non-Int in MACS-J0417-S N (35)	349.232932 Secs (349.233 Secs) [==>]	[3]



Orbit 2

Server Version: 20250929





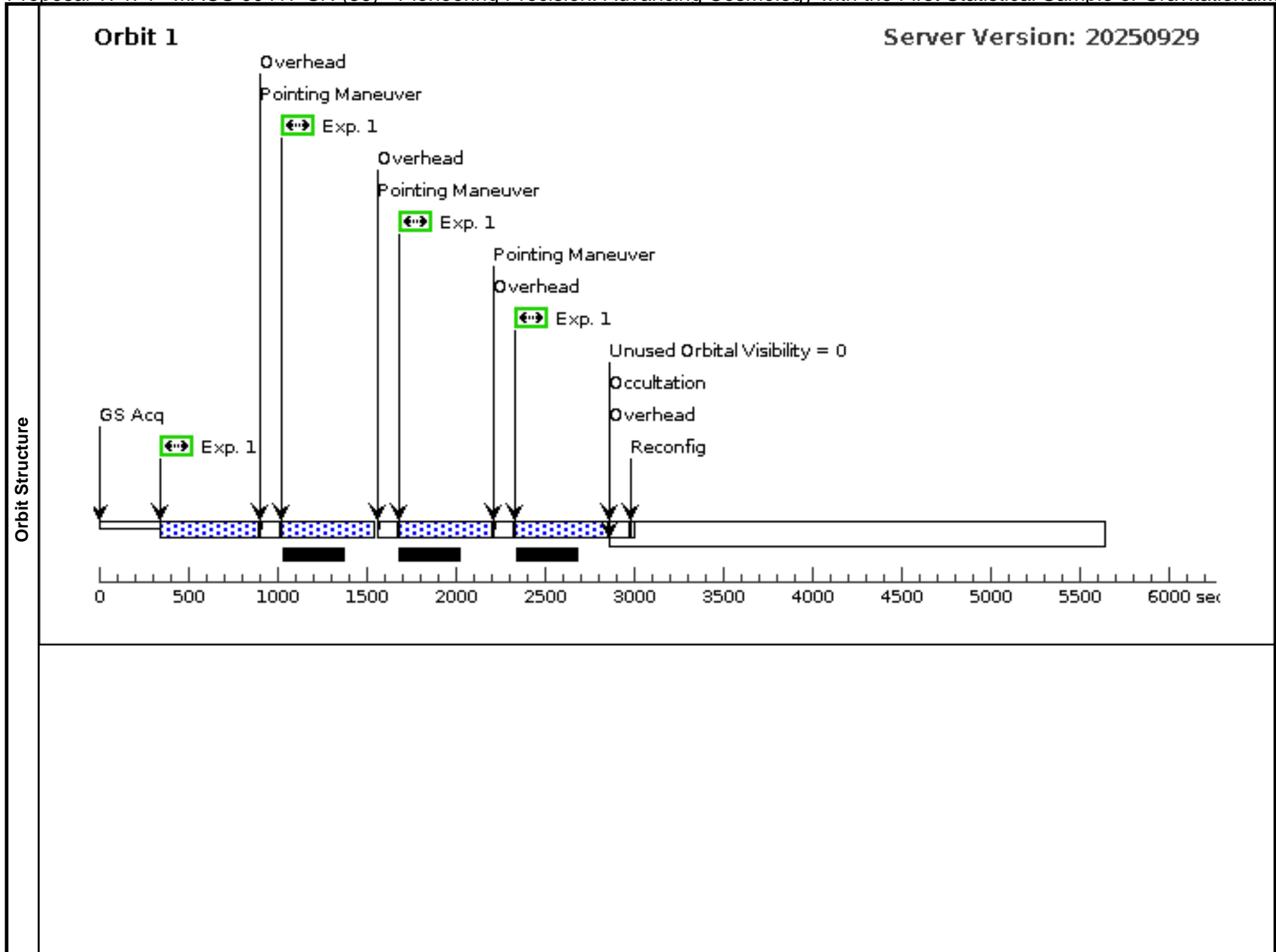
Proposal 17474 - MACS-J0417-SN (36) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitational...

