16273 - Andromeda and the Seven Dwarfs: M31 Mass, Satellite Orbits, and the Nature of the Satellite Plane

Cycle: 28, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) ANDROMEDA-I ANY	ACS/WFC WFC3/UVIS	4	12-Nov-2021 19:00:31.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
02	(1) ANDROMEDA-I ANY	ACS/WFC WFC3/UVIS	3	12-Nov-2021 19:00:34.0	yes
03	(1) ANDROMEDA-I ANY	ACS/WFC WFC3/UVIS	3	12-Nov-2021 19:00:37.0	yes
04	(2) ANDROMEDA-II ANY	ACS/WFC WFC3/UVIS	4	12-Nov-2021 19:00:40.0	yes
05	(3) ANDROMEDA-III ANY	ACS/WFC WFC3/UVIS	4	12-Nov-2021 19:00:43.0	yes
06	(3) ANDROMEDA-III ANY	ACS/WFC WFC3/UVIS	3	12-Nov-2021 19:00:46.0	yes
07	(4) ANDROMEDA-XV ANY	ACS/WFC WFC3/UVIS	4	12-Nov-2021 19:00:49.0	yes
08	(4) ANDROMEDA-XV ANY	ACS/WFC WFC3/UVIS	4	12-Nov-2021 19:00:52.0	yes
09	(5) ANDROMEDA-XVI ANY	ACS/WFC WFC3/UVIS	3	12-Nov-2021 19:00:55.0	yes
10	(6) ANDROMEDA-XXVIII ANY	ACS/WFC WFC3/UVIS	4	12-Nov-2021 19:00:58.0	yes
11	(6) ANDROMEDA-XXVIII ANY	ACS/WFC WFC3/UVIS	3	12-Nov-2021 19:01:00.0	yes
12	(6) ANDROMEDA-XXVIII ANY	ACS/WFC WFC3/UVIS	3	12-Nov-2021 19:01:03.0	yes
13	(7) ANDROMEDA-VII ANY	ACS/WFC WFC3/UVIS	3	12-Nov-2021 19:01:05.0	yes
14	(7) ANDROMEDA-VII ANY	ACS/WFC WFC3/UVIS	3	12-Nov-2021 19:01:08.0	yes
57	(4) ANDROMEDA-XV ANY	ACS/WFC WFC3/UVIS	2	12-Nov-2021 19:01:09.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
58	(2) ANDROMEDA-II ANY	ACS/WFC WFC3/UVIS	4	12-Nov-2021 19:01:12.0	yes

54 Total Orbits Used

ABSTRACT

Proper motions (PMs) from HST and Gaia have revolutionized the field of Galactic archaeology in the Milky Way (MW), but PM studies in the M31 system are still in their early stages. Gaia can only detect the brightest stars in star forming regions at the distance of M31, so HST is the only observatory currently capable of measuring PMs of M31 satellite dwarf spheroidals. We propose to obtain second epoch imaging of 7 M31 satellites (And I, II, III, VII, XV, XVI, XXVIII), targeting the same fields with earlier deep HST observations to measure PMs with uncertainties of 40-50 km/s. We will use the PM-based 6D phase space information of satellites to constrain the total M31 mass with uncertainties at the 30% level. We will also test the dynamical stability of the Great Plane of Andromeda using our PM results for And I, III, and XVI. This will provide clues to the origin of satellite planes observed around M31 as well as the MW. The orbits derived for individual satellites will allow us to disentangle the processes that have contributed to the quenching of star formation, connect our target galaxies to M31 tidal structures, and test the merger scenario of And II. Altogether, our proposed measurements will nearly triple the sample of M31 satellites with available PMs, dramatically improving our understanding of the M31 halo and its satellite system. A revised estimate for the mass of M31 will also improve our understanding of the dynamics in the Local Group (LG), and set an important benchmark for studies of satellite systems beyond the LG. Finally, the results from this program will inform us how representative the MW is in a cosmological context.

OBSERVING DESCRIPTION

We will observe 7 dwarf satellite galaxies of M31 using ACS/WFC and WFC3/UVIS. All of our target galaxies have deep ACS/WFC imaging data in the HST archive. All but And VII also have deep WFC3/UVIS imaging data observed as parallel fields. The dwarf galaxies And I, II, III, XV, XVI, and XXVIII were observed in 2013-2015 through HST programs GO-13028 and GO-13739 using the F475W and F814W filters. And VII was observed in 2006 through HST GO-10430 using the F435W and F555W filters.

In this program, Each target dwarf galaxy will be observed using the same telescope pointings and orientations as the first-epoch images to maximize the overlaps of both primary ACS/WFC and parallel WFC3/UVIS fields between the first- and second-epoch data. This will also minimize errors originating from imperfect CTE and geometric distortion corrections. To measure PMs, it is sufficient to observe only in one filter. We will image all

target galaxies, with the exception of And VII, using the F814W filter to measure PMs. F814W is found to give one of the best astrometric handles on background galaxies. For And VII, we will use the F606W filter which has a wider bandwidth than the F555W originally used in the first epoch, for creating high signal- to-noise (S/N) templates for background galaxies, i.e., unlike the other galaxies, we will use the second-epoch data to build templates for And VII. Individual exposure times will be half-orbit long, and we will use dithered patterns specially designed to maximize pixel-phase coverage.

Visit

Proposal 16273, And1-V1 (01), scheduling Sat Nov 13 00:01:13 GMT 2021

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: SCHED 50%; ORIENT 201.4D TO 202.4 D; AFTER 01-JAN-2021:00:00:00; GROUP 01,02,03 WITHIN 15D

Comments: This is the first out of three visits for obtaining second-epoch images of Andromeda I. This visit spends 4 orbits in total with ACS/WFC being the primary and the WFC3/UVIS being the parallel instruments. For proper motion measuring purpose, we require to match our telescope orientations to the first-epoch observations for both the primary and parallel fields. We have accordingly added the Visit Orientation Requirements. We have grouped Visits 01, 02, and 03 and specified these visits to be observed within a 15 day period so that all images can be treated as a single-epoch data for astrometric analyses. Our science requires that the time baseline between the previous first- and this cycle's second-epoch is at least 6 years apart (this is specified in the Phase 1 proposal). We therefore added a Timing Requirement of "AFTER 01-JAN-2021:00:00:00".

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	ANDROMEDA-I	RA: 00 45 42.6728 (11.4278033d) Dec: +38 02 22.27 (38.03952d) Equinox: J2000	Epoch of Position: 2015.5	V=12.7	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[DWARF SPHEROIDAL]

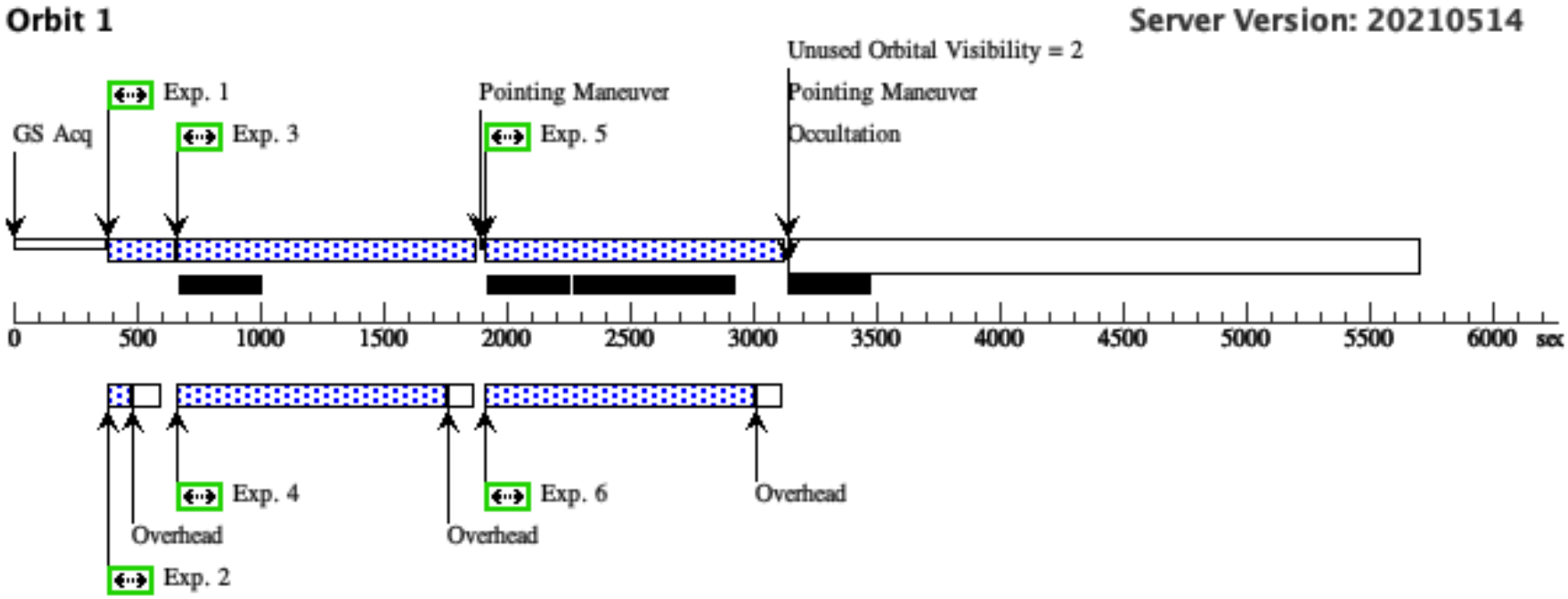
Exposures

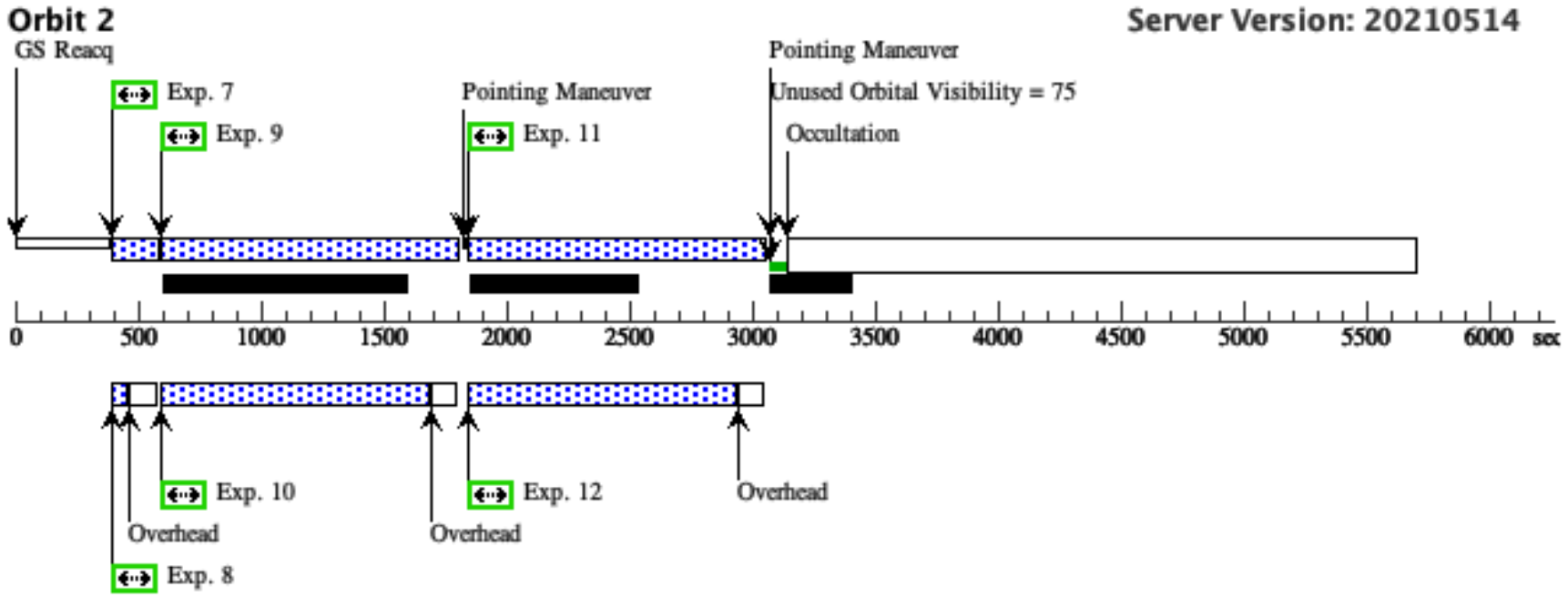
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0000,0.0000	Sequence 1-6 Non-Int in And1-V1 (01) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And1-V1 (01)	60 Secs (60 Secs) *[==>]*	***[1]***
2		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 1-6 Non-Int in And1-V1 (01) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And1-V1 (01)	60 Secs (60 Secs) *[==>]*	***[1]***
3		(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0000,0.0000	Sequence 1-6 Non-Int in And1-V1 (01) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And1-V1 (01)	1090 Secs (1090 Secs) *[==>]*	***[1]***
4		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And1-V1 (01) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And1-V1 (01)	1090 Secs (1090 Secs) *[==>]*	***[1]***
5		(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.1740,0.2350	Sequence 1-6 Non-Int in And1-V1 (01) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And1-V1 (01)	1090 Secs (1090 Secs) *[==>]*	***[1]***
6		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And1-V1 (01) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And1-V1 (01)	1090 Secs (1090 Secs) *[==>]*	***[1]***
7		(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.3232,0.1235	Sequence 7-12 Non-Int in And1-V1 (01) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And1-V1 (01)	60 Secs (60 Secs) *[==>]*	***[2]***
8		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 7-12 Non-Int in And1-V1 (01) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And1-V1 (01)	60 Secs (60 Secs) *[==>]*	***[2]***
9		(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.3232,0.1235	Sequence 7-12 Non-Int in And1-V1 (01) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And 1-V1 (01)	1090 Secs (1090 Secs) *[==>]*	***[2]***

	10	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And1-V1 (01) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And1-V1 (01)	1090 Secs (1090 Secs) *[==>]*	***[2]***
	11	(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.1005,0.3305	Sequence 7-12 Non-Int in And1-V1 (01) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And1-V1 (01)	1090 Secs (1090 Secs) *[==>]*	***[2]***
	12	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And1-V1 (01) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And1-V1 (01)	1090 Secs (1090 Secs) *[==>]*	***[2]***
	13	(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.5075,0.0505	Sequence 13-18 Non-Int in And1-V1 (01) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And1-V1 (01)	60 Secs (60 Secs) *[==>]*	***[3]***
	14	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 13-18 Non-Int in And1-V1 (01) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And1-V1 (01)	60 Secs (60 Secs) *[==>]*	***[3]***
	15	(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.5075,0.0505	Sequence 13-18 Non-Int in And1-V1 (01) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And1-V1 (01)	1090 Secs (1090 Secs) *[==>]*	***[3]***
	16	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 13-18 Non-Int in And1-V1 (01) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And1-V1 (01)	1090 Secs (1090 Secs) *[==>]*	***[3]***
	17	(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.6815,0.2855	Sequence 13-18 Non-Int in And1-V1 (01) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And1-V1 (01)	1090 Secs (1090 Secs) *[==>]*	***[3]***
	18	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 13-18 Non-Int in And1-V1 (01) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And1-V1 (01)	1090 Secs (1090 Secs) *[==>]*	***[3]***

	19	(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.8300,0.1735	Sequence 19-24 Non-Int in And1-V1 (01) Prime + Parallel Group 19-20 in Sequence 19-24 Non-Int in And1-V1 (01)	60 Secs (60 Secs) *[==>]*	***[4]***
	20	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 19-24 Non-Int in And1-V1 (01) Prime + Parallel Group 19-20 in Sequence 19-24 Non-Int in And1-V1 (01)	60 Secs (60 Secs) *[==>]*	***[4]***
	21	(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.8300,0.1735	Sequence 19-24 Non-Int in And1-V1 (01) Prime + Parallel Group 21-22 in Sequence 19-24 Non-Int in And1-V1 (01)	1090 Secs (1090 Secs) *[==>]*	***[4]***
	22	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 19-24 Non-Int in And1-V1 (01) Prime + Parallel Group 21-22 in Sequence 19-24 Non-Int in And1-V1 (01)	1090 Secs (1090 Secs) *[==>]*	***[4]***
	23	(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.6080,0.3810	Sequence 19-24 Non-Int in And1-V1 (01) Prime + Parallel Group 23-24 in Sequence 19-24 Non-Int in And1-V1 (01)	1090 Secs (1090 Secs) *[==>]*	***[4]***
	24	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 19-24 Non-Int in And1-V1 (01) Prime + Parallel Group 23-24 in Sequence 19-24 Non-Int in And1-V1 (01)	1090 Secs (1090 Secs) *[==>]*	***[4]***

Orbit Structure

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Exp. 9
Pointing Maneuver
Exp. 11
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Occultation
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1000
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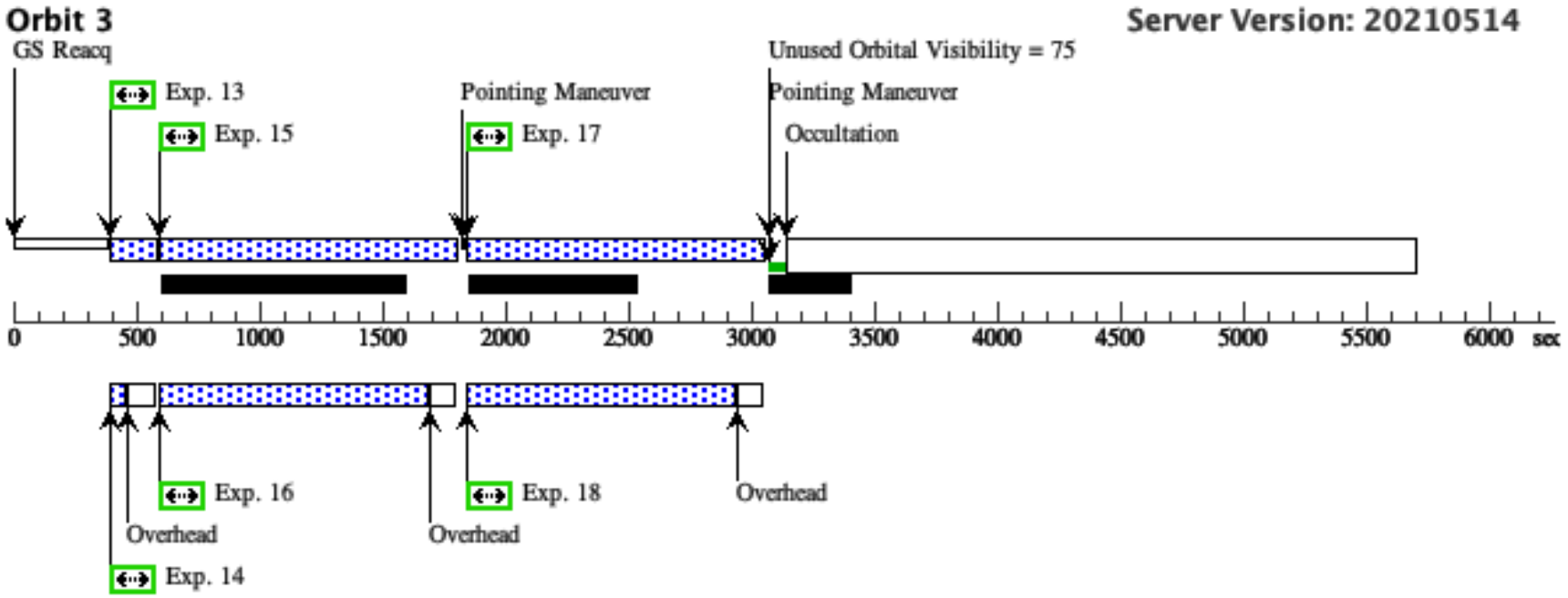
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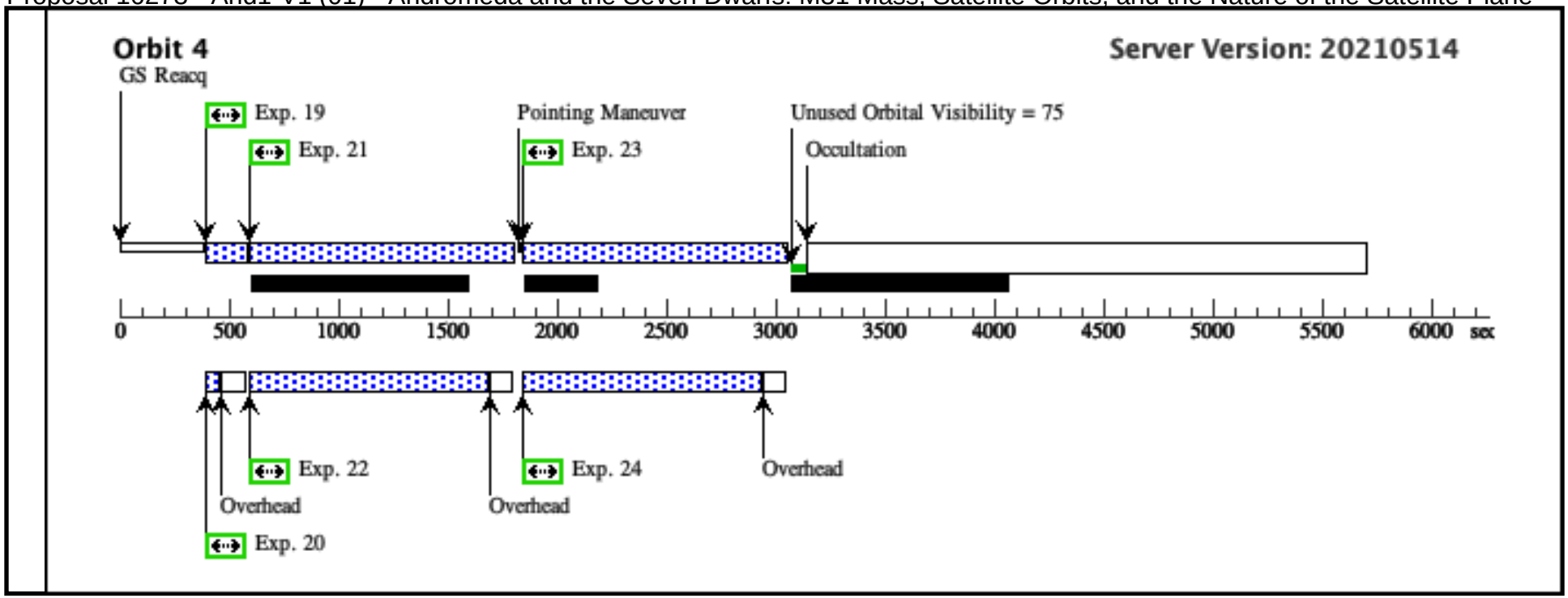
Orbit 4
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Exp. 21
Pointing Maneuver
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Occultation
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1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec
Exp. 22
Exp. 24
Overhead
Overhead
Overhead
Exp. 20

