



## 17293 - The Boulder Field of Didymos

Cycle: 30, Proposal Category: GO/DD

(Availability Mode: SUPPORTED)

### INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
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### VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) DIDYMOS	WFC3/UVIS	1	08-Feb-2023 16:00:14.0	yes
02	(1) DIDYMOS	WFC3/UVIS	1	08-Feb-2023 16:00:15.0	yes
03	(1) DIDYMOS	WFC3/UVIS	1	08-Feb-2023 16:00:16.0	yes
04	(1) DIDYMOS	WFC3/UVIS	1	08-Feb-2023 16:00:16.0	yes
05	(1) DIDYMOS	WFC3/UVIS	1	08-Feb-2023 16:00:17.0	yes
06	(1) DIDYMOS	WFC3/UVIS	1	08-Feb-2023 16:00:18.0	yes
07	(1) DIDYMOS	WFC3/UVIS	1	08-Feb-2023 16:00:18.0	yes
08	(1) DIDYMOS	WFC3/UVIS	1	08-Feb-2023 16:00:19.0	yes
09	(1) DIDYMOS	WFC3/UVIS	1	08-Feb-2023 16:00:20.0	yes
10	(1) DIDYMOS	WFC3/UVIS	1	08-Feb-2023 16:00:20.0	yes
11	(1) DIDYMOS	WFC3/UVIS	1	08-Feb-2023 16:00:21.0	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>
12	(1) DIDYMOS	WFC3/UVIS	1	08-Feb-2023 16:00:22.0	yes
13	(1) DIDYMOS	WFC3/UVIS	1	08-Feb-2023 16:00:22.0	yes
14	(1) DIDYMOS	WFC3/UVIS	1	08-Feb-2023 16:00:23.0	yes
15	(1) DIDYMOS	WFC3/UVIS	1	08-Feb-2023 16:00:24.0	yes
16	(1) DIDYMOS	WFC3/UVIS	1	08-Feb-2023 16:00:24.0	yes
22	(1) DIDYMOS	WFC3/UVIS	1	08-Feb-2023 16:00:25.0	yes
23	(1) DIDYMOS	WFC3/UVIS	1	08-Feb-2023 16:00:26.0	yes

18 Total Orbits Used

## **ABSTRACT**

Deep post-impact observations of NASA DART asteroid target Didymos, taken on UT 2022 December 19, reveal the existence of a swarm of about 20 discrete, co-moving objects. These are interpreted as boulders lifted from the asteroid surface by the DART impact, with sizes in the approximate range 1 m to 3 m. Depending on the size distribution, large "particles" like those observed may dominate the ejected mass, so that it is important to characterize their properties (especially size), their number, and their velocity. We propose deep observations with HST and WFC3 in order to obtain 2nd-epoch observations of the boulder swarm. We will determine the brightness distribution (a proxy for the size distribution), a constraint on the boulder shape, and estimate the ejection velocities (speed and direction) from astrometric measurements. In addition, the proposed observations will be used to measure and model the diffuse debris trail consisting of centimeter-sized and larger particles, in order to reach the fullest possible characterization of the DART impact ejecta. The observations are urgent because Didymos is rapidly fading as it recedes from the Sun and Earth and because the boulders are already very faint. The proposed measurements maximally capitalize on the resolution and sensitivity of HST. Results will be of value both for the practical understanding of impact physics, and for the interpretation of natural impacts of the type already detected in P/2010 A2 and 596 Scheila. This is a unique observation of a unique event.

## **OBSERVING DESCRIPTION**

The observational requirement is that we reach a sensitivity to faint sources comparable to that obtained on UT 2021 December 19. To reach the faintest magnitudes, the science objectives are best met using the same instrument (WFC3) and filter (F350LP) combination as employed in GO 16674 and 17289. The F350LP filter is a long-pass filter with very broad spectral coverage (FWHM > 4000Å), providing maximum sensitivity to

Proposal 17293 (STScI Edit Number: 6, Created: Wednesday, February 8, 2023 at 4:00:26 PM Eastern Standard Time) - Overview

continuum sources. It has become the standard filter for numerous Hubble GO observations of faint solar system targets, from asteroids and comet nuclei to Kuiper belt objects. Our plan is to obtain dithered images (to escape the effects of bad pixels and the inter-chip gap) with five images per orbit having exposure times of 300 s each. Because co-moving objects are spread over a wide area, we will use the full WFC3 CCD readout, providing a 1600 x 1600 arcsec field of view. Prior observations of moving objects from archived data show that the limiting magnitude is affected by interference from trailed field objects, a problem which does not affect observations of stars and galaxies where no trailing is involved. Galaxies are a particular nuisance, since their diffuse, large-scale and structured brightness is difficult to mask. The best protection from degradation of the sensitivity by trailed objects in the background is provided by obtaining more data with different and uncorrelated backgrounds. Repeated detection of fragments in different orbits, for example, provides rock solid confidence that these objects are real and not noise peaks in the data. For this reason, and because we need to reach extreme depths to sample the objects detected in December 19 data, we request 16 orbits with WFC3 and the F350LP filter. The requested orbits provide unique information on the properties of the largest bodies ejected by the spacecraft impact. In this way we hope to exploit the unique capabilities of HST and the singular opportunity provided by the DART impact to provide the best possible characterization of impact. We request DDT observations to be taken at the earliest opportunity in calendar year 2023, in order to combat progressive geometric fading as the target recedes from the Sun and Earth. As described in the next paragraph, observations near UT 2023 February 1 would permit us to detect all the co-moving boulders detected in the December 19 HST data and therefore we describe the observing conditions on this date. The changing geometry of Didymos motivates observations as early as possible in calendar year 2023. Bearing in mind typical HST response times, we take as a realistic target date UT 2023 February 1. Fading caused by the growing heliocentric and geocentric distances is partly ameliorated by a decrease in the phase angle (i.e. by a reduction in phase dimming). The resulting fading due to geometry is  $m = 1.72$  magnitudes (a factor of about 4.9 in flux density). Therefore, the brightest co-mover will appear at  $V = 26.5 + 1.7 = 28.2$  on February 1, while the faintest reliably detected boulders, at  $V = 27.8$  in the December data, will appear at  $V = 29.5$  on February 1. Note that these estimates neglect the effects of rotation, which can cause any co-mover to be brighter or fainter than estimated here by an amount depending on the shape and rotational state of the body. We used the WFC3 Exposure Time Calculator to find that the brightest co-mover would be detected at SNR (signal-to-noise ratio) = 12.4 and the faintest at SNR = 3.7, on UT 2023 February 1, given 16 orbits of HST with WFC3 and F350LP. Hence, our request is for 16 orbits with WFC3 and F350LP, as close as possible to UT 2023 February 1. The ephemeris uncertainties have no impact on the planned observations. The non-sidereal rates of Didymos as observed from HST fall well with HSTs tracking capabilities (which are limited by linear interpolation from the ephemeris). Rates at the times of the October and December HST observations were 3 to 7 times larger but excellent data were still secured. The elongation of Didymos is 152 on February 1, and remains above the HST solar exclusion zone of 55 until UT 2023 July 6. There is no observationally favorable, comparably close pass to Earth by Didymos until 2062.

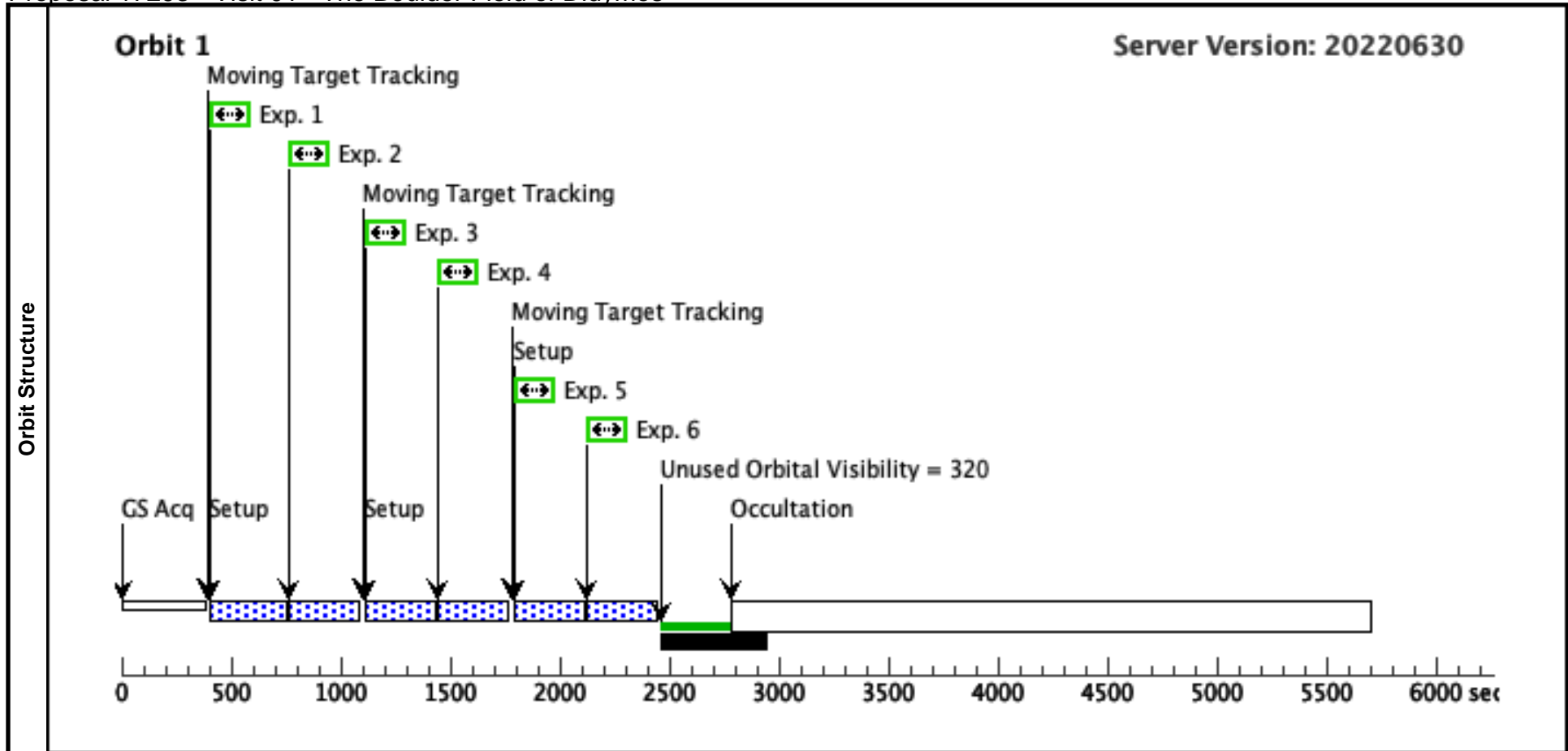
Proposal 17293 - Visit 01 - The Boulder Field of Didymos

Wed Feb 08 21:00:27 GMT 2023

<b>Visit</b>	<b>Proposal 17293, Visit 01, completed</b>						
	<b>Diagnostic Status: No Diagnostics</b>						
	Scientific Instruments: WFC3/UVIS						
	Special Requirements: BEFORE 13-FEB-2023:00:00:00; GROUP 01.02.03.04.05.06.07.08.09.10.11.12.13.14.15.16 WITHIN 2D						

<b>Solar System Targets</b>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(1)	DIDYMOS	TYPE=ASTEROID,A=1.64309124934 2108,E=0.3835237757664423,I=3.413 80667080487 .O=72.9955220559403,W=319.557447 3815775,M=6.411907609321696,EQU INOX=J2000,EPOCH=04-NOV- 2022:12:00:00,EpochTimeScale=TDB, R0=1. .A1=0.,A2=-1.053918254001E- 14,A3=0. .ALN=1.,NM=2.,NN=0.,NK=0.,AMR AT=0.				
<i>Comments: Description=Binary asteroid (65803) Didymos</i>							
<i>Extended=NO</i>							

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6			Sequence 1-6 Non-Int in Visit 01	147 Secs (147 Secs) [==>]
2		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6			Sequence 1-6 Non-Int in Visit 01	147 Secs (147 Secs) [==>]	[1]
3		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	NEW ALIGNMENT		Sequence 1-6 Non-Int in Visit 01	147 Secs (147 Secs) [==>]	[1]
4		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6			Sequence 1-6 Non-Int in Visit 01	147 Secs (147 Secs) [==>]	[1]
5		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	NEW ALIGNMENT		Sequence 1-6 Non-Int in Visit 01	147 Secs (147 Secs) [==>]	[1]
6		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6			Sequence 1-6 Non-Int in Visit 01	147 Secs (147 Secs) [==>]	[1]



