



17730 - Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field

Cycle: 32, Proposal Category: GO
(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
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Dr. Joel Leja (CoI)	The Pennsylvania State University
Prof. Ivo Labbe (CoI)	Swinburne University of Technology
Dr. Christina C Williams (CoI)	University of Arizona
Prof. Marijn Franx (CoI) (ESA Member)	Universiteit Leiden
Prof. Danilo Marchesini (CoI)	Tufts University
Prof. Mariska Kriek (CoI) (ESA Member)	
Prof. Pieter van Dokkum (CoI)	Yale University
Prof. Pascal Oesch (CoI) (ESA Member)	University of Geneva, Department of Astronomy
Dr. Gabriel Brammer (CoI) (ESA Member)	University of Copenhagen, Niels Bohr Institute
Dr. John R. Weaver (CoI)	University of Massachusetts - Amherst
Dr. Gourav Khullar (CoI)	University of Washington
Dr. Bingjie Wang (CoI)	Princeton University
Lamiya Mowla (CoI)	Wellesley College
Dr. Pratika Dayal (CoI) (ESA Member)	Kapteyn Astronomical Institute
Dr. Casey Papovich (CoI)	Texas A & M University
Dr. Susan Kassin (CoI)	Space Telescope Science Institute
Dr. Dan Coe (CoI) (ESA Member)	Space Telescope Science Institute - ESA - JWST
Prof. Karl Glazebrook (CoI)	Swinburne University of Technology

Proposal 17730 (STScI Edit Number: 1, Created: Tuesday, May 6, 2025, 8:00:25AM Eastern Standard Time) - Overview

<i>Name</i>	<i>Institution</i>
Prof. Adi Zitrin (CoI)	Ben-Gurion University of the Negev
Dr. Hakim Atek (CoI) (ESA Member)	CNRS, Institut d'Astrophysique de Paris
Prof. Michael Maseda (CoI)	University of Wisconsin - Madison
Prof. Erica Nelson (CoI)	University of Colorado at Boulder
Prof. Jenny Emma Greene (CoI)	Princeton University
Dr. Themiya Nanayakkara (CoI)	Swinburne University of Technology
Dr. N. M. Forster Schreiber (CoI) (ESA Member)	Max Planck Institute for Extraterrestrial Physics
Dr. Sedona H. Price (CoI)	University of Pittsburgh
Prof. Alice E. Shapley (CoI)	University of California - Los Angeles
Prof. Robert Feldmann (CoI) (ESA Member)	Universitat Zurich
Dr. Adam Muzzin (CoI) (CSA Member)	York University
Dr. Camilla Pacifici (CoI)	Space Telescope Science Institute
Dr. Mauro Stefanon (CoI) (ESA Member)	Universitat de Valencia
Dr. Stephanie Juneau (CoI)	NOIRLab - (AZ)
Dr. Edward N Taylor (CoI)	Swinburne University of Technology
Dr. Anna G de Graaff (CoI)	Harvard University
Dr. Renske Smit (CoI) (ESA Member)	Liverpool John Moores University
Mr. James Esdaile (CoI)	Swinburne University of Technology
Dr. David Setton (CoI)	Princeton University
Mr. Jiaxuan Li (CoI)	Princeton University
Dr. Jorryt Matthee (CoI) (ESA Member)	Institute of Science and Technology Austria
Dr. Seiji Fujimoto (CoI) (CSA Member)	University of Toronto
Dr. Katherine Suess (CoI)	University of Colorado at Boulder
Sam Edward Cutler (CoI)	University of Massachusetts - Amherst

VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
11	(1) ABELL2744-PRI-NIRCAM-1	WFC3/UVIS	3	06-May-2025 09:00:13.0	yes
12	(1) ABELL2744-PRI-NIRCAM-1	WFC3/UVIS	3	06-May-2025 09:00:13.0	yes
13	(1) ABELL2744-PRI-NIRCAM-1	WFC3/UVIS	3	06-May-2025 09:00:14.0	yes

Proposal 17730 (STScI Edit Number: 1, Created: Tuesday, May 6, 2025, 8:00:25AM Eastern Standard Time) - Overview

<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>
14	(1) ABELL2744-PRI-NIRCAM-1	WFC3/UVIS	3	06-May-2025 09:00:14.0	yes
15	(1) ABELL2744-PRI-NIRCAM-1	WFC3/UVIS	3	06-May-2025 09:00:15.0	yes
16	(1) ABELL2744-PRI-NIRCAM-1	WFC3/UVIS	3	06-May-2025 09:00:15.0	yes
21	(2) ABELL2744-PRI-NIRCAM-2	WFC3/UVIS	3	06-May-2025 09:00:16.0	yes
22	(2) ABELL2744-PRI-NIRCAM-2	WFC3/UVIS	3	06-May-2025 09:00:16.0	yes
23	(2) ABELL2744-PRI-NIRCAM-2	WFC3/UVIS	3	06-May-2025 09:00:17.0	yes
24	(2) ABELL2744-PRI-NIRCAM-2	WFC3/UVIS	3	06-May-2025 09:00:17.0	yes
25	(2) ABELL2744-PRI-NIRCAM-2	WFC3/UVIS	3	06-May-2025 09:00:18.0	yes
26	(2) ABELL2744-PRI-NIRCAM-2	WFC3/UVIS	3	06-May-2025 09:00:18.0	yes
31	(3) ABELL2744-PRI-NIRCAM-3	WFC3/UVIS	3	06-May-2025 09:00:19.0	yes
32	(3) ABELL2744-PRI-NIRCAM-3	WFC3/UVIS	3	06-May-2025 09:00:20.0	yes
33	(3) ABELL2744-PRI-NIRCAM-3	WFC3/UVIS	3	06-May-2025 09:00:20.0	yes
34	(3) ABELL2744-PRI-NIRCAM-3	WFC3/UVIS	3	06-May-2025 09:00:21.0	yes
35	(3) ABELL2744-PRI-NIRCAM-3	WFC3/UVIS	3	06-May-2025 09:00:21.0	yes
36	(3) ABELL2744-PRI-NIRCAM-3	WFC3/UVIS	3	06-May-2025 09:00:22.0	yes
41	(4) ABELL2744-PRI-NIRCAM-4	WFC3/UVIS	3	06-May-2025 09:00:22.0	yes
42	(4) ABELL2744-PRI-NIRCAM-4	WFC3/UVIS	3	06-May-2025 09:00:23.0	yes
43	(4) ABELL2744-PRI-NIRCAM-4	WFC3/UVIS	3	06-May-2025 09:00:23.0	yes
44	(4) ABELL2744-PRI-NIRCAM-4	WFC3/UVIS	3	06-May-2025 09:00:24.0	yes
45	(4) ABELL2744-PRI-NIRCAM-4	WFC3/UVIS	3	06-May-2025 09:00:24.0	yes
46	(4) ABELL2744-PRI-NIRCAM-4	WFC3/UVIS	3	06-May-2025 09:00:25.0	yes

72 Total Orbits Used

ABSTRACT

Hubble Frontier Field Abell 2744 is one of the most powerful known gravitational lensing clusters, with the largest high magnification area among HST observed clusters. In Cycles 1-3, JWST programs are obtaining >300 hours of imaging and spectroscopy over Abell 2744, mapping the entire

Proposal 17730 (STScI Edit Number: 1, Created: Tuesday, May 6, 2025, 8:00:25AM Eastern Standard Time) - Overview

high magnification area, constituting the mission's deepest, and crucially, fully public extragalactic dataset. With JWST imaging reaching 29-30AB in 20 filters at 1-5 micron (not counting the extra lensing boost), ultra-deep JWST NIRISS+NIRSpec+WFSS spectroscopy, plus deep ALMA dust continuum, MUSE datacubes, and Chandra X-ray observations, Abell 2744 is a peerless legacy field.

This treasure trove of data presents an unprecedented opportunity to answer high-profile reionization questions only addressable with HST UV imaging. Here, we propose an immediately-public HST program to supplement currently-inadequate HST coverage by providing ultra-deep WFC3/UVIS (F336W) imaging over a 4x wider area, matching the full coverage of the JWST spectroscopy. The proposed F336W data enables measurements of Lyman continuum and ionizing photon escape fractions in $z=3-4$ sources (analogs to epoch of reionization galaxies) to unambiguously determine the role of galaxies in reionization. This data will also improve constraints on the UV luminosity function, star formation in quiescent galaxies, the metallicity of globular clusters within A2744, and the origin of the UV upturn in foreground cluster galaxies.

These observations must be taken now to leverage the unique and time-limited UV capabilities of HST and maximize the potential of a remarkable suite of observations from HST, JWST, ALMA, and Chandra.

OBSERVING DESCRIPTION

[Updated for Phase II]

The roll angle constraints ensure that the WFC3/UVIS images map the largest possible coverage of the JWST data, including the full $\mu > 2$ region, in 4 pointings. There are two windows that have schedulability and would be sufficient (ideally 350-360, else 260-270). Small adjustments to the 4 pointing positions may be necessary depending on the PA scheduled. We include both windows to allow maximum flexibility in scheduling.

There is a trade-off with UV imaging between long exposures to mitigate against the necessary penalty with increased backgrounds due to the post-flash (i.e., minimize read noise) and the accumulation of cosmic rays. Nominally we would use a single long exposure per orbit, however we are worried that the single gyro mode might complicate the astrometry from orbit to orbit. We therefore opt to group our observations into 3-orbit visits with 2 exposures per orbit, using the WFC3-UVIS-DITHER-LINE-3PT pattern. Each of the 6 visits to a pointing are then shifted in the x- and y-direction by 0.5 arcsec using POS TARG within each dual exposure set to ensure we cover the chip gap and mitigate striping effects in the data. Together with the position offsets and the dither pattern, we should fully sample the PSF, cover the UVIS chip gap, and correct for the hot pixels and background defect patterns. However, given each orbit requires a guide star acquisition, our total exposure times are reduced by ~10%.

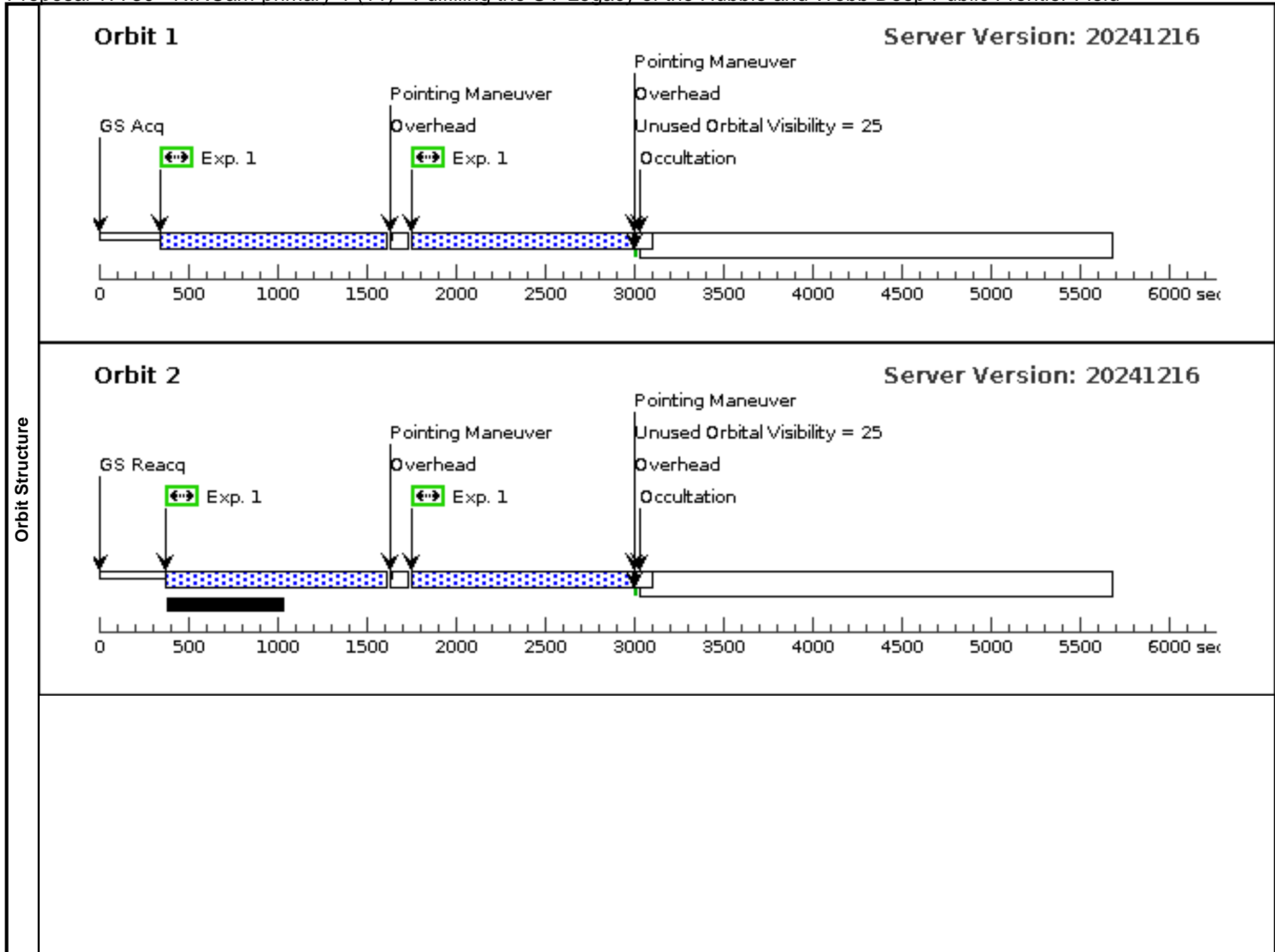
Proposal 17730 (STScI Edit Number: 1, Created: Tuesday, May 6, 2025, 8:00:25AM Eastern Standard Time) - Overview

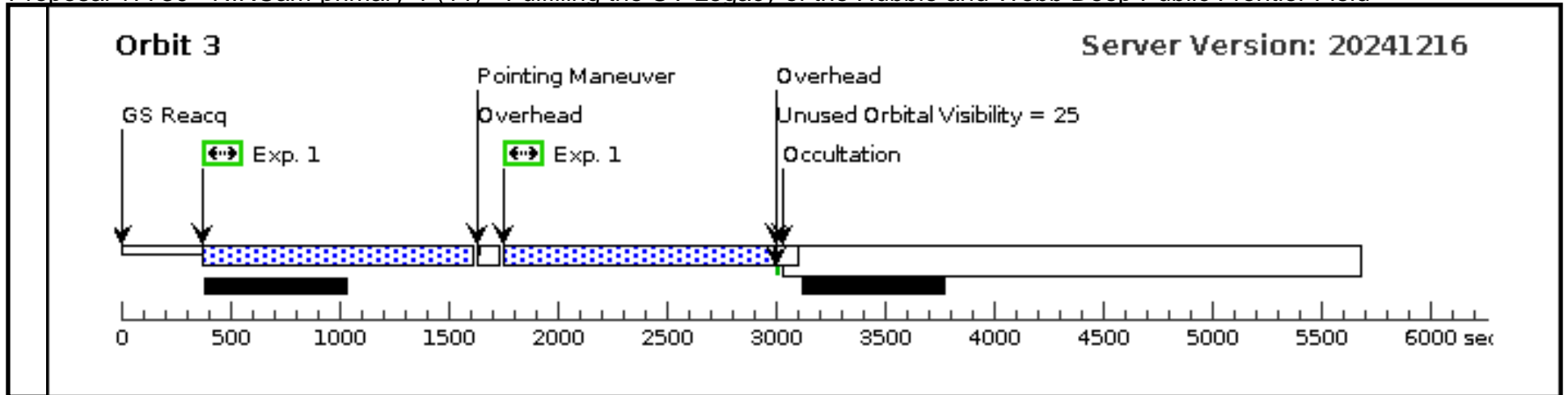
Post-flash will be used (FLASH = 13 e-/pix) to optimize charge transfer efficiency in the detector. We will mitigate the removal of cosmic rays by leveraging the dither pattern and pre-existing data.

Proposal 17730 - NIRCcam-primary-1 (11) - Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field

Tue May 06 13:00:25 GMT 2025

Visit	Proposal 17730, NIRCcam-primary-1 (11), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 260D TO 270 D <i>Comments: [POINTING 1] 3-orbit block with 3-point dither line pattern starting at +1 arcsec and each subsequent 3-orbit visit is offset in x+y by -0.5 arcsec to cover the UVIS chip gap and mitigate striping. Each orbit is split in 2 to mitigate possible issues with astrometry recovery. 3-orbit x 6 visits = 18 orbits per primary pointing.</i>									
	Diagnosics (Exposure 1 (Pattern 3, Exps 1-1 in NIRCcam-primary-1 (11)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
	(3)	Pattern Type=WFC3-UVIS-GAP-LINE Purpose=MOSAIC Number Of Points=2 Point Spacing=2.414 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.759 Angle Between Sides= Center Pattern=true	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	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	ABELL2744-PRI-NIRCAM-1	RA: 00 14 25.8533 (3.6077221d) Dec: -30 23 0.76 (-30.38354d) Equinox: J2000	Epoch of Position: 2015.5	V=24	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=CLUSTER OF GALAXIES Description=[HIGH REDSHIFT CLUSTER]</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) ABELL2744-PRI-NIRCAM-1	(1) ABELL2744-PRI-NIRCAM-1	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=14	POS TARG 1.0,1.0	Pattern 3, Exps 1-1 in NIRCcam-primary-1 (11) (3)	1245 Secs (7470 Secs)	
									[=>(Pattern 1,1)]	[1]
									[=>(Pattern 1,2)]	[2]
									[=>(Pattern 1,3)]	[3]
								[=>(Pattern 2,1)]	[2]	
								[=>(Pattern 2,2)]	[3]	
								[=>(Pattern 2,3)]	[3]	

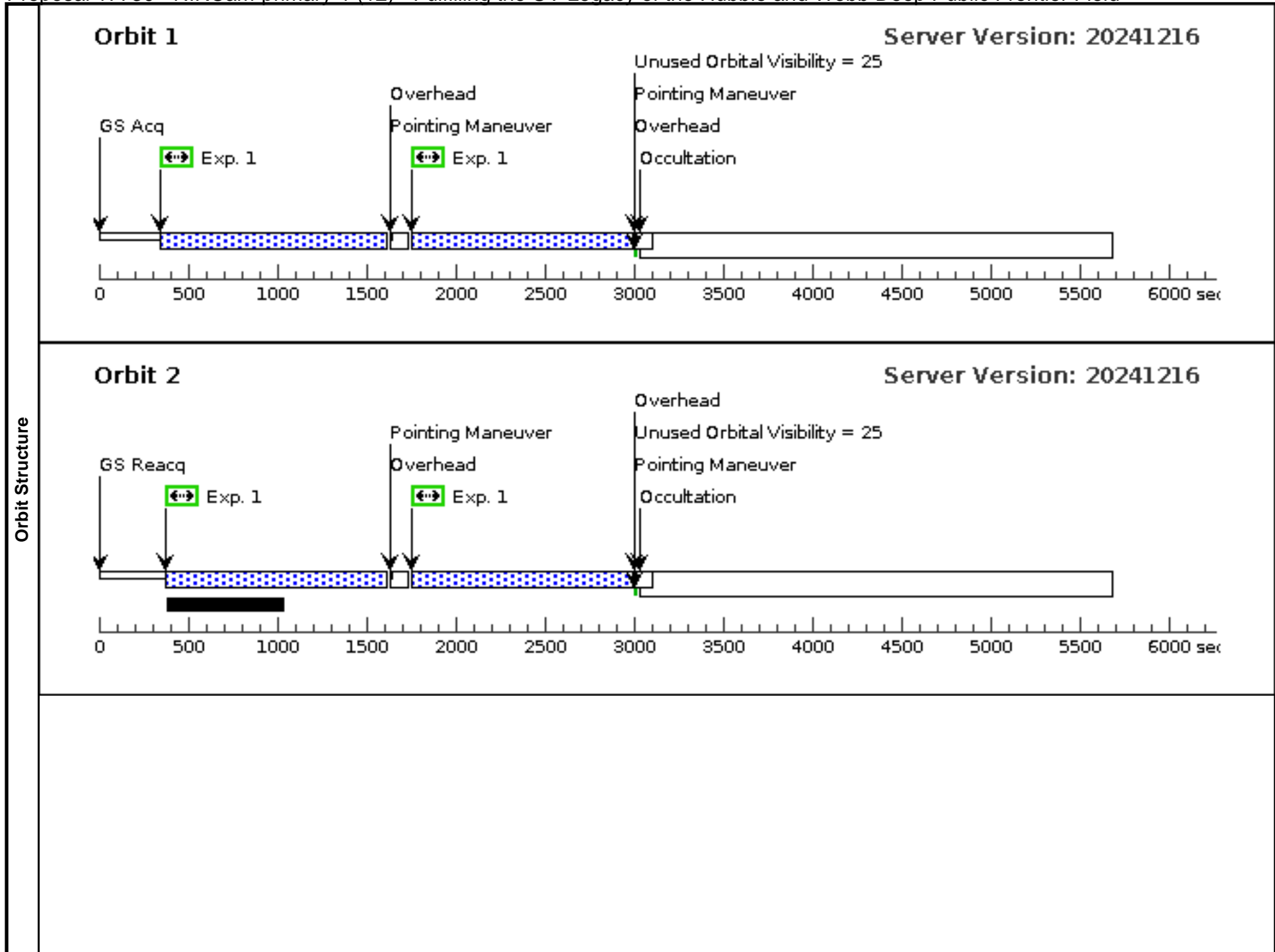


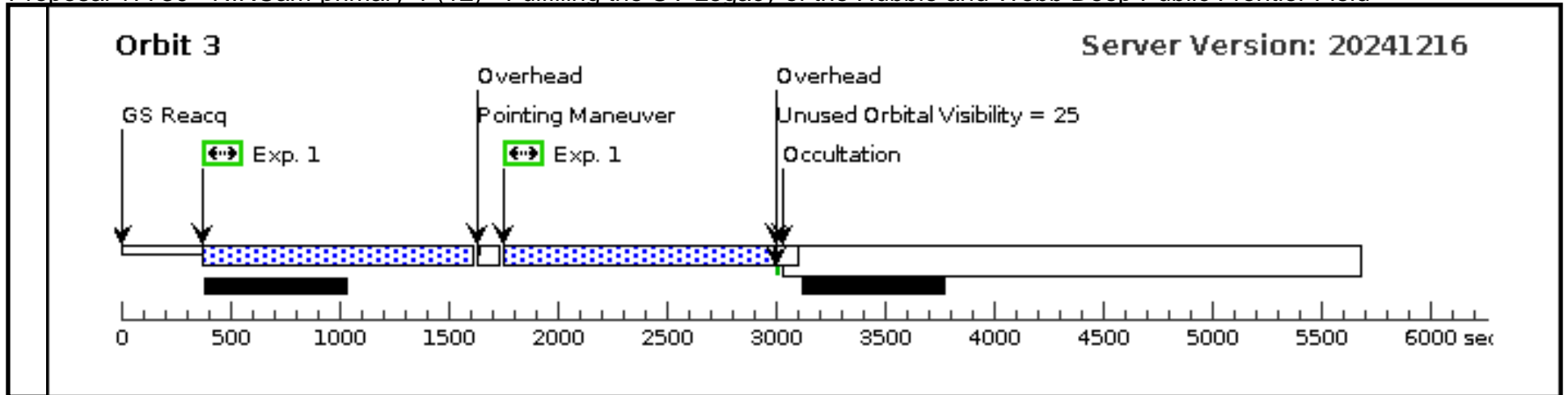


Proposal 17730 - NIRCcam-primary-1 (12) - Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field