Visit

Proposal 16273, And1-V2 (02), scheduling Sat Nov 13 00:01:13 GMT 2021

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: SCHED 50%; SAME ORIENT AS 01; AFTER 01; GROUP 02,01,03 WITHIN 15D

Comments: This is the second out of three visits for obtaining second-epoch images of Andromeda I. This visit spends 3 orbits in total with ACS/WFC being the primary and the WFC3/UVIS being the parallel instruments.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	ANDROMEDA-I	RA: 00 45 42.6728 (11.4278033d) Dec: +38 02 22.27 (38.03952d) Equinox: J2000	Epoch of Position: 2015.5	V=12.7	Reference Frame: SIMBAD

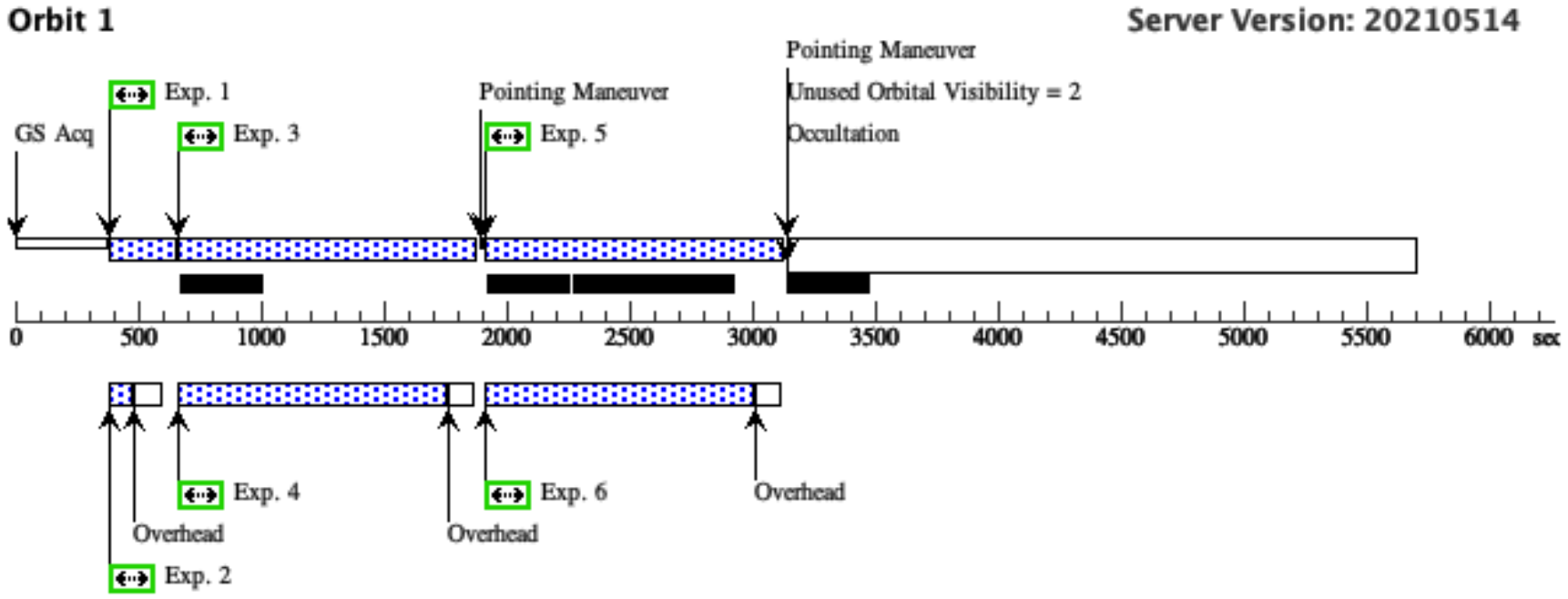
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[DWARF SPHEROIDAL]

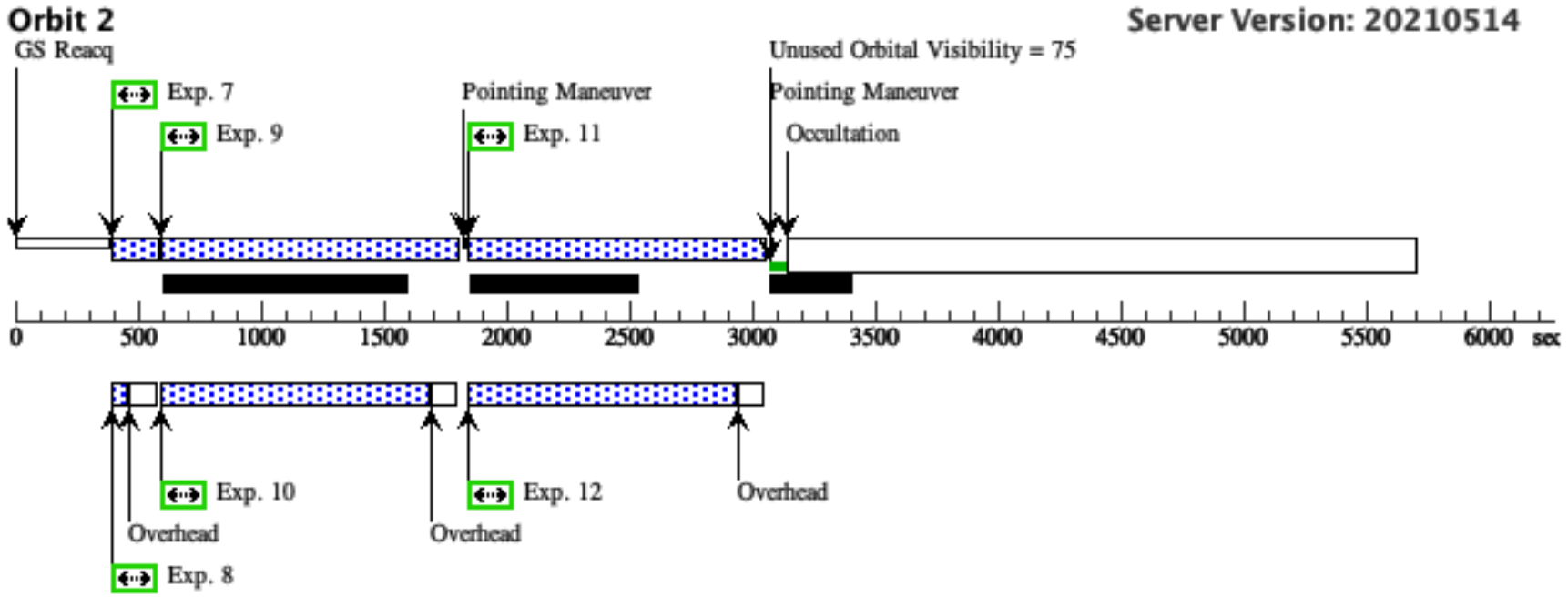
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.0000,0 .0000	Sequence 1-6 Non-Int in And1-V2 (02) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And1-V2 (02)	60 Secs (60 Secs) *[==>]*	***[1]***
2		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 1-6 Non-Int in And1-V2 (02) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And1-V2 (02)	60 Secs (60 Secs) *[==>]*	***[1]***
3		(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.0000,0 .0000	Sequence 1-6 Non-Int in And1-V2 (02) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And1-V2 (02)	1090 Secs (1090 Secs) *[==>]*	***[1]***
4		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And1-V2 (02) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And1-V2 (02)	1090 Secs (1090 Secs) *[==>]*	***[1]***
5		(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.1647,0 .0124	Sequence 1-6 Non-Int in And1-V2 (02) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And1-V2 (02)	1090 Secs (1090 Secs) *[==>]*	***[1]***
6		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And1-V2 (02) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And1-V2 (02)	1090 Secs (1090 Secs) *[==>]*	***[1]***
7		(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.3293,0 .0248	Sequence 7-12 Non-Int in And1-V2 (02) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And1-V2 (02)	60 Secs (60 Secs) *[==>]*	***[2]***
8		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 7-12 Non-Int in And1-V2 (02) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And1-V2 (02)	60 Secs (60 Secs) *[==>]*	***[2]***
9		(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.3293,0 .0248	Sequence 7-12 Non-Int in And1-V2 (02) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And 1-V2 (02)	1090 Secs (1090 Secs) *[==>]*	***[2]***

	10	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And1-V2 (02) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And1-V2 (02)	1090 Secs (1090 Secs) *[==>]*	***[2]***
	11	(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.0747,0.1294	Sequence 7-12 Non-Int in And1-V2 (02) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And1-V2 (02)	1090 Secs (1090 Secs) *[==>]*	***[2]***
	12	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And1-V2 (02) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And1-V2 (02)	1090 Secs (1090 Secs) *[==>]*	***[2]***
	13	(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.2393,0.1418	Sequence 13-18 Non-Int in And1-V2 (02) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And1-V2 (02)	60 Secs (60 Secs) *[==>]*	***[3]***
	14	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 13-18 Non-Int in And1-V2 (02) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And1-V2 (02)	60 Secs (60 Secs) *[==>]*	***[3]***
	15	(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.2393,0.1418	Sequence 13-18 Non-Int in And1-V2 (02) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And1-V2 (02)	1090 Secs (1090 Secs) *[==>]*	***[3]***
	16	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 13-18 Non-Int in And1-V2 (02) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And1-V2 (02)	1090 Secs (1090 Secs) *[==>]*	***[3]***
	17	(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.4039,0.1541	Sequence 13-18 Non-Int in And1-V2 (02) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And1-V2 (02)	1090 Secs (1090 Secs) *[==>]*	***[3]***
	18	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 13-18 Non-Int in And1-V2 (02) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And1-V2 (02)	1090 Secs (1090 Secs) *[==>]*	***[3]***

Orbit Structure




Orbit 2
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GS Reacq
Exp. 7
Exp. 9
Pointing Maneuver
Exp. 11
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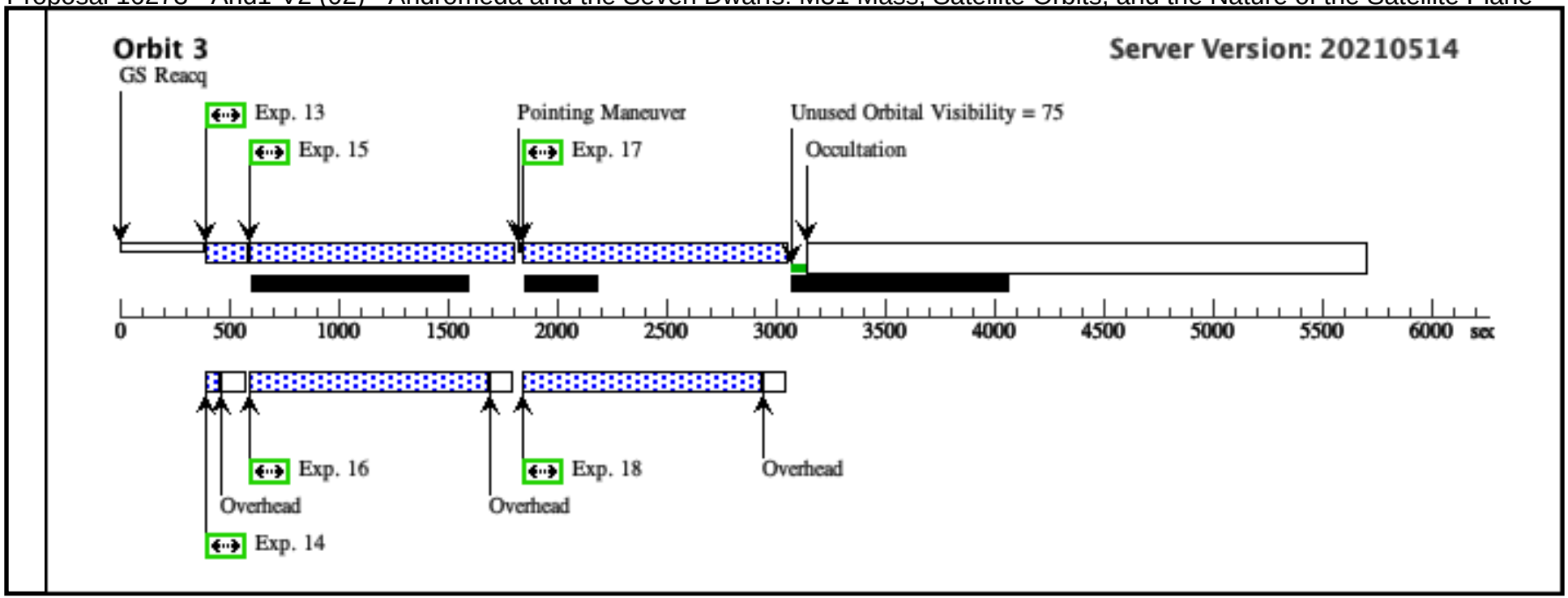
Pointing Maneuver
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec
Exp. 10
Overhead
Exp. 8
Overhead
Exp. 12
Overhead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GS Reacq
Exp. 13
Exp. 15
Pointing Maneuver
Exp. 17
Unused Orbital Visibility = 75
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500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec
Exp. 16
Overhead
Exp. 14
Overhead
Exp. 18
Overhead

Visit

Proposal 16273, And1-V3 (03), scheduling Sat Nov 13 00:01:14 GMT 2021

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: SCHED 50%; SAME ORIENT AS 01; AFTER 02; GROUP 03,01,02 WITHIN 15D

Comments: This is the third out of three visits for obtaining second-epoch images of Andromeda I. This visit spends 3 orbits in total with ACS/WFC being the primary and the WFC3/UVIS being the parallel instruments.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	ANDROMEDA-I	RA: 00 45 42.6728 (11.4278033d) Dec: +38 02 22.27 (38.03952d) Equinox: J2000	Epoch of Position: 2015.5	V=12.7	Reference Frame: SIMBAD

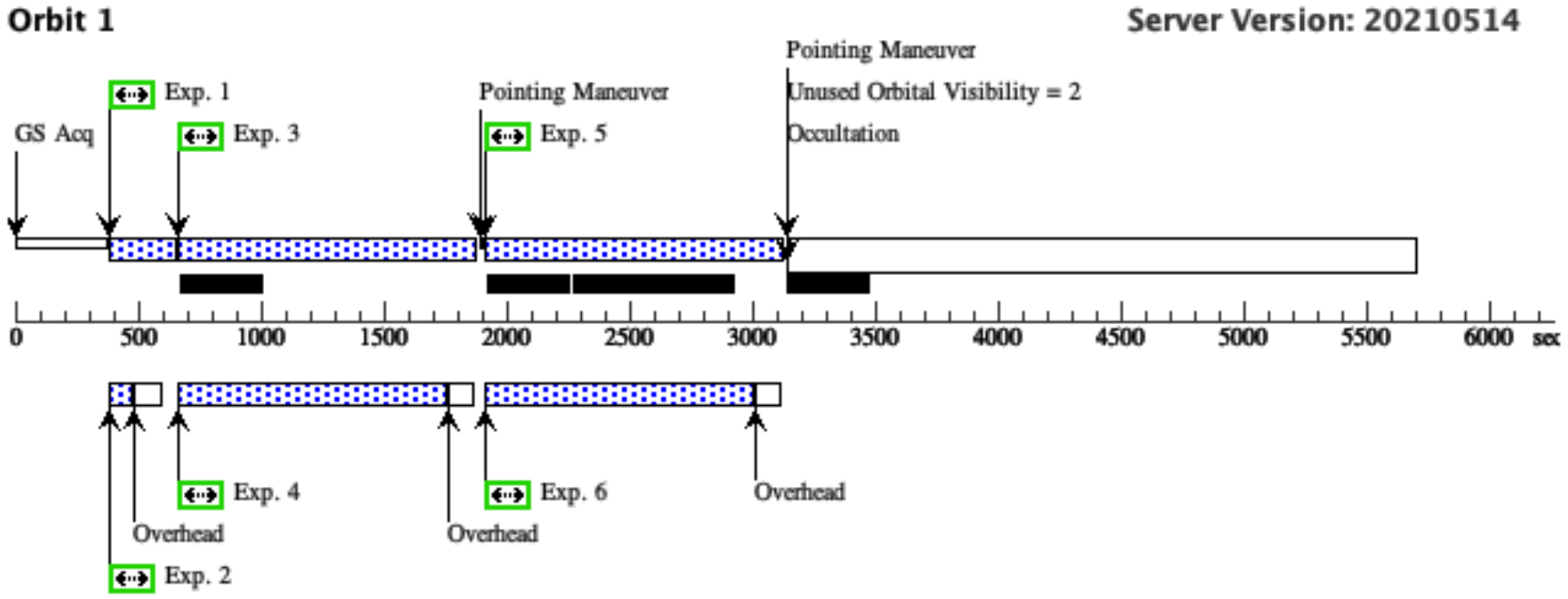
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[DWARF SPHEROIDAL]

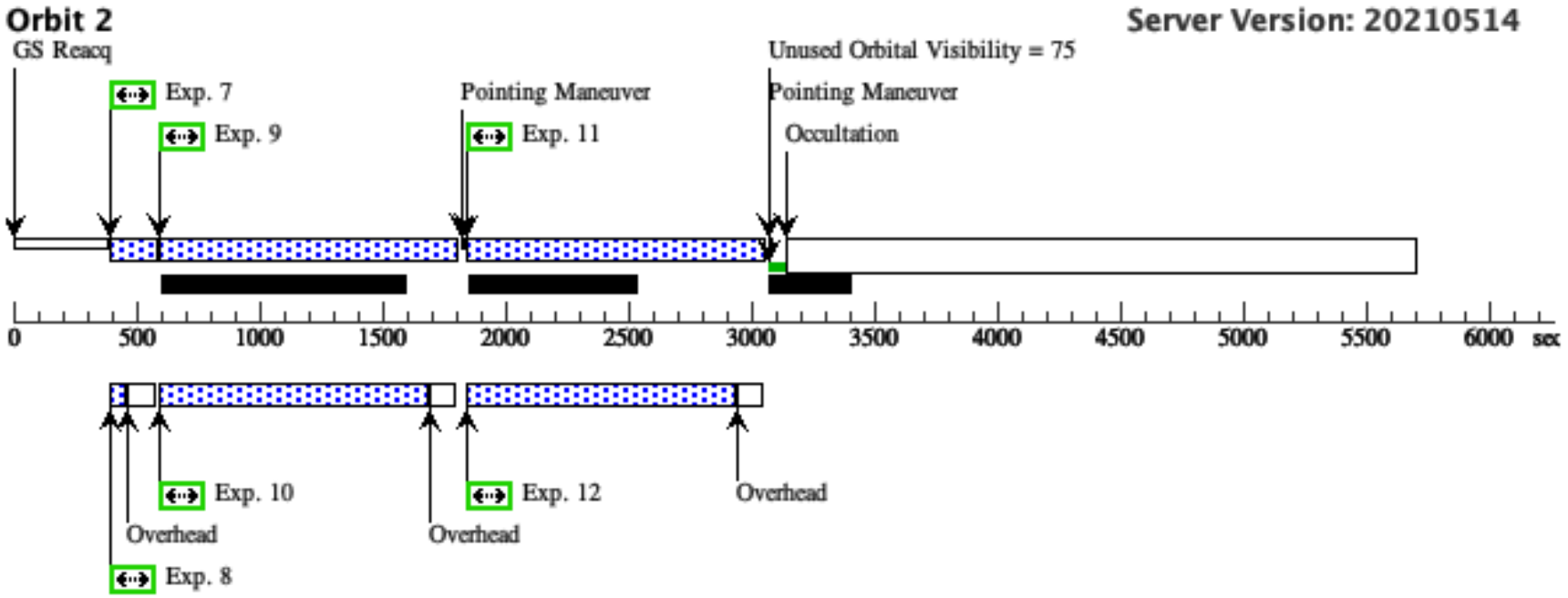
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0000,1.0000	Sequence 1-6 Non-Int in And1-V3 (03) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And1-V3 (03)	60 Secs (60 Secs) *[==>]*	***[1]***
2		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 1-6 Non-Int in And1-V3 (03) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And1-V3 (03)	60 Secs (60 Secs) *[==>]*	***[1]***
3		(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0000,1.0000	Sequence 1-6 Non-Int in And1-V3 (03) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And1-V3 (03)	1090 Secs (1090 Secs) *[==>]*	***[1]***
4		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And1-V3 (03) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And1-V3 (03)	1090 Secs (1090 Secs) *[==>]*	***[1]***
5		(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.1647,1.0124	Sequence 1-6 Non-Int in And1-V3 (03) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And1-V3 (03)	1090 Secs (1090 Secs) *[==>]*	***[1]***
6		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And1-V3 (03) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And1-V3 (03)	1090 Secs (1090 Secs) *[==>]*	***[1]***
7		(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.3293,1.0248	Sequence 7-12 Non-Int in And1-V3 (03) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And1-V3 (03)	60 Secs (60 Secs) *[==>]*	***[2]***
8		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 7-12 Non-Int in And1-V3 (03) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And1-V3 (03)	60 Secs (60 Secs) *[==>]*	***[2]***
9		(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.3293,1.0248	Sequence 7-12 Non-Int in And1-V3 (03) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And 1-V3 (03)	1090 Secs (1090 Secs) *[==>]*	***[2]***