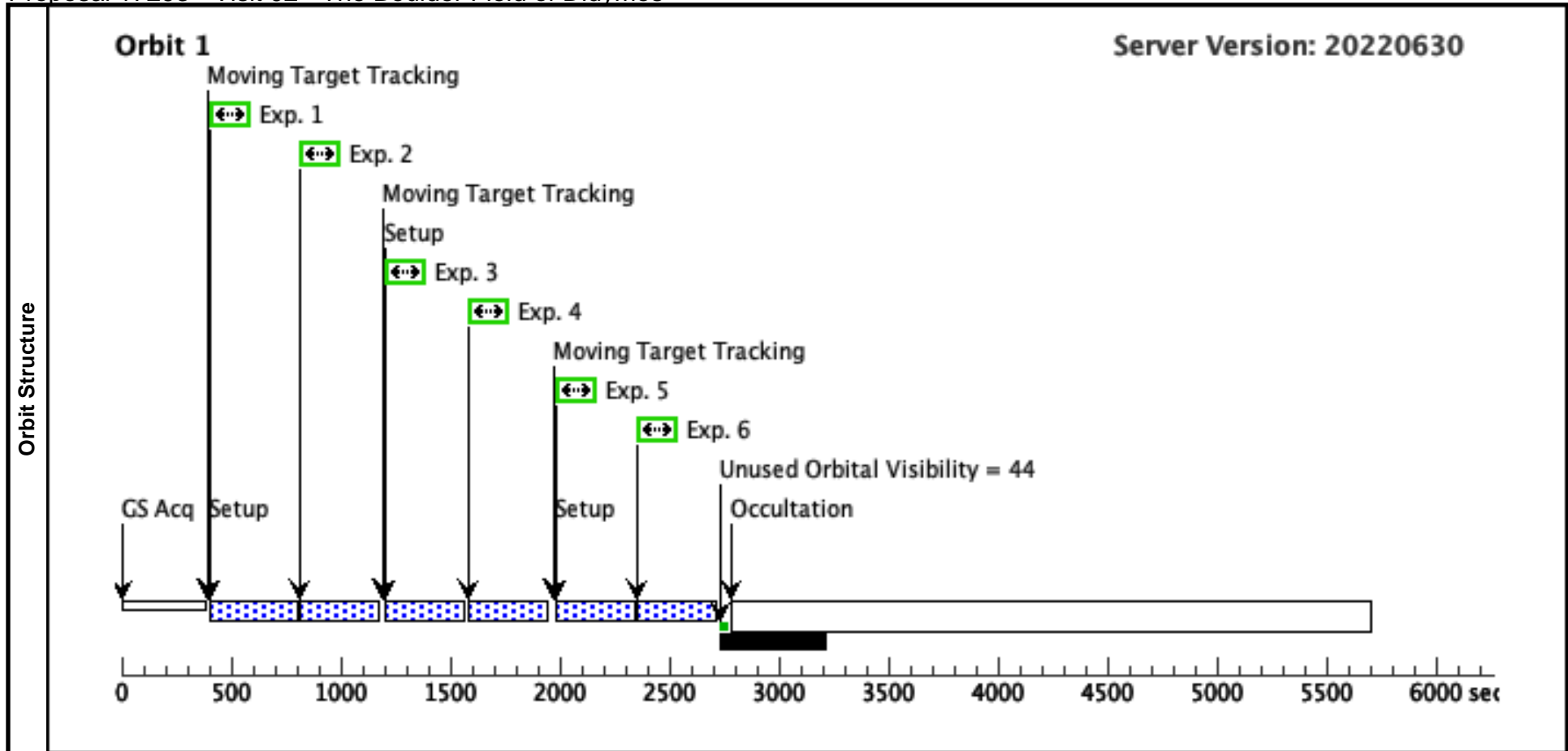
Proposal 17293 - Visit 02 - The Boulder Field of Didymos

Wed Feb 08 21:00:27 GMT 2023

<b>Visit</b>	<b>Proposal 17293, Visit 02, failed</b>						
	<b>Diagnostic Status: No Diagnostics</b>						
	Scientific Instruments: WFC3/UVIS						
	Special Requirements: BEFORE 13-FEB-2023:00:00:00						

<b>Solar System Targets</b>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(1)	DIDYMOS	TYPE=ASTEROID,A=1.64309124934 2108,E=0.3835237757664423,I=3.413 80667080487 .O=72.9955220559403,W=319.557447 3815775,M=6.411907609321696,EQU INOX=J2000,EPOCH=04-NOV- 2022:12:00:00,EpochTimeScale=TDB, R0=1. .A1=0.,A2=-1.053918254001E- 14,A3=0. .ALN=1.,NM=2.,NN=0.,NK=0.,AMR AT=0.				
<i>Comments: Description=Binary asteroid (65803) Didymos</i>							
<i>Extended=NO</i>							

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6		Sequence 1-6 Non-In t in Visit 02	193 Secs (193 Secs) [==>]	[1]
	2	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6		Sequence 1-6 Non-In t in Visit 02	193 Secs (193 Secs) [==>]	[1]
	3	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	NEW ALIGNMENT	Sequence 1-6 Non-In t in Visit 02	193 Secs (193 Secs) [==>]	[1]
	4	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6		Sequence 1-6 Non-In t in Visit 02	193 Secs (193 Secs) [==>]	[1]
	5	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	NEW ALIGNMENT	Sequence 1-6 Non-In t in Visit 02	193 Secs (193 Secs) [==>]	[1]
	6	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6		Sequence 1-6 Non-In t in Visit 02	193 Secs (193 Secs) [==>]	[1]



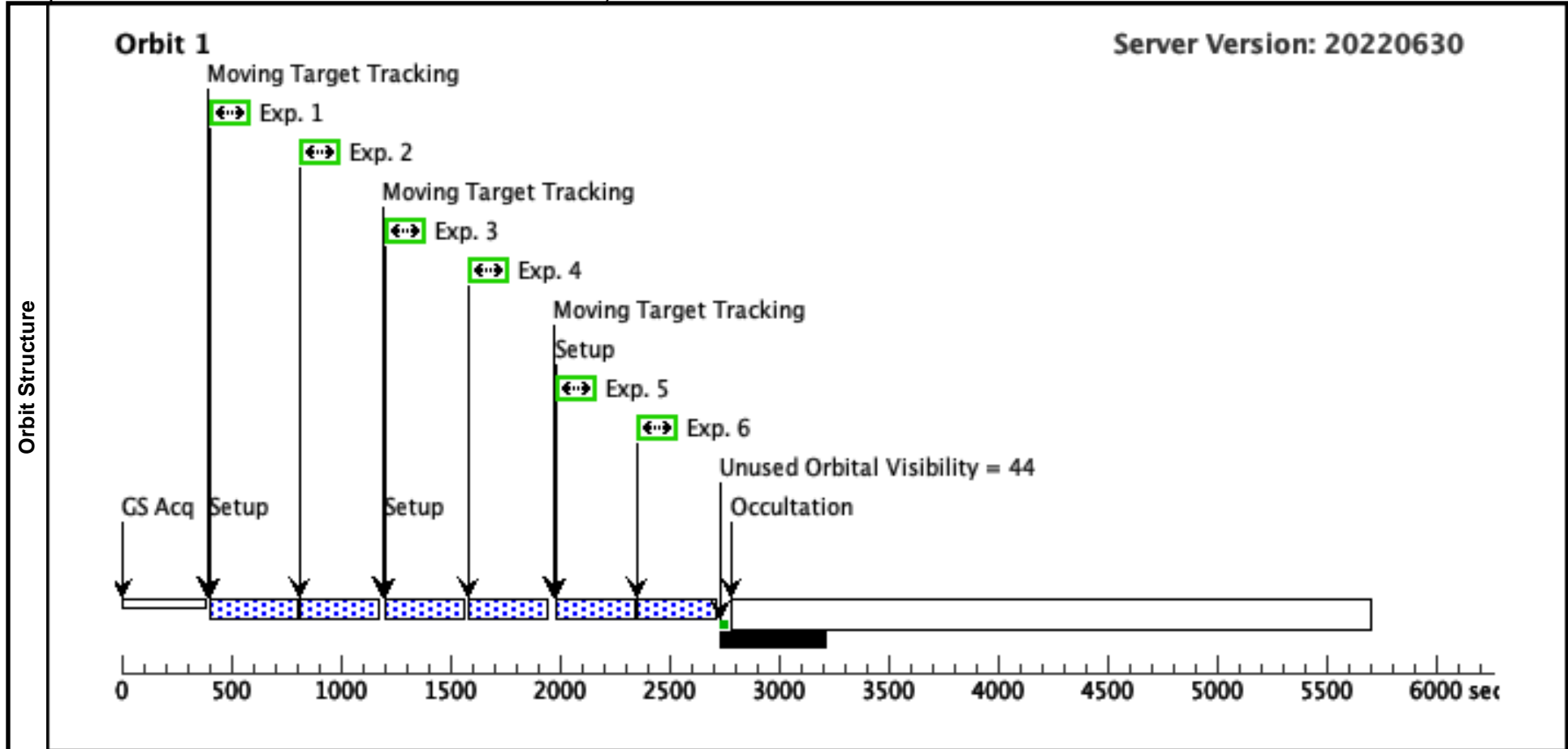
Proposal 17293 - Visit 03 - The Boulder Field of Didymos

Wed Feb 08 21:00:27 GMT 2023

<b>Visit</b>	<b>Proposal 17293, Visit 03, failed</b>						
	<b>Diagnostic Status: No Diagnostics</b>						
	Scientific Instruments: WFC3/UVIS						
	Special Requirements: BEFORE 13-FEB-2023:00:00:00						

<b>Solar System Targets</b>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(1)	DIDYMOS	TYPE=ASTEROID,A=1.64309124934 2108,E=0.3835237757664423,I=3.413 80667080487 .O=72.9955220559403,W=319.557447 3815775,M=6.411907609321696,EQU INOX=J2000,EPOCH=04-NOV- 2022:12:00:00,EpochTimeScale=TDB, R0=1. .A1=0.,A2=-1.053918254001E- 14,A3=0. .ALN=1.,NM=2.,NN=0.,NK=0.,AMR AT=0.				
<i>Comments: Description=Binary asteroid (65803) Didymos</i>							
<i>Extended=NO</i>							

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6			Sequence 1-6 Non-In t in Visit 03	193 Secs (193 Secs) [==>]
2		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6			Sequence 1-6 Non-In t in Visit 03	193 Secs (193 Secs) [==>]	[1]
3		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	NEW ALIGNMENT		Sequence 1-6 Non-In t in Visit 03	193 Secs (193 Secs) [==>]	[1]
4		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6			Sequence 1-6 Non-In t in Visit 03	193 Secs (193 Secs) [==>]	[1]
5		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	NEW ALIGNMENT		Sequence 1-6 Non-In t in Visit 03	193 Secs (193 Secs) [==>]	[1]
6		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6			Sequence 1-6 Non-In t in Visit 03	193 Secs (193 Secs) [==>]	[1]