Tue May 06 13:00:25 GMT 2025

Visit	Proposal 17730, NIRCcam-primary-1 (12), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 11									
	(Exposure 1 (Pattern 3, Exps 1-1 in NIRCcam-primary-1 (12)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(3)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	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=	(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	ABELL2744-PRI-NIRCAM-1	RA: 00 14 25.8533 (3.6077221d) Dec: -30 23 0.76 (-30.38354d) Equinox: J2000	Epoch of Position: 2015.5	V=24	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=CLUSTER OF GALAXIES Description=[HIGH REDSHIFT CLUSTER]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) ABELL2744-PRI-NIRCAM-1	(1) ABELL2744-PRI-NIRCAM-1	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=14	POS TARG 0.5,0.5	Pattern 3, Exps 1-1 in NIRCcam-primary-1 (12) (3)	1245 Secs (7470 Secs)	
									[=>(Pattern 1,1)]	[1]
									[=>(Pattern 1,2)]	[2]
									[=>(Pattern 1,3)]	[3]
									[=>(Pattern 2,1)]	[3]
								[=>(Pattern 2,2)]	[3]	
								[=>(Pattern 2,3)]	[3]	

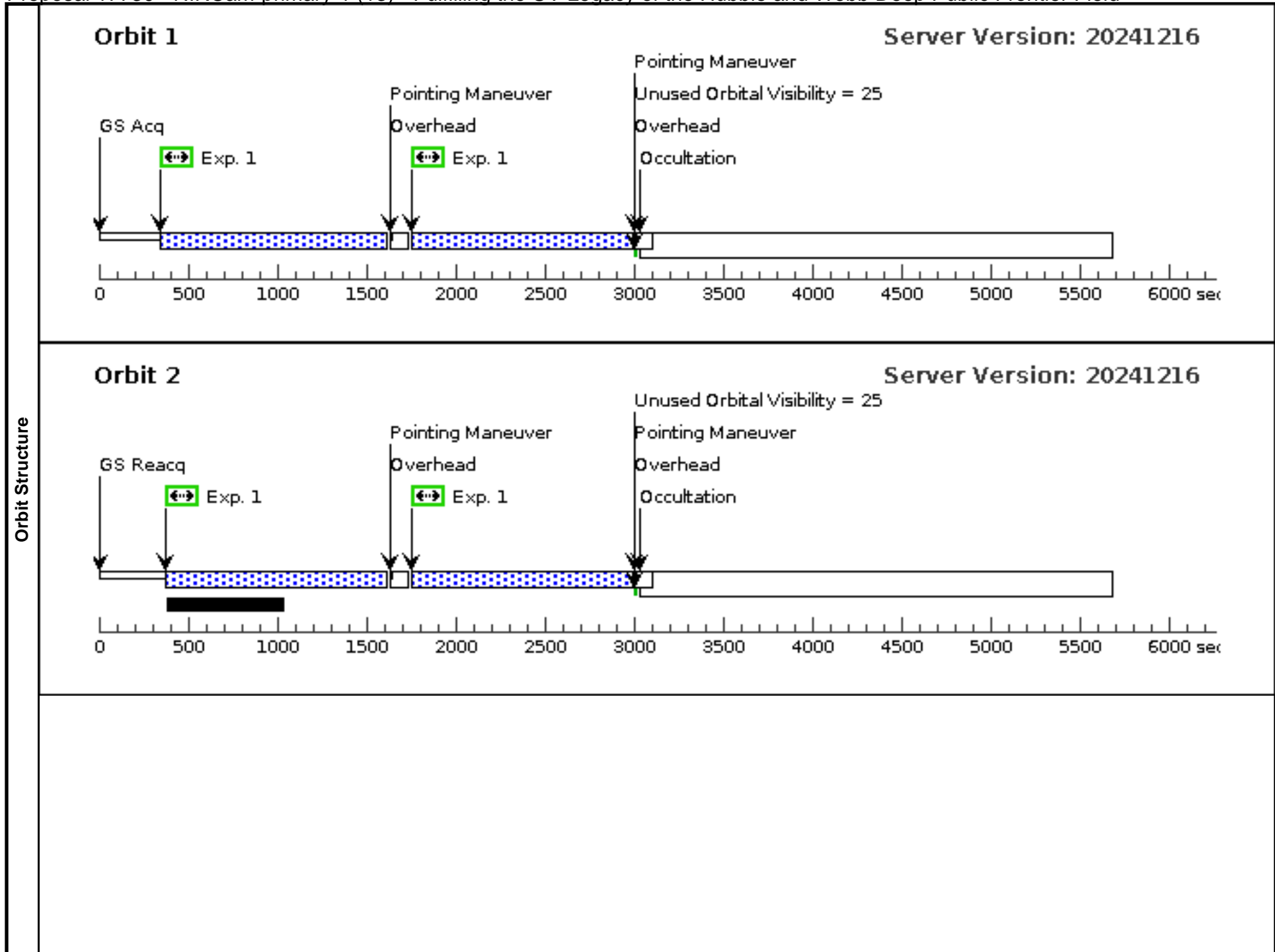


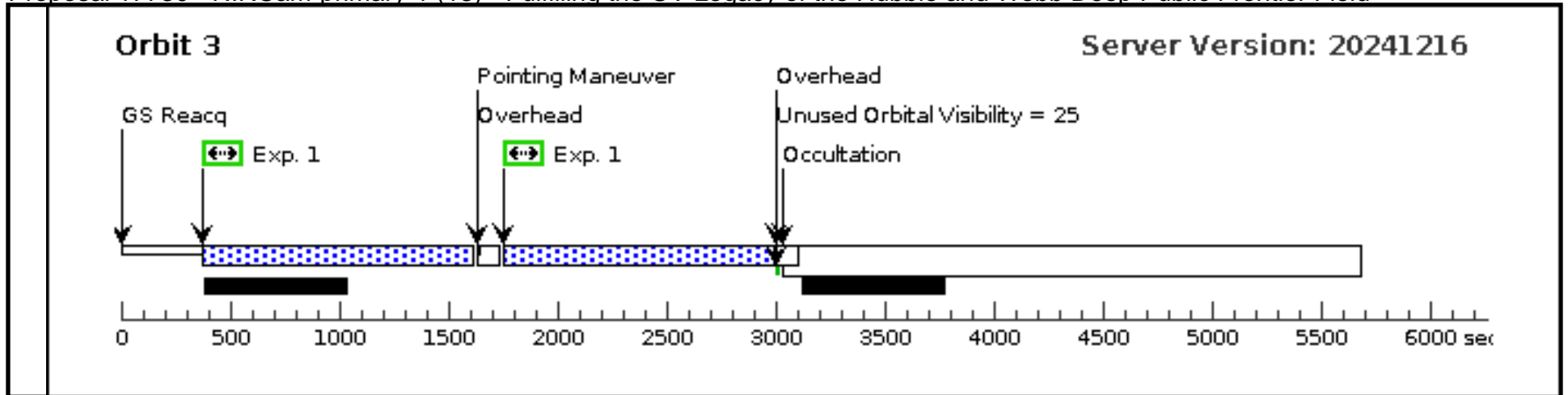


Proposal 17730 - NIRCcam-primary-1 (13) - Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field

Tue May 06 13:00:25 GMT 2025

Visit	Proposal 17730, NIRCcam-primary-1 (13), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 11									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(3)	Pattern Type=WFC3-UVIS-GAP-LINE Purpose=MOSAIC Number Of Points=2 Point Spacing=2.414 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.759 Angle Between Sides= Center Pattern=true	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	(1)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	ABELL2744-PRI-NIRCAM-1	RA: 00 14 25.8533 (3.6077221d) Dec: -30 23 0.76 (-30.38354d) Equinox: J2000	Epoch of Position: 2015.5	V=24	Reference Frame: SIMBAD				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=CLUSTER OF GALAXIES Description=[HIGH REDSHIFT CLUSTER]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) ABELL2744-PRI-NIRCAM-1	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=14		Pattern 3, Exps 1-1 in NIRCcam-primary-1 (13) (3)	1245 Secs (7470 Secs) [=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 1,3)] [=>(Pattern 2,1)] [=>(Pattern 2,2)] [=>(Pattern 2,3)]	[1] [2] [3]

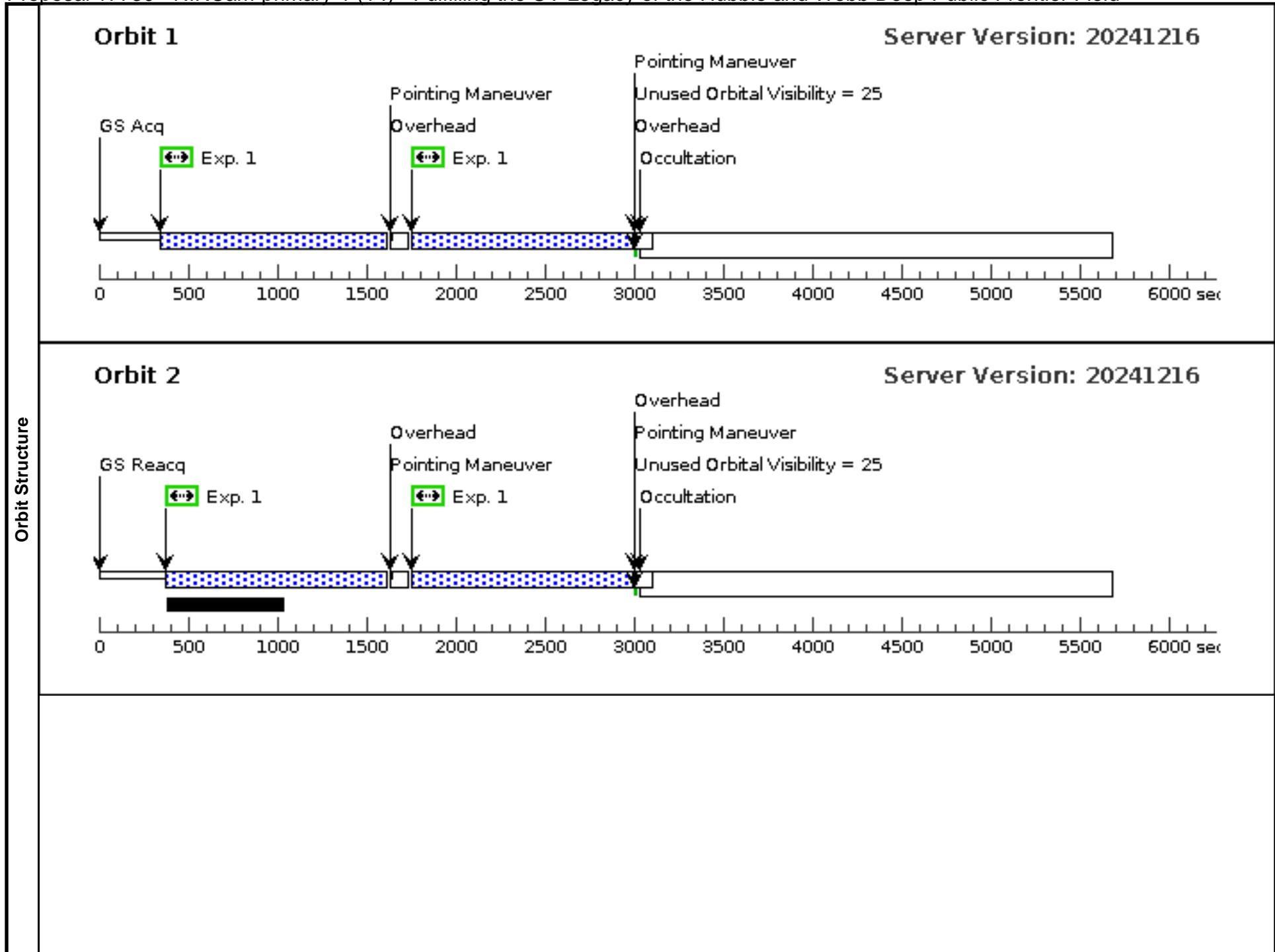


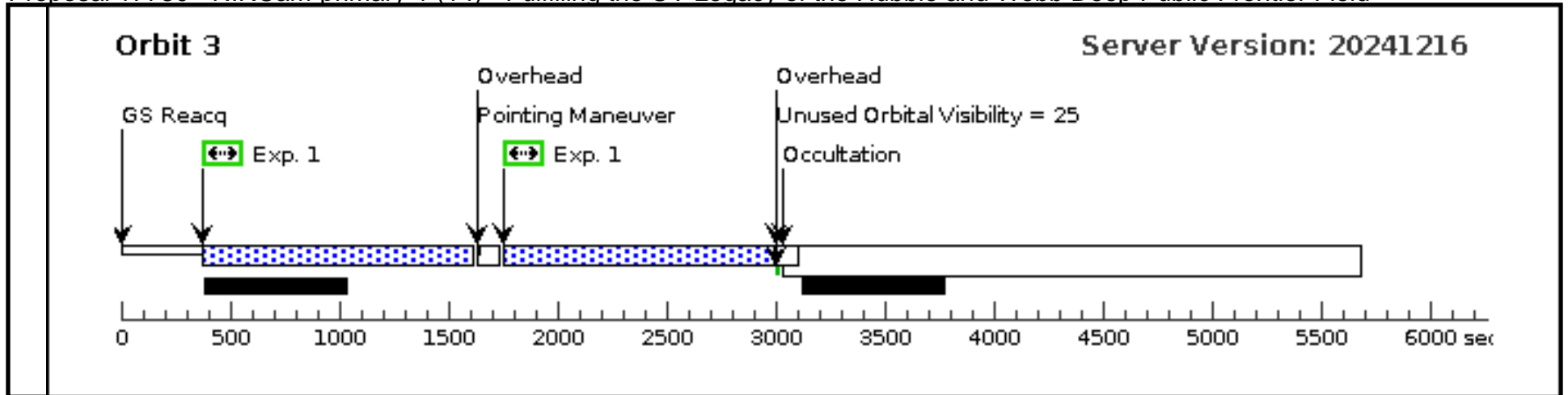


Proposal 17730 - NIRCcam-primary-1 (14) - Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field

Tue May 06 13:00:25 GMT 2025

Visit	Proposal 17730, NIRCcam-primary-1 (14), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 11									
	(Exposure 1 (Pattern 3, Exps 1-1 in NIRCcam-primary-1 (14)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern			Exposures				
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	ABELL2744-PRI-NIRCAM-1	RA: 00 14 25.8533 (3.6077221d) Dec: -30 23 0.76 (-30.38354d) Equinox: J2000	Epoch of Position: 2015.5	V=24	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=CLUSTER OF GALAXIES Description=[HIGH REDSHIFT CLUSTER]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) ABELL2744-PRI-NIRCAM-1	(1) ABELL2744-PRI-NIRCAM-1	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=14	POS TARG -0.5,-0.5	Pattern 3, Exps 1-1 in NIRCcam-primary-1 (14) (3)	1245 Secs (7470 Secs)	
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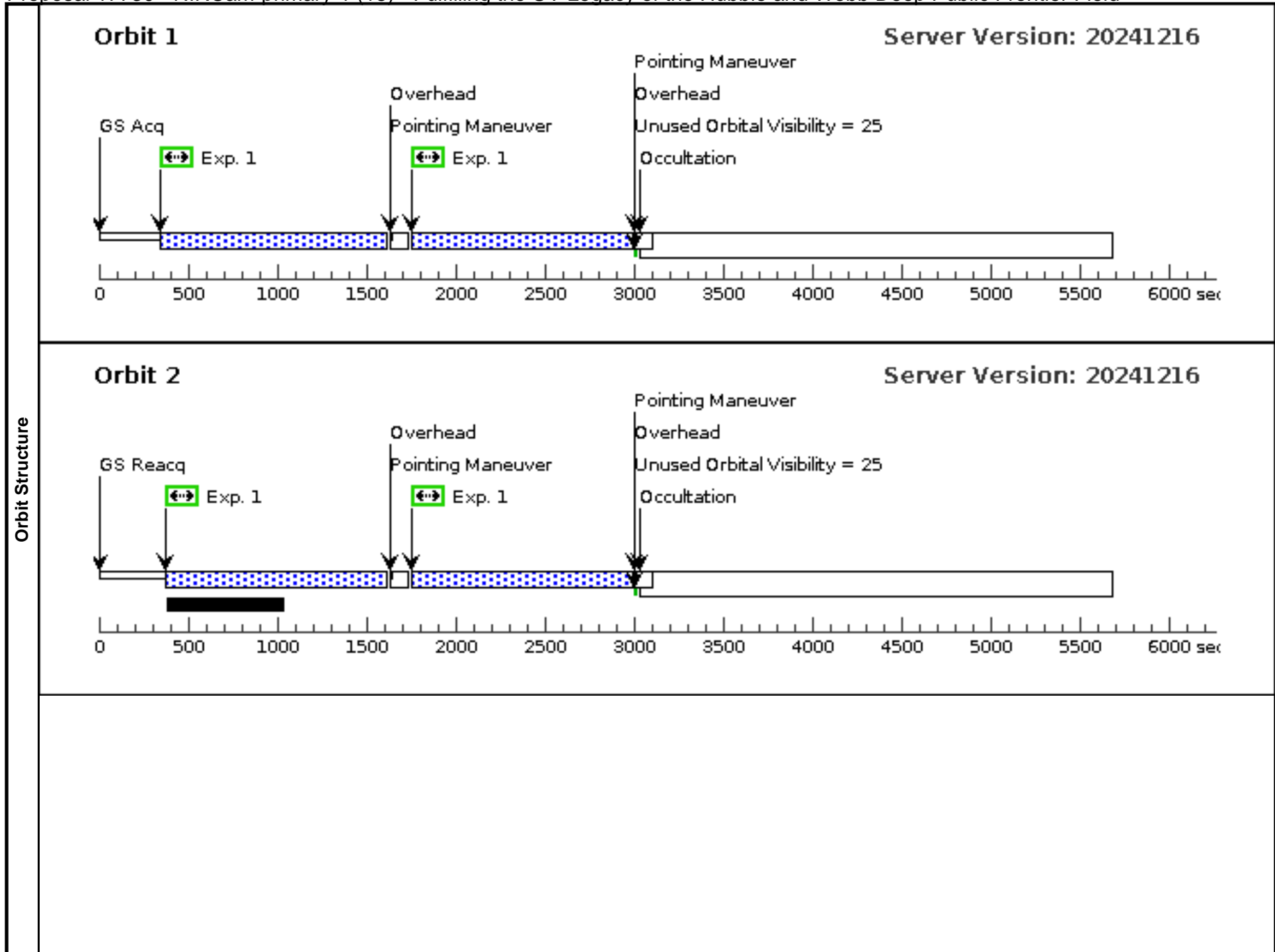


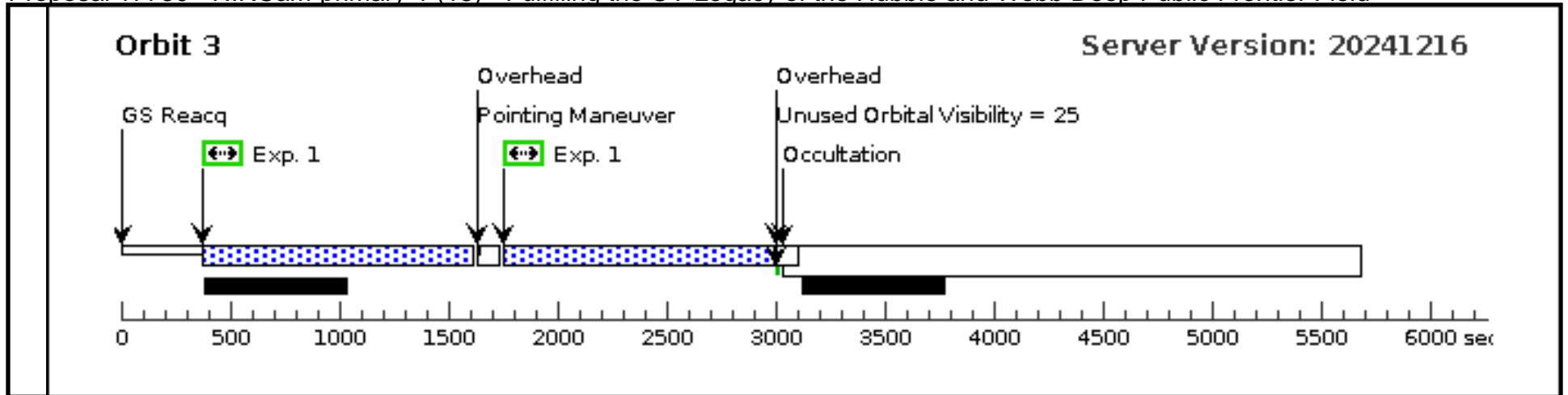


Proposal 17730 - NIRCcam-primary-1 (15) - Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field