	10	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And1-V3 (03) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And1-V3 (03)	1090 Secs (1090 Secs) *[==>]*	***[2]***
	11	(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0747,1.1294	Sequence 7-12 Non-Int in And1-V3 (03) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And1-V3 (03)	1090 Secs (1090 Secs) *[==>]*	***[2]***
	12	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And1-V3 (03) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And1-V3 (03)	1090 Secs (1090 Secs) *[==>]*	***[2]***
	13	(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.2393,1.1418	Sequence 13-18 Non-Int in And1-V3 (03) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And1-V3 (03)	60 Secs (60 Secs) *[==>]*	***[3]***
	14	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 13-18 Non-Int in And1-V3 (03) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And1-V3 (03)	60 Secs (60 Secs) *[==>]*	***[3]***
	15	(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.2393,1.1418	Sequence 13-18 Non-Int in And1-V3 (03) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And1-V3 (03)	1090 Secs (1090 Secs) *[==>]*	***[3]***
	16	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 13-18 Non-Int in And1-V3 (03) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And1-V3 (03)	1090 Secs (1090 Secs) *[==>]*	***[3]***
	17	(1) ANDROMEDA-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.4039,1.1541	Sequence 13-18 Non-Int in And1-V3 (03) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And1-V3 (03)	1090 Secs (1090 Secs) *[==>]*	***[3]***
	18	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 13-18 Non-Int in And1-V3 (03) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And1-V3 (03)	1090 Secs (1090 Secs) *[==>]*	***[3]***

Orbit Structure

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Exp. 9
Pointing Maneuver
Exp. 11
Unused Orbital Visibility = 75
Pointing Maneuver
Occultation
0
500
1000
1500
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4500
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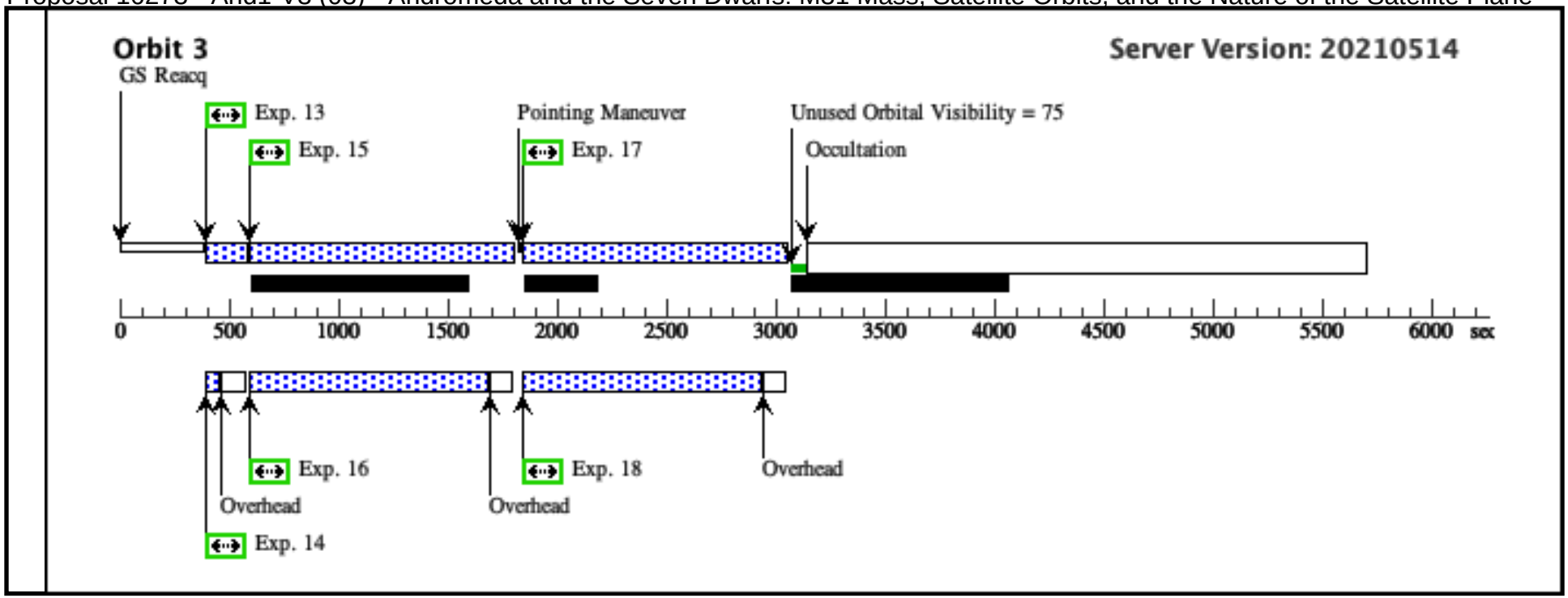
5500
6000
sec
Exp. 10
Overhead
Exp. 8
Overhead
Exp. 12
Overhead


Orbit 3
Server Version: 20210514
GS Reacq
Exp. 13
Exp. 15
Pointing Maneuver
Exp. 17
Unused Orbital Visibility = 75
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec
Exp. 16
Overhead
Exp. 14
Overhead
Exp. 18
Overhead

Visit

Proposal 16273, And2 (04), failed Sat Nov 13 00:01:14 GMT 2021

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: SCHED 70%; ORIENT 174.5D TO 176.5 D; AFTER 01-JAN-2021:00:00:00

Comments: This is the visit for obtaining second-epoch images of Andromeda II. This visit spends 4 orbits in total with ACS/WFC being the primary and the WFC3/UVIS being the parallel instruments. For proper motion measuring purpose, we required to match our telescope orientations to the first-epoch observations for both the primary and parallel fields. We have accordingly added the Visit Orientation Requirements. Our science requires that the time baseline between the previous first- and this cycle's second-epoch is at least 8 years apart (this is specified in the Phase 1 proposal). We therefore added a Timing Requirement of "AFTER 01-JAN-2021:00:00:00". Finally, we changed the schedulability requirement to 70 because there were no available windows for 60 and lower.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	ANDROMEDA-II	RA: 01 16 23.7701 (19.0990421d) Dec: +33 26 4.62 (33.43462d) Equinox: J2000	Epoch of Position: 2015.5	V=11.7	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[DWARF SPHEROIDAL]

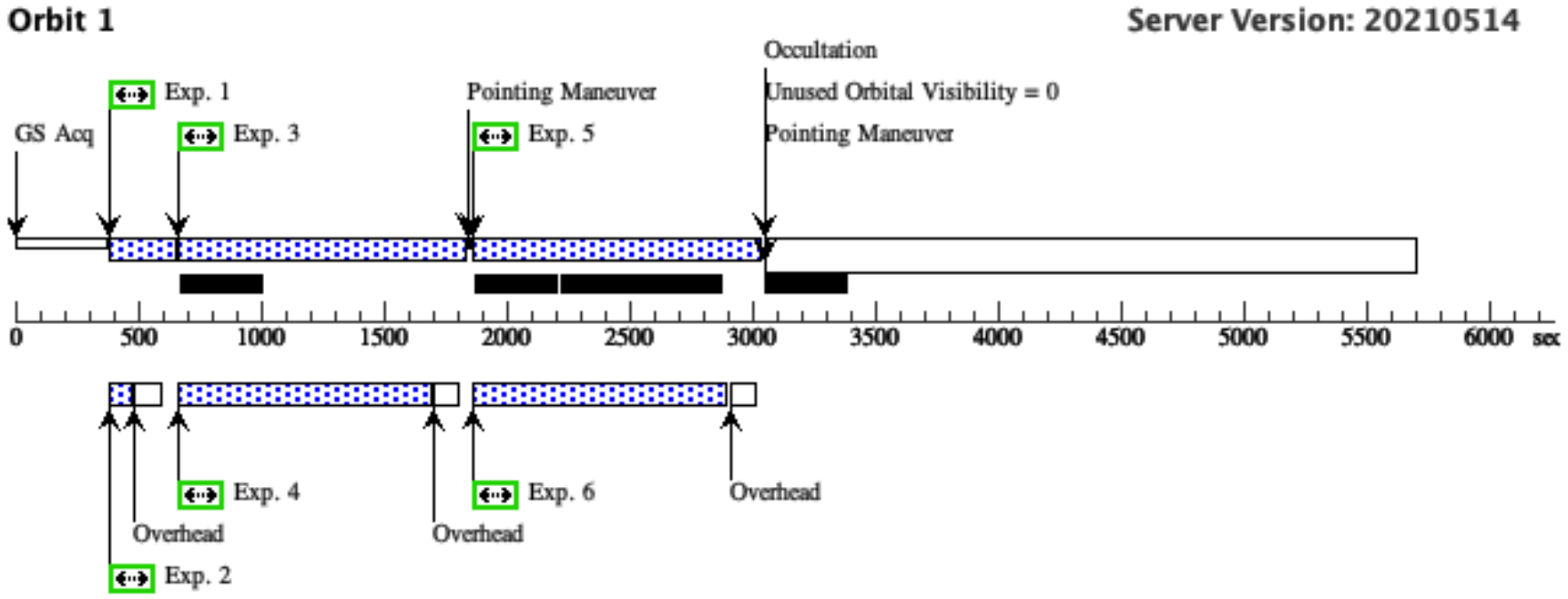
Exposures

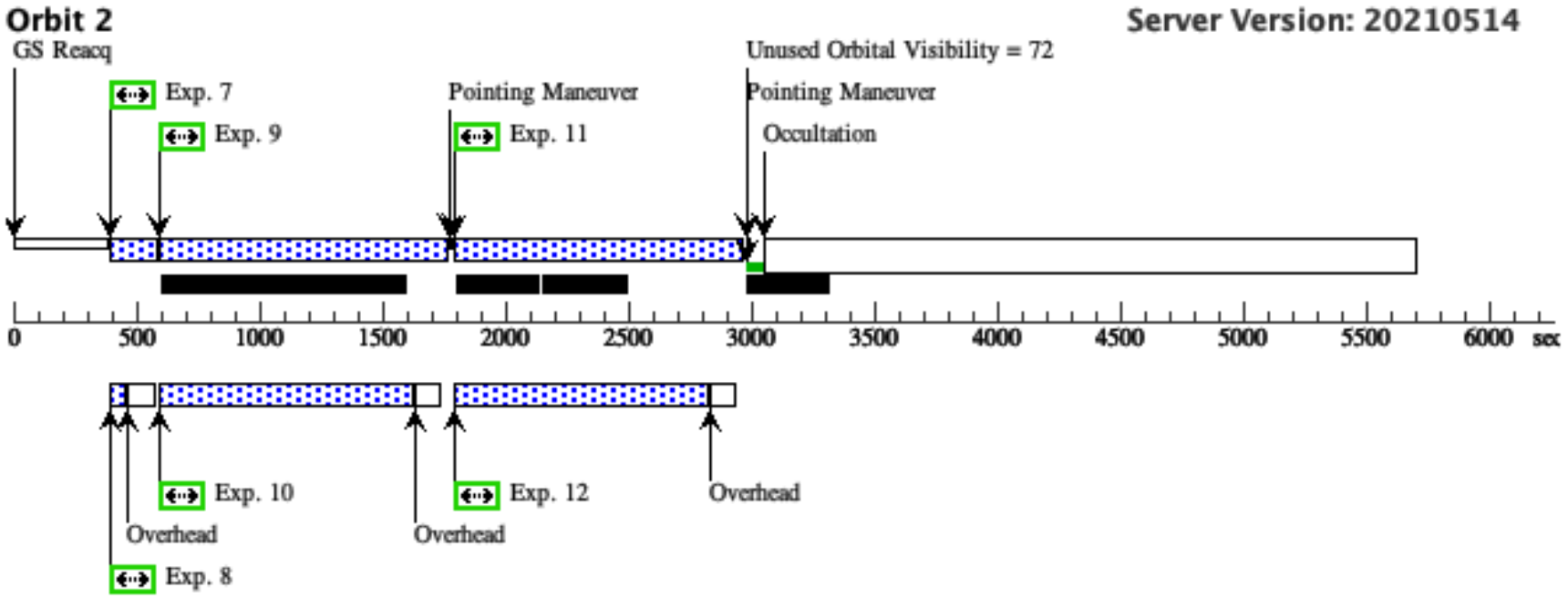
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(2) ANDROMEDA-II	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0000,0.0000	Sequence 1-6 Non-Int in And2 (04) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And2 (04)	60 Secs (60 Secs) *[==>]*	***[1]***
2		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 1-6 Non-Int in And2 (04) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And2 (04)	60 Secs (60 Secs) *[==>]*	***[1]***
3		(2) ANDROMEDA-II	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0000,0.0000	Sequence 1-6 Non-Int in And2 (04) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And2 (04)	1044 Secs (1044 Secs) *[==>]*	***[1]***
4		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And2 (04) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And2 (04)	1030 Secs (1030 Secs) *[==>]*	***[1]***
5		(2) ANDROMEDA-II	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.1740,0.2350	Sequence 1-6 Non-Int in And2 (04) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And2 (04)	1045 Secs (1045 Secs) *[==>]*	***[1]***
6		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And2 (04) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And2 (04)	1030 Secs (1030 Secs) *[==>]*	***[1]***
7		(2) ANDROMEDA-II	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.3232,0.1235	Sequence 7-12 Non-Int in And2 (04) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And2 (04)	60 Secs (60 Secs) *[==>]*	***[2]***
8		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 7-12 Non-Int in And2 (04) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And2 (04)	60 Secs (60 Secs) *[==>]*	***[2]***
9		(2) ANDROMEDA-II	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.3232,0.1235	Sequence 7-12 Non-Int in And2 (04) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And2 (04)	1045 Secs (1045 Secs) *[==>]*	***[2]***

	10	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And2 (04) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And2 (04)	1030 Secs (1030 Secs) *[==>]*	***[2]***
	11	(2) ANDROMEDA-II	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.1005,0.3305	Sequence 7-12 Non-Int in And2 (04) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And2 (04)	1045 Secs (1045 Secs) *[==>]*	***[2]***
	12	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And2 (04) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And2 (04)	1030 Secs (1030 Secs) *[==>]*	***[2]***
	13	(2) ANDROMEDA-II	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.5075,0.0505	Sequence 13-18 Non-Int in And2 (04) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And2 (04)	60 Secs (60 Secs) *[==>]*	***[3]***
	14	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 13-18 Non-Int in And2 (04) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And2 (04)	60 Secs (60 Secs) *[==>]*	***[3]***
	15	(2) ANDROMEDA-II	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.5075,0.0505	Sequence 13-18 Non-Int in And2 (04) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And2 (04)	1045 Secs (1045 Secs) *[==>]*	***[3]***
	16	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 13-18 Non-Int in And2 (04) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And2 (04)	1030 Secs (1030 Secs) *[==>]*	***[3]***
	17	(2) ANDROMEDA-II	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.6815,0.2855	Sequence 13-18 Non-Int in And2 (04) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And2 (04)	1045 Secs (1045 Secs) *[==>]*	***[3]***
	18	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 13-18 Non-Int in And2 (04) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And2 (04)	1030 Secs (1030 Secs) *[==>]*	***[3]***

	19	(2) ANDROMEDA-II	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.8300,0.1735	Sequence 19-24 Non-Int in And2 (04) Prime + Parallel Group 19-20 in Sequence 19-24 Non-Int in And2 (04)	60 Secs (60 Secs) *[==>]*		***[4]***
	20	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 19-24 Non-Int in And2 (04) Prime + Parallel Group 19-20 in Sequence 19-24 Non-Int in And2 (04)	60 Secs (60 Secs) *[==>]*		***[4]***
	21	(2) ANDROMEDA-II	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.8300,0.1735	Sequence 19-24 Non-Int in And2 (04) Prime + Parallel Group 21-22 in Sequence 19-24 Non-Int in And2 (04)	1045 Secs (1045 Secs) *[==>]*		***[4]***
	22	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 19-24 Non-Int in And2 (04) Prime + Parallel Group 21-22 in Sequence 19-24 Non-Int in And2 (04)	1030 Secs (1030 Secs) *[==>]*		***[4]***
	23	(2) ANDROMEDA-II	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.6080,0.3810	Sequence 19-24 Non-Int in And2 (04) Prime + Parallel Group 23-24 in Sequence 19-24 Non-Int in And2 (04)	1045 Secs (1045 Secs) *[==>]*		***[4]***
	24	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 19-24 Non-Int in And2 (04) Prime + Parallel Group 23-24 in Sequence 19-24 Non-Int in And2 (04)	1030 Secs (1030 Secs) *[==>]*		***[4]***

Orbit Structure

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Exp. 9
Pointing Maneuver
Exp. 11
Unused Orbital Visibility = 72
Pointing Maneuver
Occultation
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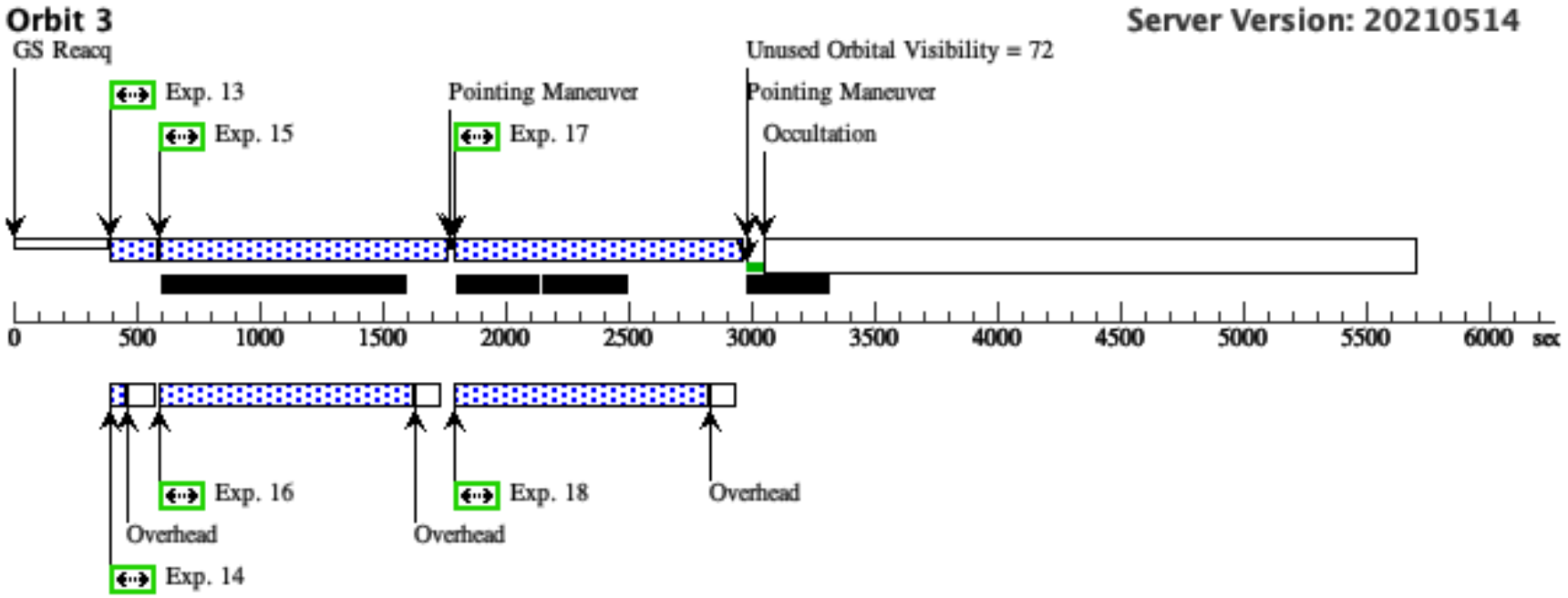
sec
Exp. 10
Overhead
Exp. 8
Overhead
Exp. 12
Overhead


Orbit 3
Server Version: 20210514
GS Reacq
Exp. 13
Exp. 15
Pointing Maneuver
Exp. 17
Unused Orbital Visibility = 72
Pointing Maneuver
Occultation
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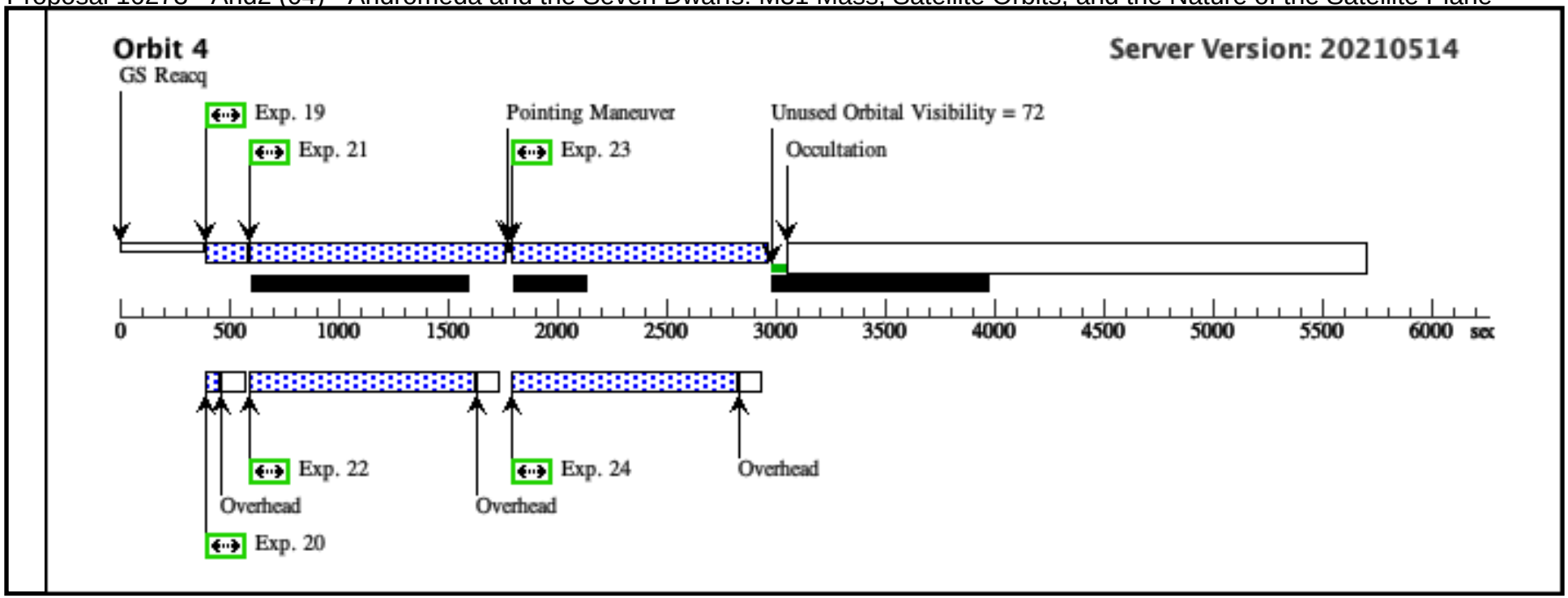
Exp. 16
Overhead
Exp. 14
Overhead
Exp. 18
Overhead


Orbit 4
Server Version: 20210514
GS Reacq
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Exp. 21
Pointing Maneuver
Exp. 23
Unused Orbital Visibility = 72
Occultation
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2500
3000
3500
4000
4500
5000
5500
6000
sec
Exp. 22
Overhead
Exp. 20
Overhead
Exp. 24
Overhead

Visit

Proposal 16273, And3-V1 (05), scheduling Sat Nov 13 00:01:14 GMT 2021

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: ORIENT 91.1D TO 91.1 D; AFTER 01-FEB-2021:00:00:00; GROUP 05,06 WITHIN 15D

Comments: This is the first out of two visits for obtaining second-epoch images of Andromeda V. This visit spends 4 orbits in total with ACS/WFC being the primary and the WFC3/UVIS being the parallel instruments. For proper motion measuring purpose, we required to match our telescope orientations to the first-epoch observations for both the primary and parallel fields. We have accordingly added the Visit Orientation Requirements. We have grouped Visits 05 and 06 and specified these visits to be observed within a 15 day period so that all images can be treated as a single-epoch data for astrometric analyses. Our science requires that the time baseline between the previous first- and this cycle's second-epoch is at least 7 years apart (this is specified in the Phase 1 proposal). We therefore added a Timing Requirement of "AFTER 01-FEB-2021:00:00:00".