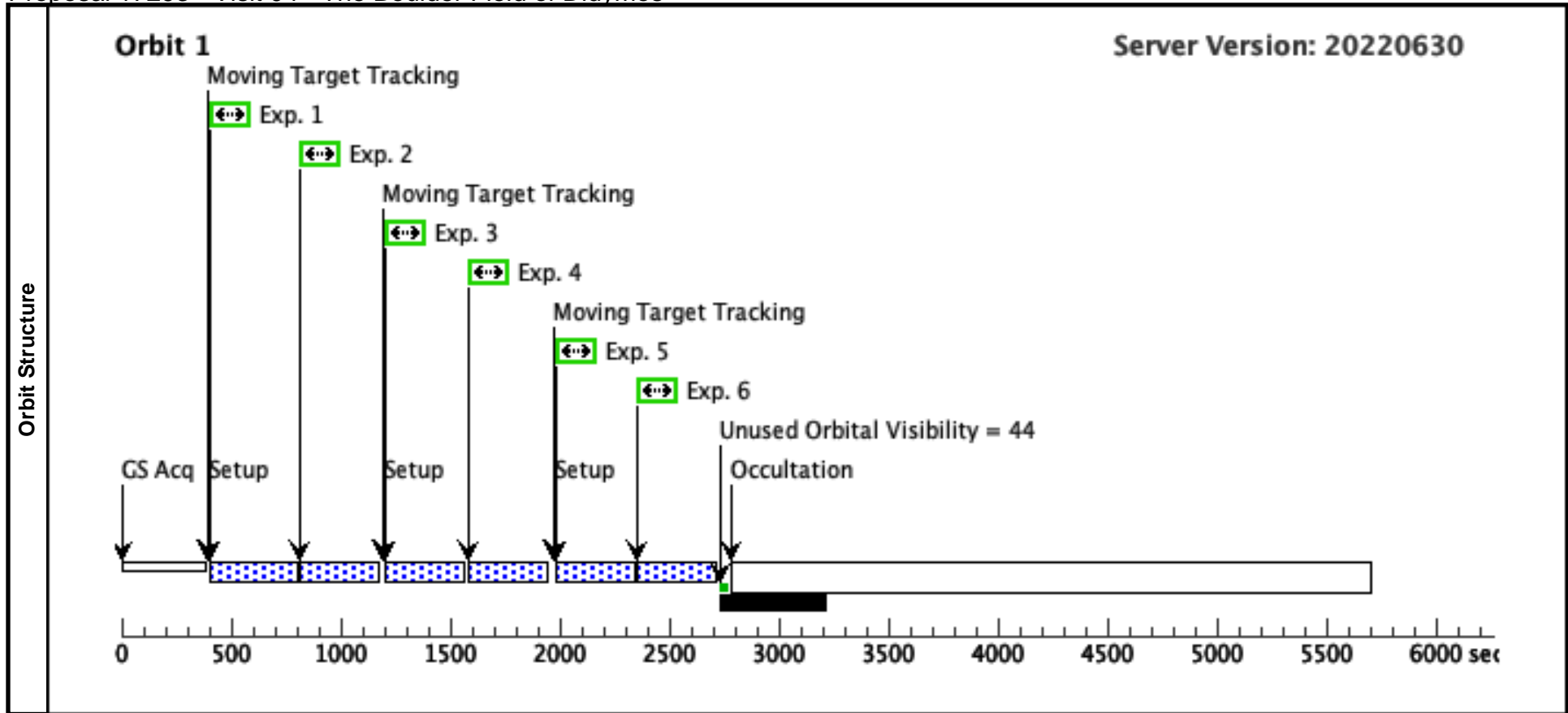
Proposal 17293 - Visit 04 - The Boulder Field of Didymos

Wed Feb 08 21:00:27 GMT 2023

<b>Visit</b>	<b>Proposal 17293, Visit 04, completed</b>						
	<b>Diagnostic Status: No Diagnostics</b>						
	Scientific Instruments: WFC3/UVIS						
	Special Requirements: BEFORE 13-FEB-2023:00:00:00						

<b>Solar System Targets</b>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(1)	DIDYMOS	TYPE=ASTEROID,A=1.64309124934 2108,E=0.3835237757664423,I=3.413 80667080487 .O=72.9955220559403,W=319.557447 3815775,M=6.411907609321696,EQU INOX=J2000,EPOCH=04-NOV- 2022:12:00:00,EpochTimeScale=TDB, R0=1. .A1=0.,A2=-1.053918254001E- 14,A3=0. .ALN=1.,NM=2.,NN=0.,NK=0.,AMR AT=0.				
<i>Comments: Description=Binary asteroid (65803) Didymos</i>							
<i>Extended=NO</i>							

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6			Sequence 1-6 Non-In t in Visit 04	193 Secs (193 Secs) [==>]
2		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6			Sequence 1-6 Non-In t in Visit 04	193 Secs (193 Secs) [==>]	[1]
3		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	NEW ALIGNMENT		Sequence 1-6 Non-In t in Visit 04	193 Secs (193 Secs) [==>]	[1]
4		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6			Sequence 1-6 Non-In t in Visit 04	193 Secs (193 Secs) [==>]	[1]
5		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	NEW ALIGNMENT		Sequence 1-6 Non-In t in Visit 04	193 Secs (193 Secs) [==>]	[1]
6		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6			Sequence 1-6 Non-In t in Visit 04	193 Secs (193 Secs) [==>]	[1]



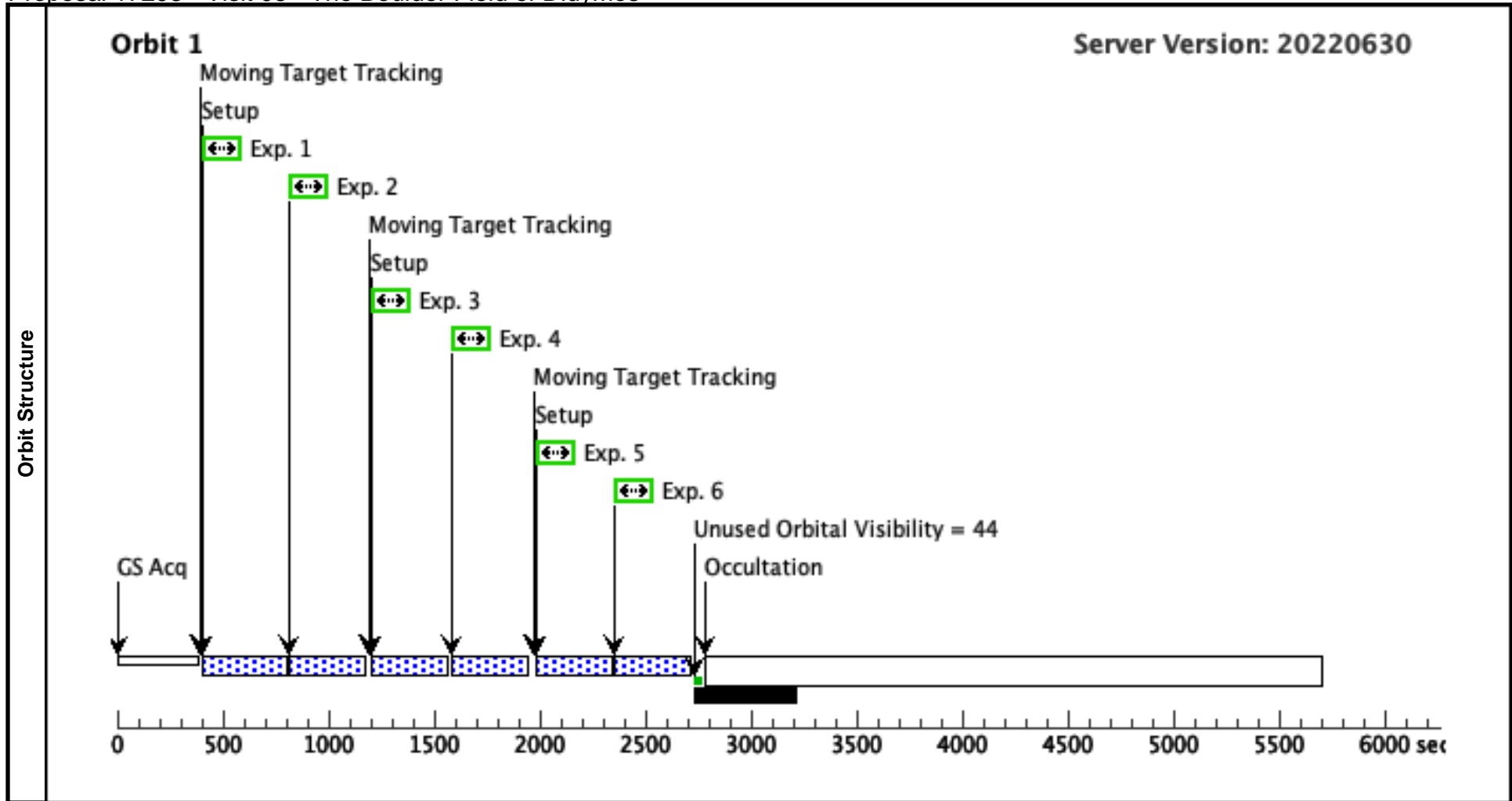
Proposal 17293 - Visit 05 - The Boulder Field of Didymos

Wed Feb 08 21:00:27 GMT 2023

<b>Visit</b>	<b>Proposal 17293, Visit 05, completed</b>						
	<b>Diagnostic Status: No Diagnostics</b>						
	Scientific Instruments: WFC3/UVIS						
	Special Requirements: BEFORE 13-FEB-2023:00:00:00						

<b>Solar System Targets</b>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(1)	DIDYMOS	TYPE=ASTEROID,A=1.64309124934 2108,E=0.3835237757664423,I=3.413 80667080487 .O=72.9955220559403,W=319.557447 3815775,M=6.411907609321696,EQU INOX=J2000,EPOCH=04-NOV- 2022:12:00:00,EpochTimeScale=TDB, R0=1. .A1=0.,A2=-1.053918254001E- 14,A3=0. .ALN=1.,NM=2.,NN=0.,NK=0.,AMR AT=0.				
<i>Comments: Description=Binary asteroid (65803) Didymos</i>							
<i>Extended=NO</i>							

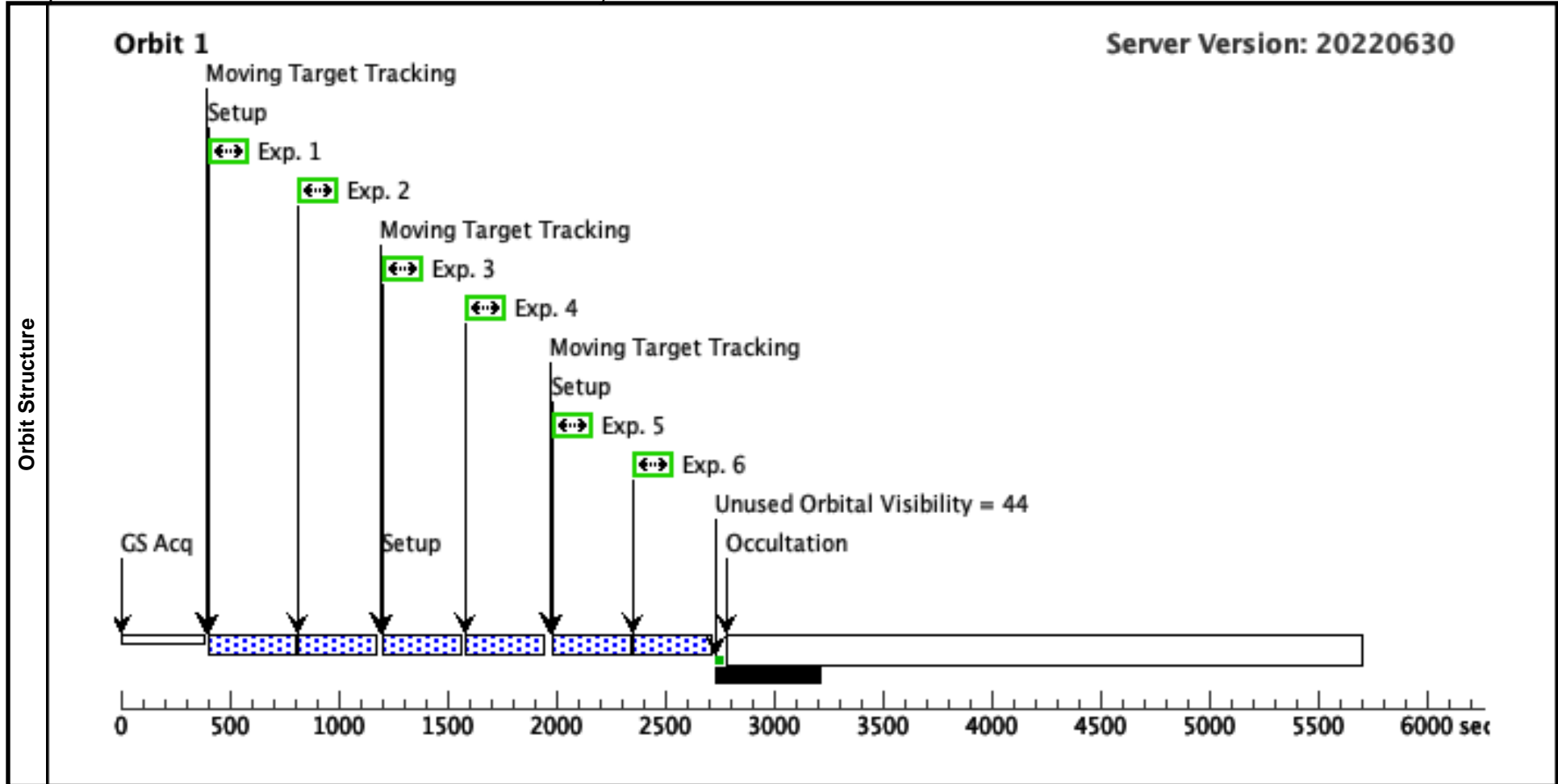
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.2,0.2	Sequence 1-6 Non-Int in Visit 05	193 Secs (193 Secs)	[1]
	2	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.2,0.2	Sequence 1-6 Non-Int in Visit 05	193 Secs (193 Secs)	[1]
	3	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.2,0.2; NEW ALIGNMENT	Sequence 1-6 Non-Int in Visit 05	193 Secs (193 Secs)	[1]
	4	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.2,0.2	Sequence 1-6 Non-Int in Visit 05	193 Secs (193 Secs)	[1]
	5	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.2,0.2; NEW ALIGNMENT	Sequence 1-6 Non-Int in Visit 05	193 Secs (193 Secs)	[1]
	6	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.2,0.2	Sequence 1-6 Non-Int in Visit 05	193 Secs (193 Secs)	[1]