Wed Dec 03 22:00:50 GMT 2025

Visit	Proposal 17474, MACS-J0417-SN (36), scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 100%; BETWEEN 10-DEC-2025:00:00:00 AND 18-DEC-2025:00:00:00; TOO RESPONSE TIME 7.0D <i>Comments: Alternate orbit setup for a lower-z gLSN.</i>					
	Diagnosics (MACS-J0417-SN (36)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(4)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(11)	MACS-J0417-SN	RA: 04 17 35.1368 (64.3964033d) Dec: -11 54 25.36 (-11.90704d) Equinox: J2000		V=24+/-0.5	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA]						

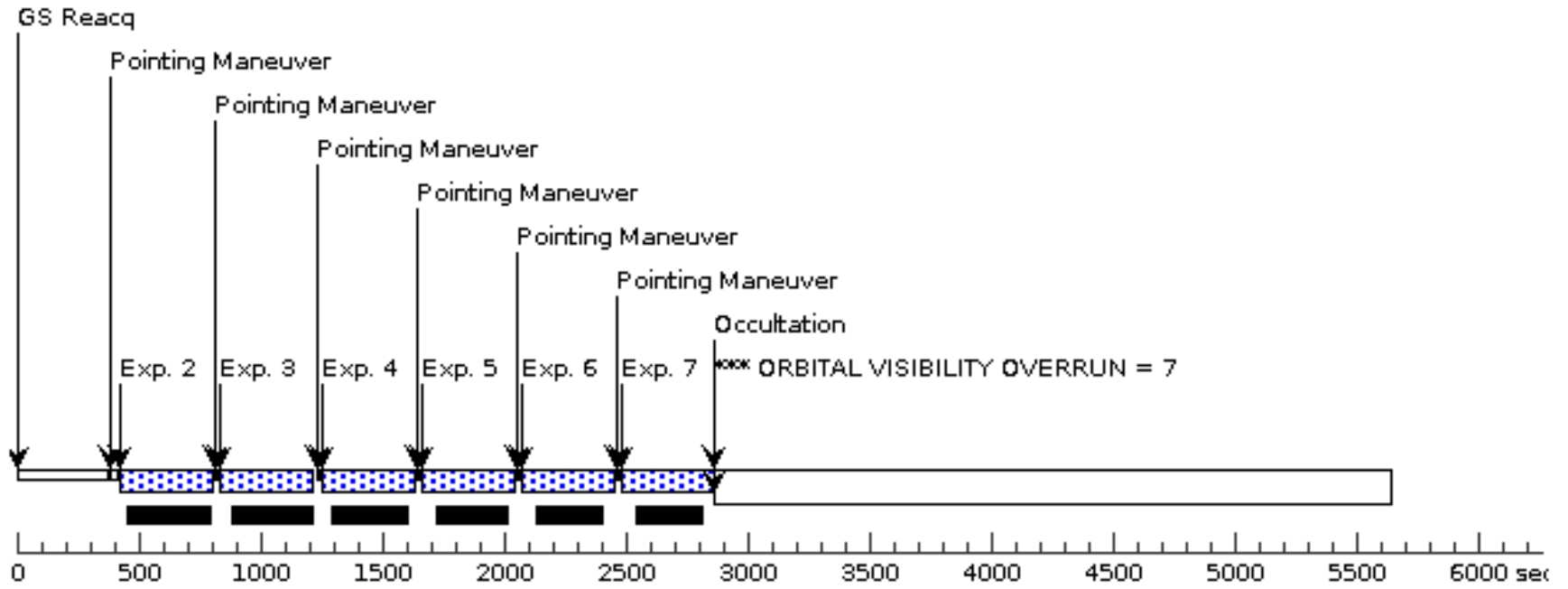
Proposal 17474 - MACS-J0417-SN (36) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitational...