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	ANDROMEDA-III	RA: 00 35 30.7304 (8.8780433d) Dec: +36 30 14.41 (36.50400d) Equinox: J2000	Epoch of Position: 2015.5	V=14.4	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[DWARF SPHEROIDAL]

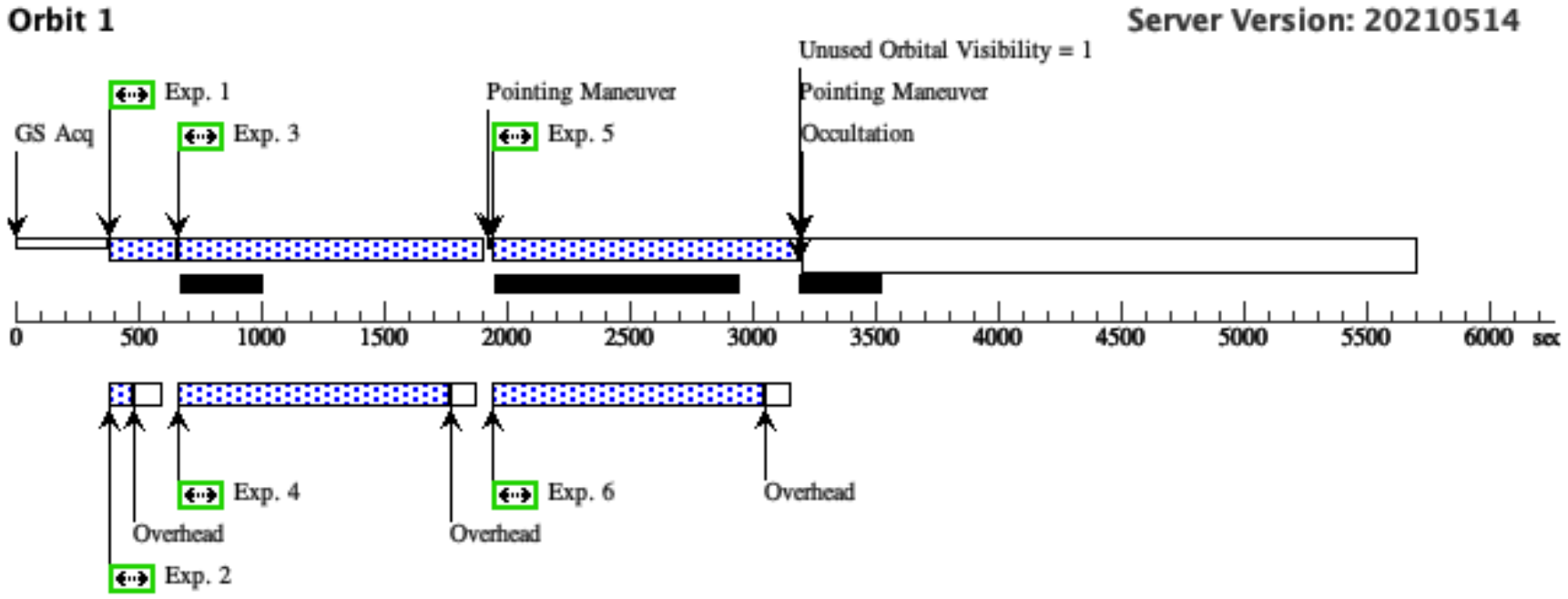
Exposures

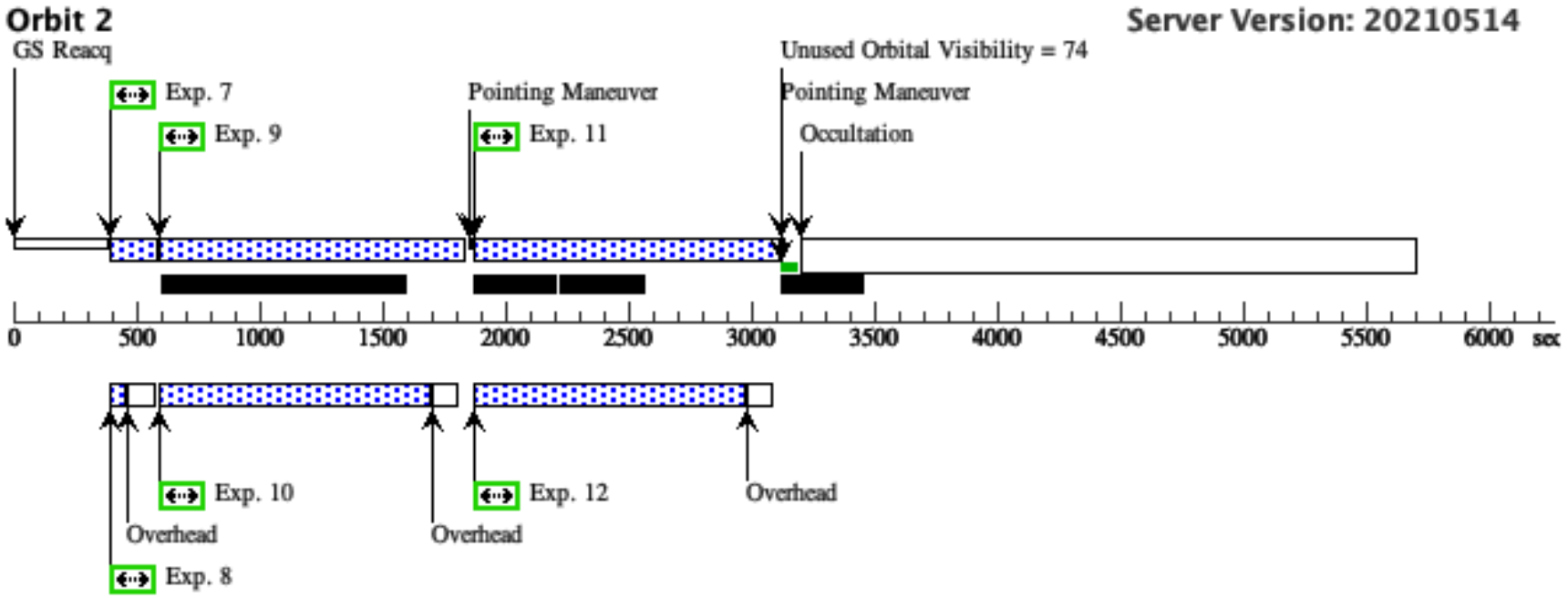
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(3) ANDROMEDA-III	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0000,0.0000	Sequence 1-6 Non-Int in And3-V1 (05) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And3-V1 (05)	60 Secs (60 Secs) *[==>]*	***[1]***
2		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 1-6 Non-Int in And3-V1 (05) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And3-V1 (05)	60 Secs (60 Secs) *[==>]*	***[1]***
3		(3) ANDROMEDA-III	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0000,0.0000	Sequence 1-6 Non-Int in And3-V1 (05) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And3-V1 (05)	1118 Secs (1118 Secs) *[==>]*	***[1]***
4		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And3-V1 (05) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And3-V1 (05)	1100 Secs (1100 Secs) *[==>]*	***[1]***
5		(3) ANDROMEDA-III	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.1740,0.2350	Sequence 1-6 Non-Int in And3-V1 (05) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And3-V1 (05)	1118 Secs (1118 Secs) *[==>]*	***[1]***
6		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And3-V1 (05) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And3-V1 (05)	1100 Secs (1100 Secs) *[==>]*	***[1]***
7		(3) ANDROMEDA-III	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.3232,0.1235	Sequence 7-12 Non-Int in And3-V1 (05) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And3-V1 (05)	60 Secs (60 Secs) *[==>]*	***[2]***
8		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 7-12 Non-Int in And3-V1 (05) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And3-V1 (05)	60 Secs (60 Secs) *[==>]*	***[2]***
9		(3) ANDROMEDA-III	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.3232,0.1235	Sequence 7-12 Non-Int in And3-V1 (05) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And 3-V1 (05)	1118 Secs (1118 Secs) *[==>]*	***[2]***

10	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And3-V1 (05) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And3-V1 (05)	1100 Secs (1100 Secs) *[==>]*	***[2]***
11	(3) ANDROMEDA-III	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.1005,0.3305	Sequence 7-12 Non-Int in And3-V1 (05) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And3-V1 (05)	1118 Secs (1118 Secs) *[==>]*	***[2]***
12	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And3-V1 (05) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And3-V1 (05)	1100 Secs (1100 Secs) *[==>]*	***[2]***
13	(3) ANDROMEDA-III	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.5075,0.0505	Sequence 13-18 Non-Int in And3-V1 (05) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And3-V1 (05)	60 Secs (60 Secs) *[==>]*	***[3]***
14	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 13-18 Non-Int in And3-V1 (05) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And3-V1 (05)	60 Secs (60 Secs) *[==>]*	***[3]***
15	(3) ANDROMEDA-III	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.5075,0.0505	Sequence 13-18 Non-Int in And3-V1 (05) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And3-V1 (05)	1118 Secs (1118 Secs) *[==>]*	***[3]***
16	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 13-18 Non-Int in And3-V1 (05) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And3-V1 (05)	1100 Secs (1100 Secs) *[==>]*	***[3]***
17	(3) ANDROMEDA-III	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.6815,0.2855	Sequence 13-18 Non-Int in And3-V1 (05) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And3-V1 (05)	1118 Secs (1118 Secs) *[==>]*	***[3]***
18	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 13-18 Non-Int in And3-V1 (05) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And3-V1 (05)	1100 Secs (1100 Secs) *[==>]*	***[3]***

	19	(3) ANDROMEDA-III	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.8300,0.1735	Sequence 19-24 Non-Int in And3-V1 (05) Prime + Parallel Group 19-20 in Sequence 19-24 Non-Int in And3-V1 (05)	60 Secs (60 Secs) *[==>]*	***[4]***
	20	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 19-24 Non-Int in And3-V1 (05) Prime + Parallel Group 19-20 in Sequence 19-24 Non-Int in And3-V1 (05)	60 Secs (60 Secs) *[==>]*	***[4]***
	21	(3) ANDROMEDA-III	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.8300,0.1735	Sequence 19-24 Non-Int in And3-V1 (05) Prime + Parallel Group 21-22 in Sequence 19-24 Non-Int in And3-V1 (05)	1118 Secs (1118 Secs) *[==>]*	***[4]***
	22	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 19-24 Non-Int in And3-V1 (05) Prime + Parallel Group 21-22 in Sequence 19-24 Non-Int in And3-V1 (05)	1100 Secs (1100 Secs) *[==>]*	***[4]***
	23	(3) ANDROMEDA-III	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.6080,0.3810	Sequence 19-24 Non-Int in And3-V1 (05) Prime + Parallel Group 23-24 in Sequence 19-24 Non-Int in And3-V1 (05)	1118 Secs (1118 Secs) *[==>]*	***[4]***
	24	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 19-24 Non-Int in And3-V1 (05) Prime + Parallel Group 23-24 in Sequence 19-24 Non-Int in And3-V1 (05)	1100 Secs (1100 Secs) *[==>]*	***[4]***

Orbit Structure

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Exp. 9
Pointing Maneuver
Exp. 11
Unused Orbital Visibility = 74
Pointing Maneuver
Occultation
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4500
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5500
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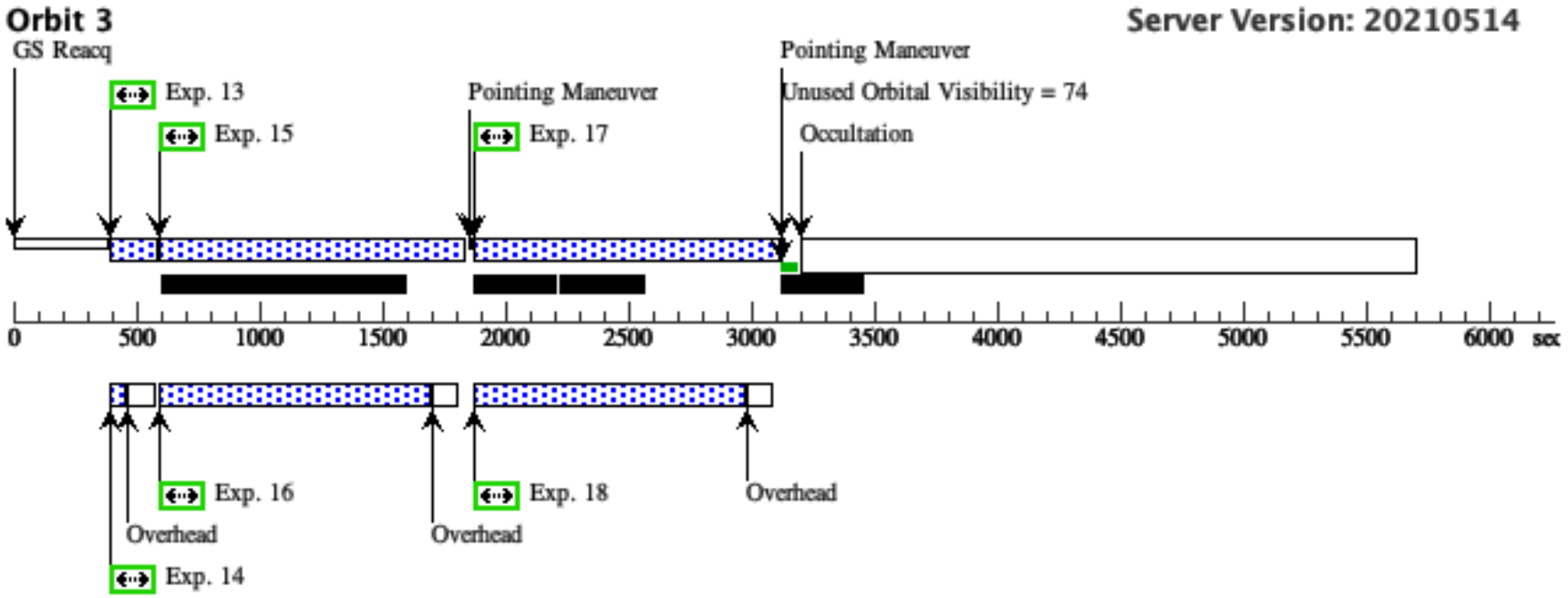
sec
Exp. 10
Overhead
Exp. 8
Overhead
Exp. 12
Overhead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Server Version: 20210514
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Exp. 15
Pointing Maneuver
Exp. 17
Pointing Maneuver
Unused Orbital Visibility = 74
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500
1000
1500
2000
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3500
4000
4500
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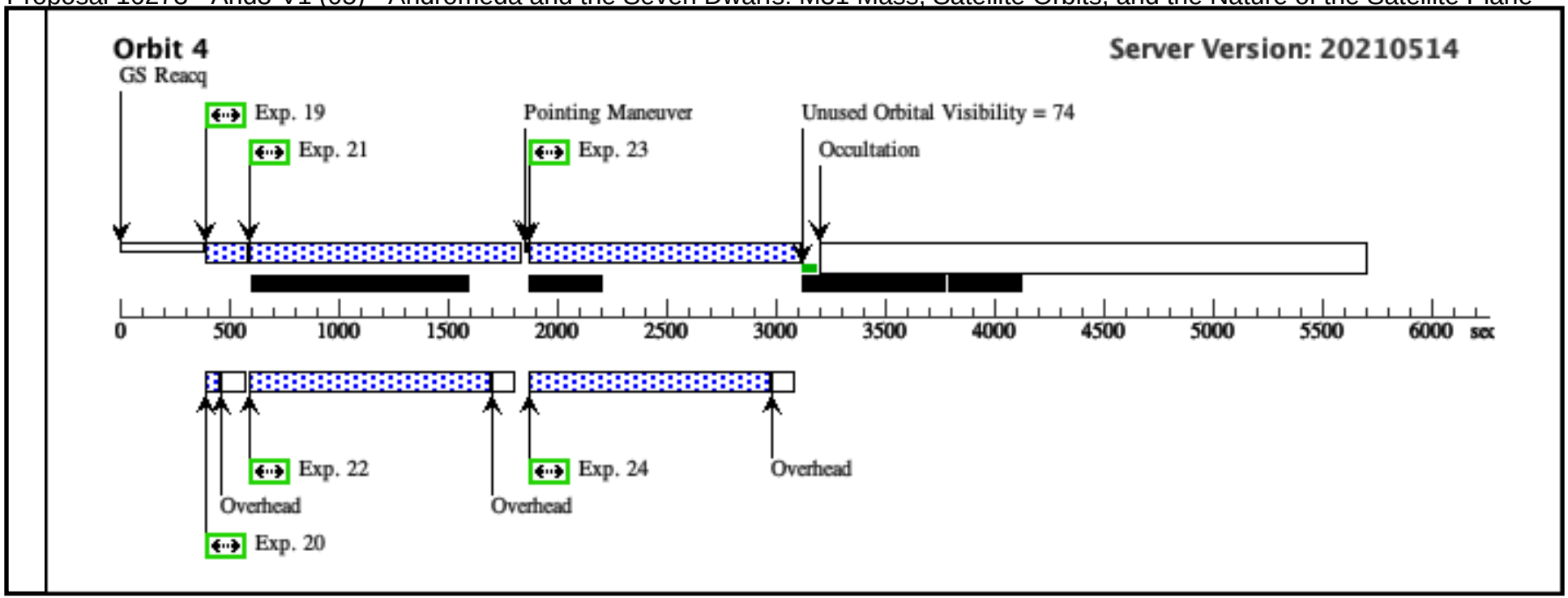
5500
6000
sec
Exp. 16
Overhead
Exp. 14
Overhead
Exp. 18
Overhead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Pointing Maneuver
Exp. 23
Unused Orbital Visibility = 74
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1500
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2500
3000
3500
4000
4500
5000
5500
6000
sec
Exp. 22
Overhead
Exp. 20
Overhead
Exp. 24
Overhead

Visit

Proposal 16273, And3-V2 (06), scheduling Sat Nov 13 00:01:14 GMT 2021

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: SAME ORIENT AS 05; AFTER 05; GROUP 06,05 WITHIN 15D

Comments: This is the second out of two visits for obtaining second-epoch images of Andromeda V. This visit spends 3 orbits in total with ACS/WFC being the primary and the WFC3/UVIS being the parallel instruments.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	ANDROMEDA-III	RA: 00 35 30.7304 (8.8780433d) Dec: +36 30 14.41 (36.50400d) Equinox: J2000	Epoch of Position: 2015.5	V=14.4	Reference Frame: SIMBAD

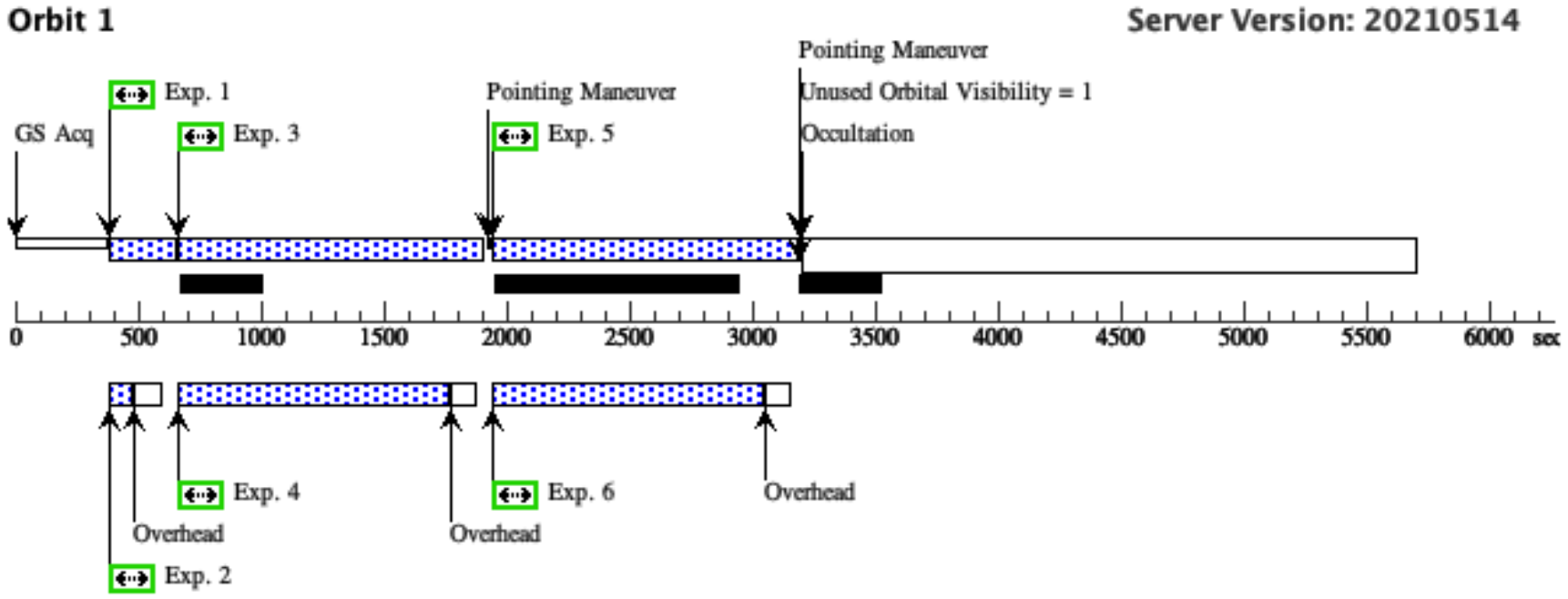
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[DWARF SPHEROIDAL]