Proposal 17293 - Visit 06 - The Boulder Field of Didymos

Wed Feb 08 21:00:27 GMT 2023

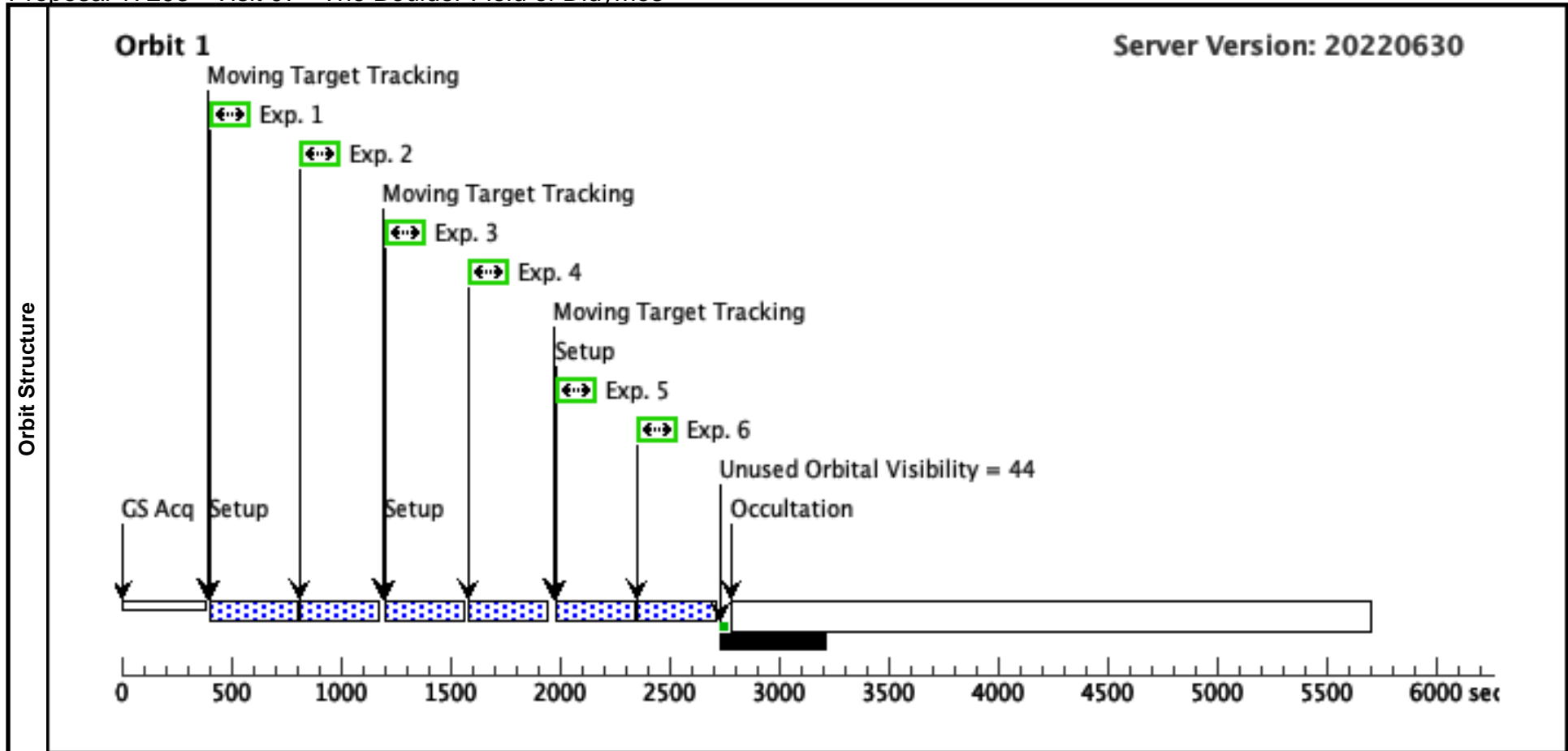
Visit	Proposal 17293, Visit 06, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BEFORE 13-FEB-2023:00:00:00									
	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
Solar System Targets	(1)	DIDYMOS	TYPE=ASTEROID,A=1.64309124934 2108,E=0.3835237757664423,I=3.413 80667080487 .O=72.9955220559403,W=319.557447 3815775,M=6.411907609321696,EQU INOX=J2000,EPOCH=04-NOV- 2022:12:00:00,EpochTimeScale=TDB, R0=1. .A1=0.,A2=-1.053918254001E- 14,A3=0. .ALN=1.,NM=2.,NN=0.,NK=0.,AMR AT=0.			EARTH				
	Comments: Description=Binary asteroid (65803) Didymos Extended=NO									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.2,0.2	Sequence 1-6 Non-Int in Visit 06	193 Secs (193 Secs) [==>]	[1]
	2	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.2,0.2	Sequence 1-6 Non-Int in Visit 06	193 Secs (193 Secs) [==>]	[1]
	3	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.2,0.2; NEW ALIGNMENT	Sequence 1-6 Non-Int in Visit 06	193 Secs (193 Secs) [==>]	[1]
	4	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.2,0.2	Sequence 1-6 Non-Int in Visit 06	193 Secs (193 Secs) [==>]	[1]
	5	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.2,0.2; NEW ALIGNMENT	Sequence 1-6 Non-Int in Visit 06	193 Secs (193 Secs) [==>]	[1]
	6	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.2,0.2	Sequence 1-6 Non-Int in Visit 06	193 Secs (193 Secs) [==>]	[1]



Proposal 17293 - Visit 07 - The Boulder Field of Didymos

Wed Feb 08 21:00:27 GMT 2023

Visit	Proposal 17293, Visit 07, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BEFORE 13-FEB-2023:00:00:00									
	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
Solar System Targets	(1)	DIDYMOS	TYPE=ASTEROID,A=1.64309124934 2108,E=0.3835237757664423,I=3.413 80667080487 .O=72.9955220559403,W=319.557447 3815775,M=6.411907609321696,EQU INOX=J2000,EPOCH=04-NOV- 2022:12:00:00,EpochTimeScale=TDB, R0=1. .A1=0.,A2=-1.053918254001E- 14,A3=0. .ALN=1.,NM=2.,NN=0.,NK=0.,AMR AT=0.			EARTH				
	Comments: Description=Binary asteroid (65803) Didymos Extended=NO									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.2,0.2	Sequence 1-6 Non-Int in Visit 07	193 Secs (193 Secs) [==>]	[1]
	2	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.2,0.2	Sequence 1-6 Non-Int in Visit 07	193 Secs (193 Secs) [==>]	[1]
	3	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.2,0.2; NEW ALIGNMENT	Sequence 1-6 Non-Int in Visit 07	193 Secs (193 Secs) [==>]	[1]
	4	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.2,0.2	Sequence 1-6 Non-Int in Visit 07	193 Secs (193 Secs) [==>]	[1]
	5	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.2,0.2; NEW ALIGNMENT	Sequence 1-6 Non-Int in Visit 07	193 Secs (193 Secs) [==>]	[1]
	6	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.2,0.2	Sequence 1-6 Non-Int in Visit 07	193 Secs (193 Secs) [==>]	[1]



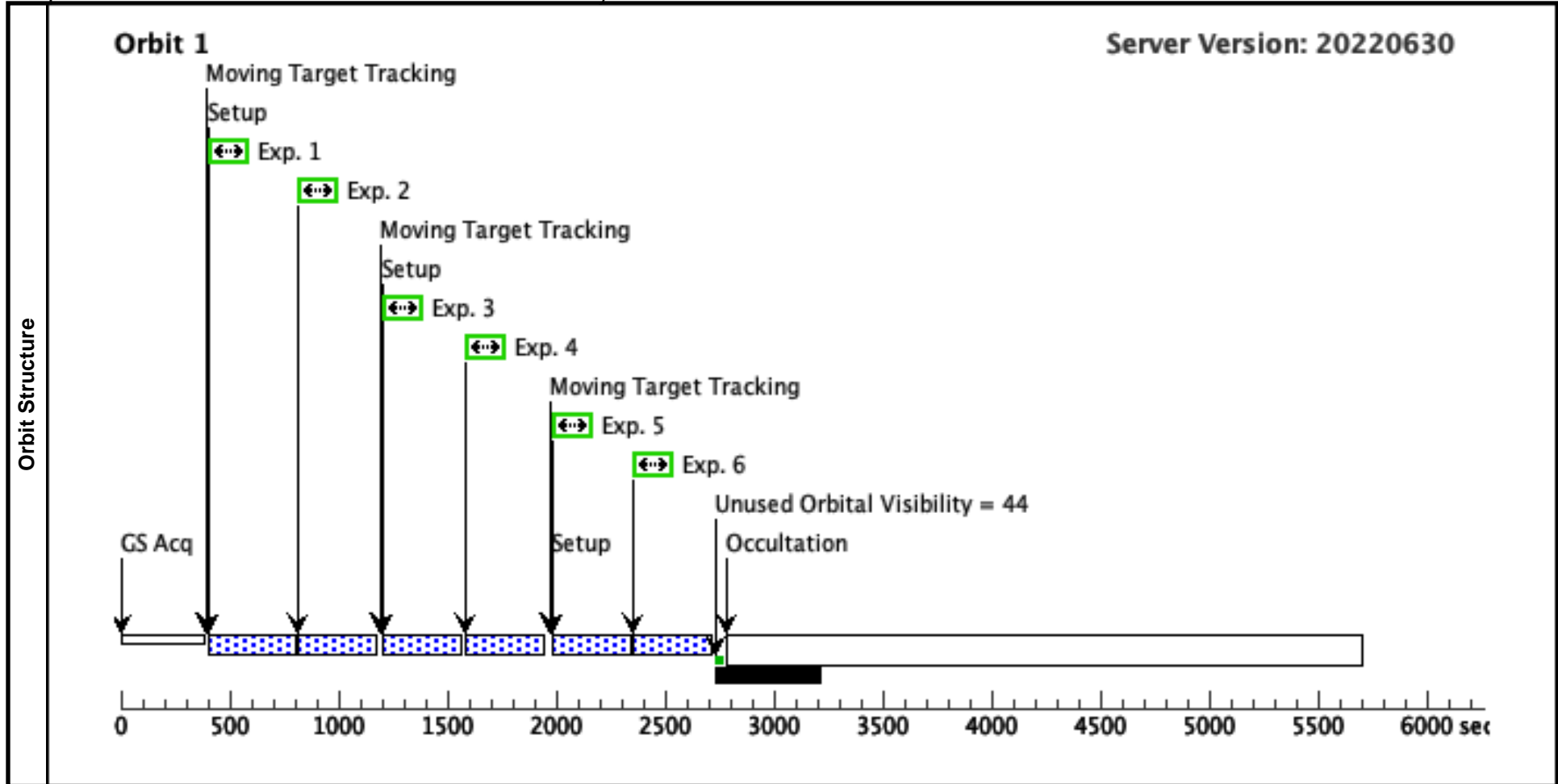
Proposal 17293 - Visit 08 - The Boulder Field of Didymos