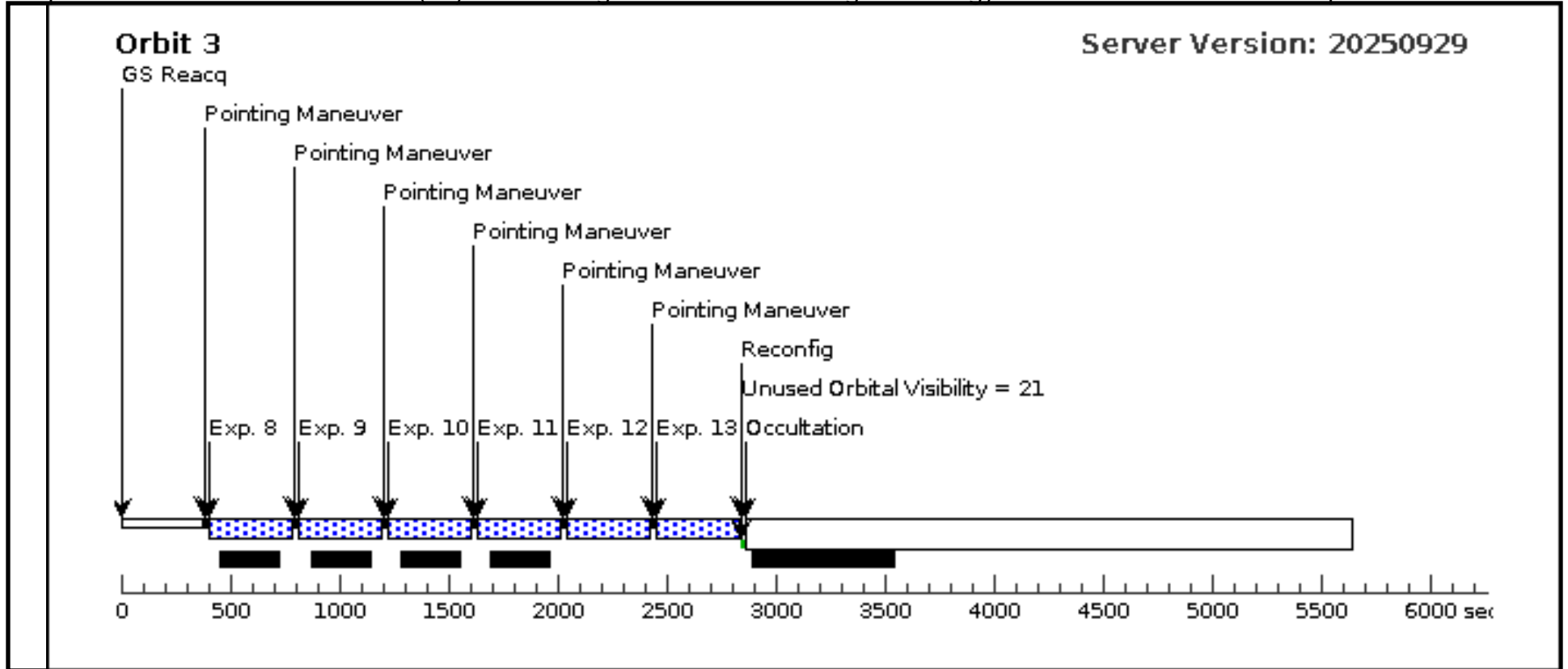
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	(11) MACS-J0417-SN	WFC3/UVIS, ACCUM, UVIS2	F814W	FLASH=5		Pattern 4, Exps 1-1 in MACS-J0417-SN (36) (4)	520 Secs (2080 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	2	F140W N	(11) MACS-J0417-S	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 2-7 Non-Int in MACS-J0417-SN (36)	349.232932 Secs (349.233 Secs) [==>]	[2]
	3	F140W N	(11) MACS-J0417-S	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0.451,0.403	Sequence 2-7 Non-Int in MACS-J0417-SN (36)	349.232932 Secs (349.233 Secs) [==>]	[2]
	4	F140W N	(11) MACS-J0417-S	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG .474,.42	Sequence 2-7 Non-Int in MACS-J0417-SN (36)	349.232932 Secs (349.233 Secs) [==>]	[2]
	5	F105W N	(11) MACS-J0417-S	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG .925,.82	Sequence 2-7 Non-Int in MACS-J0417-SN (36)	349.232932 Secs (349.233 Secs) [==>]	[2]
	6	F105W N	(11) MACS-J0417-S	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 1.376,1.230	Sequence 2-7 Non-Int in MACS-J0417-SN (36)	349.232932 Secs (349.233 Secs) [==>]	[2]
	7	F105W N	(11) MACS-J0417-S	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0.902,0.806	Sequence 2-7 Non-Int in MACS-J0417-SN (36)	349.232932 Secs (349.233 Secs) [==>]	[2]
	8	F140W N	(11) MACS-J0417-S	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 8-13 Non-Int in MACS-J0417-SN (36)	349.232932 Secs (349.233 Secs) [==>]	[3]
	9	F140W N	(11) MACS-J0417-S	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0.451,0.403	Sequence 8-13 Non-Int in MACS-J0417-SN (36)	349.232932 Secs (349.233 Secs) [==>]	[3]
	10	F140W N	(11) MACS-J0417-S	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG .474,.42	Sequence 8-13 Non-Int in MACS-J0417-SN (36)	349.232932 Secs (349.233 Secs) [==>]	[3]
	11	F105W N	(11) MACS-J0417-S	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG .925,.82	Sequence 8-13 Non-Int in MACS-J0417-SN (36)	349.232932 Secs (349.233 Secs) [==>]	[3]
	12	F105W N	(11) MACS-J0417-S	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 1.376,1.230	Sequence 8-13 Non-Int in MACS-J0417-SN (36)	349.232932 Secs (349.233 Secs) [==>]	[3]
	13	F105W N	(11) MACS-J0417-S	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0.902,0.806	Sequence 8-13 Non-Int in MACS-J0417-SN (36)	349.232932 Secs (349.233 Secs) [==>]	[3]