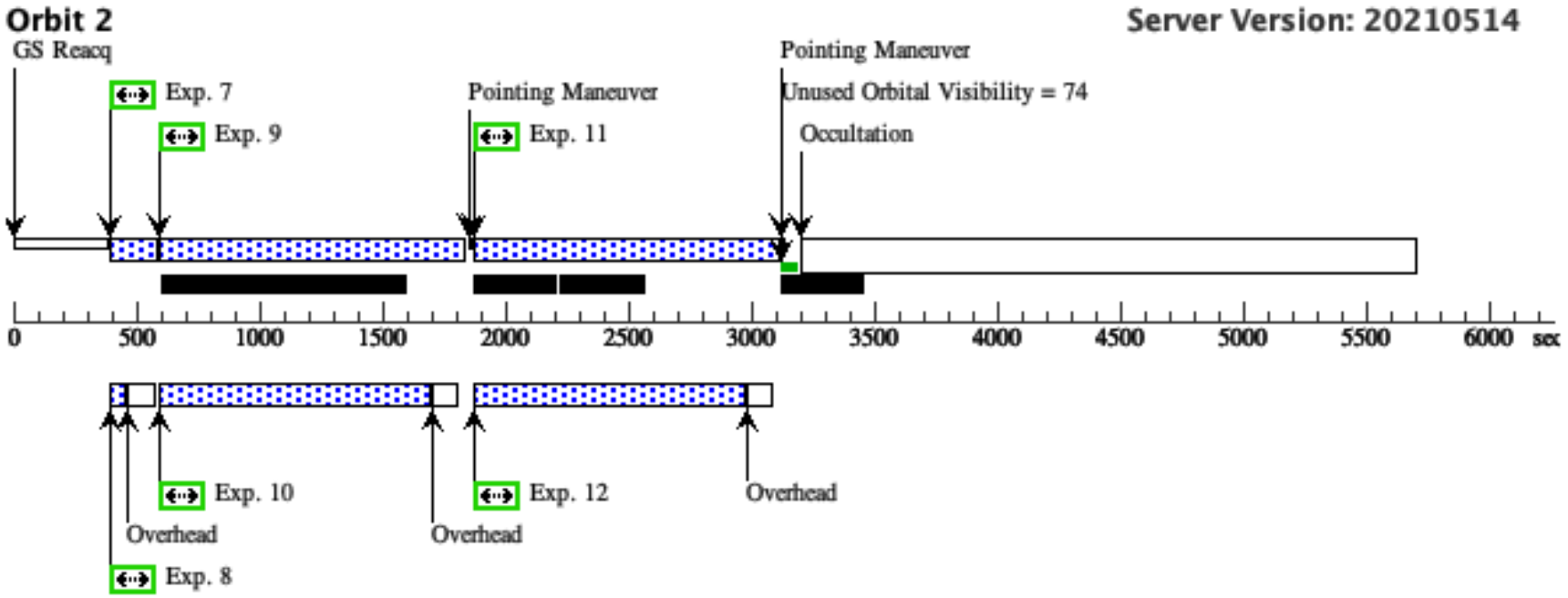
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(3) ANDROMEDA-III	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.0000,0.0000	Sequence 1-6 Non-Int in And3-V2 (06) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And3-V2 (06)	60 Secs (60 Secs) *[==>]*	***[1]***
2		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 1-6 Non-Int in And3-V2 (06) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And3-V2 (06)	60 Secs (60 Secs) *[==>]*	***[1]***
3		(3) ANDROMEDA-III	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.0000,0.0000	Sequence 1-6 Non-Int in And3-V2 (06) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And3-V2 (06)	1118 Secs (1118 Secs) *[==>]*	***[1]***
4		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And3-V2 (06) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And3-V2 (06)	1100 Secs (1100 Secs) *[==>]*	***[1]***
5		(3) ANDROMEDA-III	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.1647,0.0124	Sequence 1-6 Non-Int in And3-V2 (06) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And3-V2 (06)	1118 Secs (1118 Secs) *[==>]*	***[1]***
6		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And3-V2 (06) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And3-V2 (06)	1100 Secs (1100 Secs) *[==>]*	***[1]***
7		(3) ANDROMEDA-III	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.3293,0.0248	Sequence 7-12 Non-Int in And3-V2 (06) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And3-V2 (06)	60 Secs (60 Secs) *[==>]*	***[2]***
8		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 7-12 Non-Int in And3-V2 (06) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And3-V2 (06)	60 Secs (60 Secs) *[==>]*	***[2]***
9		(3) ANDROMEDA-III	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.3293,0.0248	Sequence 7-12 Non-Int in And3-V2 (06) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And 3-V2 (06)	1118 Secs (1118 Secs) *[==>]*	***[2]***

	10	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And3-V2 (06) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And3-V2 (06)	1100 Secs (1100 Secs) *[==>]*	***[2]***
	11	(3) ANDROMEDA-III	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.0747,0.1294	Sequence 7-12 Non-Int in And3-V2 (06) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And3-V2 (06)	1118 Secs (1118 Secs) *[==>]*	***[2]***
	12	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And3-V2 (06) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And3-V2 (06)	1100 Secs (1100 Secs) *[==>]*	***[2]***
	13	(3) ANDROMEDA-III	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.2393,0.1418	Sequence 13-18 Non-Int in And3-V2 (06) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And3-V2 (06)	60 Secs (60 Secs) *[==>]*	***[3]***
	14	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 13-18 Non-Int in And3-V2 (06) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And3-V2 (06)	60 Secs (60 Secs) *[==>]*	***[3]***
	15	(3) ANDROMEDA-III	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.2393,0.1418	Sequence 13-18 Non-Int in And3-V2 (06) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And3-V2 (06)	1118 Secs (1118 Secs) *[==>]*	***[3]***
	16	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 13-18 Non-Int in And3-V2 (06) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And3-V2 (06)	1100 Secs (1100 Secs) *[==>]*	***[3]***
	17	(3) ANDROMEDA-III	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.4039,0.1541	Sequence 13-18 Non-Int in And3-V2 (06) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And3-V2 (06)	1118 Secs (1118 Secs) *[==>]*	***[3]***
	18	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 13-18 Non-Int in And3-V2 (06) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And3-V2 (06)	1100 Secs (1100 Secs) *[==>]*	***[3]***

Orbit Structure

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Pointing Maneuver
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Pointing Maneuver
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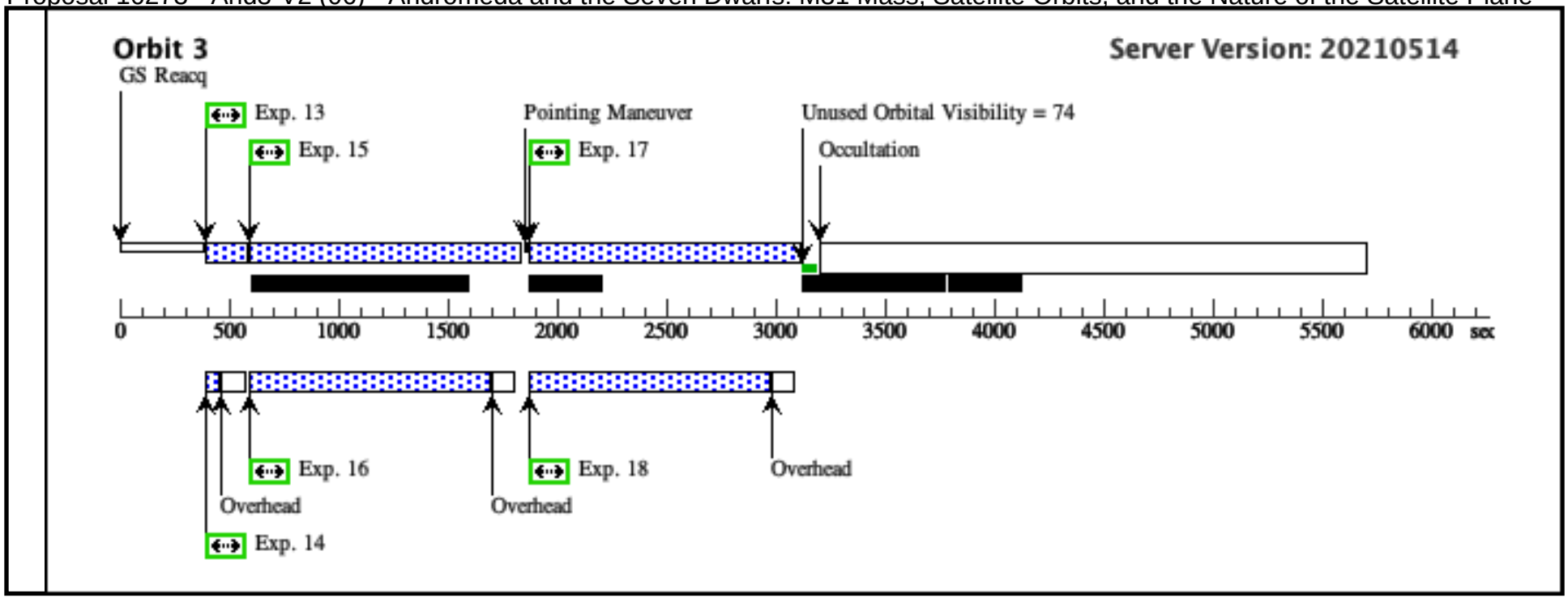
Exp. 12
Overhead


Orbit 3
Server Version: 20210514
GS Reacq
Exp. 13
Exp. 15
Pointing Maneuver
Exp. 17
Unused Orbital Visibility = 74
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2500
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3500
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4500
5000
5500
6000
sec
Exp. 16
Overhead
Exp. 14
Overhead
Exp. 18
Overhead

Visit

Proposal 16273, And15-V1 (07), failed Sat Nov 13 00:01:14 GMT 2021

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: SCHED 70%; ORIENT 200.9D TO 200.9 D; AFTER 01-JAN-2021:00:00:00; GROUP 07,08 WITHIN 15D

Comments: This is the first out of two visits for obtaining second-epoch images of Andromeda XV. This visit spends 3 orbits in total with ACS/WFC being the primary and the WFC3/UVIS being the parallel instruments. For proper motion measuring purpose, we required to match our telescope orientations to the first-epoch observations. We have accordingly added the Visit Orientation Requirements. We have grouped Visits 07 and 08 and specified these visits to be observed within a 15 day period so that all images can be treated as a single-epoch data for astrometric analyses. Our science requires that the time baseline between the previous first- and this cycle's second-epoch is at least 7 years apart (this is specified in the Phase 1 proposal). We therefore added a Timing Requirement of "AFTER 01-JAN-2021:00:00:00".

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	ANDROMEDA-XV	RA: 01 14 18.5718 (18.5773825d) Dec: +38 07 2.97 (38.11749d) Equinox: J2000	Epoch of Position: 2015.5	V=14.6	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[DWARF SPHEROIDAL]

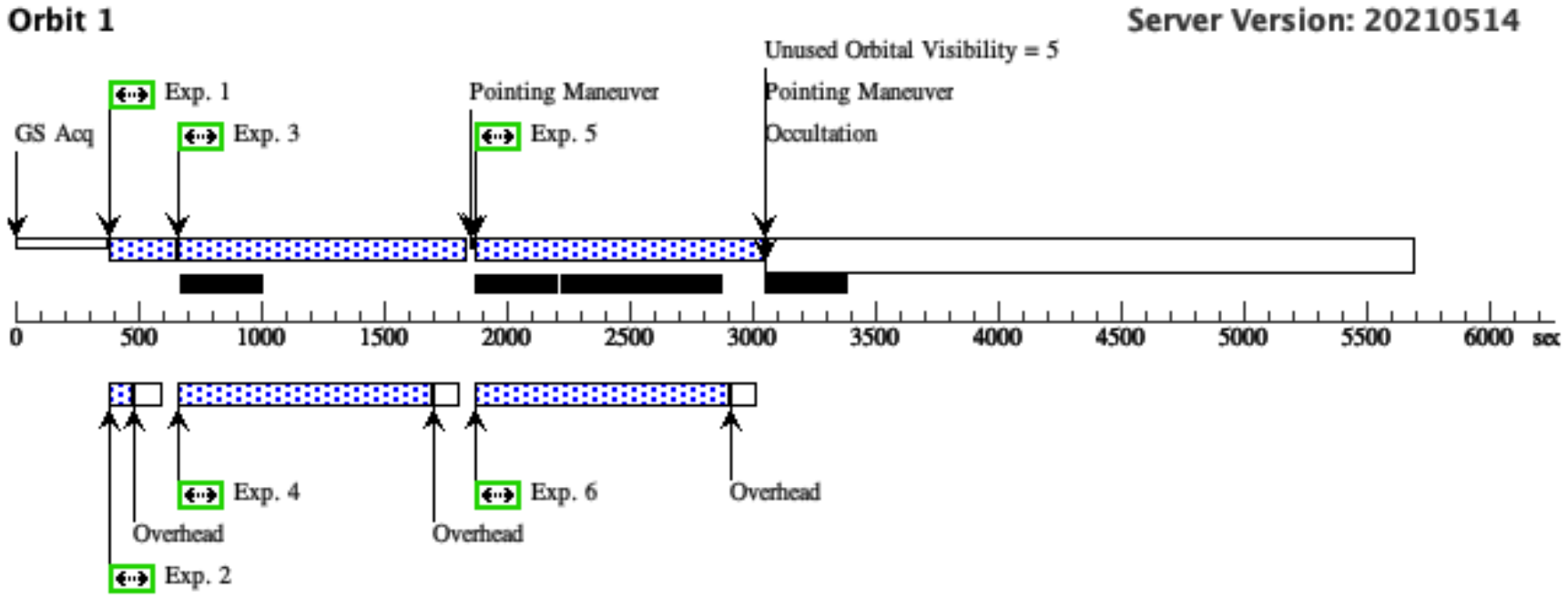
Exposures

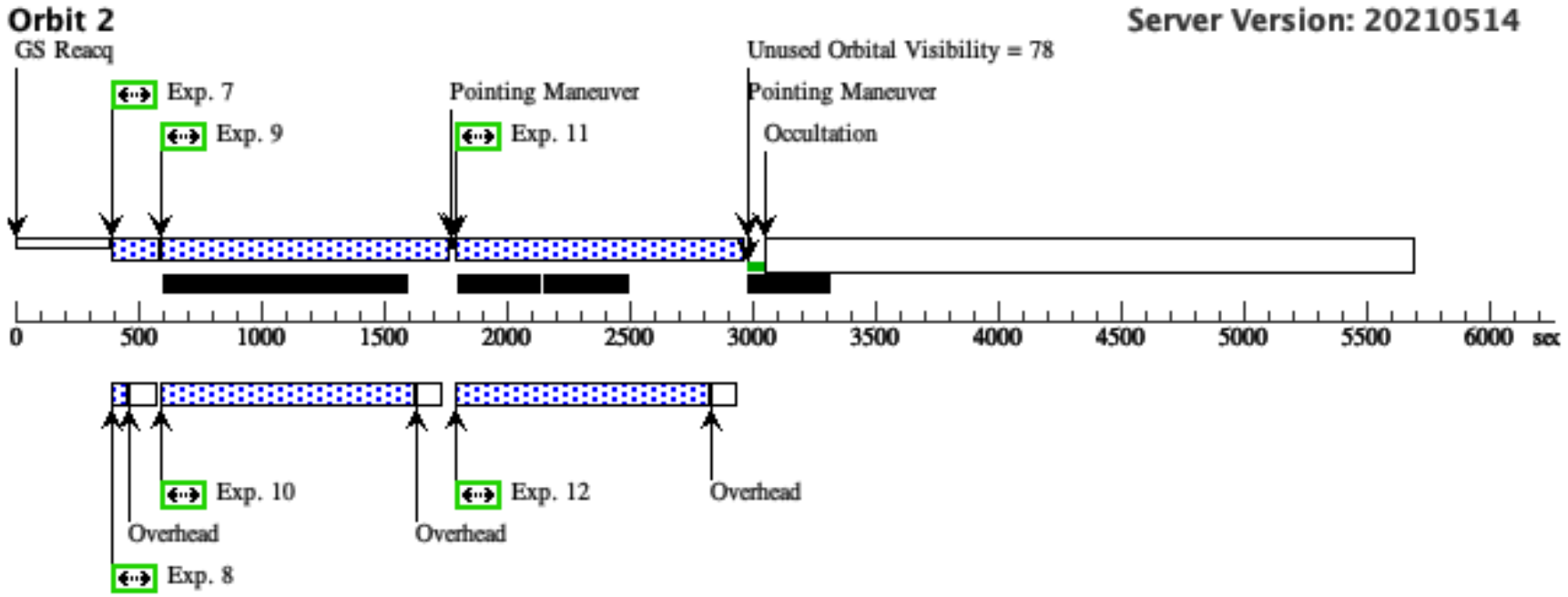
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0000,0.0000	Sequence 1-6 Non-Int in And15-V1 (07) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And15-V1 (07)	60 Secs (60 Secs) *[==>]*	***[1]***
2		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 1-6 Non-Int in And15-V1 (07) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And15-V1 (07)	60 Secs (60 Secs) *[==>]*	***[1]***
3		(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0000,0.0000	Sequence 1-6 Non-Int in And15-V1 (07) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And15-V1 (07)	1045 Secs (1045 Secs) *[==>]*	***[1]***
4		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And15-V1 (07) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And15-V1 (07)	1030 Secs (1030 Secs) *[==>]*	***[1]***
5		(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.2228,0.1158	Sequence 1-6 Non-Int in And15-V1 (07) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And15-V1 (07)	1045 Secs (1045 Secs) *[==>]*	***[1]***
6		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And15-V1 (07) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And15-V1 (07)	1030 Secs (1030 Secs) *[==>]*	***[1]***
7		(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0998,0.2303	Sequence 7-12 Non-Int in And15-V1 (07) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And15-V1 (07)	60 Secs (60 Secs) *[==>]*	***[2]***
8		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 7-12 Non-Int in And15-V1 (07) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And15-V1 (07)	60 Secs (60 Secs) *[==>]*	***[2]***
9		(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0998,0.2303	Sequence 7-12 Non-Int in And15-V1 (07) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And 15-V1 (07)	1045 Secs (1045 Secs) *[==>]*	***[2]***

	10	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And15-V1 (07) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And 15-V1 (07)	1030 Secs (1030 Secs) *[==>]*	***[2]***
	11	(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.3225,0.3460	Sequence 7-12 Non-Int in And15-V1 (07) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And15-V1 (07)	1045 Secs (1045 Secs) *[==>]*	***[2]***
	12	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And15-V1 (07) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And15-V1 (07)	1030 Secs (1030 Secs) *[==>]*	***[2]***
	13	(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.4075,0.0306	Sequence 13-18 Non-Int in And15-V1 (07) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And15-V1 (07)	60 Secs (60 Secs) *[==>]*	***[3]***
	14	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 13-18 Non-Int in And15-V1 (07) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And15-V1 (07)	60 Secs (60 Secs) *[==>]*	***[3]***
	15	(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.4075,0.0306	Sequence 13-18 Non-Int in And15-V1 (07) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And15-V1 (07)	1045 Secs (1045 Secs) *[==>]*	***[3]***
	16	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 13-18 Non-Int in And15-V1 (07) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And15-V1 (07)	1030 Secs (1030 Secs) *[==>]*	***[3]***
	17	(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.6304,0.1464	Sequence 13-18 Non-Int in And15-V1 (07) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And15-V1 (07)	1045 Secs (1045 Secs) *[==>]*	***[3]***

	18	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 13-18 Non-Int in And15-V1 (07) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And15-V1 (07)	1030 Secs (1030 Secs) *[==>]*	***[3]***
	19	(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.5073,0.2609	Sequence 19-24 Non-Int in And15-V1 (07) Prime + Parallel Group 19-20 in Sequence 19-24 Non-Int in And15-V1 (07)	60 Secs (60 Secs) *[==>]*	***[4]***
	20	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 19-24 Non-Int in And15-V1 (07) Prime + Parallel Group 19-20 in Sequence 19-24 Non-Int in And15-V1 (07)	60 Secs (60 Secs) *[==>]*	***[4]***
	21	(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.5073,0.2609	Sequence 19-24 Non-Int in And15-V1 (07) Prime + Parallel Group 21-22 in Sequence 19-24 Non-Int in And15-V1 (07)	1045 Secs (1045 Secs) *[==>]*	***[4]***
	22	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 19-24 Non-Int in And15-V1 (07) Prime + Parallel Group 21-22 in Sequence 19-24 Non-Int in And15-V1 (07)	1030 Secs (1030 Secs) *[==>]*	***[4]***
	23	(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.7302,0.3767	Sequence 19-24 Non-Int in And15-V1 (07) Prime + Parallel Group 23-24 in Sequence 19-24 Non-Int in And15-V1 (07)	1045 Secs (1045 Secs) *[==>]*	***[4]***
	24	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 19-24 Non-Int in And15-V1 (07) Prime + Parallel Group 23-24 in Sequence 19-24 Non-Int in And15-V1 (07)	1030 Secs (1030 Secs) *[==>]*	***[4]***