Wed Feb 08 21:00:27 GMT 2023

<b>Visit</b>	<b>Proposal 17293, Visit 08, completed</b>						
	<b>Diagnostic Status: No Diagnostics</b>						
	Scientific Instruments: WFC3/UVIS						
	Special Requirements: BEFORE 13-FEB-2023:00:00:00						

<b>Solar System Targets</b>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(1)	DIDYMOS	TYPE=ASTEROID,A=1.64309124934 2108,E=0.3835237757664423,I=3.413 80667080487 .O=72.9955220559403,W=319.557447 3815775,M=6.411907609321696,EQU INOX=J2000,EPOCH=04-NOV- 2022:12:00:00,EpochTimeScale=TDB, R0=1. .A1=0.,A2=-1.053918254001E- 14,A3=0. .ALN=1.,NM=2.,NN=0.,NK=0.,AMR AT=0.				
<i>Comments: Description=Binary asteroid (65803) Didymos</i>							
<i>Extended=NO</i>							

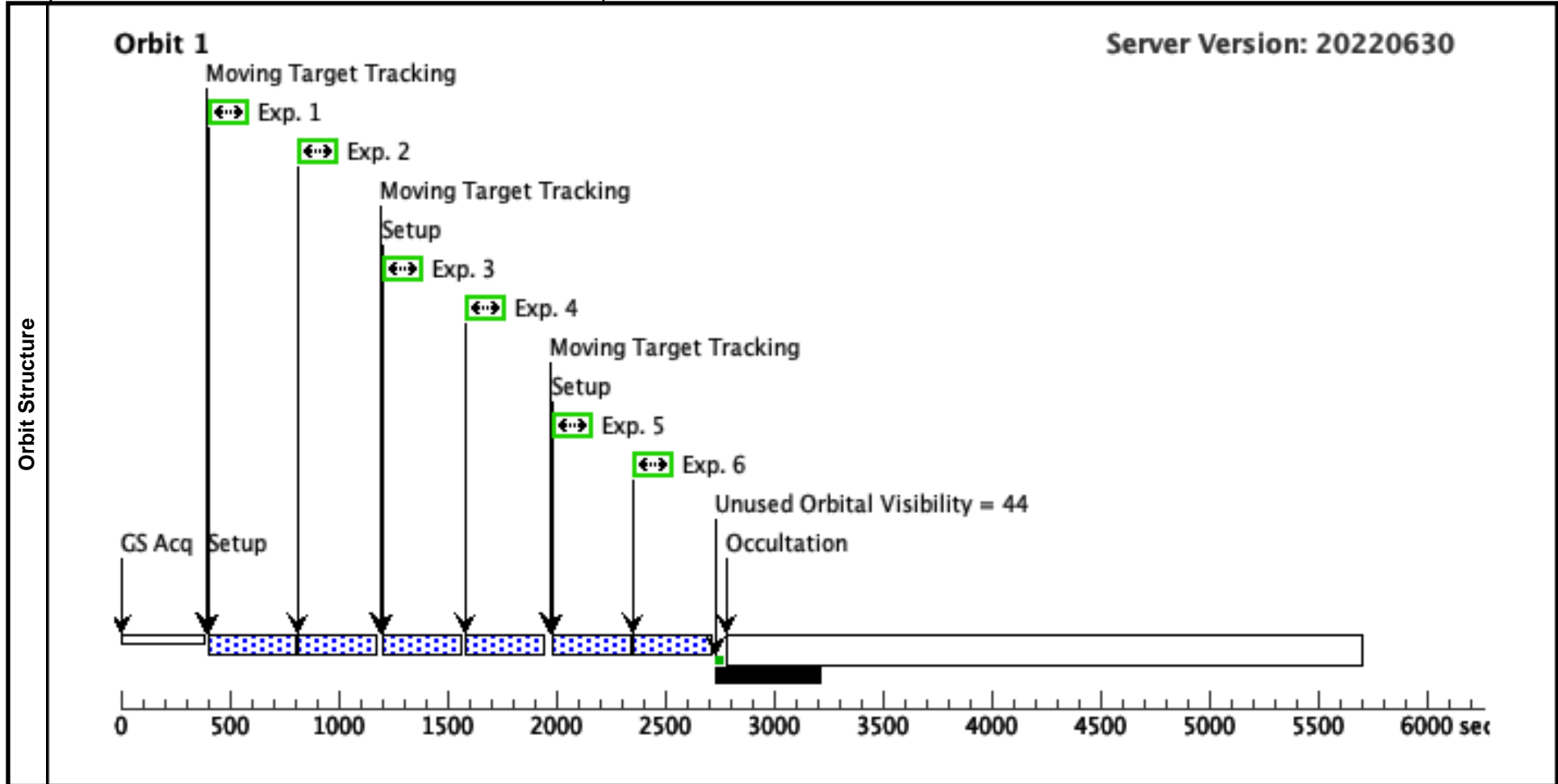
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.2,0.2	Sequence 1-6 Non-Int in Visit 08	193 Secs (193 Secs)	
									[==>]	[1]
	2	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.2,0.2	Sequence 1-6 Non-Int in Visit 08	193 Secs (193 Secs)	
									[==>]	[1]
	3	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.2,0.2; NEW ALIGNMENT	Sequence 1-6 Non-Int in Visit 08	193 Secs (193 Secs)	
									[==>]	[1]
4	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.2,0.2	Sequence 1-6 Non-Int in Visit 08	193 Secs (193 Secs)		
								[==>]	[1]	
5	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.2,0.2; NEW ALIGNMENT	Sequence 1-6 Non-Int in Visit 08	193 Secs (193 Secs)		
								[==>]	[1]	
6	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.2,0.2	Sequence 1-6 Non-Int in Visit 08	193 Secs (193 Secs)		
								[==>]	[1]	



Proposal 17293 - Visit 09 - The Boulder Field of Didymos

Wed Feb 08 21:00:27 GMT 2023

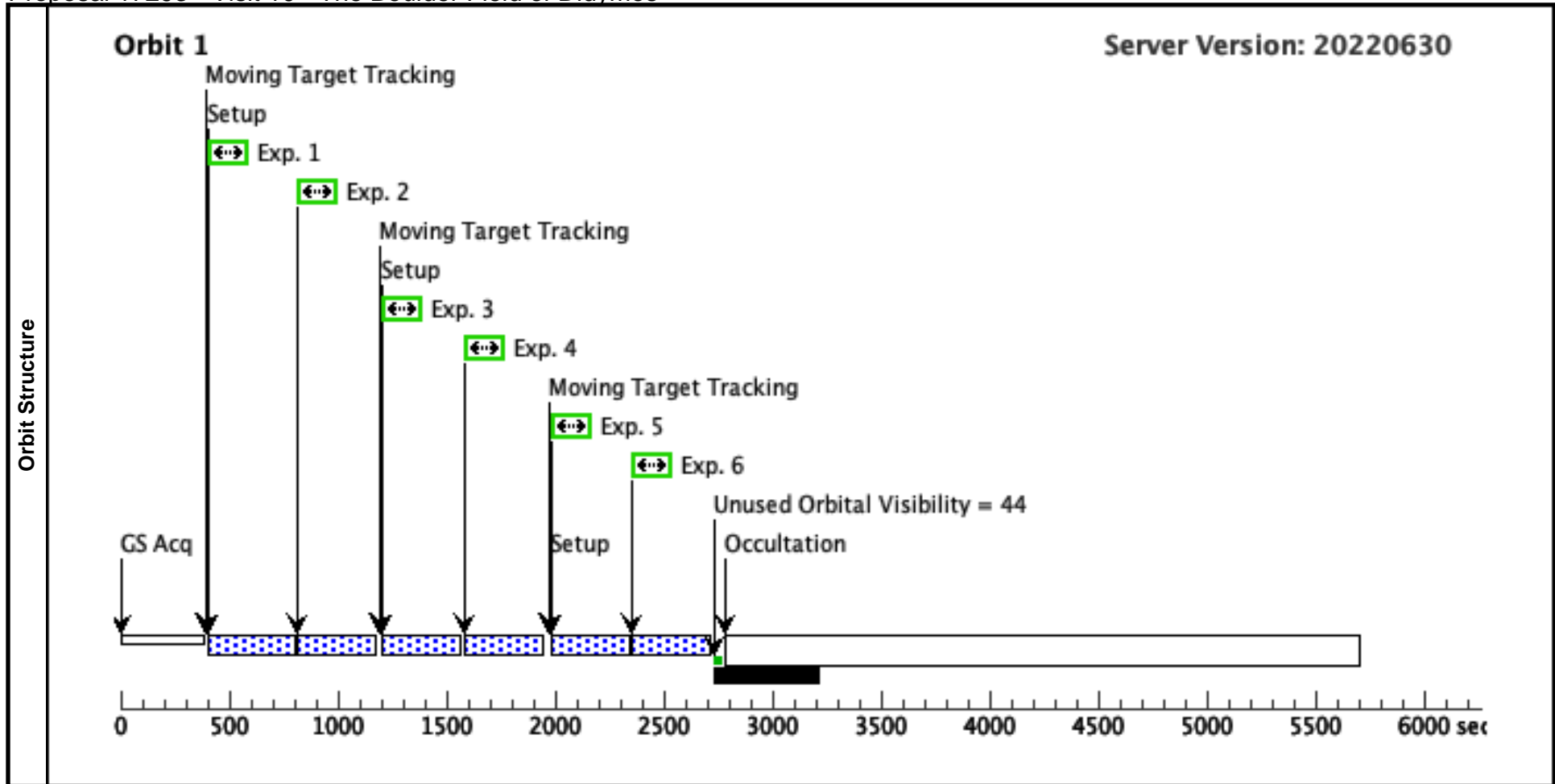
Visit	Proposal 17293, Visit 09, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BEFORE 13-FEB-2023:00:00:00									
	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
Solar System Targets	(1)	DIDYMOS	TYPE=ASTEROID,A=1.64309124934 2108,E=0.3835237757664423,I=3.413 80667080487 .O=72.9955220559403,W=319.557447 3815775,M=6.411907609321696,EQU INOX=J2000,EPOCH=04-NOV- 2022:12:00:00,EpochTimeScale=TDB, R0=1. .A1=0.,A2=-1.053918254001E- 14,A3=0. .ALN=1.,NM=2.,NN=0.,NK=0.,AMR AT=0.			EARTH				
	Comments: Description=Binary asteroid (65803) Didymos Extended=NO									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.4,0.4	Sequence 1-6 Non-Int in Visit 09	193 Secs (193 Secs) [==>]	[1]
	2	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.4,0.4	Sequence 1-6 Non-Int in Visit 09	193 Secs (193 Secs) [==>]	[1]
	3	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.4,0.4; NEW ALIGNMENT	Sequence 1-6 Non-Int in Visit 09	193 Secs (193 Secs) [==>]	[1]
	4	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.4,0.4	Sequence 1-6 Non-Int in Visit 09	193 Secs (193 Secs) [==>]	[1]
	5	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.4,0.4; NEW ALIGNMENT	Sequence 1-6 Non-Int in Visit 09	193 Secs (193 Secs) [==>]	[1]
	6	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.4,0.4	Sequence 1-6 Non-Int in Visit 09	193 Secs (193 Secs) [==>]	[1]



Proposal 17293 - Visit 10 - The Boulder Field of Didymos

Wed Feb 08 21:00:27 GMT 2023

Visit	Proposal 17293, Visit 10, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BEFORE 13-FEB-2023:00:00:00									
	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
Solar System Targets	(1)	DIDYMOS	TYPE=ASTEROID,A=1.64309124934 2108,E=0.3835237757664423,I=3.413 80667080487 ,O=72.9955220559403,W=319.557447 3815775,M=6.411907609321696,EQU INOX=J2000,EPOCH=04-NOV- 2022:12:00:00,EpochTimeScale=TDB, R0=1. ,A1=0.,A2=-1.053918254001E- 14,A3=0. ,ALN=1.,NM=2.,NN=0.,NK=0.,AMR AT=0.			EARTH				
	Comments: Description=Binary asteroid (65803) Didymos Extended=NO									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.4,0.4	Sequence 1-6 Non-Int in Visit 10	193 Secs (193 Secs) [==>]	[1]
	2	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.4,0.4	Sequence 1-6 Non-Int in Visit 10	193 Secs (193 Secs) [==>]	[1]
	3	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.4,0.4; NEW ALIGNMENT	Sequence 1-6 Non-Int in Visit 10	193 Secs (193 Secs) [==>]	[1]
	4	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.4,0.4	Sequence 1-6 Non-Int in Visit 10	193 Secs (193 Secs) [==>]	[1]
	5	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.4,0.4; NEW ALIGNMENT	Sequence 1-6 Non-Int in Visit 10	193 Secs (193 Secs) [==>]	[1]
	6	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.4,0.4	Sequence 1-6 Non-Int in Visit 10	193 Secs (193 Secs) [==>]	[1]