Tue May 06 13:00:26 GMT 2025

Visit	Proposal 17730, NIRCcam-primary-1 (15), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 11									
	(Exposure 1 (Pattern 3, Exps 1-1 in NIRCcam-primary-1 (15)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern			Exposures				
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	ABELL2744-PRI-NIRCAM-1	RA: 00 14 25.8533 (3.6077221d) Dec: -30 23 0.76 (-30.38354d) Equinox: J2000	Epoch of Position: 2015.5	V=24	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=CLUSTER OF GALAXIES Description=[HIGH REDSHIFT CLUSTER]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) ABELL2744-PRI-NIRCAM-1	(1) ABELL2744-PRI-NIRCAM-1	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=14	POS TARG -1.0,-1.0	Pattern 3, Exps 1-1 in NIRCcam-primary-1 (15) (3)	1245 Secs (7470 Secs)	
									[=>(Pattern 1,1)]	[1]
									[=>(Pattern 1,2)]	[2]
									[=>(Pattern 1,3)]	[3]
									[=>(Pattern 2,1)]	[3]
								[=>(Pattern 2,2)]	[3]	
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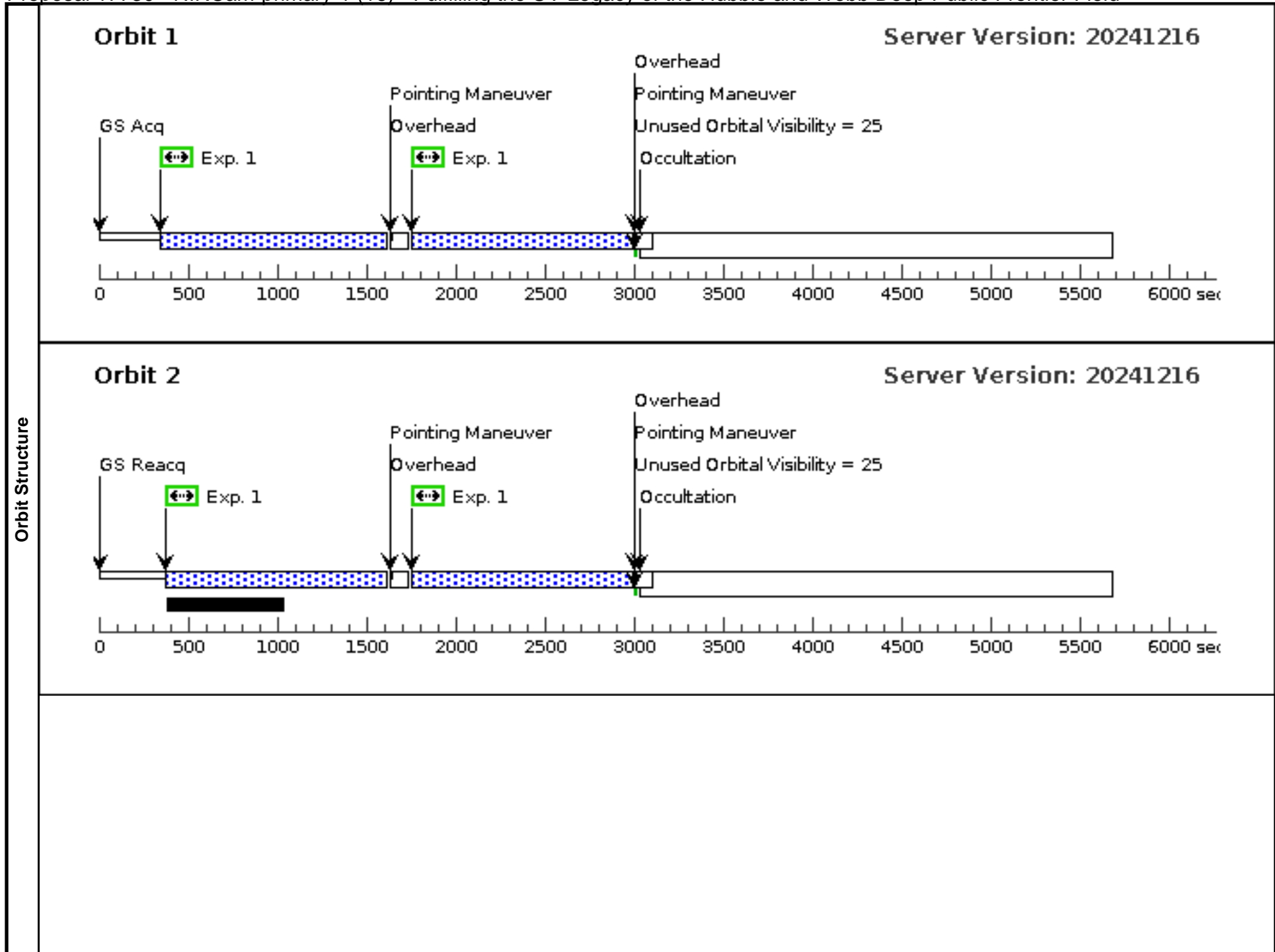


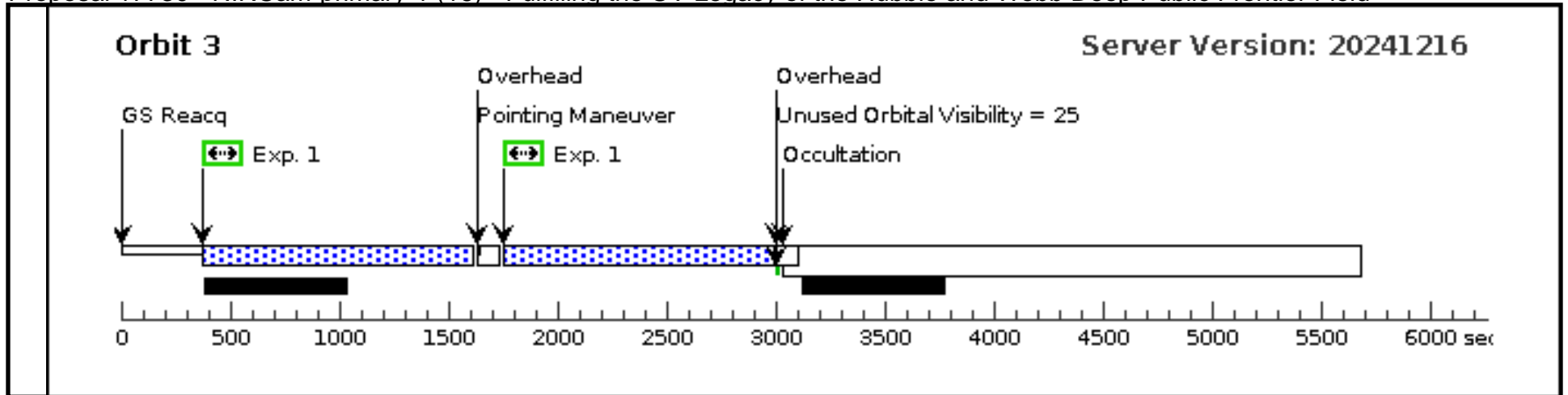


Proposal 17730 - NIRCcam-primary-1 (16) - Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field

Tue May 06 13:00:26 GMT 2025

Visit	Proposal 17730, NIRCcam-primary-1 (16), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 11									
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Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern			Exposures				
	(3)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	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=			(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	ABELL2744-PRI-NIRCAM-1	RA: 00 14 25.8533 (3.6077221d) Dec: -30 23 0.76 (-30.38354d) Equinox: J2000	Epoch of Position: 2015.5	V=24	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=CLUSTER OF GALAXIES Description=[HIGH REDSHIFT CLUSTER]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) ABELL2744-PRI-NIRCAM-1	(1) ABELL2744-PRI-NIRCAM-1	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=14	POS TARG -1.5,-1.5	Pattern 3, Exps 1-1 in NIRCcam-primary-1 (16) (3)	1245 Secs (7470 Secs)	
									[=>(Pattern 1,1)]	[1]
									[=>(Pattern 1,2)]	[2]
									[=>(Pattern 1,3)]	[3]
									[=>(Pattern 2,1)]	[3]
								[=>(Pattern 2,2)]	[3]	
								[=>(Pattern 2,3)]	[3]	

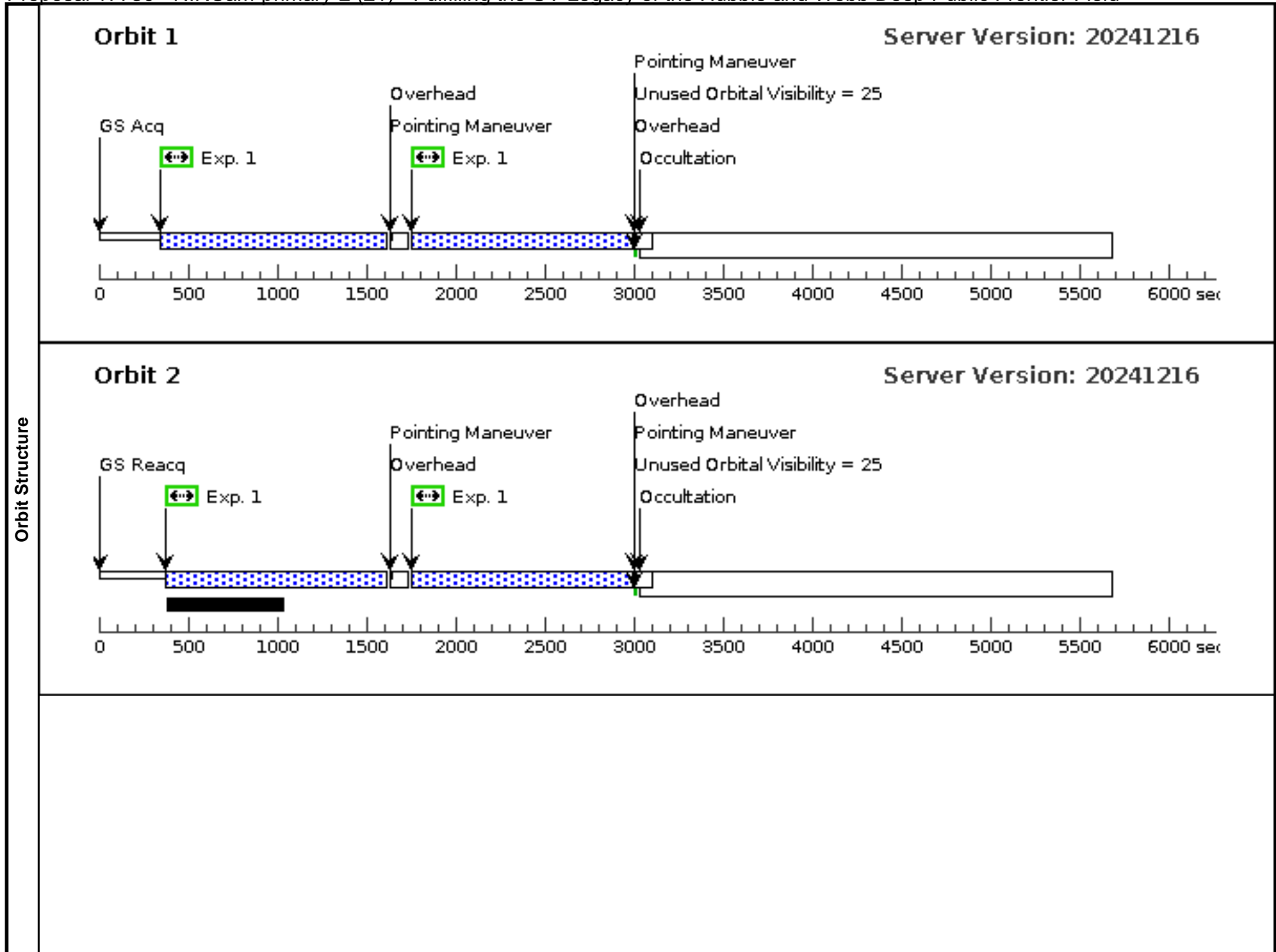


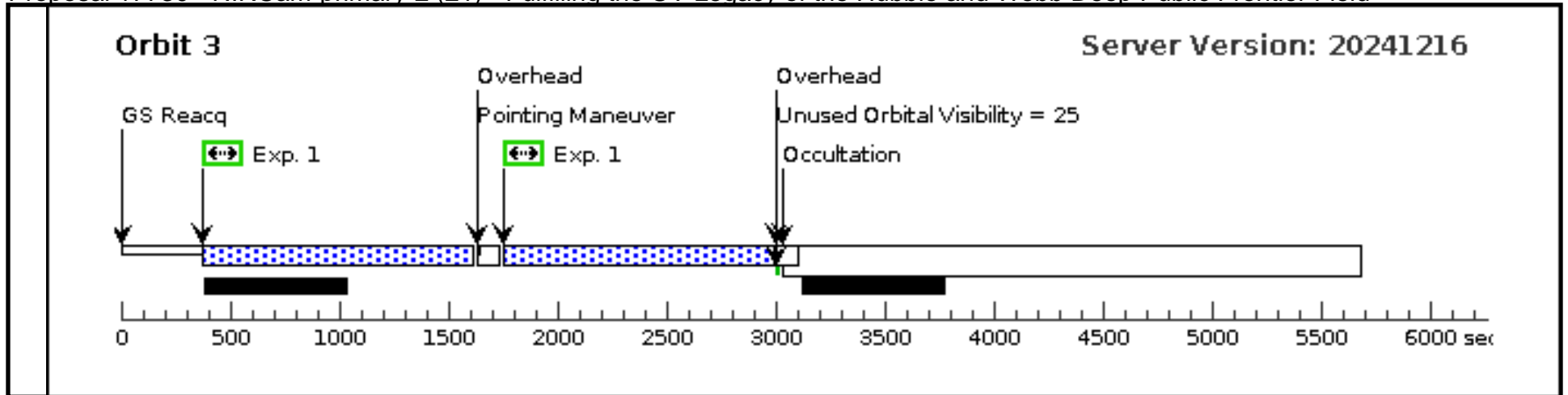


Proposal 17730 - NIRCcam-primary-2 (21) - Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field

Tue May 06 13:00:26 GMT 2025

Visit	Proposal 17730, NIRCcam-primary-2 (21), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 11 <i>Comments: [POINTING 2] 3-orbit block with 3-point dither line pattern starting at +1 arcsec and each subsequent 3-orbit visit is offset in x+y by -0.5 arcsec to cover the UVIS chip gap and mitigate striping. Each orbit is split in 2 to mitigate possible issues with astrometry recovery. 3-orbit x 6 visits = 18 orbits per primary pointing.</i>									
	Diagnosics (Exposure 1 (Pattern 3, Exps 1-1 in NIRCcam-primary-2 (21)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(3)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=46.84 Number Of Points=3 Angle Between Sides= Point Spacing=0.135 Center Pattern=false Line Spacing=	(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	ABELL2744-PRI-NIRCAM-2	RA: 00 14 16.1423 (3.5672596d) Dec: -30 21 17.12 (-30.35476d) Equinox: J2000	Epoch of Position: 2015.5	V=24	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=CLUSTER OF GALAXIES Description=[HIGH REDSHIFT CLUSTER]</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) ABELL2744-PRI-NIRCAM-2	(2) ABELL2744-PRI-NIRCAM-2	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=14	POS TARG 1.0,1.0; GS ACQ SCENARIO BASE103	Pattern 3, Exps 1-1 in NIRCcam-primary-2 (21) (3)	1245 Secs (7470 Secs)	
									[=>(Pattern 1,1)]	[1]
									[=>(Pattern 1,2)]	
									[=>(Pattern 1,3)]	
								[=>(Pattern 2,1)]	[2]	
								[=>(Pattern 2,2)]		
								[=>(Pattern 2,3)]	[3]	

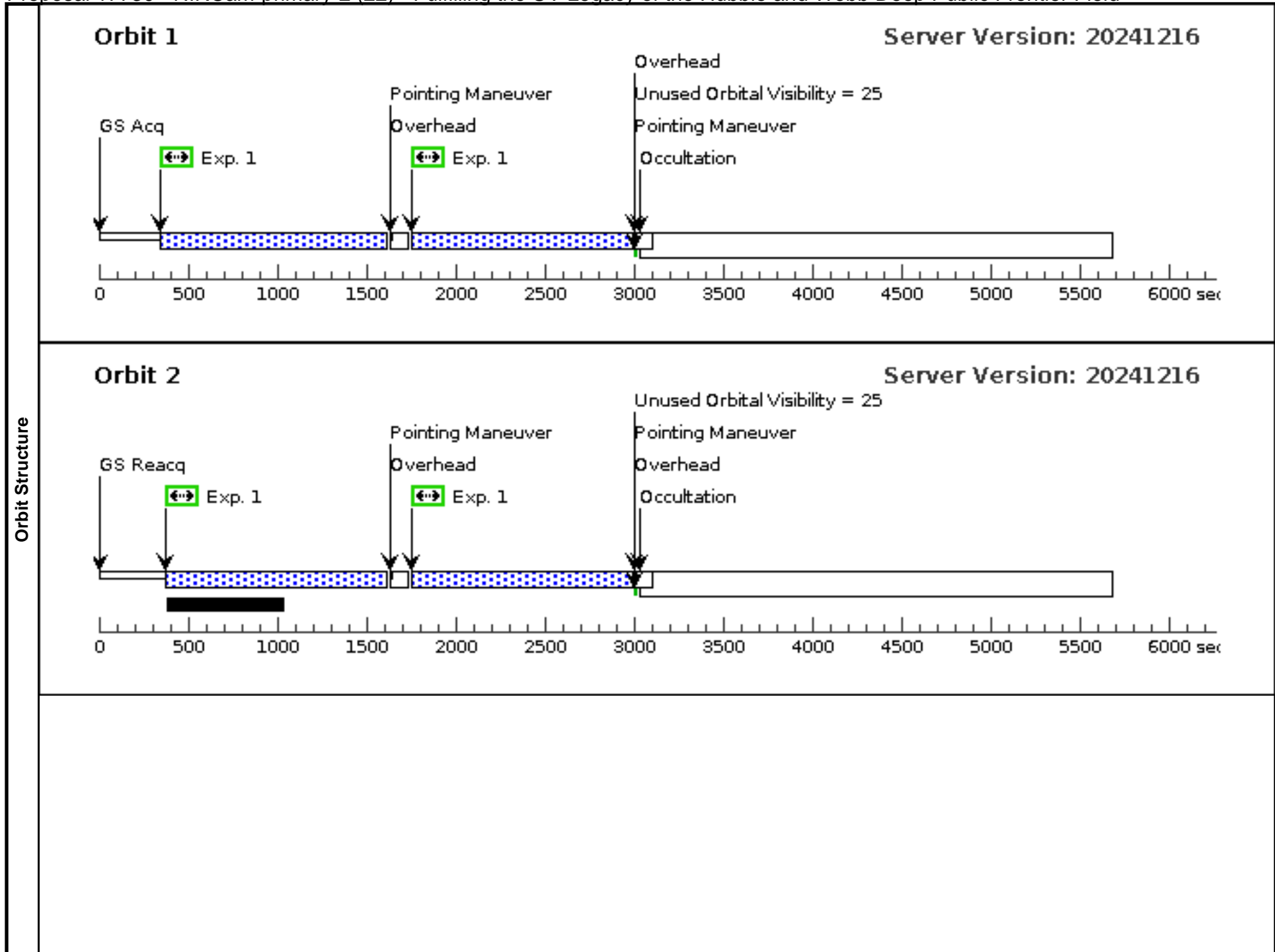


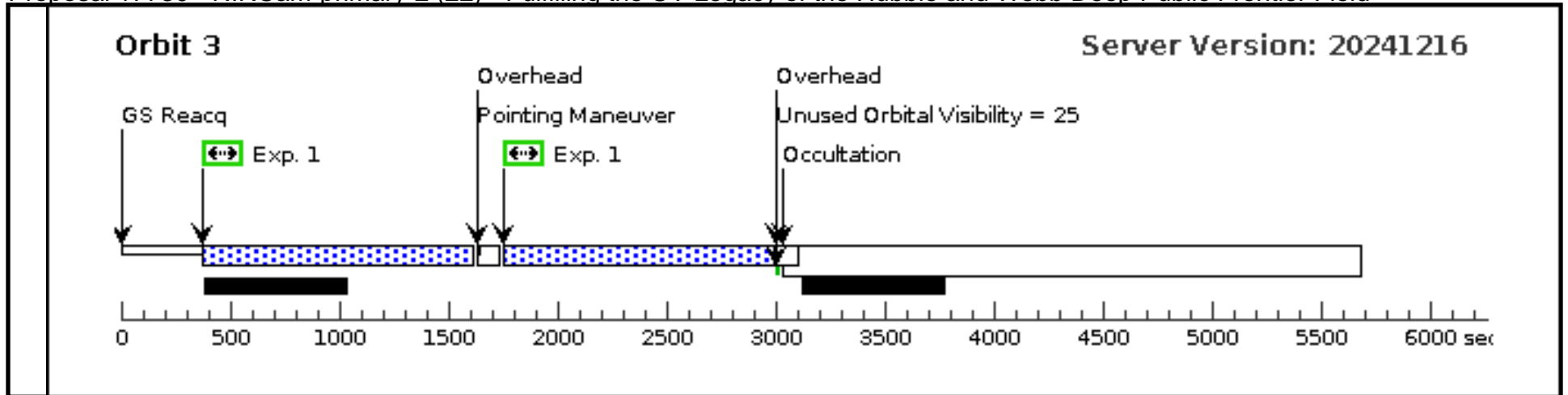


Proposal 17730 - NIRCcam-primary-2 (22) - Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field