Orbit Structure

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Exp. 9
Pointing Maneuver
Exp. 11
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Pointing Maneuver
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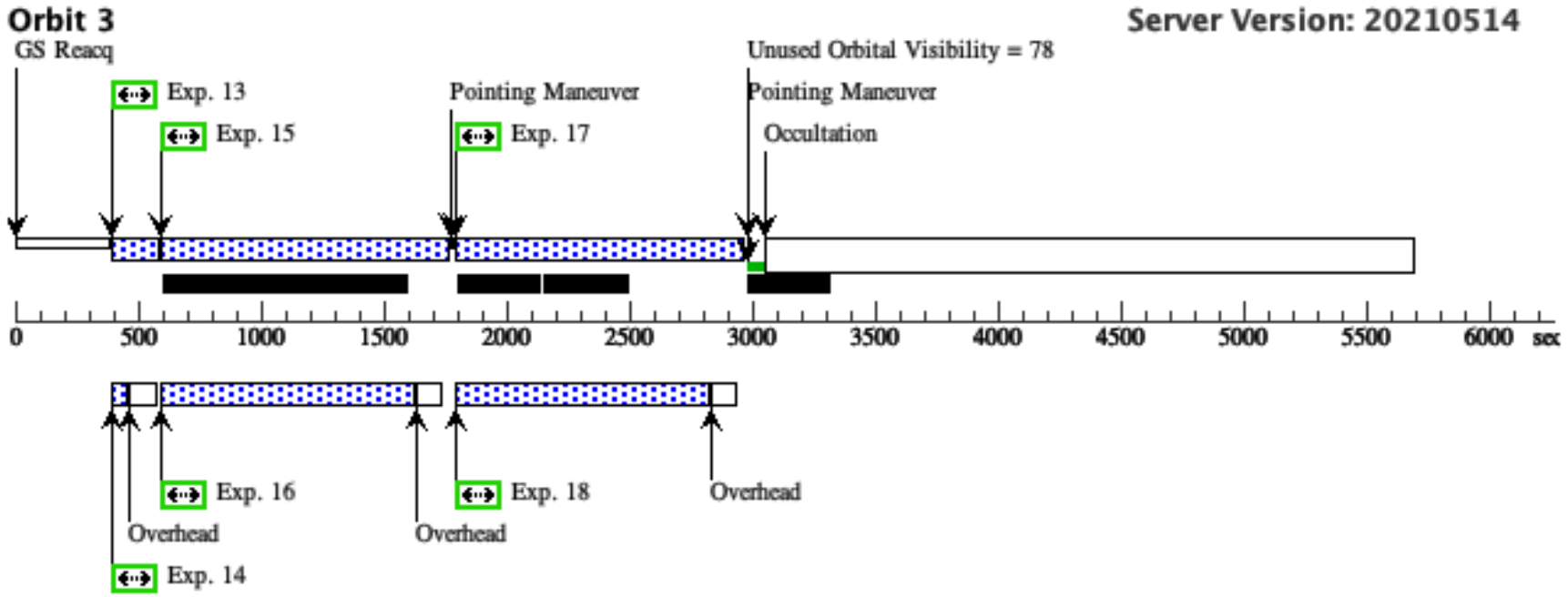
Exp. 8
Overhead
Exp. 12
Overhead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Exp. 13
Exp. 15
Pointing Maneuver
Exp. 17
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Exp. 14
Overhead
Exp. 18
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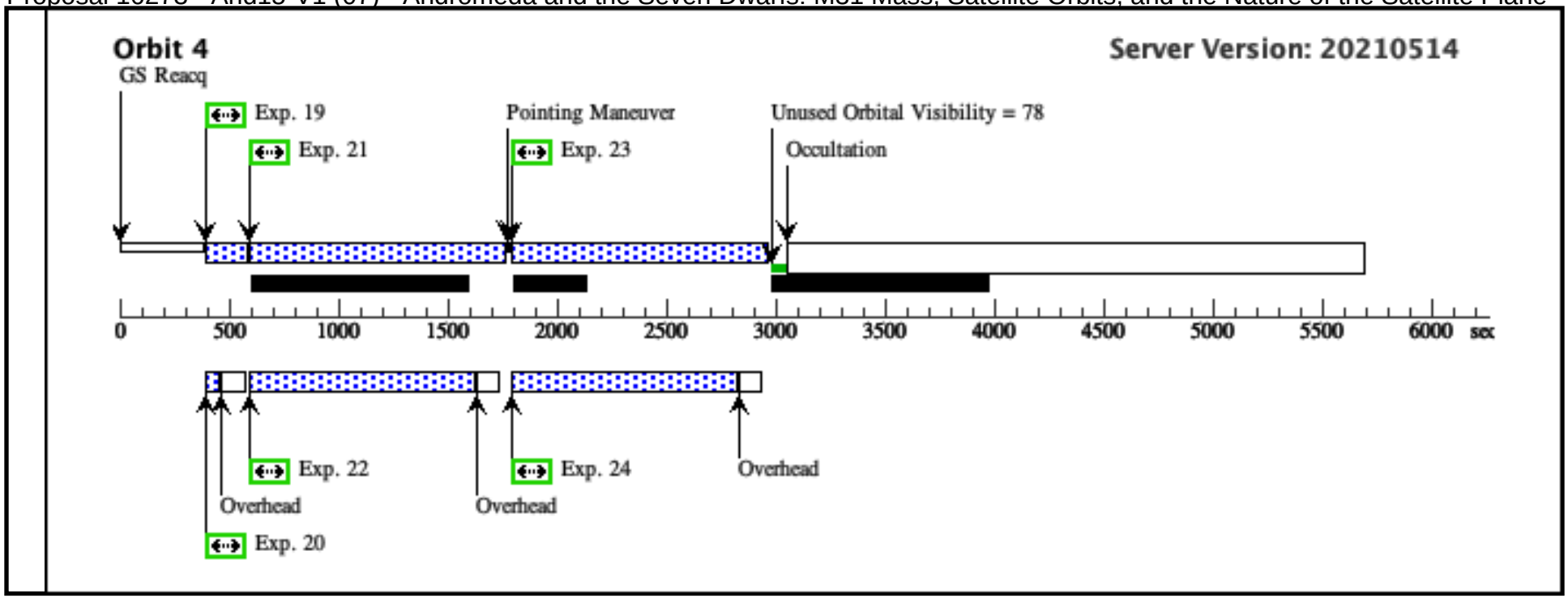
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6000
sec
Exp. 22
Overhead
Exp. 20
Overhead
Exp. 24
Overhead

Visit

Proposal 16273, And15-V2 (08), completed Sat Nov 13 00:01:14 GMT 2021

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: SCHED 70%; SAME ORIENT AS 07; AFTER 01-JAN-2021:00:00:00; AFTER 07; GROUP 08,07 WITHIN 15D

Comments: This is the second out of two visits for obtaining second-epoch images of Andromeda XV. This visit spends 4 orbits in total with ACS/WFC being the primary and the WFC3/UVIS being the parallel instruments.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	ANDROMEDA-XV	RA: 01 14 18.5718 (18.5773825d) Dec: +38 07 2.97 (38.11749d) Equinox: J2000	Epoch of Position: 2015.5	V=14.6	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[DWARF SPHEROIDAL]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0018,0.4085	Sequence 1-6 Non-Int in And15-V2 (08) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And15-V2 (08)	60 Secs (60 Secs) *[==>]*	***[1]***
2		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 1-6 Non-Int in And15-V2 (08) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And15-V2 (08)	60 Secs (60 Secs) *[==>]*	***[1]***
3		(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0018,0.4085	Sequence 1-6 Non-Int in And15-V2 (08) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And15-V2 (08)	1045 Secs (1045 Secs) *[==>]*	***[1]***
4		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And15-V2 (08) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And15-V2 (08)	1030 Secs (1030 Secs) *[==>]*	***[1]***
5		(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.2246,0.5243	Sequence 1-6 Non-Int in And15-V2 (08) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And15-V2 (08)	1045 Secs (1045 Secs) *[==>]*	***[1]***
6		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And15-V2 (08) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And15-V2 (08)	1030 Secs (1030 Secs) *[==>]*	***[1]***
7		(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.1017,0.6388	Sequence 7-12 Non-Int in And15-V2 (08) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And15-V2 (08)	60 Secs (60 Secs) *[==>]*	***[2]***
8		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 7-12 Non-Int in And15-V2 (08) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And15-V2 (08)	60 Secs (60 Secs) *[==>]*	***[2]***
9		(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.1017,0.6388	Sequence 7-12 Non-Int in And15-V2 (08) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And 15-V2 (08)	1045 Secs (1045 Secs) *[==>]*	***[2]***

	10	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And15-V2 (08) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And 15-V2 (08)	1030 Secs (1030 Secs) *[==>]*	***[2]***
	11	(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.3244,0.7545	Sequence 7-12 Non-Int in And15-V2 (08) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And15-V2 (08)	1045 Secs (1045 Secs) *[==>]*	***[2]***
	12	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And15-V2 (08) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And15-V2 (08)	1030 Secs (1030 Secs) *[==>]*	***[2]***
	13	(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.4093,0.4392	Sequence 13-18 Non-Int in And15-V2 (08) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And15-V2 (08)	60 Secs (60 Secs) *[==>]*	***[3]***
	14	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 13-18 Non-Int in And15-V2 (08) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And15-V2 (08)	60 Secs (60 Secs) *[==>]*	***[3]***
	15	(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.4093,0.4392	Sequence 13-18 Non-Int in And15-V2 (08) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And15-V2 (08)	1045 Secs (1045 Secs) *[==>]*	***[3]***
	16	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 13-18 Non-Int in And15-V2 (08) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And15-V2 (08)	1030 Secs (1030 Secs) *[==>]*	***[3]***
	17	(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.6322,0.5550	Sequence 13-18 Non-Int in And15-V2 (08) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And15-V2 (08)	1045 Secs (1045 Secs) *[==>]*	***[3]***

	18	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 13-18 Non-Int in And15-V2 (08) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And15-V2 (08)	1030 Secs (1030 Secs) *[==>]*	***[3]***
	19	(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.5091,0.6695	Sequence 19-24 Non-Int in And15-V2 (08) Prime + Parallel Group 19-20 in Sequence 19-24 Non-Int in And15-V2 (08)	60 Secs (60 Secs) *[==>]*	***[4]***
	20	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 19-24 Non-Int in And15-V2 (08) Prime + Parallel Group 19-20 in Sequence 19-24 Non-Int in And15-V2 (08)	60 Secs (60 Secs) *[==>]*	***[4]***
	21	(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.5091,0.6695	Sequence 19-24 Non-Int in And15-V2 (08) Prime + Parallel Group 21-22 in Sequence 19-24 Non-Int in And15-V2 (08)	1045 Secs (1045 Secs) *[==>]*	***[4]***
	22	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 19-24 Non-Int in And15-V2 (08) Prime + Parallel Group 21-22 in Sequence 19-24 Non-Int in And15-V2 (08)	1030 Secs (1030 Secs) *[==>]*	***[4]***
	23	(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.7320,0.7852	Sequence 19-24 Non-Int in And15-V2 (08) Prime + Parallel Group 23-24 in Sequence 19-24 Non-Int in And15-V2 (08)	1045 Secs (1045 Secs) *[==>]*	***[4]***
	24	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 19-24 Non-Int in And15-V2 (08) Prime + Parallel Group 23-24 in Sequence 19-24 Non-Int in And15-V2 (08)	1030 Secs (1030 Secs) *[==>]*	***[4]***

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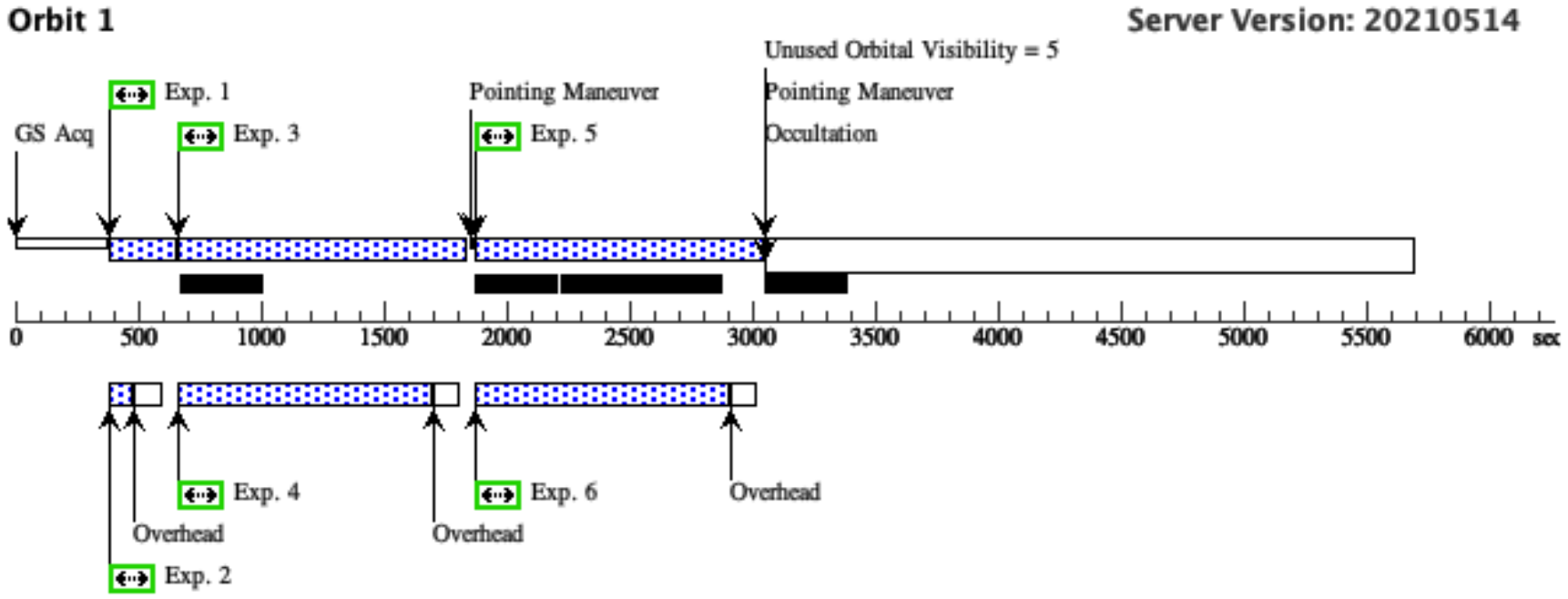

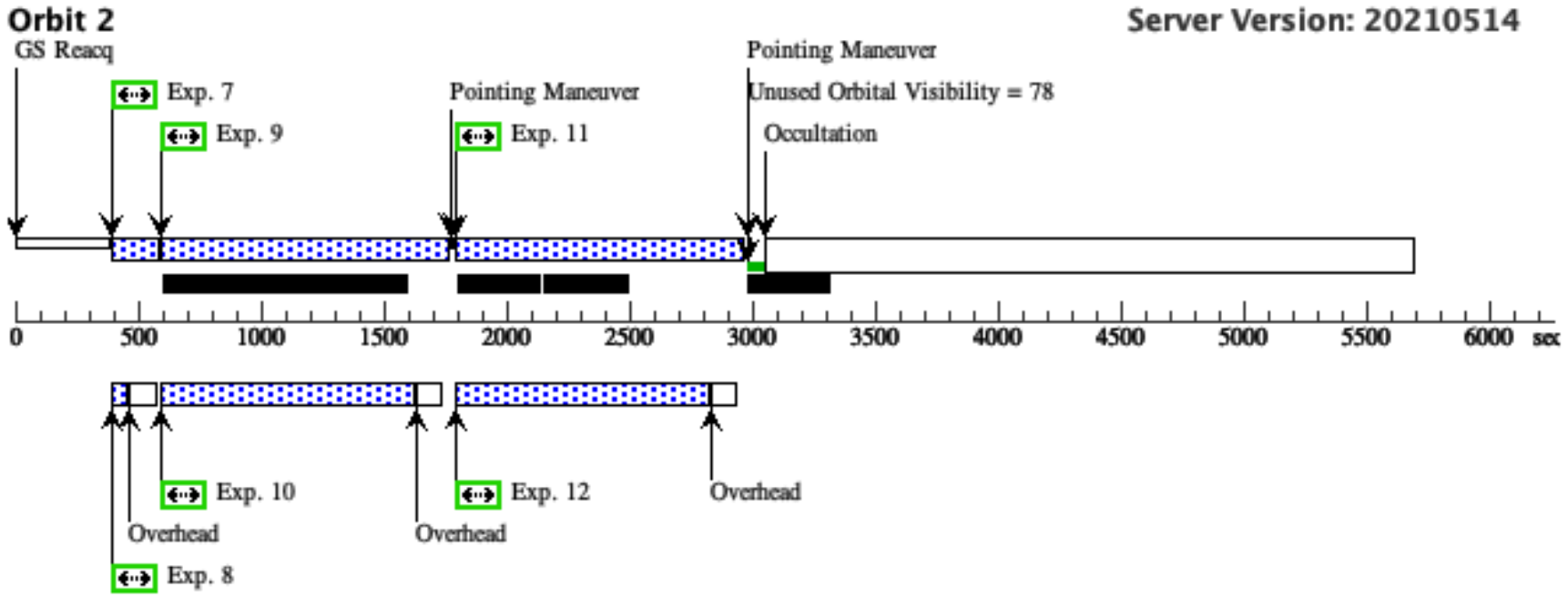
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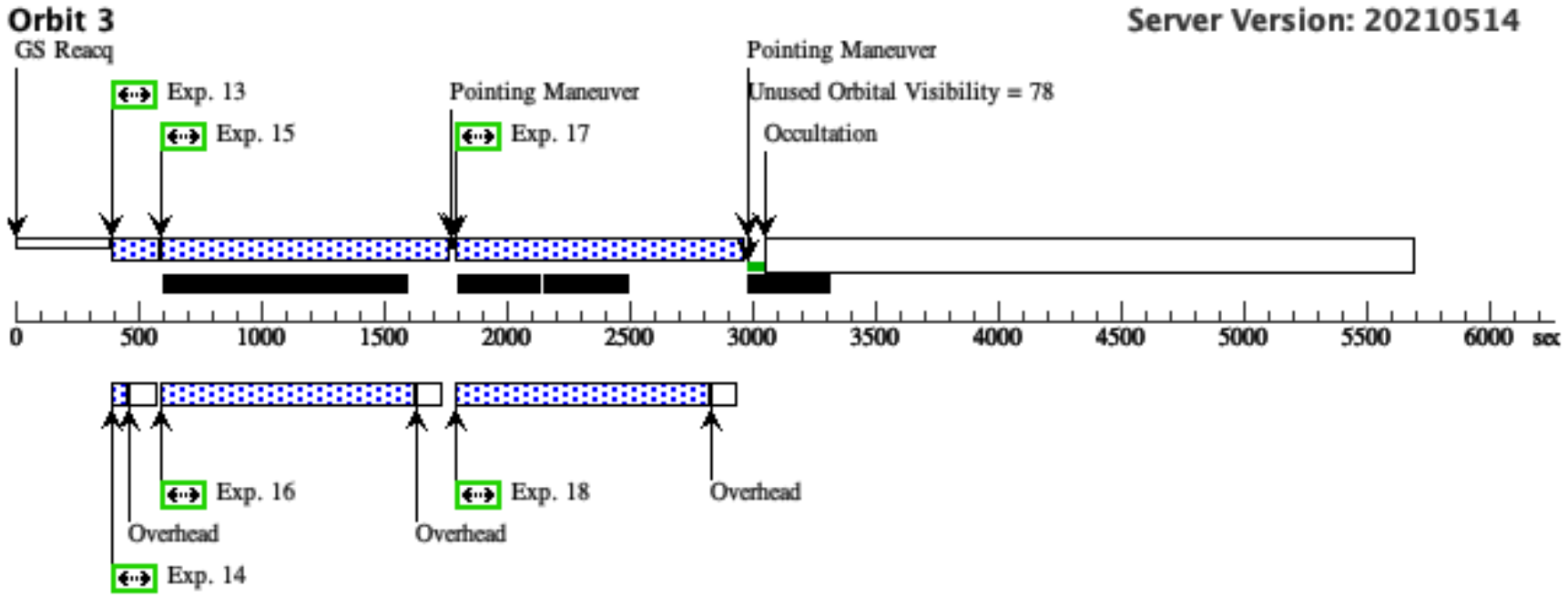
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Exp. 17
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Exp. 16
Overhead
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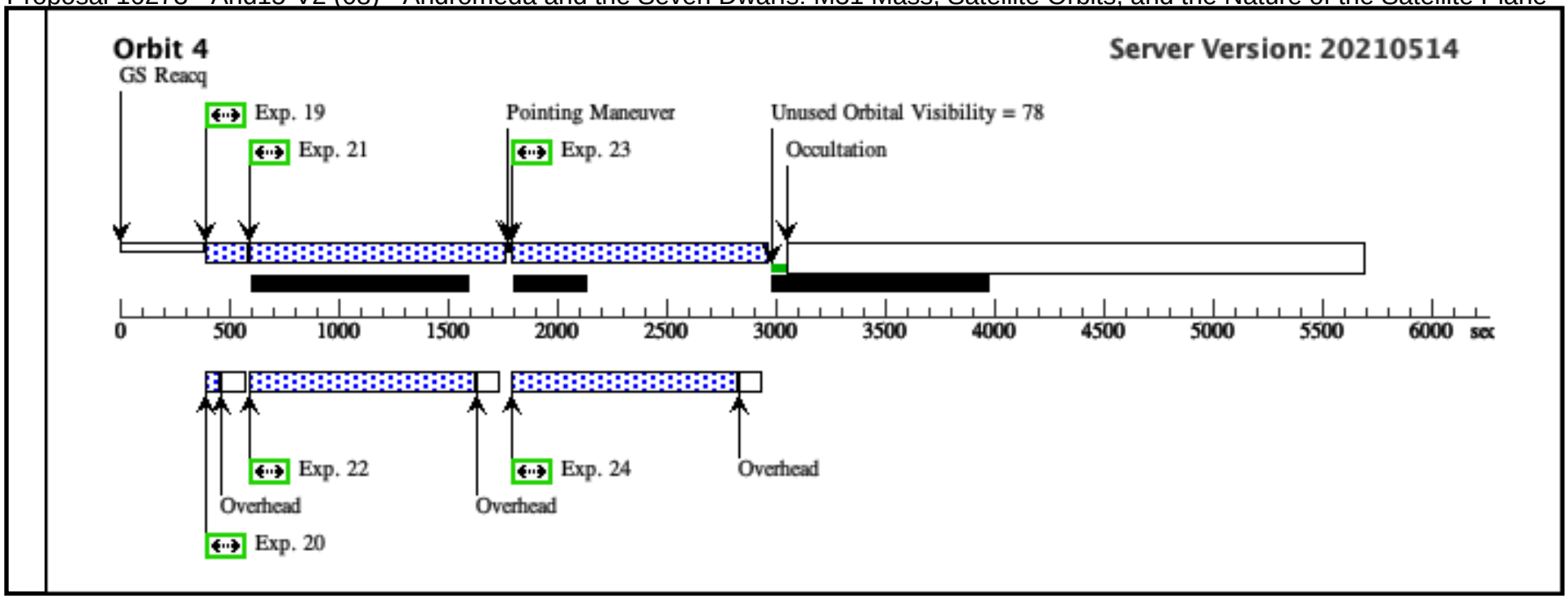
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sec
Exp. 22
Overhead
Exp. 20
Overhead
Exp. 24
Overhead

Visit

Proposal 16273, And16 (09), scheduling Sat Nov 13 00:01:14 GMT 2021

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: ORIENT 100.0D TO 100.0 D; AFTER 01-JAN-2021:00:00:00

Comments: This is the visit for obtaining second-epoch images of Andromeda XVI. This visit spends 3 orbits in total with ACS/WFC being the primary and the WFC3/UVIS being the parallel instruments. For proper motion measuring purpose, we required to match our telescope orientations to the first-epoch observations for both the primary and parallel fields. We have accordingly added the Visit Orientation Requirements. Our science requires that the time baseline between the previous first- and this cycle's second-epoch is at least 8 years apart (this is specified in the Phase 1 proposal). We therefore added a Timing Requirement of "AFTER 01-JAN-2021:00:00:00".