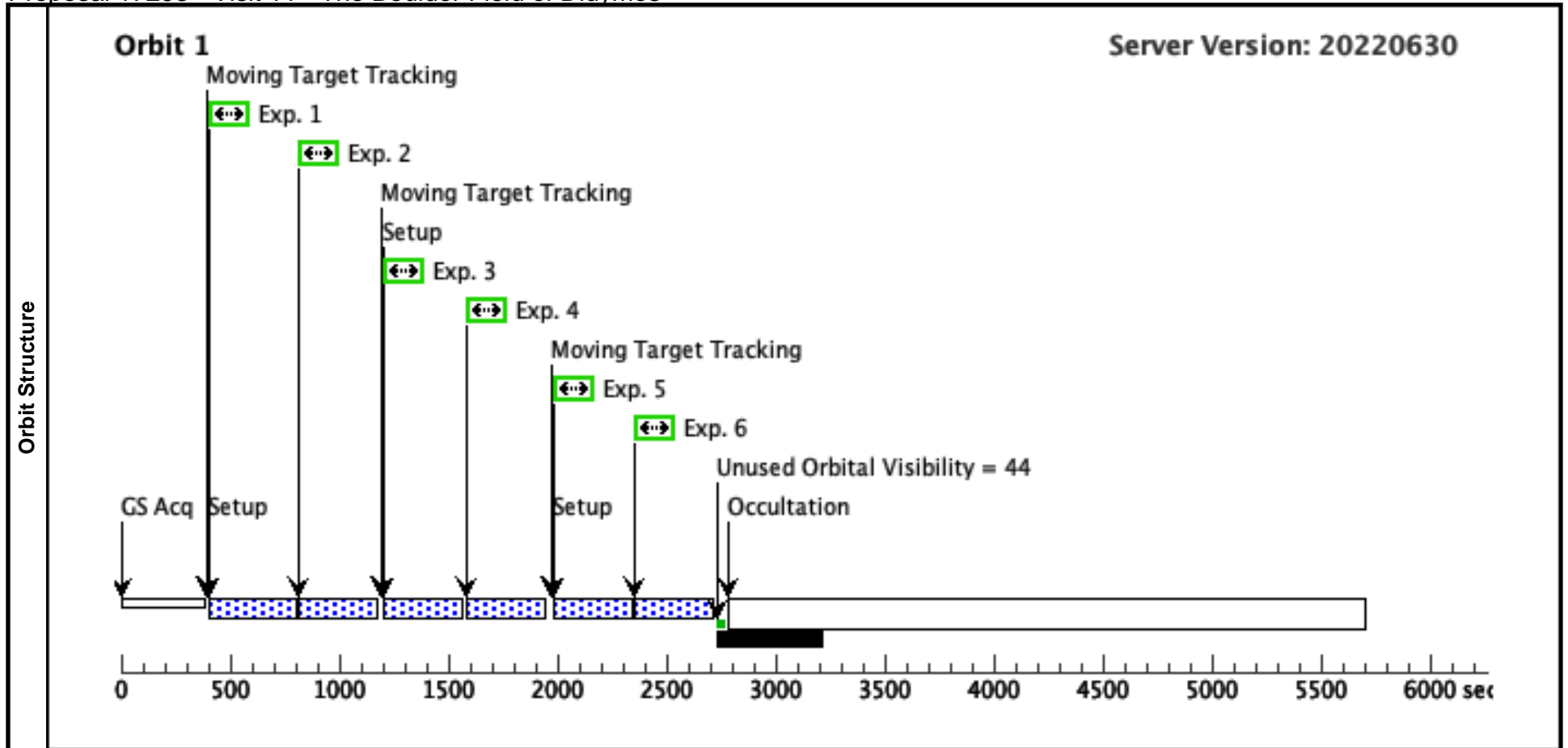
Proposal 17293 - Visit 11 - The Boulder Field of Didymos

Wed Feb 08 21:00:27 GMT 2023

<b>Visit</b>	<b>Proposal 17293, Visit 11, completed</b>						
	<b>Diagnostic Status: No Diagnostics</b>						
	Scientific Instruments: WFC3/UVIS						
	Special Requirements: BEFORE 13-FEB-2023:00:00:00						

<b>Solar System Targets</b>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(1)	DIDYMOS	TYPE=ASTEROID,A=1.64309124934 2108,E=0.3835237757664423,I=3.413 80667080487 .O=72.9955220559403,W=319.557447 3815775,M=6.411907609321696,EQU INOX=J2000,EPOCH=04-NOV- 2022:12:00:00,EpochTimeScale=TDB, R0=1. .A1=0.,A2=-1.053918254001E- 14,A3=0. .ALN=1.,NM=2.,NN=0.,NK=0.,AMR AT=0.				
<i>Comments: Description=Binary asteroid (65803) Didymos</i>							
<i>Extended=NO</i>							

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.4,0.4	Sequence 1-6 Non-Int in Visit 11	193 Secs (193 Secs)	[1]
	2	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.4,0.4	Sequence 1-6 Non-Int in Visit 11	193 Secs (193 Secs)	[1]
	3	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.4,0.4; NEW ALIGNMENT	Sequence 1-6 Non-Int in Visit 11	193 Secs (193 Secs)	[1]
	4	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.4,0.4	Sequence 1-6 Non-Int in Visit 11	193 Secs (193 Secs)	[1]
	5	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.4,0.4; NEW ALIGNMENT	Sequence 1-6 Non-Int in Visit 11	193 Secs (193 Secs)	[1]
	6	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.4,0.4	Sequence 1-6 Non-Int in Visit 11	193 Secs (193 Secs)	[1]



Proposal 17293 - Visit 12 - The Boulder Field of Didymos

Wed Feb 08 21:00:27 GMT 2023

<b>Visit</b>	<b>Proposal 17293, Visit 12, completed</b>						
	<b>Diagnostic Status: No Diagnostics</b>						
	Scientific Instruments: WFC3/UVIS						
	Special Requirements: BEFORE 13-FEB-2023:00:00:00						

<b>Solar System Targets</b>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(1)	DIDYMOS	TYPE=ASTEROID,A=1.64309124934 2108,E=0.3835237757664423,I=3.413 80667080487 .O=72.9955220559403,W=319.557447 3815775,M=6.411907609321696,EQU INOX=J2000,EPOCH=04-NOV- 2022:12:00:00,EpochTimeScale=TDB, R0=1. .A1=0.,A2=-1.053918254001E- 14,A3=0. .ALN=1.,NM=2.,NN=0.,NK=0.,AMR AT=0.				
<i>Comments: Description=Binary asteroid (65803) Didymos</i>							
<i>Extended=NO</i>							

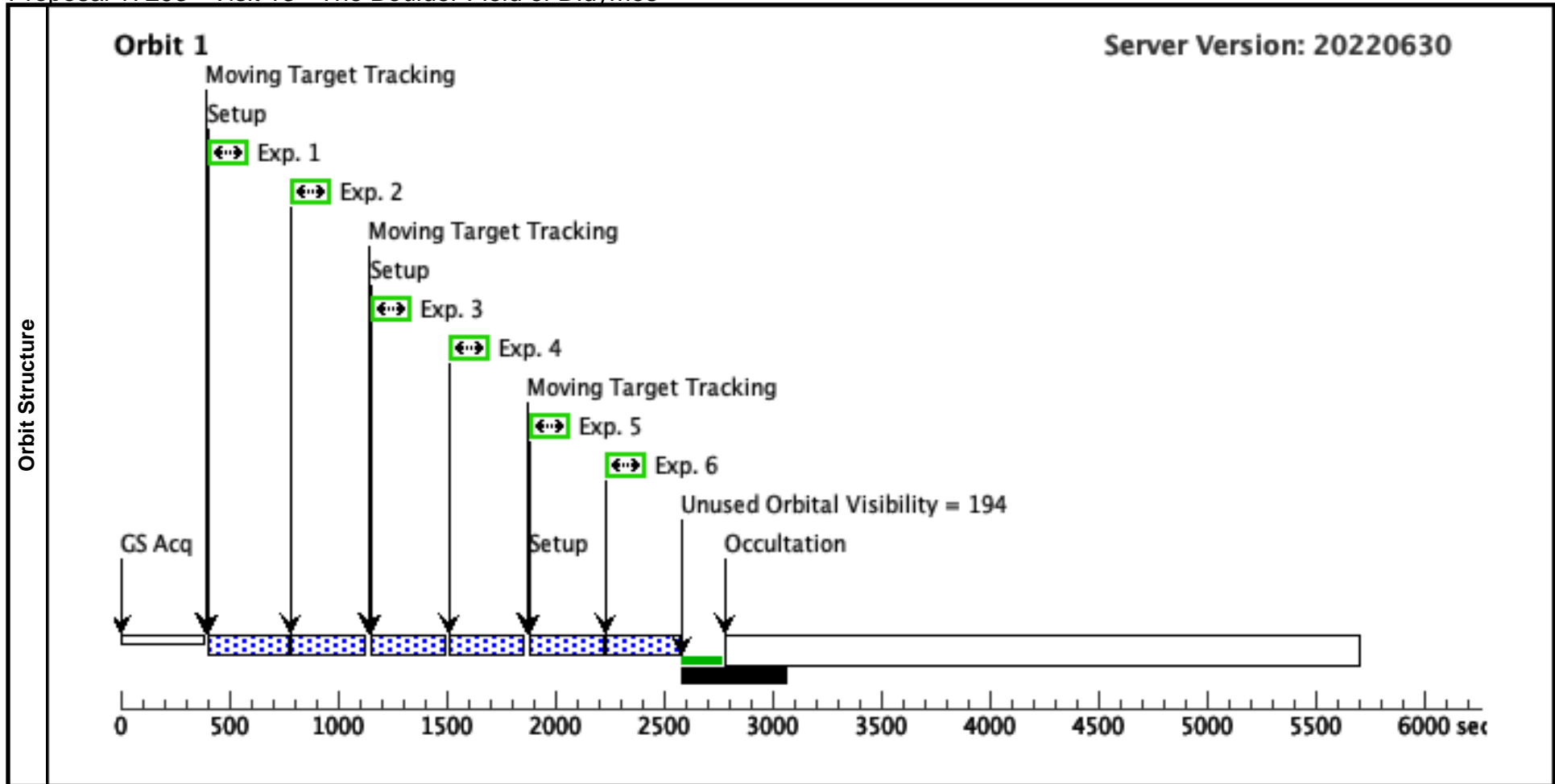
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.4,0.4	Sequence 1-6 Non-Int in Visit 12	193 Secs (193 Secs)	
									[==>]	[1]
	2		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.4,0.4	Sequence 1-6 Non-Int in Visit 12	193 Secs (193 Secs)	
									[==>]	[1]
	3		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.4,0.4; NEW ALIGNMENT	Sequence 1-6 Non-Int in Visit 12	193 Secs (193 Secs)	
									[==>]	[1]
4		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.4,0.4	Sequence 1-6 Non-Int in Visit 12	193 Secs (193 Secs)		
								[==>]	[1]	
5		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.4,0.4; NEW ALIGNMENT	Sequence 1-6 Non-Int in Visit 12	193 Secs (193 Secs)		
								[==>]	[1]	
6		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.4,0.4	Sequence 1-6 Non-Int in Visit 12	193 Secs (193 Secs)		
								[==>]	[1]	