Tue May 06 13:00:26 GMT 2025

Visit	Proposal 17730, NIRCcam-primary-2 (22), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 11									
	(Exposure 1 (Pattern 3, Exps 1-1 in NIRCcam-primary-2 (22)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern		Exposures					
	(3)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.135 Line Spacing=	(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	ABELL2744-PRI-NIRCAM-2	RA: 00 14 16.1423 (3.5672596d) Dec: -30 21 17.12 (-30.35476d) Equinox: J2000	Epoch of Position: 2015.5	V=24	Reference Frame: SIMBAD				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=CLUSTER OF GALAXIES Description=[HIGH REDSHIFT CLUSTER]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) ABELL2744-PRI-NIRCAM-2	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=14	POS TARG 0.5,0.5; GS ACQ SCENARI O BASE103	Pattern 3, Exps 1-1 i n NIRCcam-primary- 2 (22) (3)	1245 Secs (7470 Secs)		
								[=>(Pattern 1,1)]	[1]	
								[=>(Pattern 1,2)]	[2]	
								[=>(Pattern 1,3)]	[3]	
								[=>(Pattern 2,1)]	[3]	
							[=>(Pattern 2,2)]	[3]		
							[=>(Pattern 2,3)]	[3]		

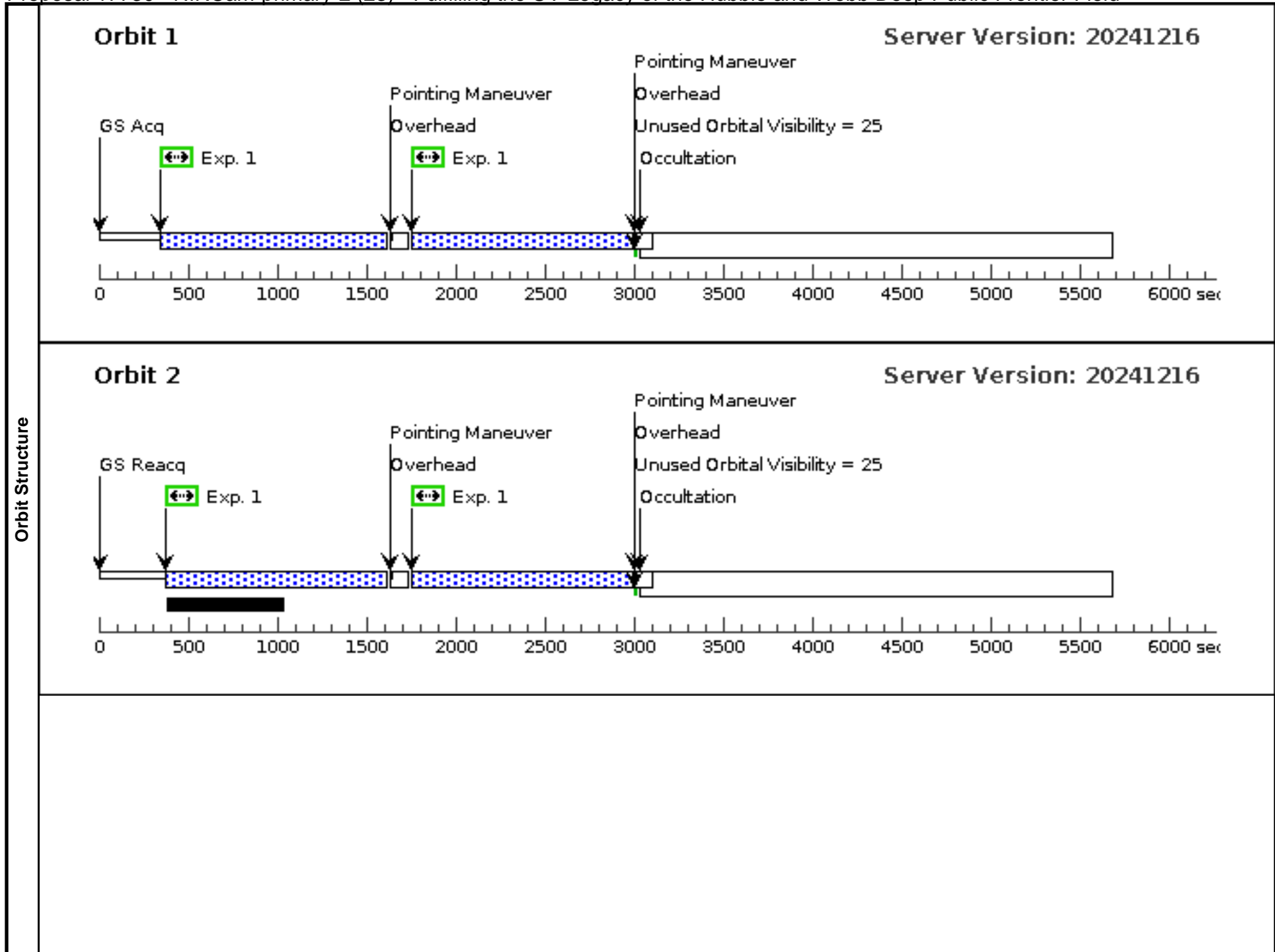


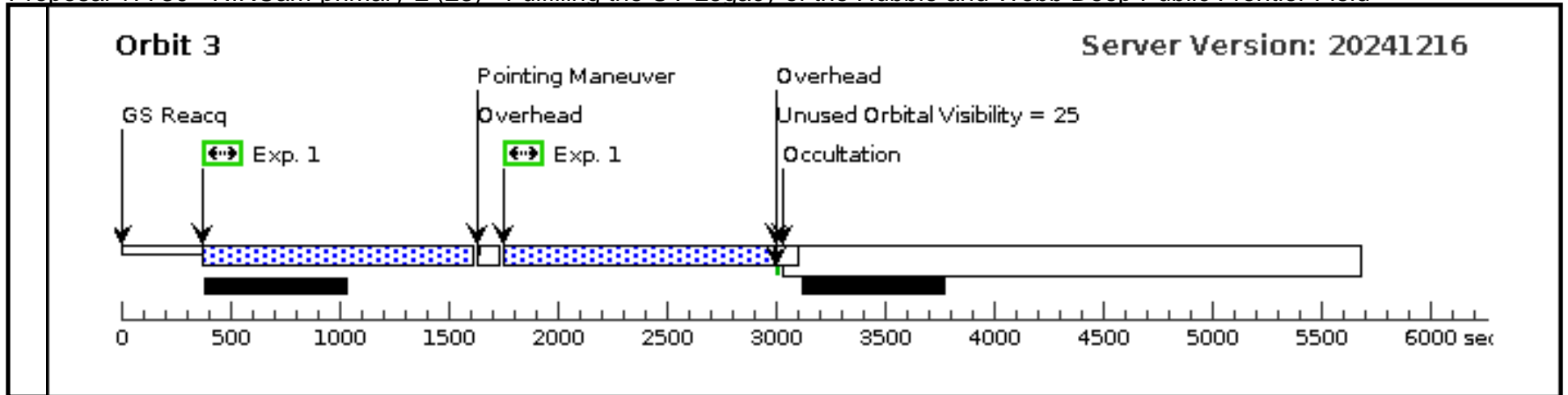


Proposal 17730 - NIRCcam-primary-2 (23) - Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field

Tue May 06 13:00:26 GMT 2025

Visit	Proposal 17730, NIRCcam-primary-2 (23), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 11									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(3)	Pattern Type=WFC3-UVIS-GAP-LINE Purpose=MOSAIC Number Of Points=2 Point Spacing=2.414 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.759 Angle Between Sides= Center Pattern=true	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	(1)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	ABELL2744-PRI-NIRCAM-2	RA: 00 14 16.1423 (3.5672596d) Dec: -30 21 17.12 (-30.35476d) Equinox: J2000	Epoch of Position: 2015.5	V=24	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=CLUSTER OF GALAXIES Description=[HIGH REDSHIFT CLUSTER]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) ABELL2744-PRI-NIRCAM-2	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=14	GS ACQ SCENARIO BASE103	Pattern 3, Exps 1-1 in NIRCcam-primary-2 (23) (3)	1245 Secs (7470 Secs) [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 1,3)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 2,3)]	[1] [2] [3]

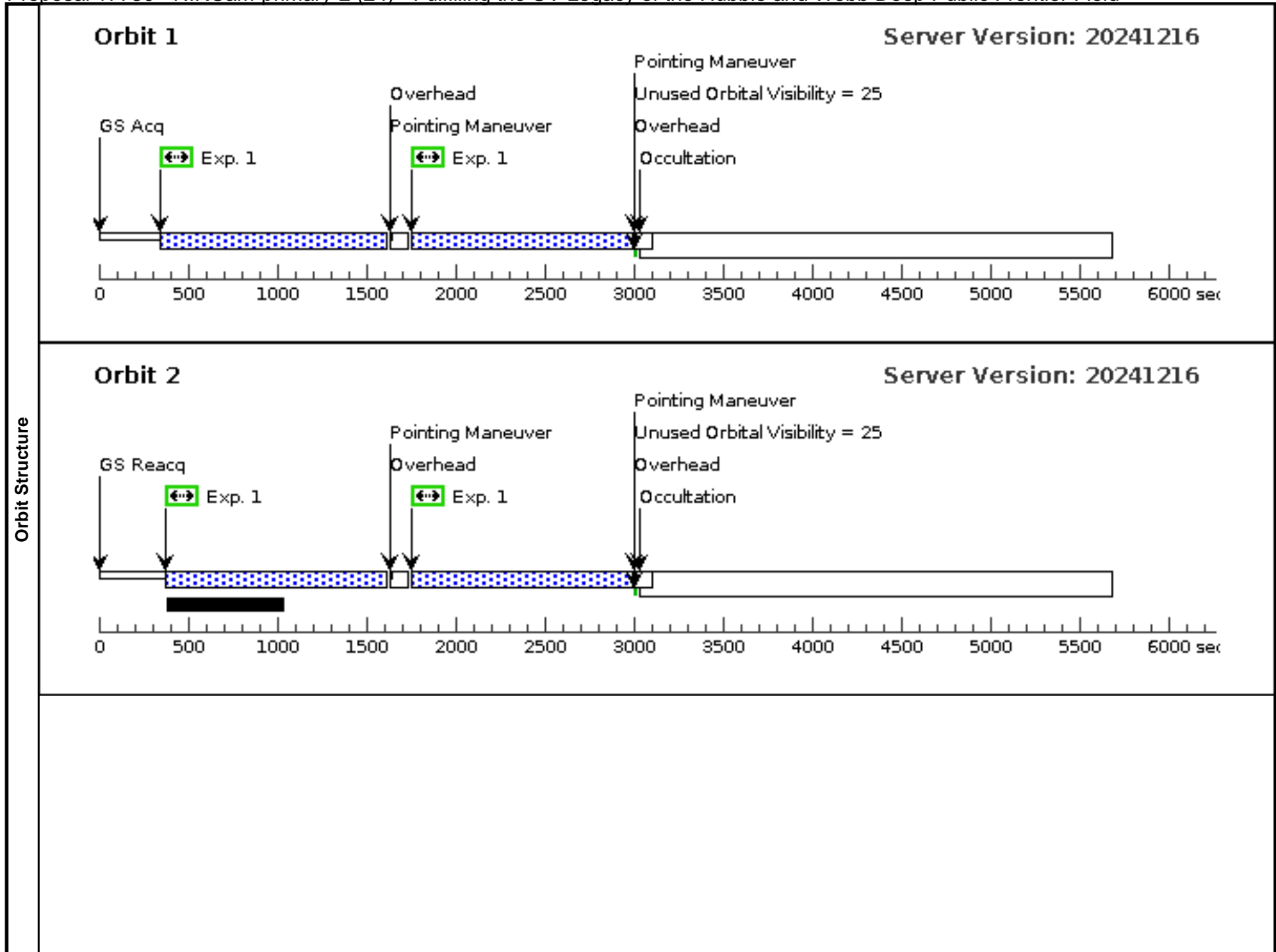


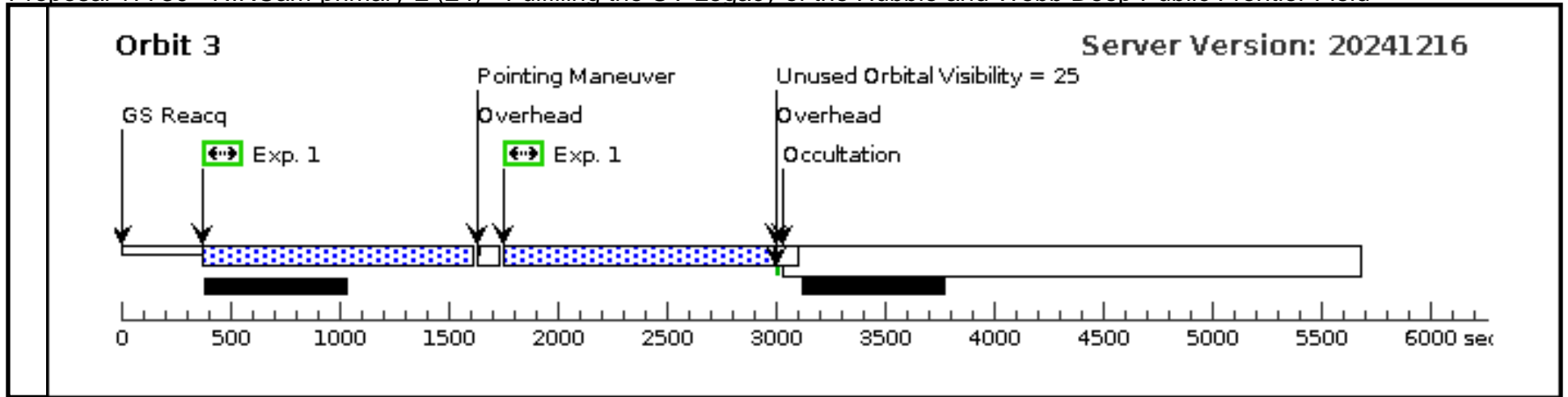


Proposal 17730 - NIRCcam-primary-2 (24) - Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field

Tue May 06 13:00:26 GMT 2025

Visit	Proposal 17730, NIRCcam-primary-2 (24), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 11									
	(Exposure 1 (Pattern 3, Exps 1-1 in NIRCcam-primary-2 (24)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern			Exposures				
	(3)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	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=			(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	ABELL2744-PRI-NIRCAM-2	RA: 00 14 16.1423 (3.5672596d) Dec: -30 21 17.12 (-30.35476d) Equinox: J2000	Epoch of Position: 2015.5	V=24	Reference Frame: SIMBAD				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=CLUSTER OF GALAXIES Description=[HIGH REDSHIFT CLUSTER]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) ABELL2744-PRI-NIRCAM-2	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=14	POS TARG -0.5,-0.5 ; GS ACQ SCENARI O BASE103	Pattern 3, Exps 1-1 in NIRCcam-primary-2 (24) (3)	1245 Secs (7470 Secs)		
								[=>(Pattern 1,1)]	[1]	
								[=>(Pattern 1,2)]	[2]	
								[=>(Pattern 1,3)]	[3]	
								[=>(Pattern 2,1)]	[3]	
							[=>(Pattern 2,2)]	[3]		
							[=>(Pattern 2,3)]	[3]		

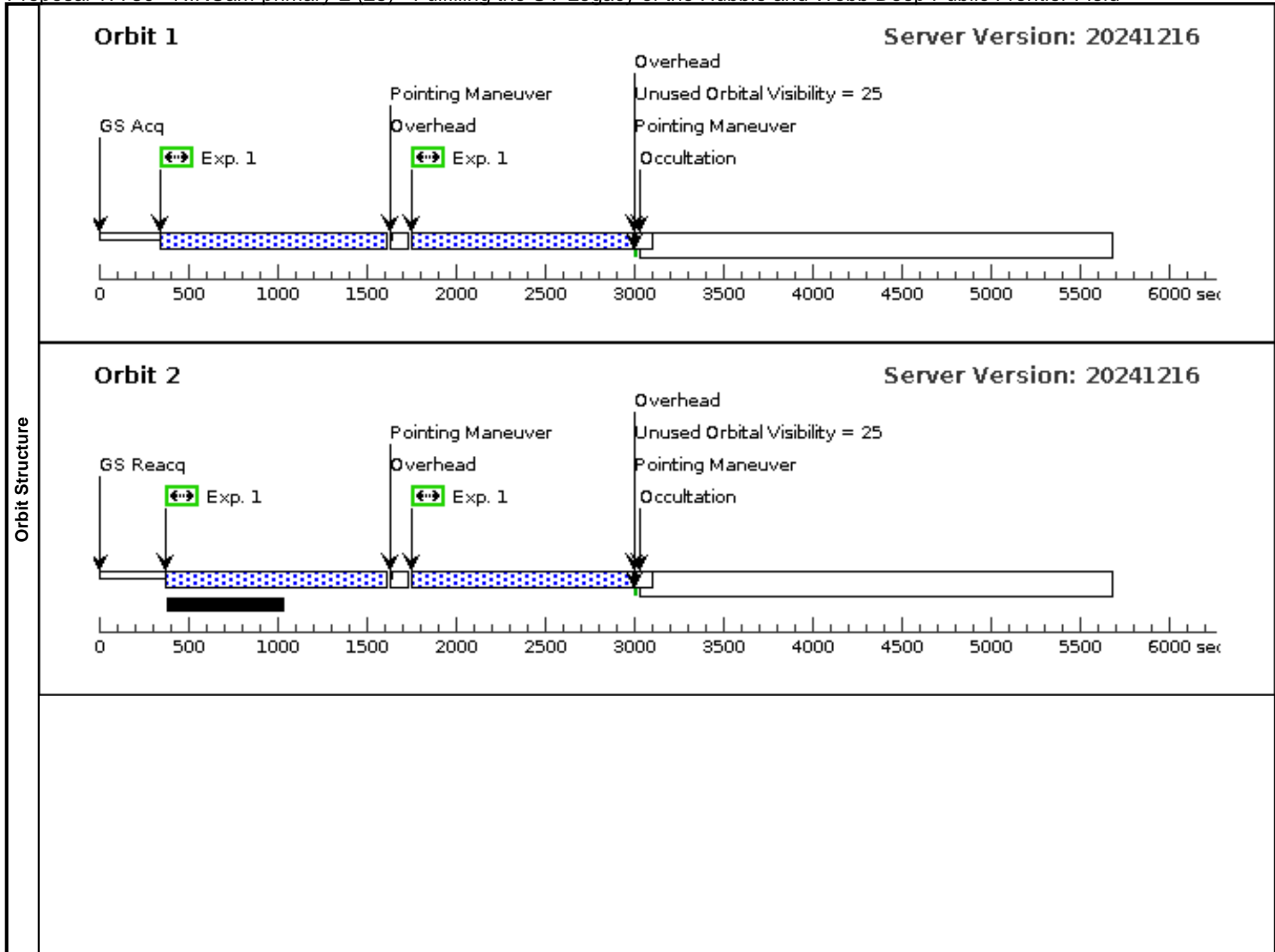


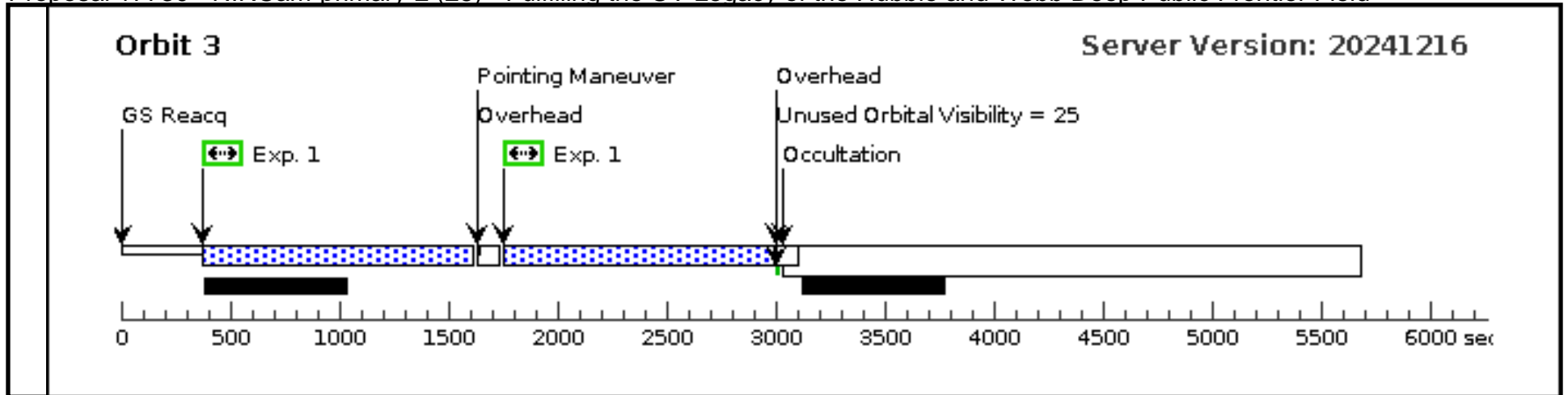


Proposal 17730 - NIRCcam-primary-2 (25) - Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field

Tue May 06 13:00:26 GMT 2025

Visit	Proposal 17730, NIRCcam-primary-2 (25), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 11									
	(Exposure 1 (Pattern 3, Exps 1-1 in NIRCcam-primary-2 (25)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern		Exposures					
	(3)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	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=	(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	ABELL2744-PRI-NIRCAM-2	RA: 00 14 16.1423 (3.5672596d) Dec: -30 21 17.12 (-30.35476d) Equinox: J2000	Epoch of Position: 2015.5	V=24	Reference Frame: SIMBAD				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=CLUSTER OF GALAXIES Description=[HIGH REDSHIFT CLUSTER]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) ABELL2744-PRI-NIRCAM-2	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=14	POS TARG -1.0,-1.0 ; GS ACQ SCENARI O BASE103	Pattern 3, Exps 1-1 in NIRCcam-primary-2 (25) (3)	1245 Secs (7470 Secs)		
								[=>(Pattern 1,1)]	[1]	
								[=>(Pattern 1,2)]	[2]	
								[=>(Pattern 1,3)]	[3]	
								[=>(Pattern 2,1)]	[3]	
							[=>(Pattern 2,2)]	[3]		
							[=>(Pattern 2,3)]	[3]		