Orbit 2

Server Version: 20250929





Proposal 17474 - MACS-J0417-SN (37) - Pioneering Precision: Advancing Cosmology with the First Statistical Sample of Gravitational...

Wed Dec 03 22:00:50 GMT 2025

Visit	Proposal 17474, MACS-J0417-SN (37) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; BETWEEN 21-DEC-2025:00:00:00 AND 30-DEC-2025:00:00:00; TOO RESPONSE TIME 7.0D Comments: Alternate orbit setup for a lower-z gLSN.									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(11)	MACS-J0417-SN	RA: 04 17 35.1368 (64.3964033d) Dec: -11 54 25.36 (-11.90704d) Equinox: J2000			V=24+/-5	Reference Frame: ICRS			
	Comments: Category=EXT-STAR Description=[SUPERNOVA]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F140W	(11) MACS-J0417-SN	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-6 Non-Int in MACS-J0417-SN (37)	349.232932 Secs (349.233 Secs) [==>]	[1]
	2	F140W	(11) MACS-J0417-SN	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0.451,0.403	Sequence 1-6 Non-Int in MACS-J0417-SN (37)	349.232932 Secs (349.233 Secs) [==>]	[1]
	3	F140W	(11) MACS-J0417-SN	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG .474,.424	Sequence 1-6 Non-Int in MACS-J0417-SN (37)	349.232932 Secs (349.233 Secs) [==>]	[1]
	4	F105W	(11) MACS-J0417-SN	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG .925,.827	Sequence 1-6 Non-Int in MACS-J0417-SN (37)	349.232932 Secs (349.233 Secs) [==>]	[1]
	5	F105W	(11) MACS-J0417-SN	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 1.376,1.230	Sequence 1-6 Non-Int in MACS-J0417-SN (37)	349.232932 Secs (349.233 Secs) [==>]	[1]
	6	F105W	(11) MACS-J0417-SN	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0.902,0.806	Sequence 1-6 Non-Int in MACS-J0417-SN (37)	349.232932 Secs (349.233 Secs) [==>]	[1]
	7	F140W	(11) MACS-J0417-SN	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 7-12 Non-Int in MACS-J0417-SN (37)	349.232932 Secs (349.233 Secs) [==>]	[2]
	8	F140W	(11) MACS-J0417-SN	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0.451,0.403	Sequence 7-12 Non-Int in MACS-J0417-SN (37)	349.232932 Secs (349.233 Secs) [==>]	[2]
	9	F140W	(11) MACS-J0417-SN	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG .474,.424	Sequence 7-12 Non-Int in MACS-J0417-SN (37)	349.232932 Secs (349.233 Secs) [==>]	[2]
	10	F105W	(11) MACS-J0417-SN	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG .925,.827	Sequence 7-12 Non-Int in MACS-J0417-SN (37)	349.232932 Secs (349.233 Secs) [==>]	[2]
	11	F105W	(11) MACS-J0417-SN	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 1.376,1.230	Sequence 7-12 Non-Int in MACS-J0417-SN (37)	349.232932 Secs (349.233 Secs) [==>]	[2]
12	F105W	(11) MACS-J0417-SN	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=12; SAMP-SEQ=STEP50	POS TARG 0.902,0.806	Sequence 7-12 Non-Int in MACS-J0417-SN (37)	349.232932 Secs (349.233 Secs) [==>]	[2]	