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	ANDROMEDA-XVI	RA: 00 59 32.4165 (14.8850687d) Dec: +32 23 37.86 (32.39385d) Equinox: J2000	Epoch of Position: 2015.5	V=14.4	Reference Frame: SIMBAD

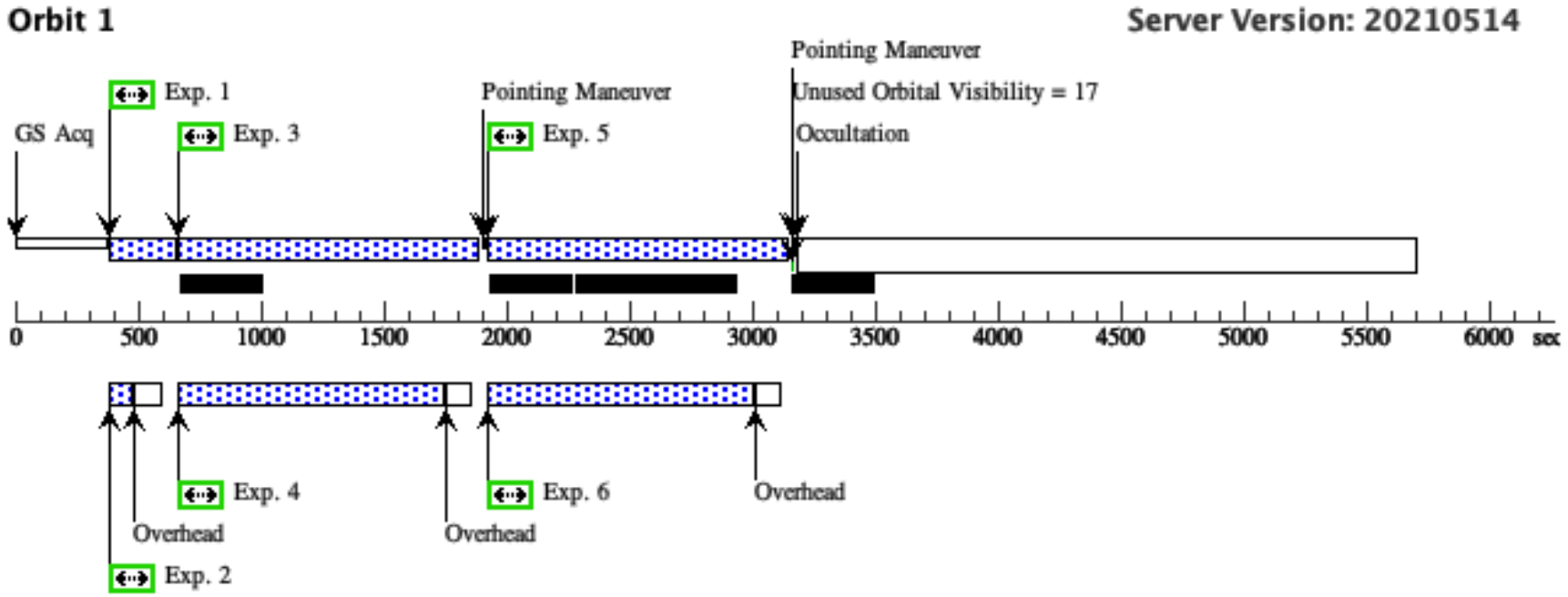
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[DWARF SPHEROIDAL]

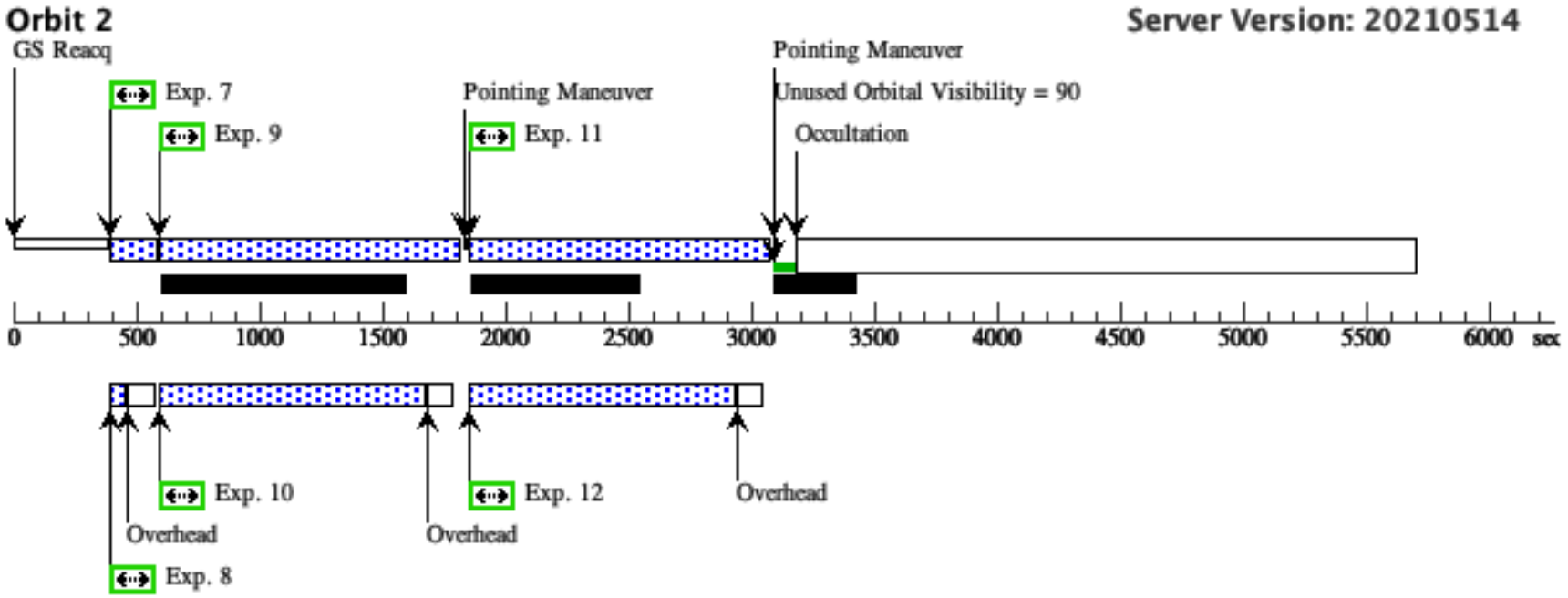
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(5) ANDROMEDA-XVI	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0000,0.0000	Sequence 1-6 Non-Int in And16 (09) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And16 (09)	60 Secs (60 Secs) *[==>]*	***[1]***
2		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 1-6 Non-Int in And16 (09) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And16 (09)	60 Secs (60 Secs) *[==>]*	***[1]***
3		(5) ANDROMEDA-XVI	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0000,0.0000	Sequence 1-6 Non-Int in And16 (09) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And16 (09)	1100 Secs (1100 Secs) *[==>]*	***[1]***
4		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And16 (09) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And16 (09)	1080 Secs (1080 Secs) *[==>]*	***[1]***
5		(5) ANDROMEDA-XVI	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.1647,0.0124	Sequence 1-6 Non-Int in And16 (09) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And16 (09)	1100 Secs (1100 Secs) *[==>]*	***[1]***
6		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And16 (09) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And16 (09)	1080 Secs (1080 Secs) *[==>]*	***[1]***
7		(5) ANDROMEDA-XVI	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.3293,0.0248	Sequence 7-12 Non-Int in And16 (09) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And16 (09)	60 Secs (60 Secs) *[==>]*	***[2]***
8		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 7-12 Non-Int in And16 (09) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And16 (09)	60 Secs (60 Secs) *[==>]*	***[2]***
9		(5) ANDROMEDA-XVI	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.3293,0.0248	Sequence 7-12 Non-Int in And16 (09) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And 16 (09)	1100 Secs (1100 Secs) *[==>]*	***[2]***

	10	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And16 (09) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And16 (09)	1080 Secs (1080 Secs) *[==>]*	***[2]***
	11	(5) ANDROMEDA-XVI	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0747,0.1294	Sequence 7-12 Non-Int in And16 (09) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And16 (09)	1100 Secs (1100 Secs) *[==>]*	***[2]***
	12	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And16 (09) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And16 (09)	1080 Secs (1080 Secs) *[==>]*	***[2]***
	13	(5) ANDROMEDA-XVI	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.2393,0.1418	Sequence 13-18 Non-Int in And16 (09) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And16 (09)	60 Secs (60 Secs) *[==>]*	***[3]***
	14	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 13-18 Non-Int in And16 (09) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And16 (09)	60 Secs (60 Secs) *[==>]*	***[3]***
	15	(5) ANDROMEDA-XVI	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.2393,0.1418	Sequence 13-18 Non-Int in And16 (09) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And16 (09)	1100 Secs (1100 Secs) *[==>]*	***[3]***
	16	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 13-18 Non-Int in And16 (09) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And16 (09)	1080 Secs (1080 Secs) *[==>]*	***[3]***
	17	(5) ANDROMEDA-XVI	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.4039,0.1541	Sequence 13-18 Non-Int in And16 (09) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And16 (09)	1100 Secs (1100 Secs) *[==>]*	***[3]***
	18	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 13-18 Non-Int in And16 (09) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And16 (09)	1080 Secs (1080 Secs) *[==>]*	***[3]***

Orbit Structure

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Pointing Maneuver
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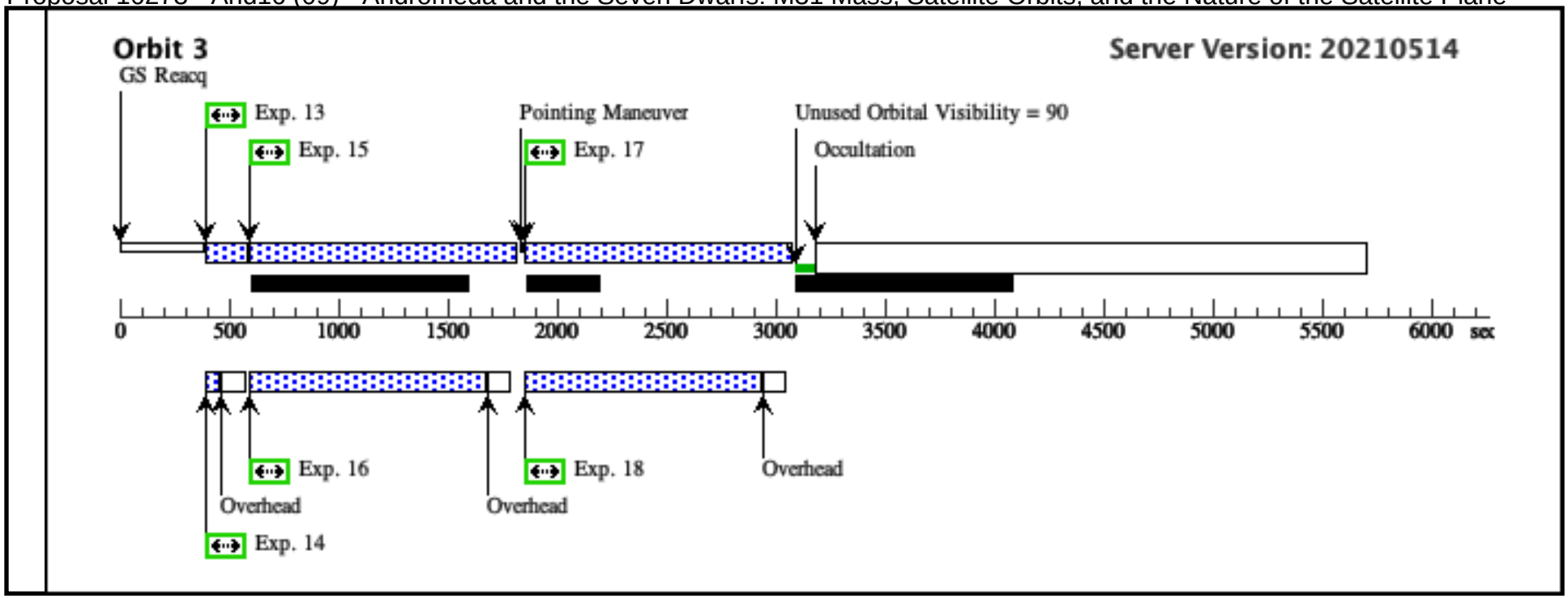
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Exp. 14
Overhead
Exp. 18
Overhead

Visit

Proposal 16273, And28-V1 (10), completed Sat Nov 13 00:01:15 GMT 2021

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: ORIENT 39.3D TO 39.3 D; GROUP 10,11,12 WITHIN 15D

Comments: This is the first out of two visits for obtaining second-epoch images of Andromeda XVIII. This visit spends 4 orbits in total with ACS/WFC being the primary and the WFC3/UVIS being the parallel instruments. For proper motion measuring purpose, we required to match our telescope orientations to the first-epoch observations for both the primary and parallel fields. We have accordingly added the Visit Orientation Requirements. We have grouped Visits 10, 11, and 12 and specified these visits to be observed within a 15 day period so that all images can be treated as a single-epoch data for astrometric analyses.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	ANDROMEDA-XXVIII	RA: 22 32 41.3374 (338.1722392d) Dec: +31 12 58.48 (31.21624d) Equinox: J2000	Epoch of Position: 2015.5	V=15.6	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[DWARF SPHEROIDAL]

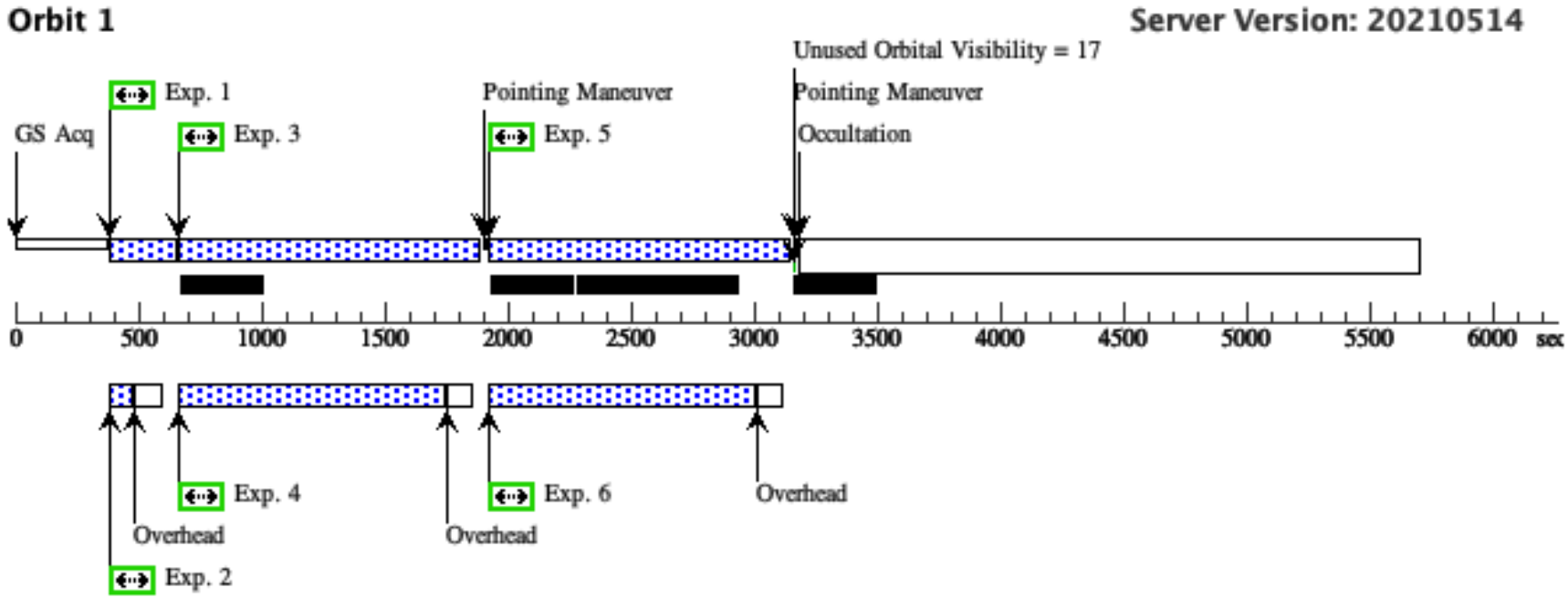
Exposures

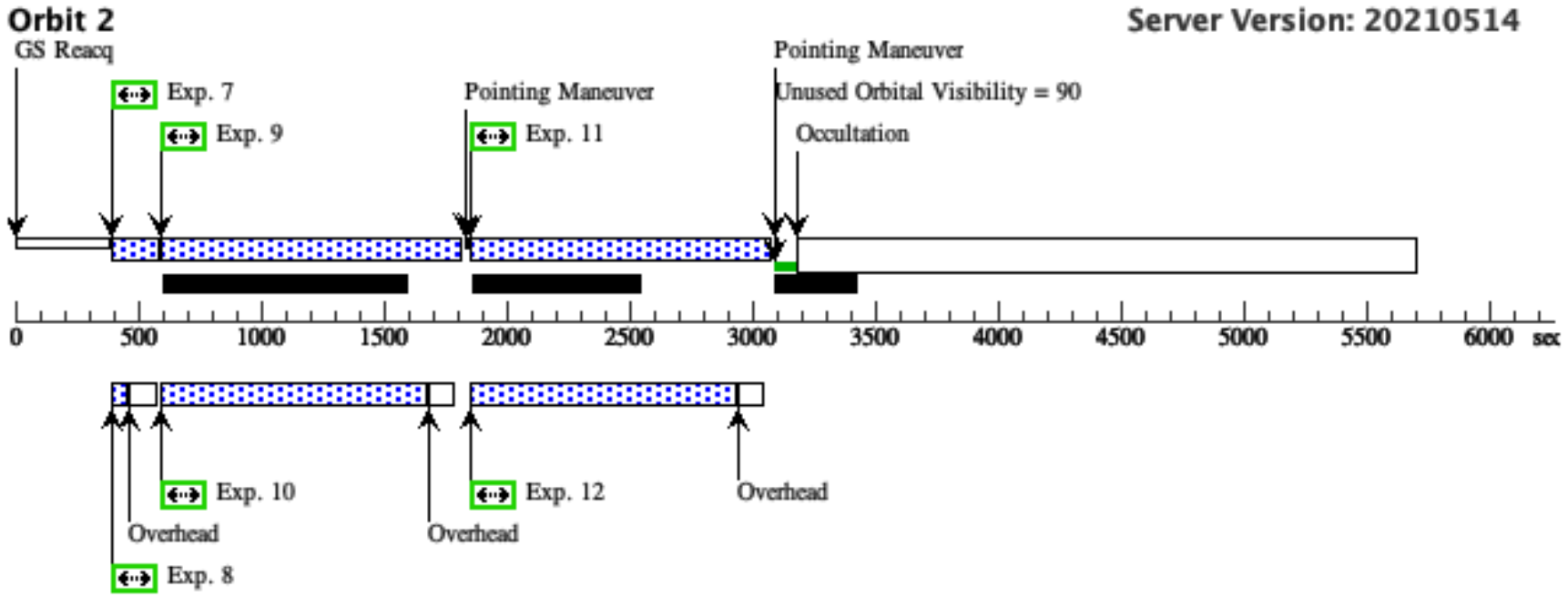
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0000,0.0000	Sequence 1-6 Non-Int in And28-V1 (10) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And28-V1 (10)	60 Secs (60 Secs) *[==>]*	***[1]***
2		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 1-6 Non-Int in And28-V1 (10) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And28-V1 (10)	60 Secs (60 Secs) *[==>]*	***[1]***
3		(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0000,0.0000	Sequence 1-6 Non-Int in And28-V1 (10) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And28-V1 (10)	1100 Secs (1100 Secs) *[==>]*	***[1]***
4		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And28-V1 (10) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And28-V1 (10)	1080 Secs (1080 Secs) *[==>]*	***[1]***
5		(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.1740,0.2350	Sequence 1-6 Non-Int in And28-V1 (10) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And28-V1 (10)	1100 Secs (1100 Secs) *[==>]*	***[1]***
6		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And28-V1 (10) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And28-V1 (10)	1080 Secs (1080 Secs) *[==>]*	***[1]***
7		(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.3232,0.1235	Sequence 7-12 Non-Int in And28-V1 (10) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And28-V1 (10)	60 Secs (60 Secs) *[==>]*	***[2]***
8		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 7-12 Non-Int in And28-V1 (10) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And28-V1 (10)	60 Secs (60 Secs) *[==>]*	***[2]***
9		(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.3232,0.1235	Sequence 7-12 Non-Int in And28-V1 (10) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And28-V1 (10)	1100 Secs (1100 Secs) *[==>]*	***[2]***

	10	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And28-V1 (10) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And28-V1 (10)	1080 Secs (1080 Secs) *[==>]*	***[2]***
	11	(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.1005,0.3305	Sequence 7-12 Non-Int in And28-V1 (10) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And28-V1 (10)	1100 Secs (1100 Secs) *[==>]*	***[2]***
	12	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And28-V1 (10) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And28-V1 (10)	1080 Secs (1080 Secs) *[==>]*	***[2]***
	13	(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.5075,0.0505	Sequence 13-18 Non-Int in And28-V1 (10) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And28-V1 (10)	60 Secs (60 Secs) *[==>]*	***[3]***
	14	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 13-18 Non-Int in And28-V1 (10) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And28-V1 (10)	60 Secs (60 Secs) *[==>]*	***[3]***
	15	(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.5075,0.0505	Sequence 13-18 Non-Int in And28-V1 (10) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And28-V1 (10)	1100 Secs (1100 Secs) *[==>]*	***[3]***
	16	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 13-18 Non-Int in And28-V1 (10) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And28-V1 (10)	1080 Secs (1080 Secs) *[==>]*	***[3]***
	17	(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.6815,0.2855	Sequence 13-18 Non-Int in And28-V1 (10) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And28-V1 (10)	1100 Secs (1100 Secs) *[==>]*	***[3]***