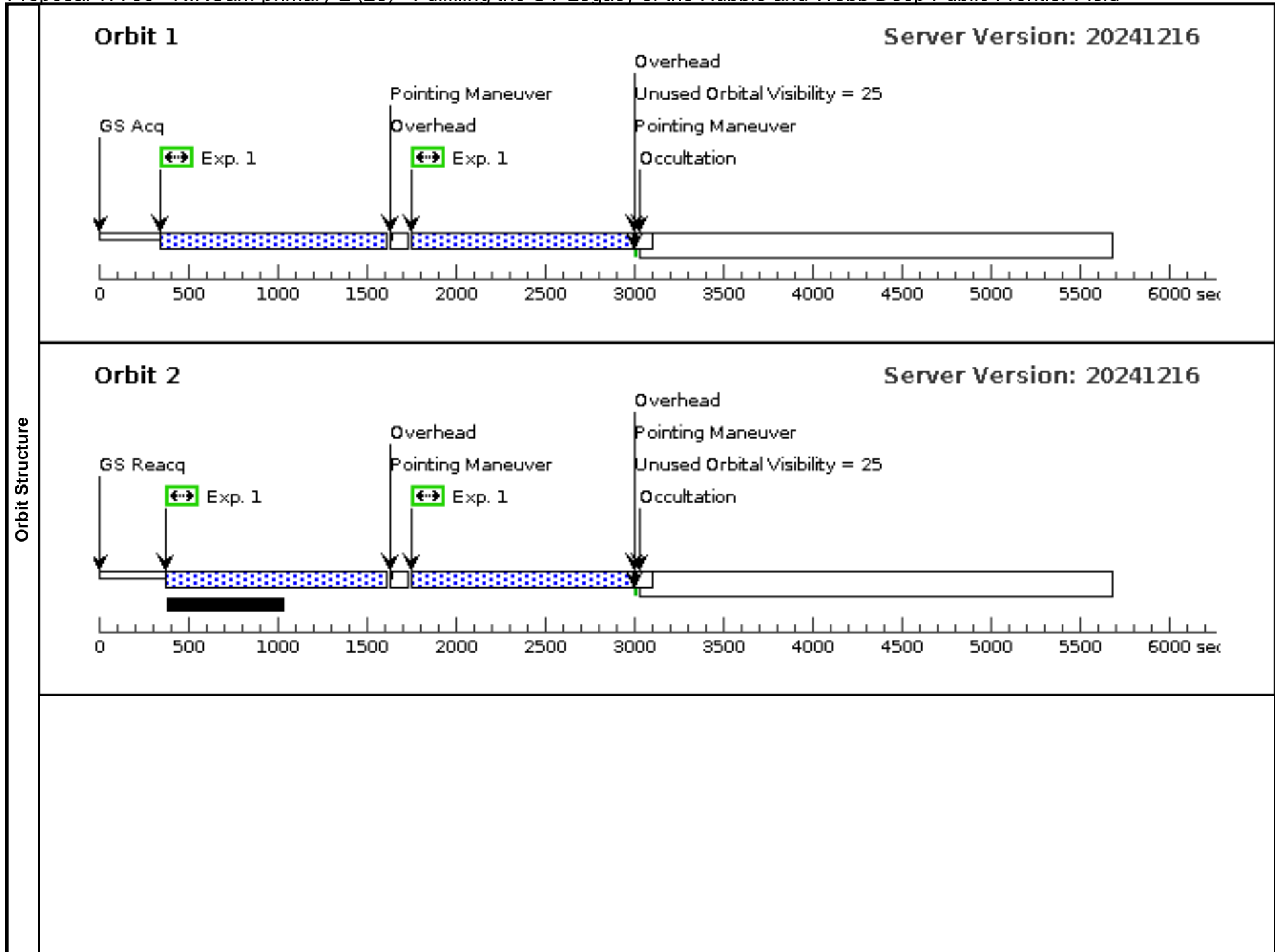


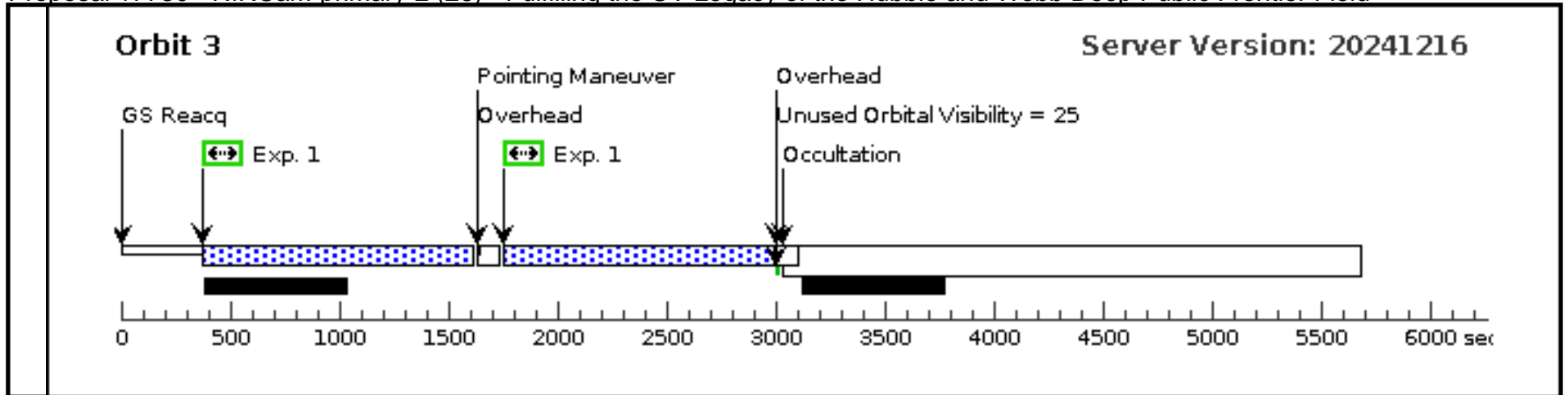


Proposal 17730 - NIRCcam-primary-2 (26) - Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field

Tue May 06 13:00:26 GMT 2025

Visit	Proposal 17730, NIRCcam-primary-2 (26), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 11									
	(Exposure 1 (Pattern 3, Exps 1-1 in NIRCcam-primary-2 (26)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern		Exposures					
	(3)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.135 Line Spacing=	(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	ABELL2744-PRI-NIRCAM-2	RA: 00 14 16.1423 (3.5672596d) Dec: -30 21 17.12 (-30.35476d) Equinox: J2000	Epoch of Position: 2015.5	V=24	Reference Frame: SIMBAD				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=CLUSTER OF GALAXIES Description=[HIGH REDSHIFT CLUSTER]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) ABELL2744-PRI-NIRCAM-2	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=14	POS TARG -1.5,-1.5 ; GS ACQ SCENARI O BASE103	Pattern 3, Exps 1-1 in NIRCcam-primary-2 (26) (3)	1245 Secs (7470 Secs)		
								[=>(Pattern 1,1)]	[1]	
								[=>(Pattern 1,2)]	[2]	
								[=>(Pattern 1,3)]	[3]	
								[=>(Pattern 2,1)]	[3]	
							[=>(Pattern 2,2)]	[3]		
							[=>(Pattern 2,3)]	[3]		

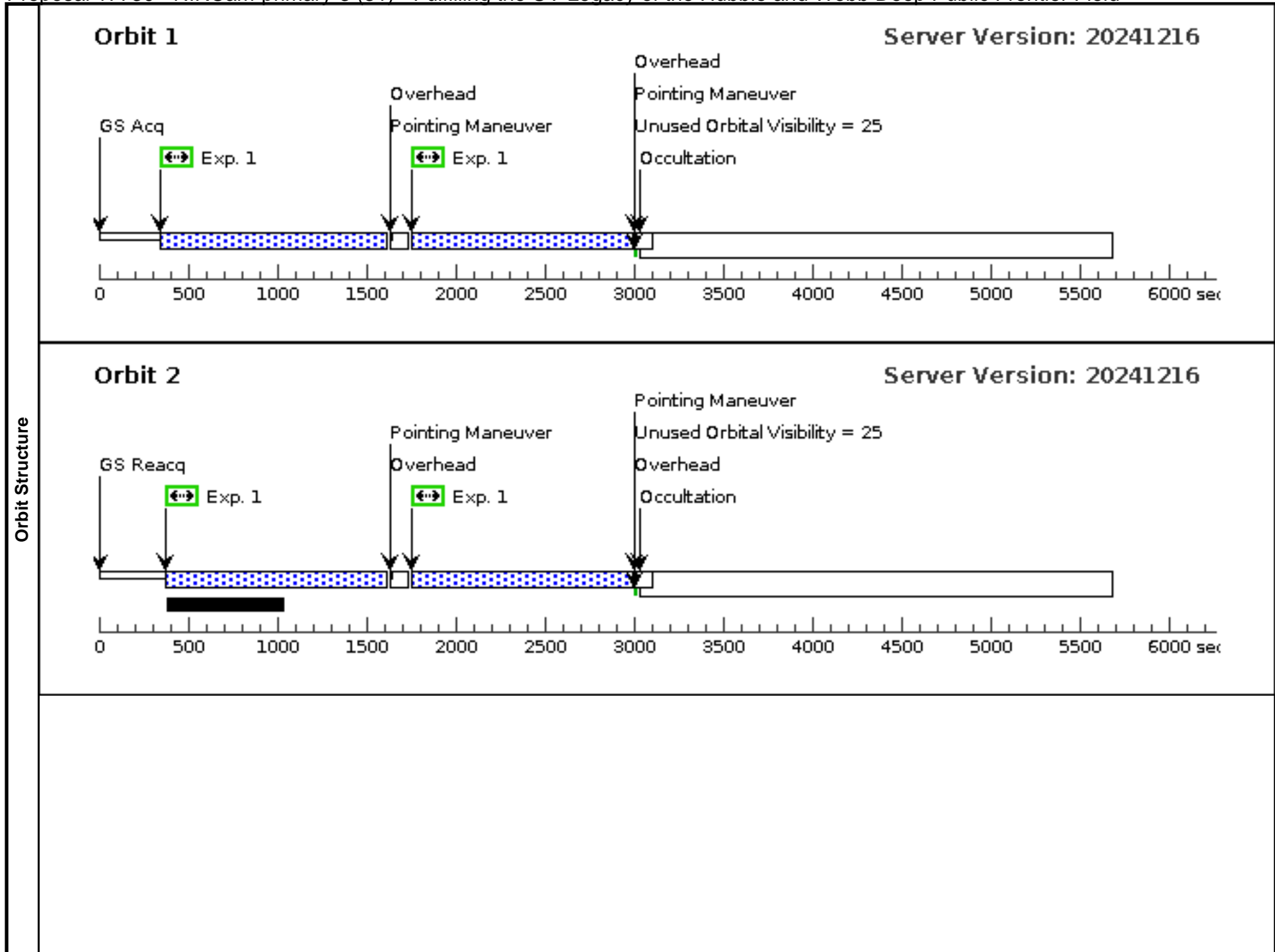


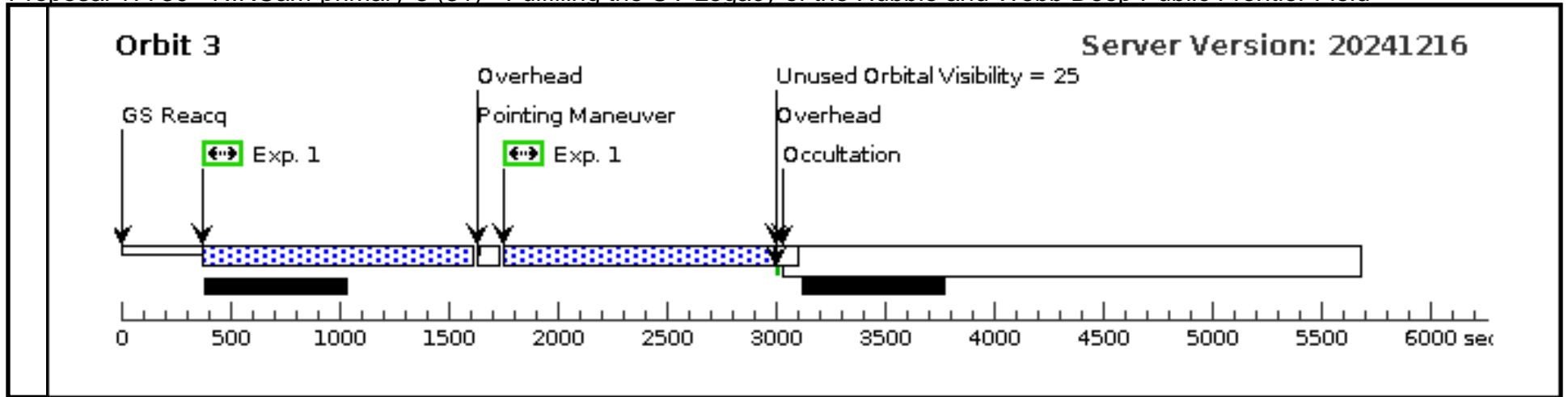


Proposal 17730 - NIRCcam-primary-3 (31) - Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field

Tue May 06 13:00:26 GMT 2025

Visit	Proposal 17730, NIRCcam-primary-3 (31), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 11 <i>Comments: [POINTING 3] 3-orbit block with 3-point dither line pattern starting at +1 arcsec and each subsequent 3-orbit visit is offset in x+y by -0.5 arcsec to cover the UVIS chip gap and mitigate striping. Each orbit is split in 2 to mitigate possible issues with astrometry recovery. 3-orbit x 6 visits = 18 orbits per primary pointing.</i>									
	(Exposure 1 (Pattern 3, Exps 1-1 in NIRCcam-primary-3 (31)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(3)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.135 Line Spacing=	(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	ABELL2744-PRI-NIRCAM-3	RA: 00 14 20.1431 (3.5839296d) Dec: -30 24 20.64 (-30.40573d) Equinox: J2000	Epoch of Position: 2015.5	V=24	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=CLUSTER OF GALAXIES Description=[HIGH REDSHIFT CLUSTER]</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) ABELL2744-PRI-NIRCAM-3	(3) ABELL2744-PRI-NIRCAM-3	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=14	POS TARG 1.0,1.0	Pattern 3, Exps 1-1 in NIRCcam-primary-3 (31) (3)	1245 Secs (7470 Secs) [=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 1,3)] [=>(Pattern 2,1)] [=>(Pattern 2,2)] [=>(Pattern 2,3)]	[1] [2] [3]

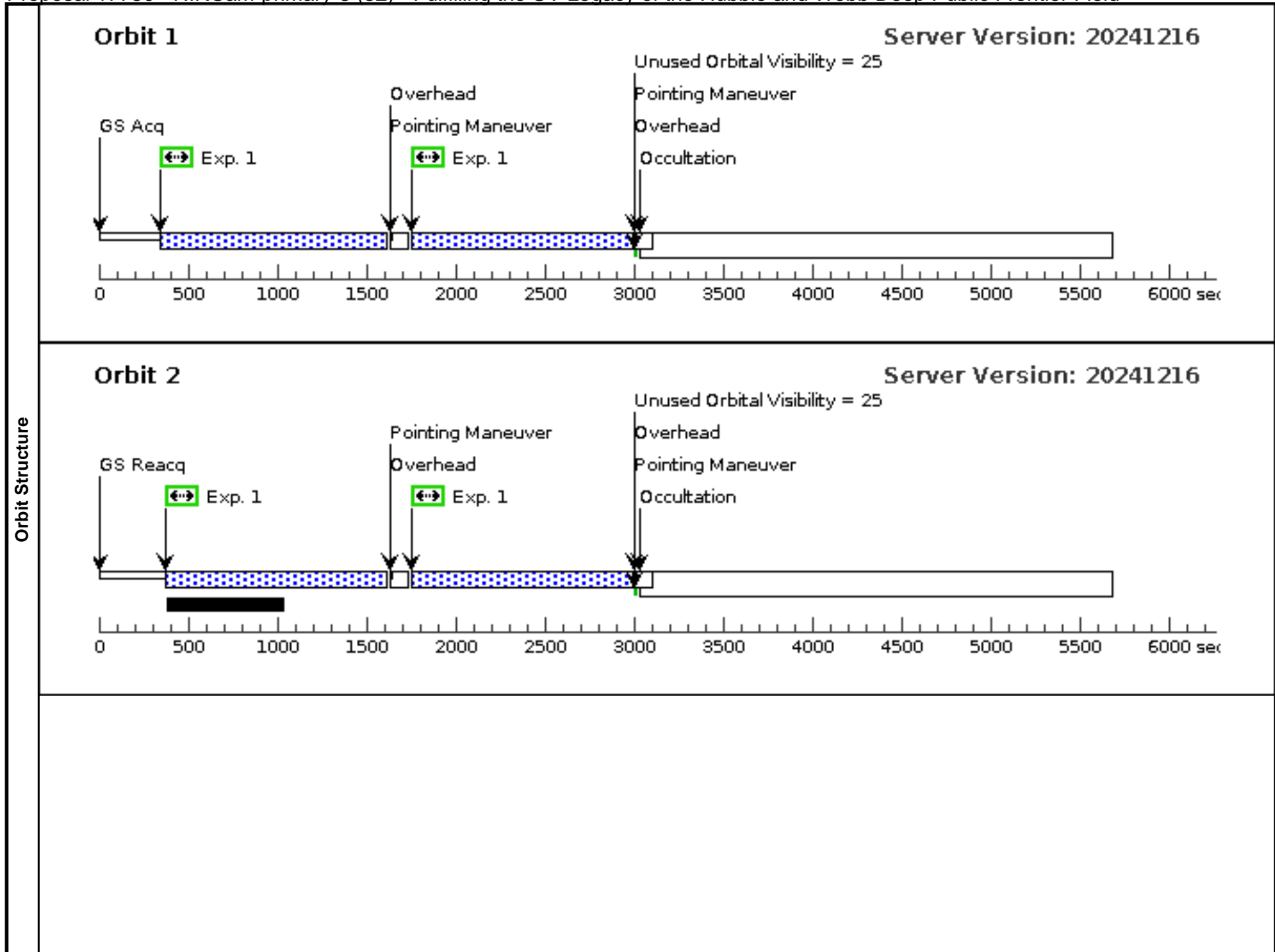


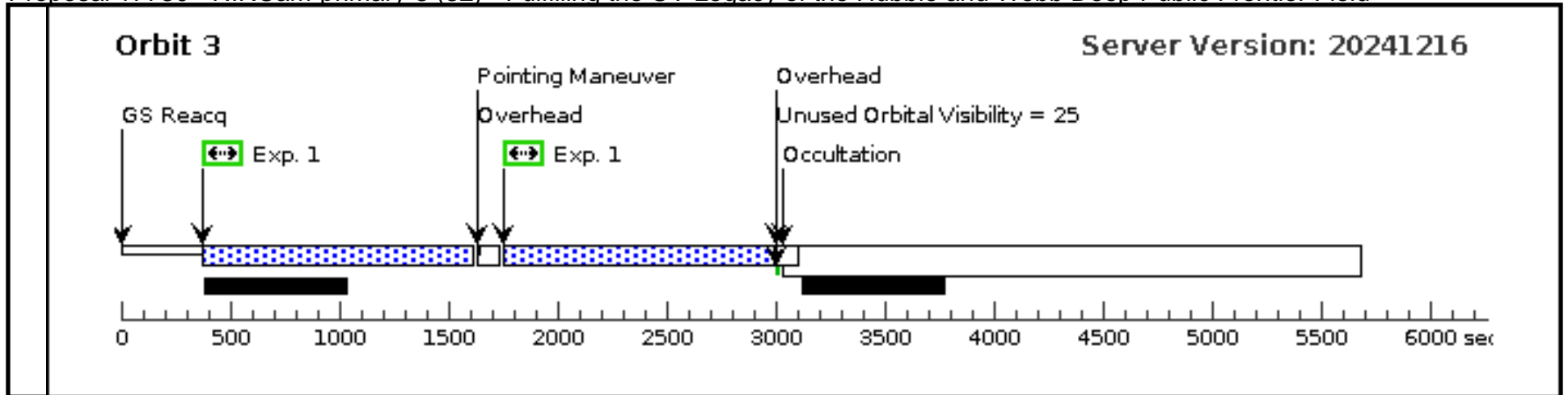


Proposal 17730 - NIRCcam-primary-3 (32) - Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field

Tue May 06 13:00:26 GMT 2025

Visit	Proposal 17730, NIRCcam-primary-3 (32), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 11									
	(Exposure 1 (Pattern 3, Exps 1-1 in NIRCcam-primary-3 (32)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern		Exposures					
	(3)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.135 Line Spacing=	(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	ABELL2744-PRI-NIRCAM-3	RA: 00 14 20.1431 (3.5839296d) Dec: -30 24 20.64 (-30.40573d) Equinox: J2000	Epoch of Position: 2015.5	V=24	Reference Frame: SIMBAD				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=CLUSTER OF GALAXIES Description=[HIGH REDSHIFT CLUSTER]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) ABELL2744-PRI-NIRCAM-3	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=14	POS TARG 0.5,0.5	Pattern 3, Exps 1-1 in NIRCcam-primary-3 (32) (3)	1245 Secs (7470 Secs)		
								[=>(Pattern 1,1)]	[1]	
								[=>(Pattern 1,2)]	[2]	
								[=>(Pattern 1,3)]	[3]	
								[=>(Pattern 2,1)]	[3]	
							[=>(Pattern 2,2)]	[3]		
							[=>(Pattern 2,3)]	[3]		