Proposal 17293 - Visit 13 - The Boulder Field of Didymos

Wed Feb 08 21:00:27 GMT 2023

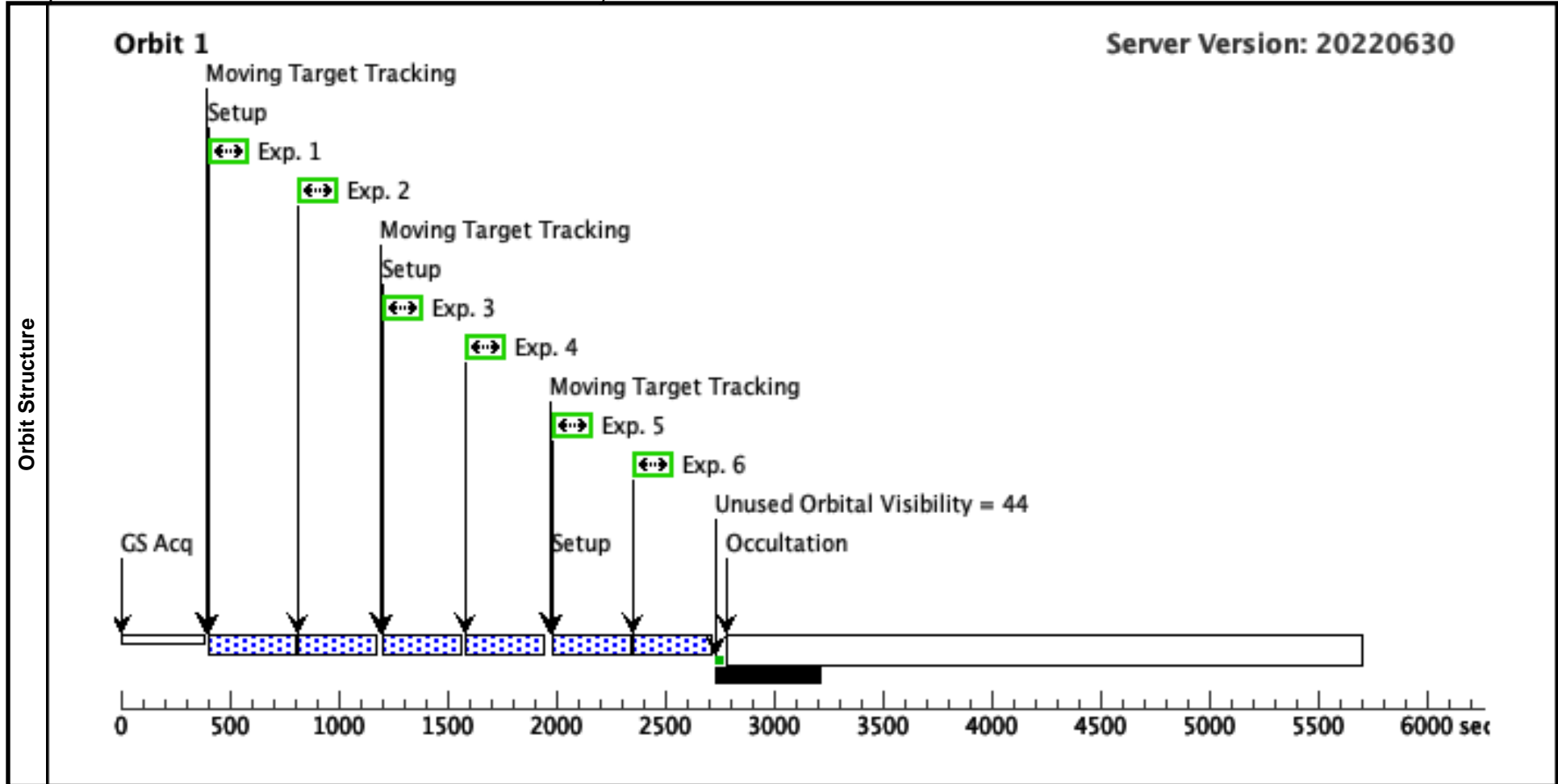
Visit	Proposal 17293, Visit 13, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BEFORE 13-FEB-2023:00:00:00									
	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
Solar System Targets	(1)	DIDYMOS	TYPE=ASTEROID,A=1.64309124934 2108,E=0.3835237757664423,I=3.413 80667080487 .O=72.9955220559403,W=319.557447 3815775,M=6.411907609321696,EQU INOX=J2000,EPOCH=04-NOV- 2022:12:00:00,EpochTimeScale=TDB, R0=1. .A1=0.,A2=-1.053918254001E- 14,A3=0. .ALN=1.,NM=2.,NN=0.,NK=0.,AMR AT=0.			EARTH				
	Comments: Description=Binary asteroid (65803) Didymos Extended=NO									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.6,0.6	Sequence 1-6 Non-Int in Visit 13	168 Secs (168 Secs) [==>]	[1]
	2	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.6,0.6	Sequence 1-6 Non-Int in Visit 13	168 Secs (168 Secs) [==>]	[1]
	3	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.6,0.6; NEW ALIGNMENT	Sequence 1-6 Non-Int in Visit 13	168 Secs (168 Secs) [==>]	[1]
	4	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.6,0.6	Sequence 1-6 Non-Int in Visit 13	168 Secs (168 Secs) [==>]	[1]
	5	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.6,0.6; NEW ALIGNMENT	Sequence 1-6 Non-Int in Visit 13	168 Secs (168 Secs) [==>]	[1]
	6	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.6,0.6	Sequence 1-6 Non-Int in Visit 13	168 Secs (168 Secs) [==>]	[1]



Proposal 17293 - Visit 14 - The Boulder Field of Didymos

Wed Feb 08 21:00:27 GMT 2023

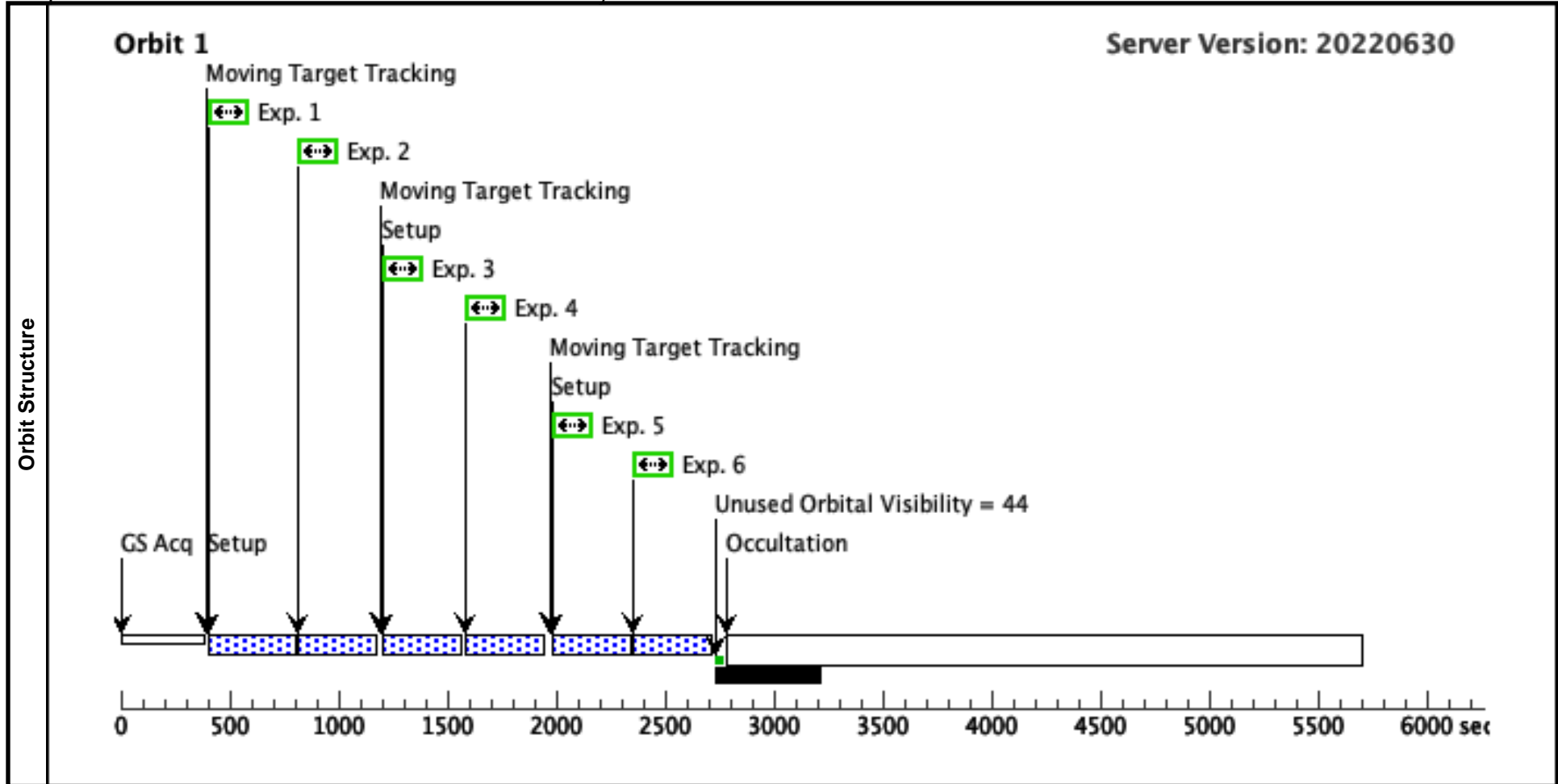
Visit	Proposal 17293, Visit 14, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BEFORE 13-FEB-2023:00:00:00									
	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
Solar System Targets	(1)	DIDYMOS	TYPE=ASTEROID,A=1.64309124934 2108,E=0.3835237757664423,I=3.413 80667080487 .O=72.9955220559403,W=319.557447 3815775,M=6.411907609321696,EQU INOX=J2000,EPOCH=04-NOV- 2022:12:00:00,EpochTimeScale=TDB, R0=1. .A1=0.,A2=-1.053918254001E- 14,A3=0. .ALN=1.,NM=2.,NN=0.,NK=0.,AMR AT=0.			EARTH				
	Comments: Description=Binary asteroid (65803) Didymos Extended=NO									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.6,0.6	Sequence 1-6 Non-Int in Visit 14	193 Secs (193 Secs) [==>]	[1]
	2	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.6,0.6	Sequence 1-6 Non-Int in Visit 14	193 Secs (193 Secs) [==>]	[1]
	3	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.6,0.6; NEW ALIGNMENT	Sequence 1-6 Non-Int in Visit 14	193 Secs (193 Secs) [==>]	[1]
	4	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.6,0.6	Sequence 1-6 Non-Int in Visit 14	193 Secs (193 Secs) [==>]	[1]
	5	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.6,0.6; NEW ALIGNMENT	Sequence 1-6 Non-Int in Visit 14	193 Secs (193 Secs) [==>]	[1]
	6	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.6,0.6	Sequence 1-6 Non-Int in Visit 14	193 Secs (193 Secs) [==>]	[1]