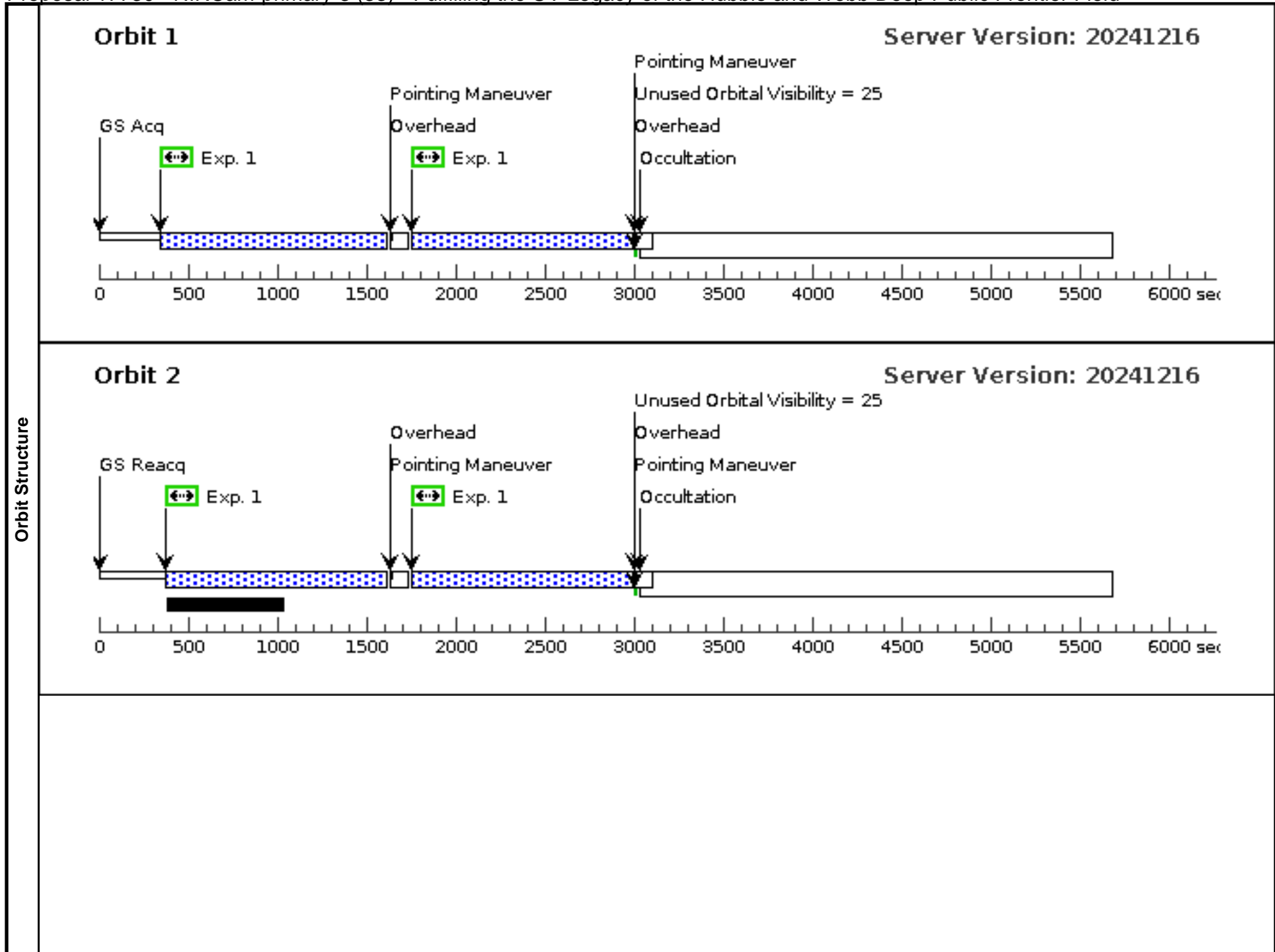


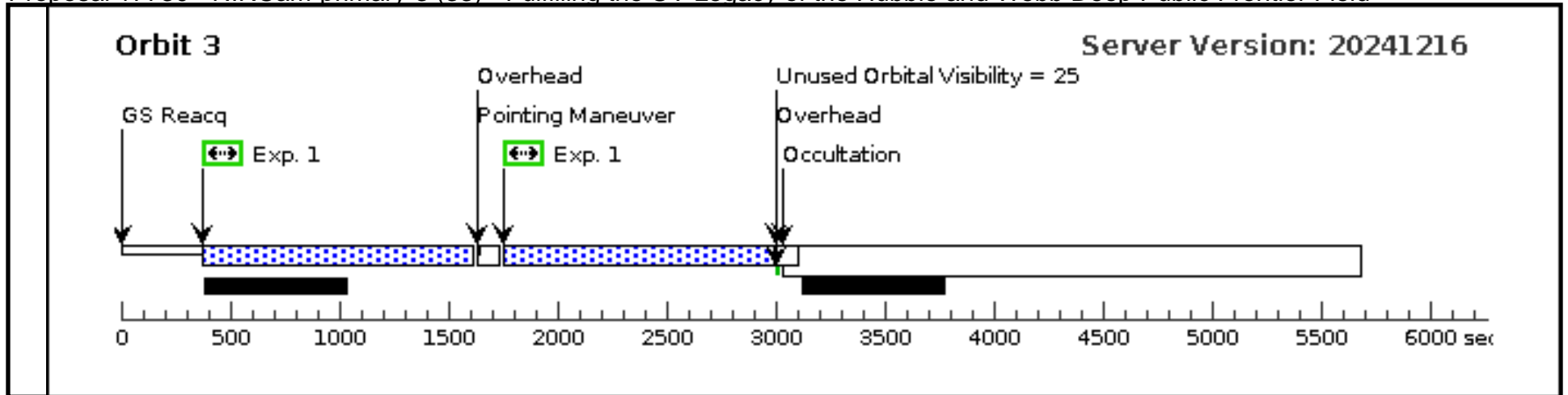


Proposal 17730 - NIRCcam-primary-3 (33) - Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field

Tue May 06 13:00:26 GMT 2025

Visit	Proposal 17730, NIRCcam-primary-3 (33), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 11									
	Patterns	#	Primary Pattern				Secondary Pattern			
(3)		Pattern Type=WFC3-UVIS-GAP-LINE		Coordinate Frame=POS-TARG		Pattern Type=WFC3-UVIS-DITHER-LINE-3PT		Coordinate Frame=POS-TARG		(1)
		Purpose=MOSAIC		Pattern Orientation=85.759		Purpose=DITHER		Pattern Orientation=46.84		
		Number Of Points=2		Angle Between Sides=		Number Of Points=3		Angle Between Sides=		
		Point Spacing=2.414		Center Pattern=true		Point Spacing=0.135		Center Pattern=false		
		Line Spacing=				Line Spacing=				
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous		
	(3)	ABELL2744-PRI-NIRCAM-3	RA: 00 14 20.1431 (3.5839296d) Dec: -30 24 20.64 (-30.40573d) Equinox: J2000		Epoch of Position: 2015.5		V=24	Reference Frame: SIMBAD		
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=CLUSTER OF GALAXIES Description=[HIGH REDSHIFT CLUSTER]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) ABELL2744-PRI-NIRCAM-3		WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=14		Pattern 3, Exps 1-1 in NIRCcam-primary-3 (33) (3)	1245 Secs (7470 Secs)	
									[==>(Pattern 1,1)]	[1]
									[==>(Pattern 1,2)]	[2]
									[==>(Pattern 1,3)]	[3]
								[==>(Pattern 2,1)]	[1]	
								[==>(Pattern 2,2)]	[2]	
								[==>(Pattern 2,3)]	[3]	

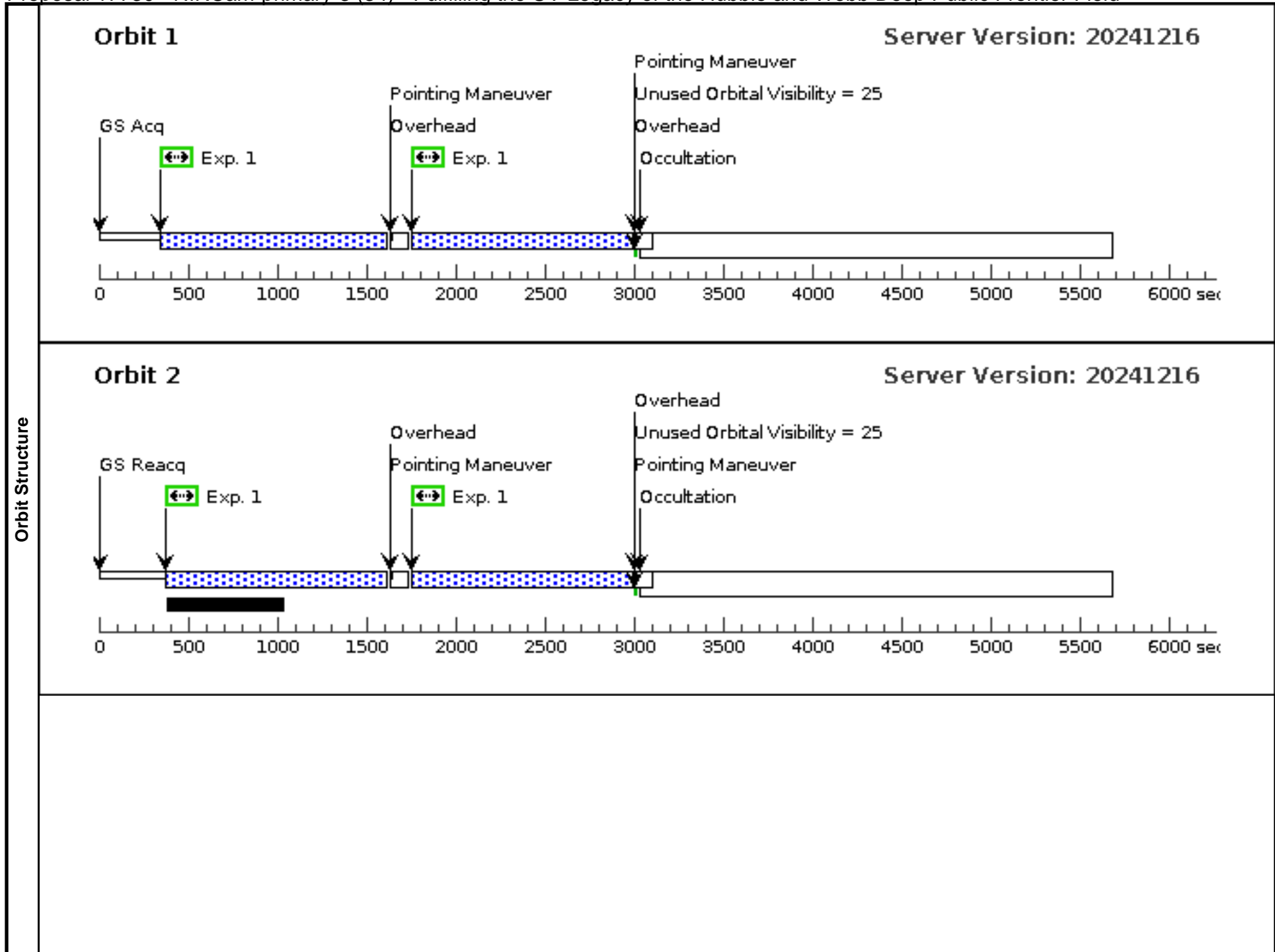


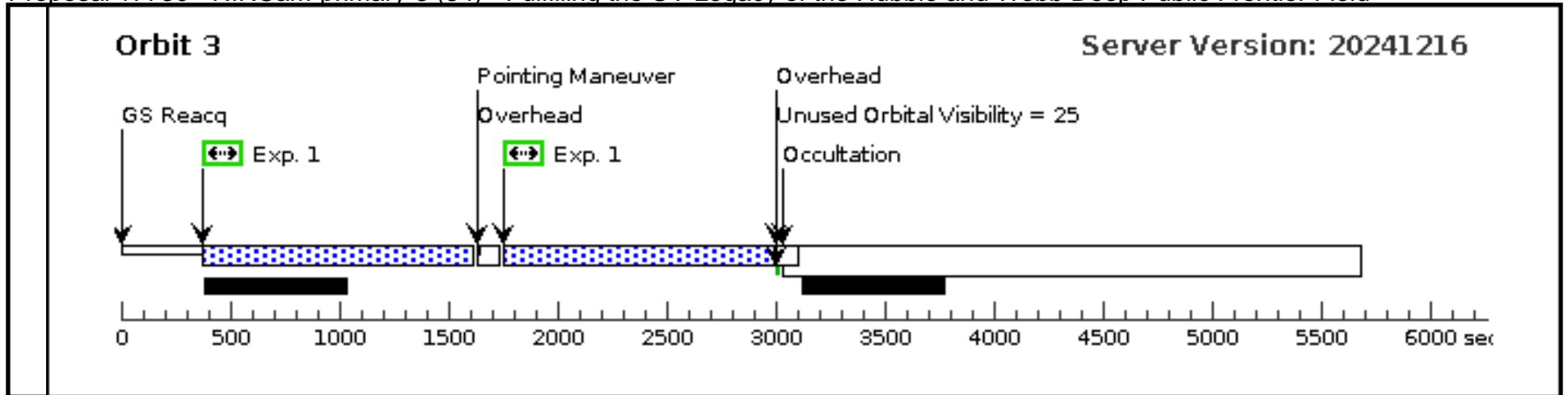


Proposal 17730 - NIRCcam-primary-3 (34) - Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field

Tue May 06 13:00:26 GMT 2025

Visit	Proposal 17730, NIRCcam-primary-3 (34), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 11									
	(Exposure 1 (Pattern 3, Exps 1-1 in NIRCcam-primary-3 (34)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern			Exposures				
	(3)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	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=			(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	ABELL2744-PRI-NIRCAM-3	RA: 00 14 20.1431 (3.5839296d) Dec: -30 24 20.64 (-30.40573d) Equinox: J2000	Epoch of Position: 2015.5	V=24	Reference Frame: SIMBAD				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=CLUSTER OF GALAXIES Description=[HIGH REDSHIFT CLUSTER]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) ABELL2744-PRI-NIRCAM-3	(3) ABELL2744-PRI-NIRCAM-3	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=14	POS TARG -0.5,-0.5	Pattern 3, Exps 1-1 in NIRCcam-primary-3 (34) (3)	1245 Secs (7470 Secs)	
									[=>(Pattern 1,1)]	[1]
									[=>(Pattern 1,2)]	[2]
									[=>(Pattern 1,3)]	[3]
									[=>(Pattern 2,1)]	[3]
								[=>(Pattern 2,2)]	[3]	
								[=>(Pattern 2,3)]	[3]	

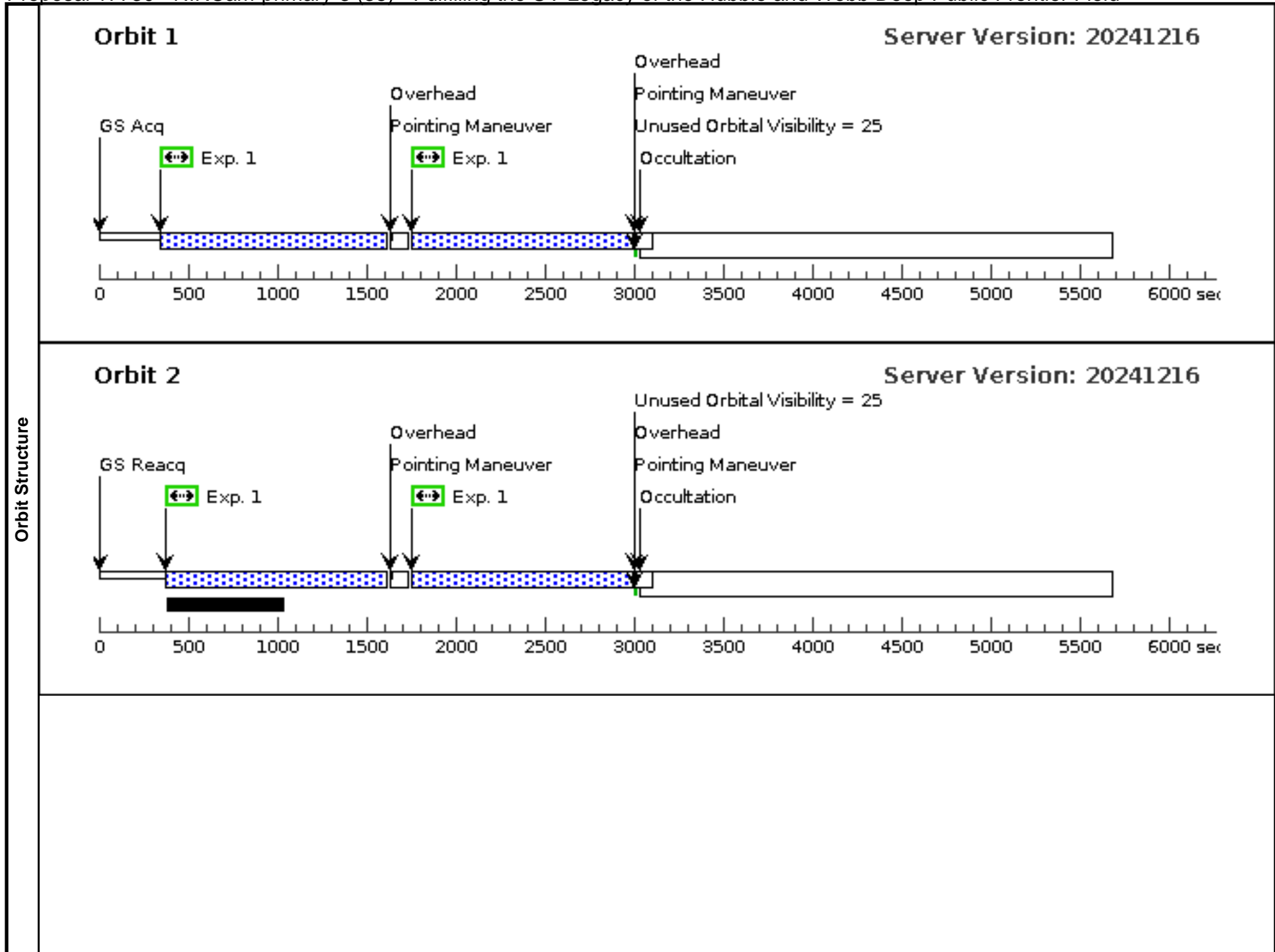


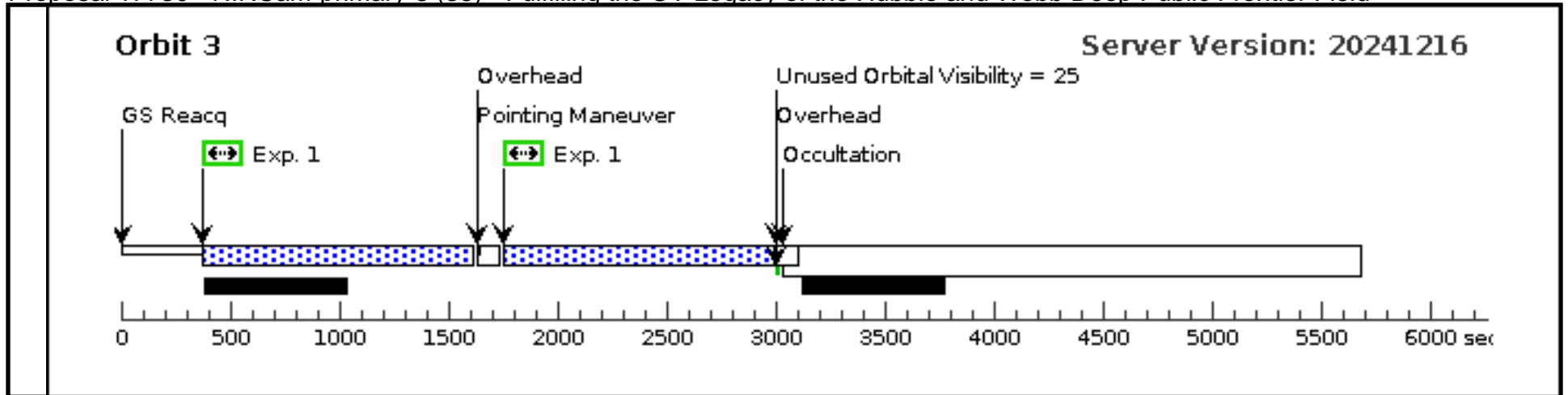


Proposal 17730 - NIRCcam-primary-3 (35) - Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field

Tue May 06 13:00:26 GMT 2025

Visit	Proposal 17730, NIRCcam-primary-3 (35), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 11									
	(Exposure 1 (Pattern 3, Exps 1-1 in NIRCcam-primary-3 (35)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern			Exposures				
	(3)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.135 Line Spacing=			(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	ABELL2744-PRI-NIRCAM-3	RA: 00 14 20.1431 (3.5839296d) Dec: -30 24 20.64 (-30.40573d) Equinox: J2000	Epoch of Position: 2015.5	V=24	Reference Frame: SIMBAD				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=CLUSTER OF GALAXIES Description=[HIGH REDSHIFT CLUSTER]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) ABELL2744-PRI-NIRCAM-3	(3) ABELL2744-PRI-NIRCAM-3	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=14	POS TARG -1.0,-1.0	Pattern 3, Exps 1-1 in NIRCcam-primary-3 (35) (3)	1245 Secs (7470 Secs)	
									[=>(Pattern 1,1)]	[1]
									[=>(Pattern 1,2)]	[2]
									[=>(Pattern 1,3)]	[3]
									[=>(Pattern 2,1)]	[3]
								[=>(Pattern 2,2)]	[3]	
								[=>(Pattern 2,3)]	[3]	

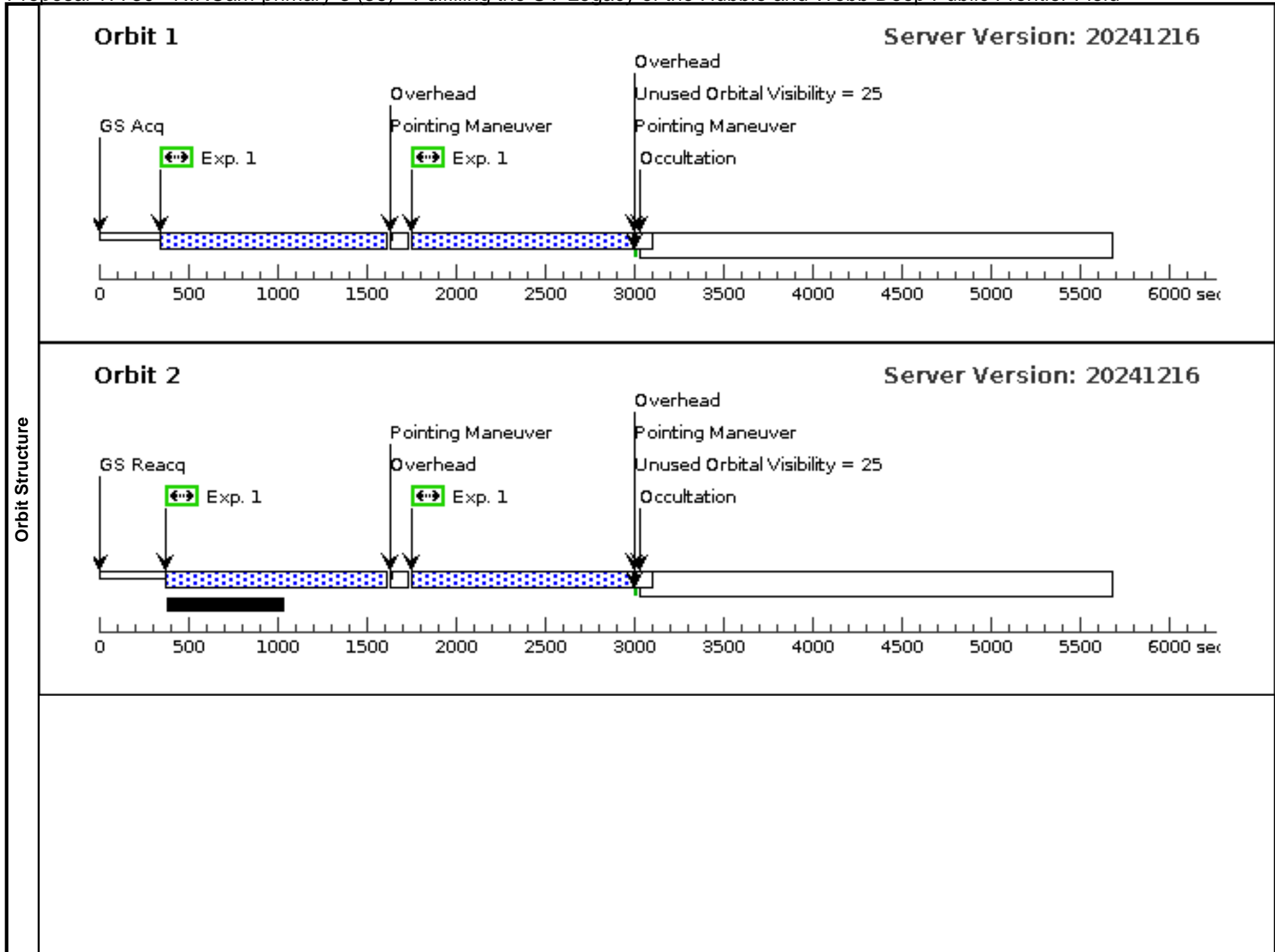


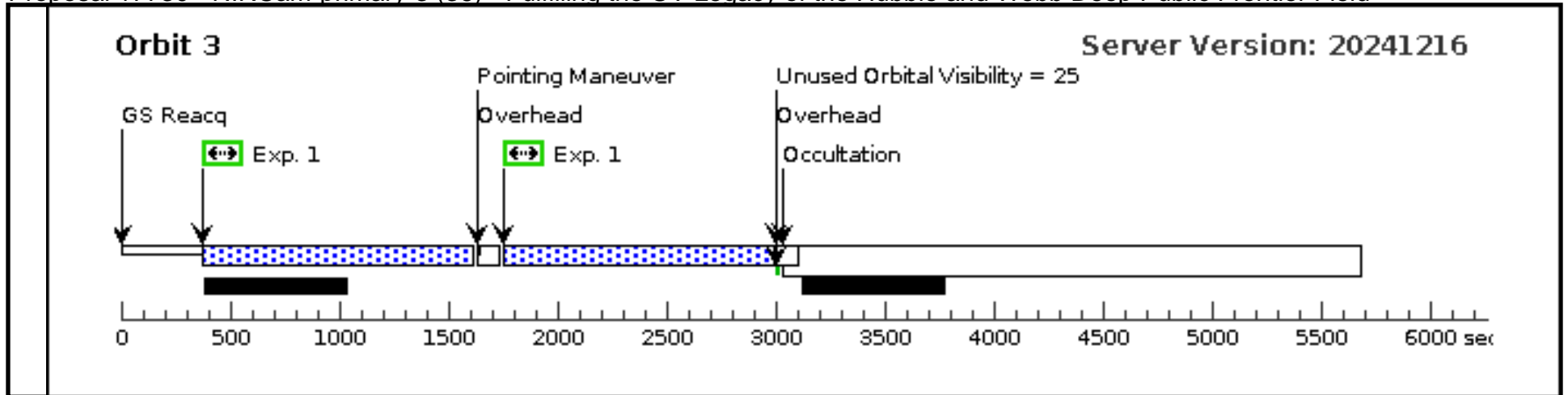


Proposal 17730 - NIRCcam-primary-3 (36) - Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field

Tue May 06 13:00:26 GMT 2025

Visit	Proposal 17730, NIRCcam-primary-3 (36), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 11									
	(Exposure 1 (Pattern 3, Exps 1-1 in NIRCcam-primary-3 (36)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern		Exposures					
	(3)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.135 Line Spacing=	(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	ABELL2744-PRI-NIRCAM-3	RA: 00 14 20.1431 (3.5839296d) Dec: -30 24 20.64 (-30.40573d) Equinox: J2000	Epoch of Position: 2015.5	V=24	Reference Frame: SIMBAD				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=CLUSTER OF GALAXIES Description=[HIGH REDSHIFT CLUSTER]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) ABELL2744-PRI-NIRCAM-3	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=14	POS TARG -1.5,-1.5	Pattern 3, Exps 1-1 in NIRCcam-primary-3 (36) (3)	1245 Secs (7470 Secs)		
								[=>(Pattern 1,1)]	[1]	
								[=>(Pattern 1,2)]	[2]	
								[=>(Pattern 1,3)]	[3]	
								[=>(Pattern 2,1)]	[3]	
							[=>(Pattern 2,2)]	[3]		
							[=>(Pattern 2,3)]	[3]		

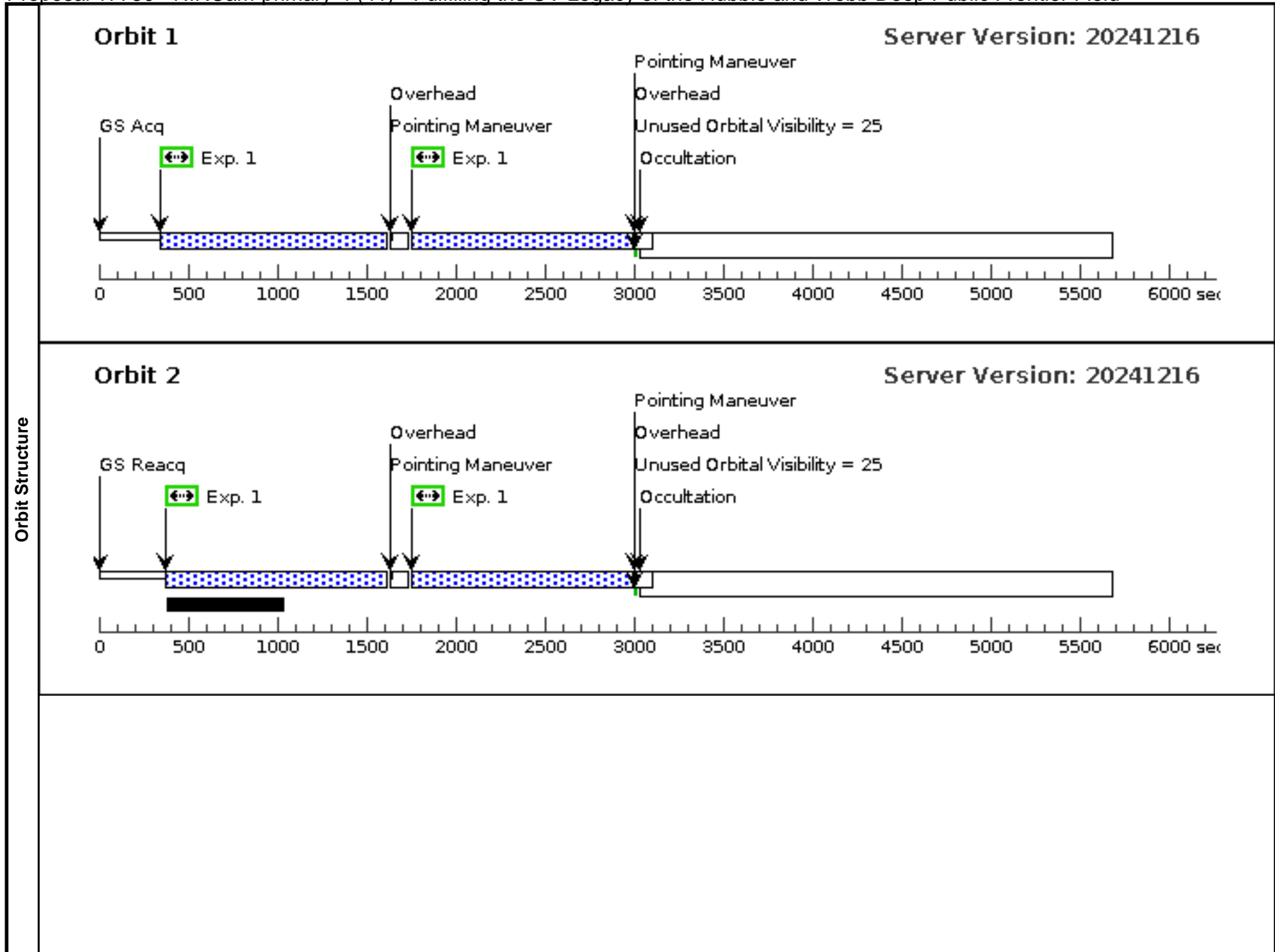


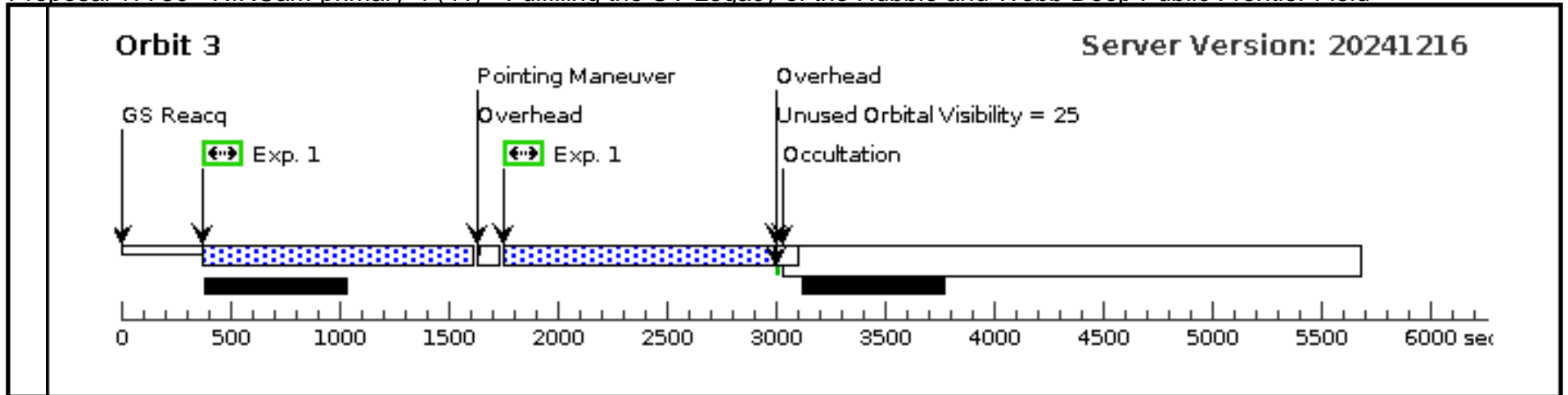


Proposal 17730 - NIRCam-primary-4 (41) - Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field

Tue May 06 13:00:26 GMT 2025

Visit	Proposal 17730, NIRCam-primary-4 (41), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 11 <i>Comments: [POINTING 4] 3-orbit block with 3-point dither line pattern starting at +1 arcsec and each subsequent 3-orbit visit is offset in x+y by -0.5 arcsec to cover the UVIS chip gap and mitigate striping. Each orbit is split in 2 to mitigate possible issues with astrometry recovery. 3-orbit x 6 visits = 18 orbits per primary pointing.</i>									
	Diagnosics (Exposure 1 (Pattern 3, Exps 1-1 in NIRCam-primary-4 (41)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(3)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.135 Line Spacing=	(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	ABELL2744-PRI-NIRCAM-4	RA: 00 14 10.7010 (3.5445875d) Dec: -30 22 35.04 (-30.37640d) Equinox: J2000	Epoch of Position: 2015.5	V=24	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=CLUSTER OF GALAXIES Description=[HIGH REDSHIFT CLUSTER]</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(4) ABELL2744-PRI-NIRCAM-4	(4) ABELL2744-PRI-NIRCAM-4	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=14	POS TARG 1.0,1.0	Pattern 3, Exps 1-1 in NIRCam-primary-4 (41) (3)	1245 Secs (7470 Secs)	
									[=>(Pattern 1,1)]	[1]
									[=>(Pattern 1,2)]	[2]
									[=>(Pattern 1,3)]	[3]
								[=>(Pattern 2,1)]	[2]	
								[=>(Pattern 2,2)]	[3]	
								[=>(Pattern 2,3)]	[3]	

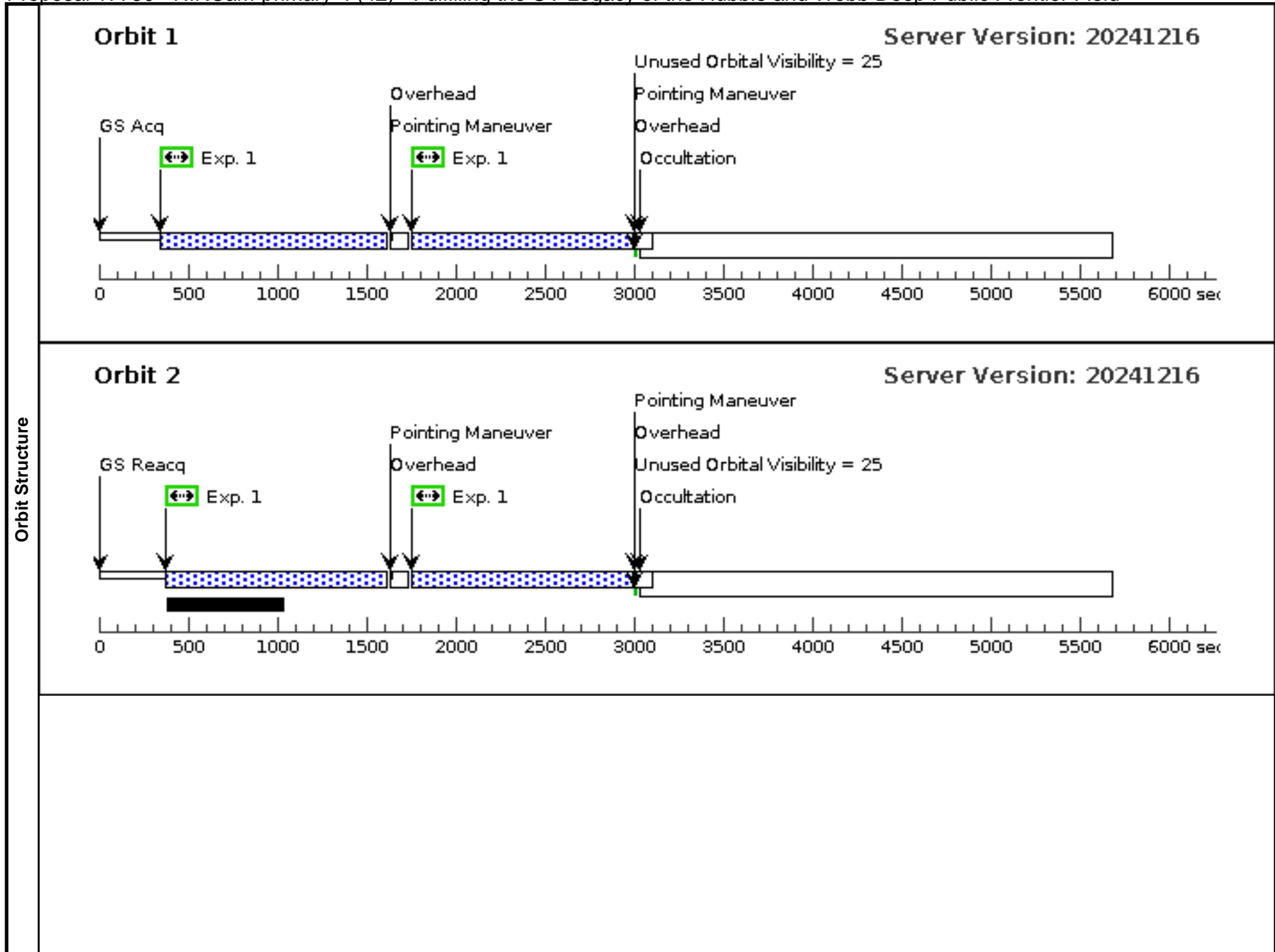


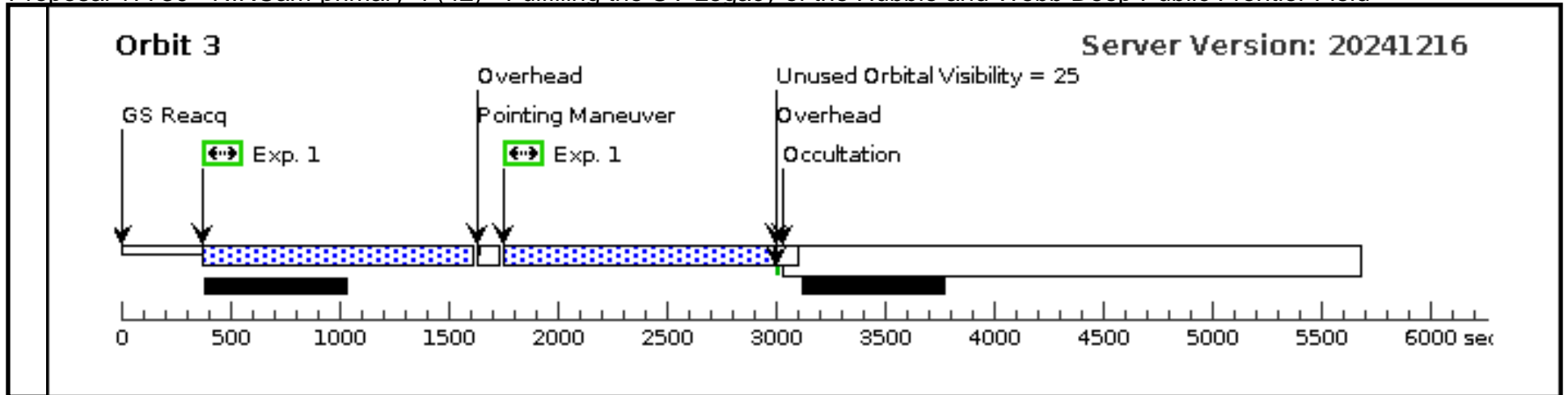


Proposal 17730 - NIRCcam-primary-4 (42) - Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field

Tue May 06 13:00:26 GMT 2025

Visit	Proposal 17730, NIRCcam-primary-4 (42), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 11									
	(Exposure 1 (Pattern 3, Exps 1-1 in NIRCcam-primary-4 (42)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern			Exposures				
	(3)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	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=	(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	ABELL2744-PRI-NIRCAM-4	RA: 00 14 10.7010 (3.5445875d) Dec: -30 22 35.04 (-30.37640d) Equinox: J2000	Epoch of Position: 2015.5	V=24	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=CLUSTER OF GALAXIES Description=[HIGH REDSHIFT CLUSTER]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(4) ABELL2744-PRI-NIRCAM-4	(4) ABELL2744-PRI-NIRCAM-4	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=14	POS TARG 0.5,0.5	Pattern 3, Exps 1-1 in NIRCcam-primary-4 (42) (3)	1245 Secs (7470 Secs)	
									[=>(Pattern 1,1)]	[1]
									[=>(Pattern 1,2)]	[2]
									[=>(Pattern 1,3)]	[3]
									[=>(Pattern 2,1)]	[3]
								[=>(Pattern 2,2)]	[3]	
								[=>(Pattern 2,3)]	[3]	