Proposal 17293 - Visit 15 - The Boulder Field of Didymos

Wed Feb 08 21:00:27 GMT 2023

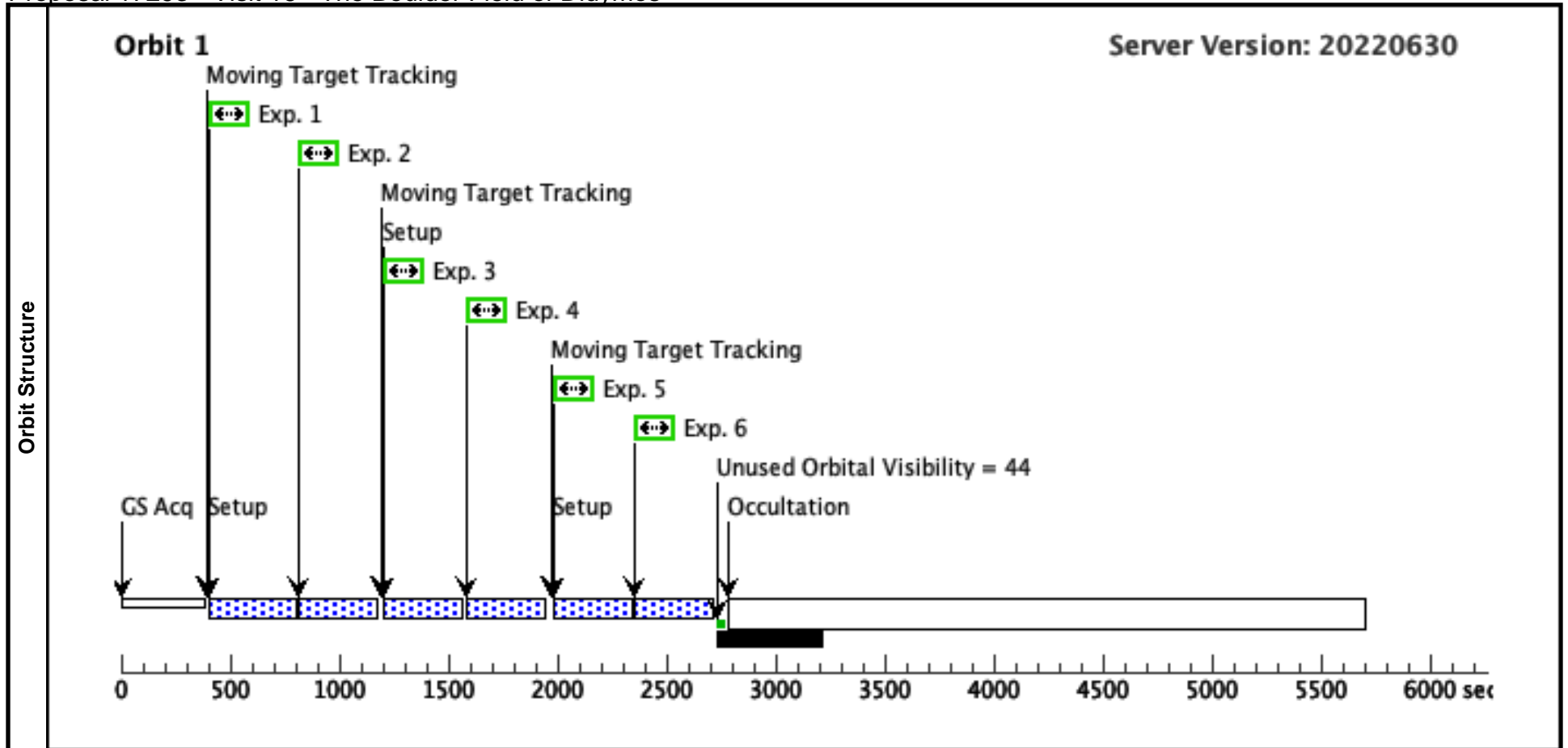
Visit	Proposal 17293, Visit 15, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BEFORE 13-FEB-2023:00:00:00												
	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center						
Solar System Targets	(1)	DIDYMOS	TYPE=ASTEROID,A=1.64309124934 2108,E=0.3835237757664423,I=3.413 80667080487 .O=72.9955220559403,W=319.557447 3815775,M=6.411907609321696,EQU INOX=J2000,EPOCH=04-NOV- 2022:12:00:00,EpochTimeScale=TDB, R0=1. .A1=0.,A2=-1.053918254001E- 14,A3=0. .ALN=1.,NM=2.,NN=0.,NK=0.,AMR AT=0.							EARTH			
	Comments: Description=Binary asteroid (65803) Didymos Extended=NO												
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit			
	1		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.6,0.6	Sequence 1-6 Non-Int in Visit 15	193 Secs (193 Secs)				
									[==>]	[1]			
	2		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.6,0.6	Sequence 1-6 Non-Int in Visit 15	193 Secs (193 Secs)				
									[==>]	[1]			
	3		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.6,0.6; NEW ALIGNMENT	Sequence 1-6 Non-Int in Visit 15	193 Secs (193 Secs)				
									[==>]	[1]			
4		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.6,0.6	Sequence 1-6 Non-Int in Visit 15	193 Secs (193 Secs)					
								[==>]	[1]				
5		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.6,0.6; NEW ALIGNMENT	Sequence 1-6 Non-Int in Visit 15	193 Secs (193 Secs)					
								[==>]	[1]				
6		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.6,0.6	Sequence 1-6 Non-Int in Visit 15	193 Secs (193 Secs)					
								[==>]	[1]				



Proposal 17293 - Visit 16 - The Boulder Field of Didymos

Wed Feb 08 21:00:27 GMT 2023

Visit	Proposal 17293, Visit 16, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BEFORE 13-FEB-2023:00:00:00									
	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
Solar System Targets	(1)	DIDYMOS	TYPE=ASTEROID,A=1.64309124934 2108,E=0.3835237757664423,I=3.413 80667080487 .O=72.9955220559403,W=319.557447 3815775,M=6.411907609321696,EQU INOX=J2000,EPOCH=04-NOV- 2022:12:00:00,EpochTimeScale=TDB, R0=1. .A1=0.,A2=-1.053918254001E- 14,A3=0. .ALN=1.,NM=2.,NN=0.,NK=0.,AMR AT=0.			EARTH				
	Comments: Description=Binary asteroid (65803) Didymos Extended=NO									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.6,0.6	Sequence 1-6 Non-Int in Visit 16	193 Secs (193 Secs) [==>]	[1]
	2	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.6,0.6	Sequence 1-6 Non-Int in Visit 16	193 Secs (193 Secs) [==>]	[1]
	3	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.6,0.6; NEW ALIGNMENT	Sequence 1-6 Non-Int in Visit 16	193 Secs (193 Secs) [==>]	[1]
	4	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.6,0.6	Sequence 1-6 Non-Int in Visit 16	193 Secs (193 Secs) [==>]	[1]
	5	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.6,0.6; NEW ALIGNMENT	Sequence 1-6 Non-Int in Visit 16	193 Secs (193 Secs) [==>]	[1]
	6	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	POS TARG 0.6,0.6	Sequence 1-6 Non-Int in Visit 16	193 Secs (193 Secs) [==>]	[1]



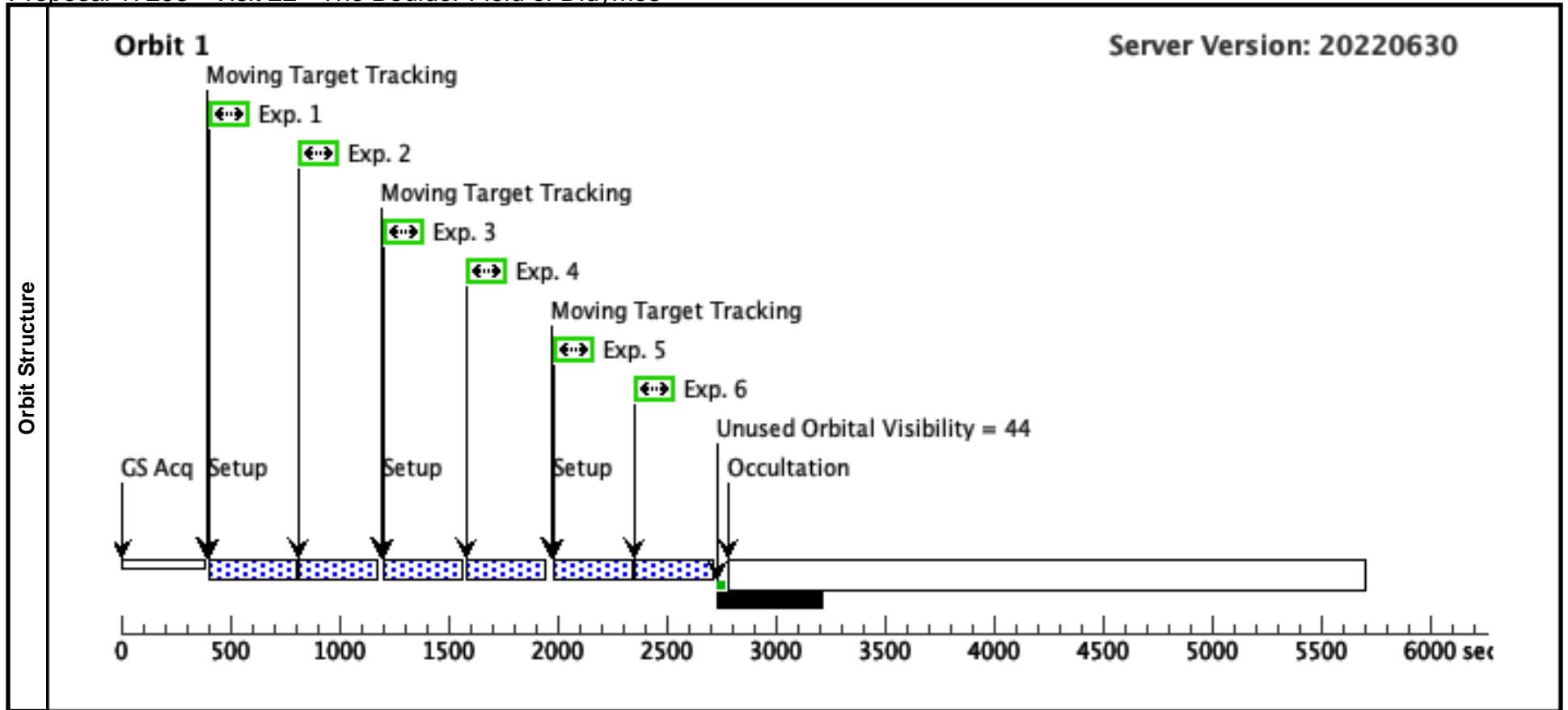
Proposal 17293 - Visit 22 - The Boulder Field of Didymos

Wed Feb 08 21:00:27 GMT 2023

<b>Visit</b>	<b>Proposal 17293, Visit 22</b>						
	<b>Diagnostic Status: No Diagnostics</b>						
	Scientific Instruments: WFC3/UVIS						
	Special Requirements: BEFORE 06-MAR-2023:00:00:00						

<b>Solar System Targets</b>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(1)	DIDYMOS	TYPE=ASTEROID,A=1.64309124934 2108,E=0.3835237757664423,I=3.413 80667080487 .O=72.9955220559403,W=319.557447 3815775,M=6.411907609321696,EQU INOX=J2000,EPOCH=04-NOV- 2022:12:00:00,EpochTimeScale=TDB, R0=1. .A1=0.,A2=-1.053918254001E- 14,A3=0. .ALN=1.,NM=2.,NN=0.,NK=0.,AMR AT=0.				
<i>Comments: Description=Binary asteroid (65803) Didymos</i>							
<i>Extended=NO</i>							

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6			Sequence 1-6 Non-In t in Visit 22	193 Secs (193 Secs) [==>]
2		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6			Sequence 1-6 Non-In t in Visit 22	193 Secs (193 Secs) [==>]	[1]
3		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	NEW ALIGNMENT		Sequence 1-6 Non-In t in Visit 22	193 Secs (193 Secs) [==>]	[1]
4		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6			Sequence 1-6 Non-In t in Visit 22	193 Secs (193 Secs) [==>]	[1]
5		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	NEW ALIGNMENT		Sequence 1-6 Non-In t in Visit 22	193 Secs (193 Secs) [==>]	[1]
6		(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6			Sequence 1-6 Non-In t in Visit 22	193 Secs (193 Secs) [==>]	[1]



Proposal 17293 - Visit 23 - The Boulder Field of Didymos

Wed Feb 08 21:00:27 GMT 2023

Visit	Proposal 17293, Visit 23 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BEFORE 06-MAR-2023:00:00:00									
	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
Solar System Targets	(1)	DIDYMOS	TYPE=ASTEROID,A=1.64309124934 2108,E=0.3835237757664423,I=3.413 80667080487 .O=72.9955220559403,W=319.557447 3815775,M=6.411907609321696,EQU INOX=J2000,EPOCH=04-NOV- 2022:12:00:00,EpochTimeScale=TDB, R0=1. .A1=0.,A2=-1.053918254001E- 14,A3=0. .ALN=1.,NM=2.,NN=0.,NK=0.,AMR AT=0.			EARTH				
	Comments: Description=Binary asteroid (65803) Didymos Extended=NO									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6		Sequence 1-6 Non-In t in Visit 23	193 Secs (193 Secs) [==>]	[1]
	2	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6		Sequence 1-6 Non-In t in Visit 23	193 Secs (193 Secs) [==>]	[1]
	3	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	NEW ALIGNMENT	Sequence 1-6 Non-In t in Visit 23	193 Secs (193 Secs) [==>]	[1]
	4	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6		Sequence 1-6 Non-In t in Visit 23	193 Secs (193 Secs) [==>]	[1]
	5	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6	NEW ALIGNMENT	Sequence 1-6 Non-In t in Visit 23	193 Secs (193 Secs) [==>]	[1]
	6	(1) DIDYMOS	(1) DIDYMOS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F350LP	FLASH=6		Sequence 1-6 Non-In t in Visit 23	193 Secs (193 Secs) [==>]	[1]