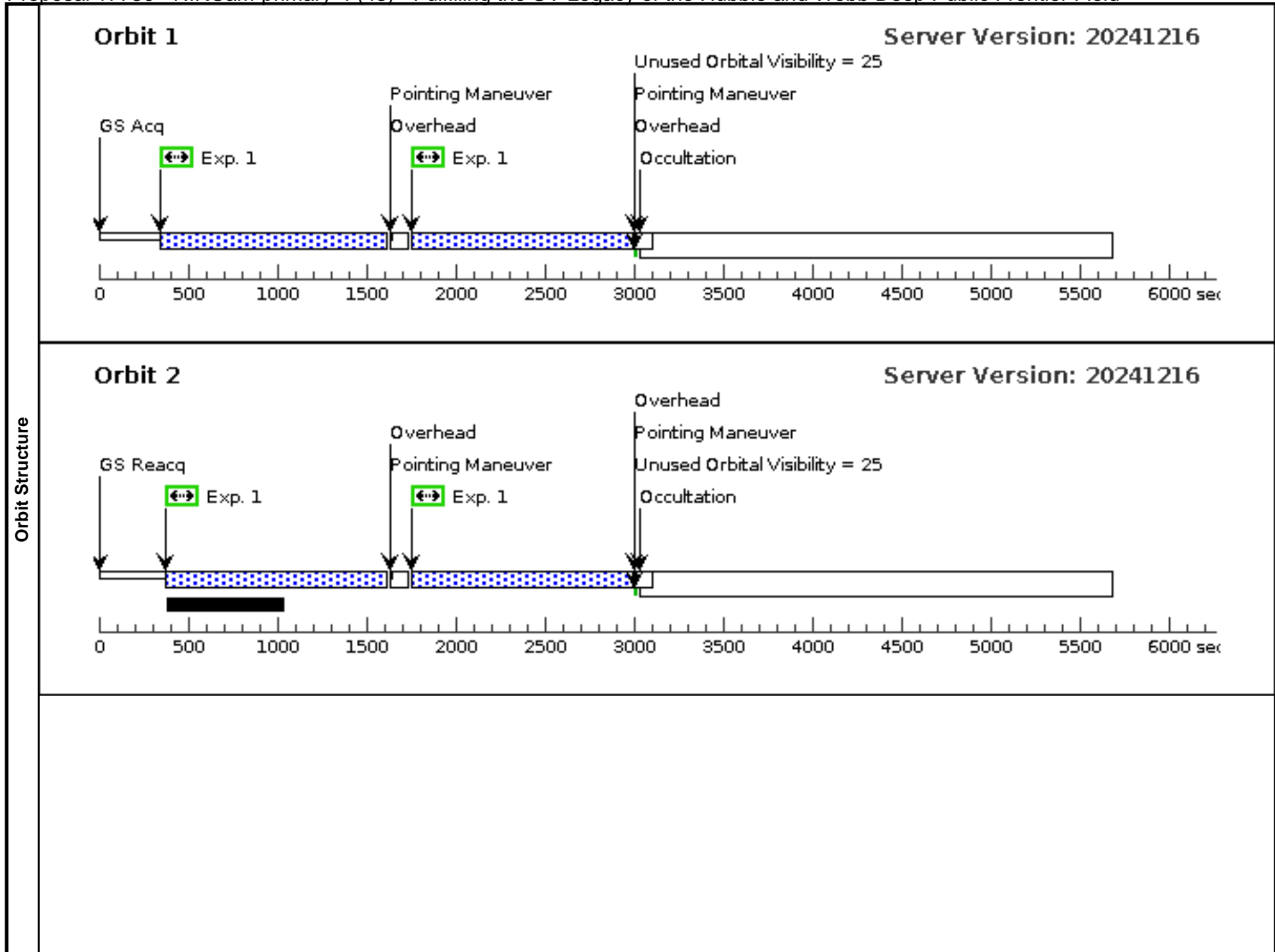


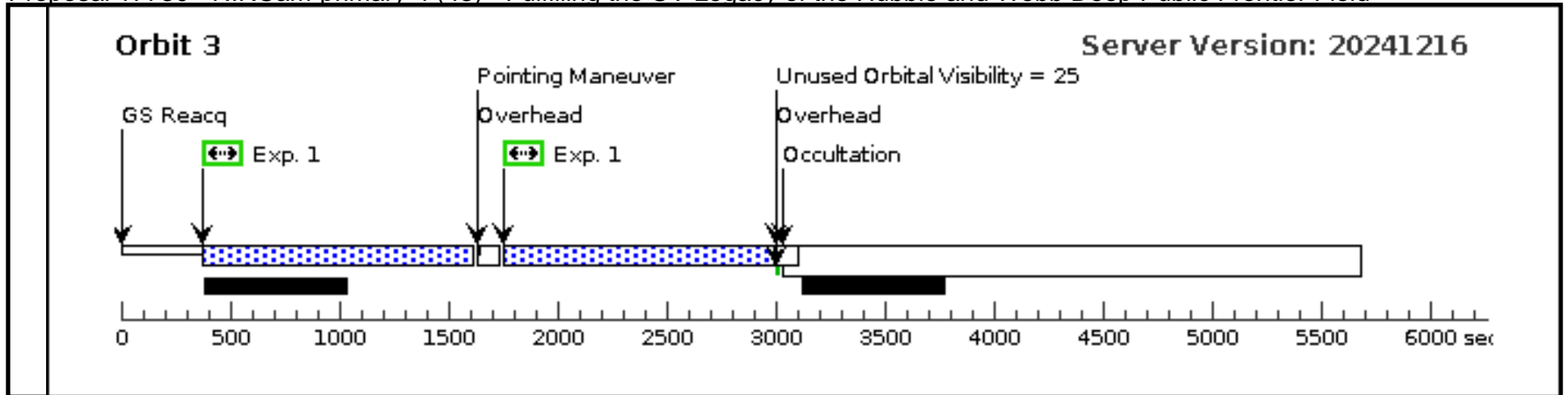


Proposal 17730 - NIRCcam-primary-4 (43) - Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field

Tue May 06 13:00:26 GMT 2025

Visit	Proposal 17730, NIRCcam-primary-4 (43), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 11									
	Patterns	#	Primary Pattern				Secondary Pattern			
(3)		Pattern Type=WFC3-UVIS-GAP-LINE		Coordinate Frame=POS-TARG		Pattern Type=WFC3-UVIS-DITHER-LINE-3PT		Coordinate Frame=POS-TARG		(1)
		Purpose=MOSAIC		Pattern Orientation=85.759		Purpose=DITHER		Pattern Orientation=46.84		
		Number Of Points=2		Angle Between Sides=		Number Of Points=3		Angle Between Sides=		
		Point Spacing=2.414		Center Pattern=true		Point Spacing=0.135		Center Pattern=false		
		Line Spacing=				Line Spacing=				
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous		
	(4)	ABELL2744-PRI-NIRCAM-4	RA: 00 14 10.7010 (3.5445875d) Dec: -30 22 35.04 (-30.37640d) Equinox: J2000		Epoch of Position: 2015.5		V=24	Reference Frame: SIMBAD		
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=CLUSTER OF GALAXIES Description=[HIGH REDSHIFT CLUSTER]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(4) ABELL2744-PRI-NIRCAM-4		WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=14		Pattern 3, Exps 1-1 in NIRCcam-primary-4 (43) (3)	1245 Secs (7470 Secs)	
									[==>(Pattern 1,1)]	[1]
									[==>(Pattern 1,2)]	[2]
									[==>(Pattern 1,3)]	[3]
								[==>(Pattern 2,1)]	[1]	
								[==>(Pattern 2,2)]	[2]	
								[==>(Pattern 2,3)]	[3]	

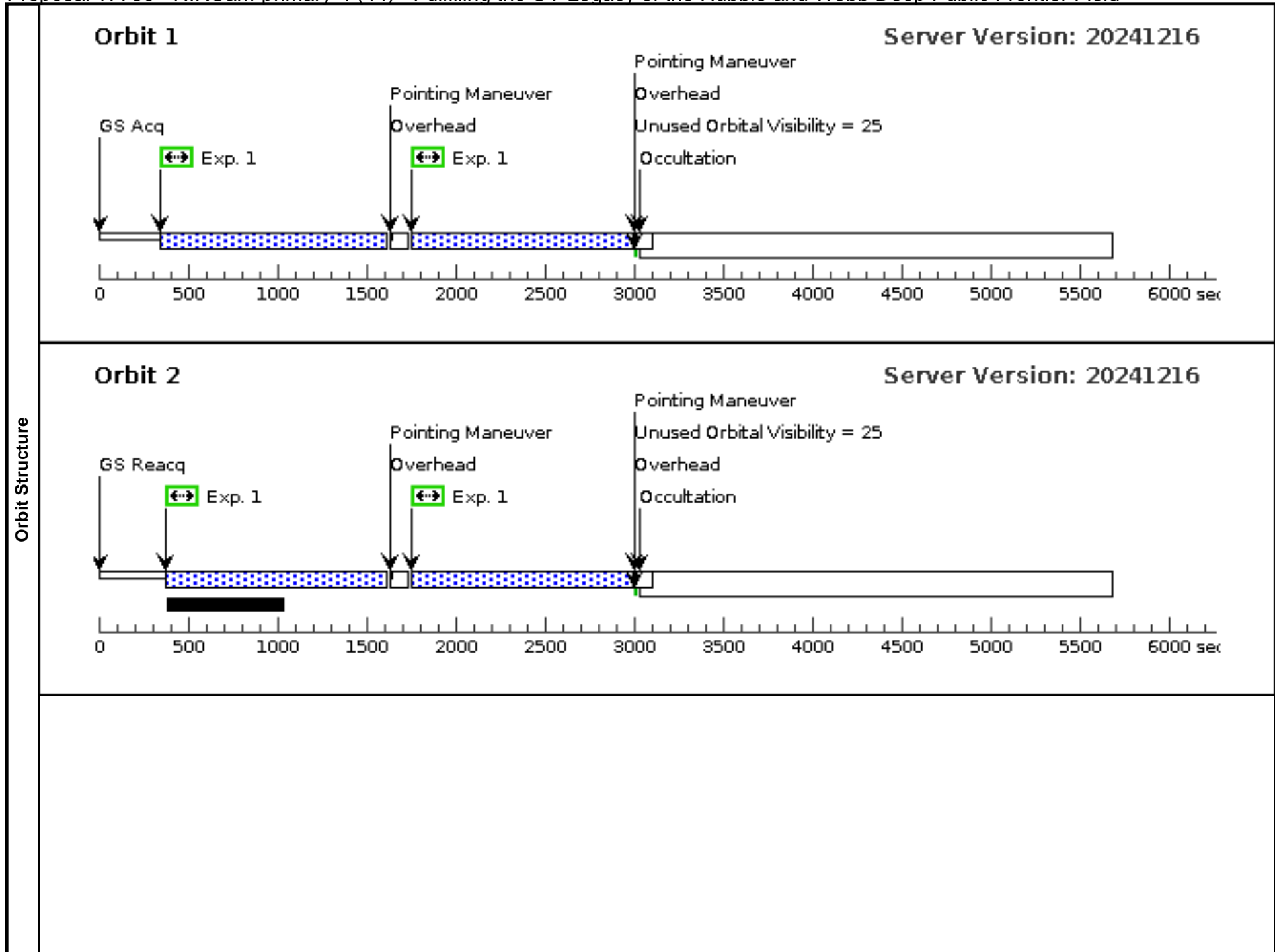


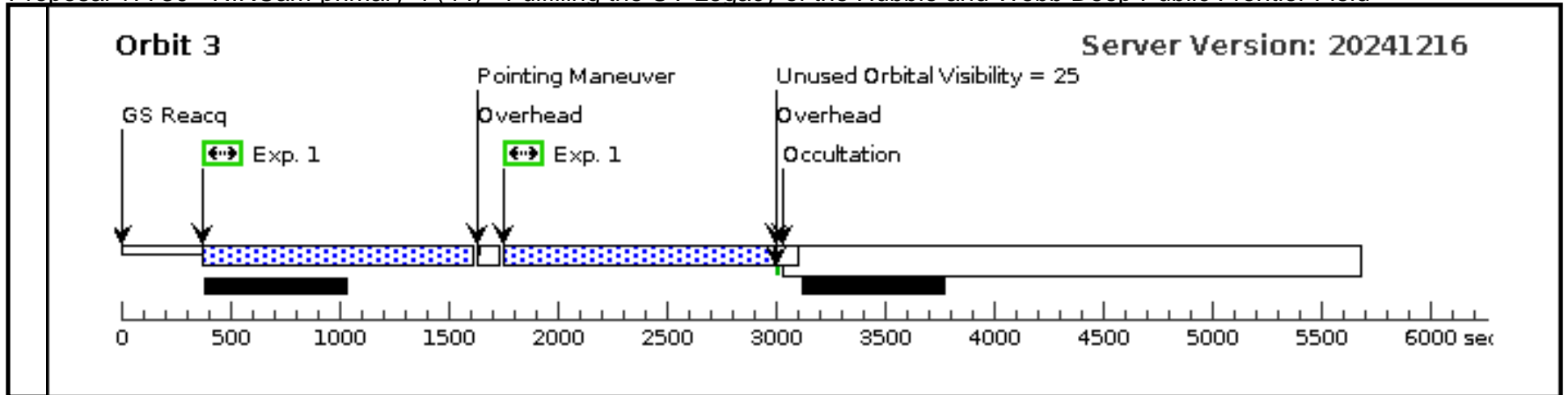


Proposal 17730 - NIRCcam-primary-4 (44) - Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field

Tue May 06 13:00:26 GMT 2025

Visit	Proposal 17730, NIRCcam-primary-4 (44), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 11									
	(Exposure 1 (Pattern 3, Exps 1-1 in NIRCcam-primary-4 (44)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern		Exposures					
	(3)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.135 Line Spacing=	(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	ABELL2744-PRI-NIRCAM-4	RA: 00 14 10.7010 (3.5445875d) Dec: -30 22 35.04 (-30.37640d) Equinox: J2000	Epoch of Position: 2015.5	V=24	Reference Frame: SIMBAD				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=CLUSTER OF GALAXIES Description=[HIGH REDSHIFT CLUSTER]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(4) ABELL2744-PRI-NIRCAM-4	(4) ABELL2744-PRI-NIRCAM-4	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=14	POS TARG -0.5,-0.5	Pattern 3, Exps 1-1 in NIRCcam-primary-4 (44) (3)	1245 Secs (7470 Secs)	
									[=>(Pattern 1,1)]	[1]
									[=>(Pattern 1,2)]	[2]
									[=>(Pattern 1,3)]	[3]
									[=>(Pattern 2,1)]	[3]
								[=>(Pattern 2,2)]	[3]	
								[=>(Pattern 2,3)]	[3]	

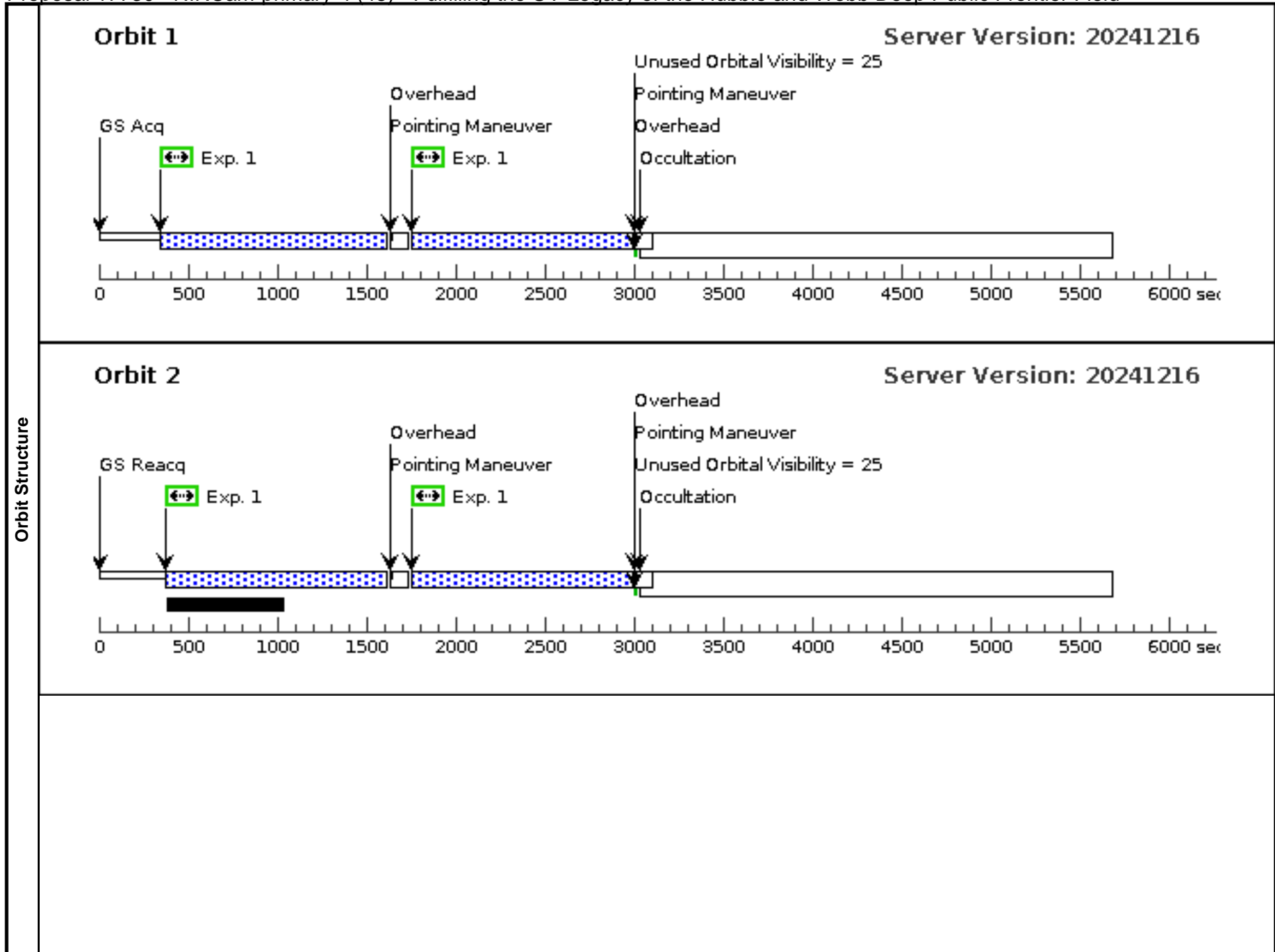


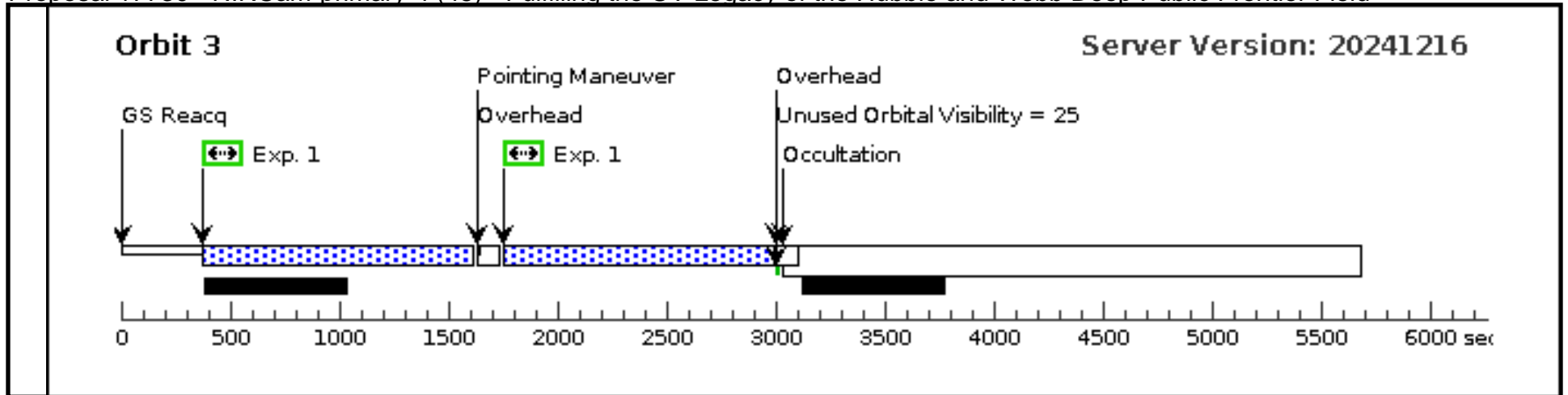


Proposal 17730 - NIRCcam-primary-4 (45) - Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field

Tue May 06 13:00:26 GMT 2025

Visit	Proposal 17730, NIRCcam-primary-4 (45), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 11									
	(Exposure 1 (Pattern 3, Exps 1-1 in NIRCcam-primary-4 (45)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern			Exposures				
	(3)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	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=			(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	ABELL2744-PRI-NIRCAM-4	RA: 00 14 10.7010 (3.5445875d) Dec: -30 22 35.04 (-30.37640d) Equinox: J2000	Epoch of Position: 2015.5	V=24	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=CLUSTER OF GALAXIES Description=[HIGH REDSHIFT CLUSTER]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(4) ABELL2744-PRI-NIRCAM-4	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=14	POS TARG -1.0,-1.0	Pattern 3, Exps 1-1 in NIRCcam-primary-4 (45) (3)	1245 Secs (7470 Secs)		
								[=>(Pattern 1,1)]	[1]	
								[=>(Pattern 1,2)]	[2]	
								[=>(Pattern 1,3)]	[3]	
								[=>(Pattern 2,1)]	[3]	
							[=>(Pattern 2,2)]	[3]		
							[=>(Pattern 2,3)]	[3]		





Proposal 17730 - NIRCcam-primary-4 (46) - Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field

Tue May 06 13:00:26 GMT 2025

Visit	Proposal 17730, NIRCcam-primary-4 (46), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 11									
	(Exposure 1 (Pattern 3, Exps 1-1 in NIRCcam-primary-4 (46)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern		Exposures					
	(3)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.135 Line Spacing=	(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	ABELL2744-PRI-NIRCAM-4	RA: 00 14 10.7010 (3.5445875d) Dec: -30 22 35.04 (-30.37640d) Equinox: J2000	Epoch of Position: 2015.5	V=24	Reference Frame: SIMBAD				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=CLUSTER OF GALAXIES Description=[HIGH REDSHIFT CLUSTER]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(4) ABELL2744-PRI-NIRCAM-4	(4) ABELL2744-PRI-NIRCAM-4	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=14	POS TARG -1.5,-1.5	Pattern 3, Exps 1-1 in NIRCcam-primary-4 (46) (3)	1245 Secs (7470 Secs)	
									[=>(Pattern 1,1)]	[1]
									[=>(Pattern 1,2)]	[2]
									[=>(Pattern 1,3)]	[3]
									[=>(Pattern 2,1)]	[3]
								[=>(Pattern 2,2)]	[3]	
								[=>(Pattern 2,3)]	[3]	