	18	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 13-18 Non-Int in And28-V1 (10) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And28-V1 (10)	1080 Secs (1080 Secs) *[==>]*	***[3]***
	19	(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.8300,0.1735	Sequence 19-24 Non-Int in And28-V1 (10) Prime + Parallel Group 19-20 in Sequence 19-24 Non-Int in And28-V1 (10)	60 Secs (60 Secs) *[==>]*	***[4]***
	20	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 19-24 Non-Int in And28-V1 (10) Prime + Parallel Group 19-20 in Sequence 19-24 Non-Int in And28-V1 (10)	60 Secs (60 Secs) *[==>]*	***[4]***
	21	(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.8300,0.1735	Sequence 19-24 Non-Int in And28-V1 (10) Prime + Parallel Group 21-22 in Sequence 19-24 Non-Int in And28-V1 (10)	1100 Secs (1100 Secs) *[==>]*	***[4]***
	22	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 19-24 Non-Int in And28-V1 (10) Prime + Parallel Group 21-22 in Sequence 19-24 Non-Int in And28-V1 (10)	1080 Secs (1080 Secs) *[==>]*	***[4]***
	23	(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.6080,0.3810	Sequence 19-24 Non-Int in And28-V1 (10) Prime + Parallel Group 23-24 in Sequence 19-24 Non-Int in And28-V1 (10)	1100 Secs (1100 Secs) *[==>]*	***[4]***
	24	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 19-24 Non-Int in And28-V1 (10) Prime + Parallel Group 23-24 in Sequence 19-24 Non-Int in And28-V1 (10)	1080 Secs (1080 Secs) *[==>]*	***[4]***

Orbit Structure

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Exp. 7
Exp. 9
Pointing Maneuver
Exp. 11
Pointing Maneuver
Unused Orbital Visibility = 90
Occultation
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500
1000
1500
2000
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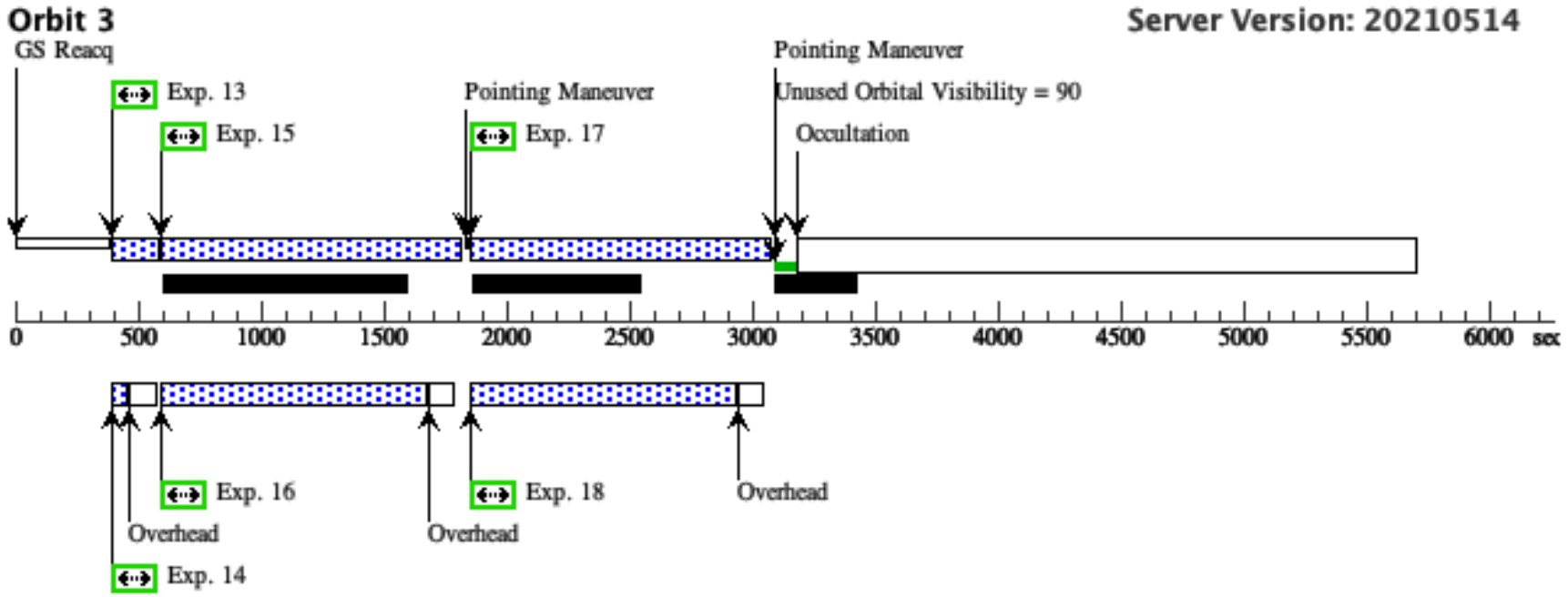
3500
4000
4500
5000
5500
6000
sec
Exp. 10
Overhead
Exp. 8
Overhead
Exp. 12
Overhead


Orbit 3
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Exp. 13
Exp. 15
Pointing Maneuver
Exp. 17
Pointing Maneuver
Unused Orbital Visibility = 90
Occultation
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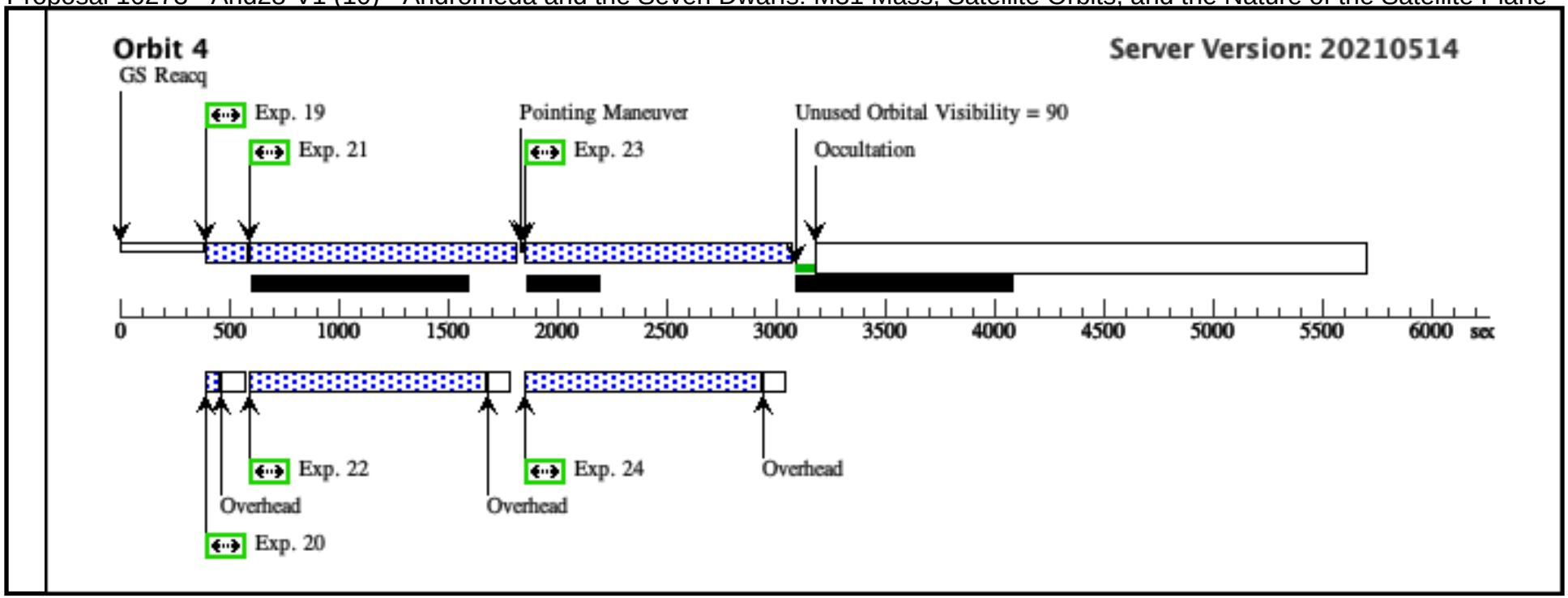
sec
Exp. 16
Overhead
Exp. 14
Overhead
Exp. 18
Overhead


Orbit 4
Server Version: 20210514
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Exp. 21
Pointing Maneuver
Exp. 23
Unused Orbital Visibility = 90
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3500
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4500
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5500
6000
sec
Exp. 22
Exp. 24
Overhead
Overhead
Overhead
Exp. 20

Visit

Proposal 16273, And28-V2 (11), completed Sat Nov 13 00:01:15 GMT 2021

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: SAME ORIENT AS 10; AFTER 10; GROUP 11,10,12 WITHIN 15D

Comments: This is the second out of two visits for obtaining second-epoch images of Andromeda V. This visit spends 3 orbits in total with ACS/WFC being the primary and the WFC3/UVIS being the parallel instruments.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	ANDROMEDA-XXVIII	RA: 22 32 41.3374 (338.1722392d) Dec: +31 12 58.48 (31.21624d) Equinox: J2000	Epoch of Position: 2015.5	V=15.6	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[DWARF SPHEROIDAL]

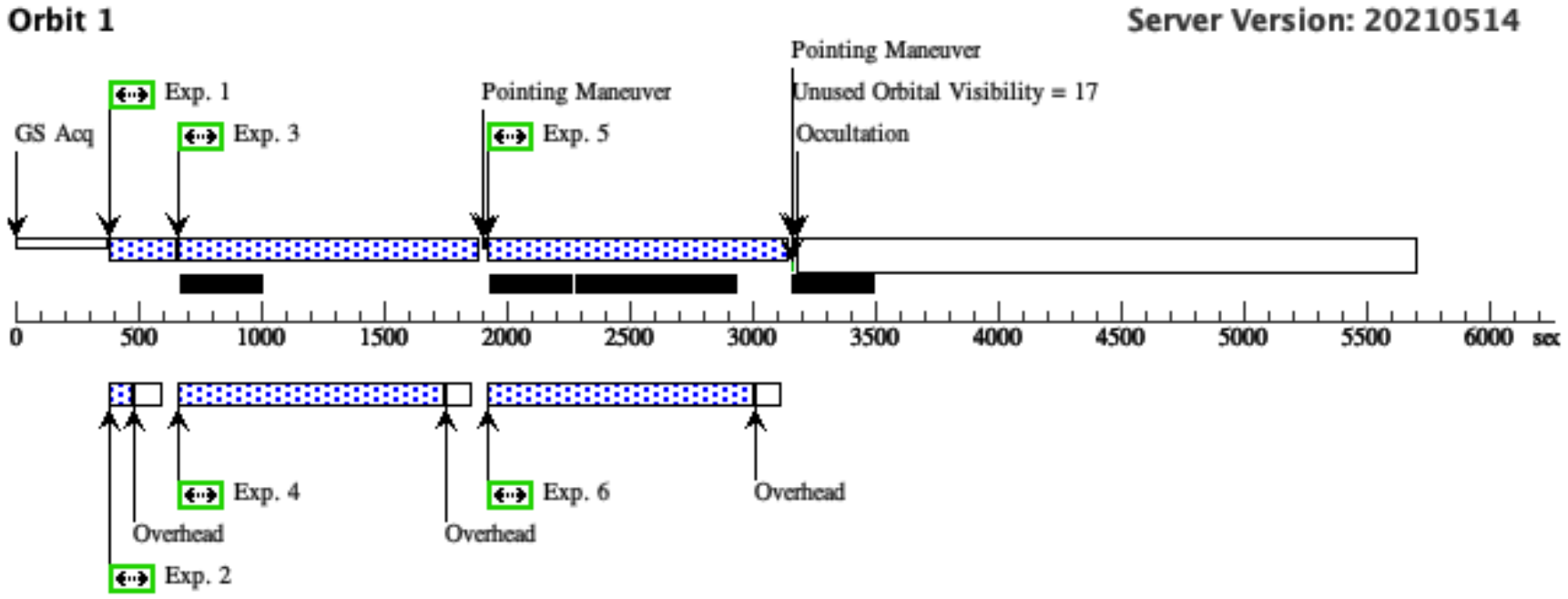
Exposures

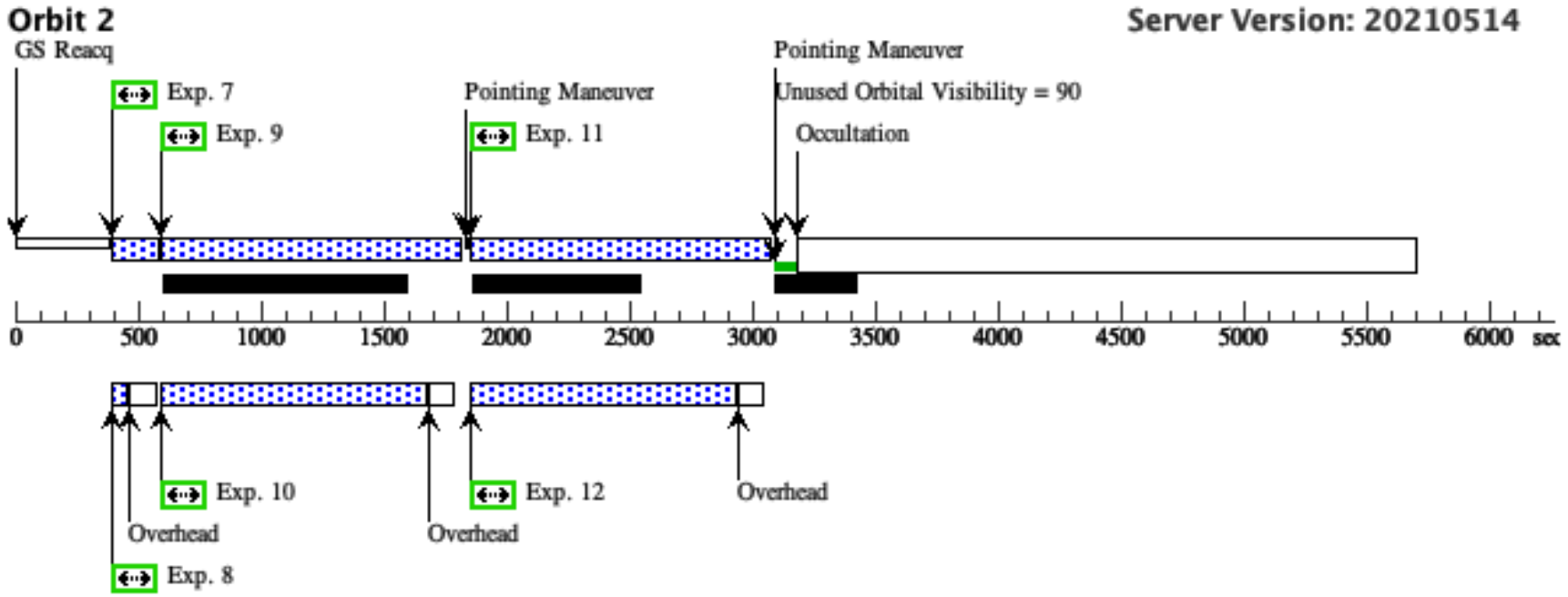
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.0000,0.0000	Sequence 1-6 Non-Int in And28-V2 (11) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And28-V2 (11)	60 Secs (60 Secs) *[==>]*	***[1]***
2		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 1-6 Non-Int in And28-V2 (11) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And28-V2 (11)	60 Secs (60 Secs) *[==>]*	***[1]***
3		(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.0000,0.0000	Sequence 1-6 Non-Int in And28-V2 (11) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And28-V2 (11)	1100 Secs (1100 Secs) *[==>]*	***[1]***
4		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And28-V2 (11) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And28-V2 (11)	1080 Secs (1080 Secs) *[==>]*	***[1]***
5		(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.1647,0.0124	Sequence 1-6 Non-Int in And28-V2 (11) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And28-V2 (11)	1100 Secs (1100 Secs) *[==>]*	***[1]***
6		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And28-V2 (11) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And28-V2 (11)	1080 Secs (1080 Secs) *[==>]*	***[1]***
7		(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.3293,0.0248	Sequence 7-12 Non-Int in And28-V2 (11) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And28-V2 (11)	60 Secs (60 Secs) *[==>]*	***[2]***
8		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 7-12 Non-Int in And28-V2 (11) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And28-V2 (11)	60 Secs (60 Secs) *[==>]*	***[2]***
9		(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.3293,0.0248	Sequence 7-12 Non-Int in And28-V2 (11) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And28-V2 (11)	1100 Secs (1100 Secs) *[==>]*	***[2]***

10	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And28-V2 (11) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And28-V2 (11)	1080 Secs (1080 Secs) *[==>]*	***[2]***
11	(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.0747,0.1294	Sequence 7-12 Non-Int in And28-V2 (11) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And28-V2 (11)	1100 Secs (1100 Secs) *[==>]*	***[2]***
12	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And28-V2 (11) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And28-V2 (11)	1080 Secs (1080 Secs) *[==>]*	***[2]***
13	(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.2393,0.1418	Sequence 13-18 Non-Int in And28-V2 (11) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And28-V2 (11)	60 Secs (60 Secs) *[==>]*	***[3]***
14	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 13-18 Non-Int in And28-V2 (11) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And28-V2 (11)	60 Secs (60 Secs) *[==>]*	***[3]***
15	(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.2393,0.1418	Sequence 13-18 Non-Int in And28-V2 (11) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And28-V2 (11)	1100 Secs (1100 Secs) *[==>]*	***[3]***
16	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 13-18 Non-Int in And28-V2 (11) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And28-V2 (11)	1080 Secs (1080 Secs) *[==>]*	***[3]***
17	(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 1.4039,0.1541	Sequence 13-18 Non-Int in And28-V2 (11) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And28-V2 (11)	1100 Secs (1100 Secs) *[==>]*	***[3]***

	18	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	Sequence 13-18 Non-Int in And28-V2 (11) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And28-V2 (11)	1080 Secs (1080 Secs) *[==>]*	***[3]***

Orbit Structure




Orbit 2
Server Version: 20210514
GS Reacq
Exp. 7
Exp. 9
Pointing Maneuver
Exp. 11
Pointing Maneuver
Unused Orbital Visibility = 90
Occultation
0
500
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sec
Exp. 10
Overhead
Exp. 8
Overhead
Exp. 12
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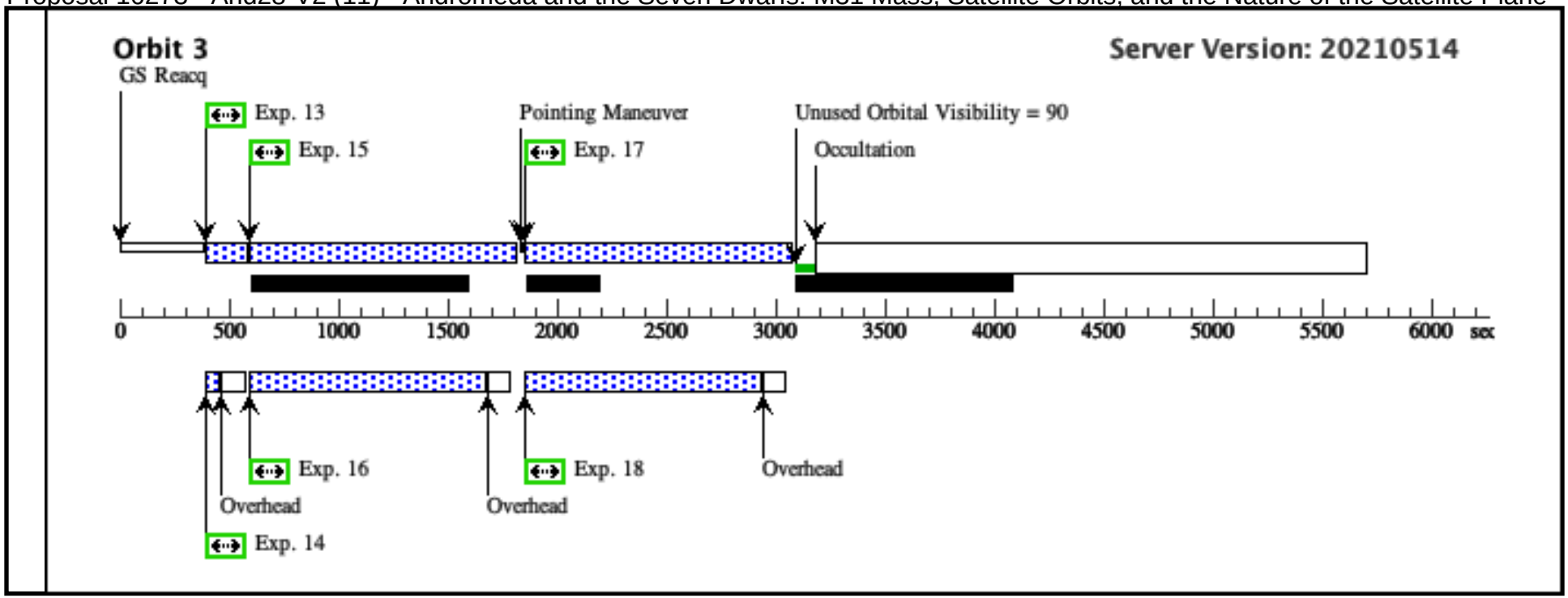
Orbit 3
Server Version: 20210514
GS Reacq
Exp. 13
Exp. 15
Pointing Maneuver
Exp. 17
Unused Orbital Visibility = 90
Occultation
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1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec
Exp. 16
Overhead
Exp. 14
Overhead
Exp. 18
Overhead

Visit

Proposal 16273, And28-V3 (12), completed Sat Nov 13 00:01:15 GMT 2021

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: SAME ORIENT AS 10; AFTER 11; GROUP 12,10,11 WITHIN 15D

Comments: This is the second out of two visits for obtaining second-epoch images of Andromeda V. This visit spends 3 orbits in total with ACS/WFC being the primary and the WFC3/UVIS being the parallel instruments.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	ANDROMEDA-XXVIII	RA: 22 32 41.3374 (338.1722392d) Dec: +31 12 58.48 (31.21624d) Equinox: J2000	Epoch of Position: 2015.5	V=15.6	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[DWARF SPHEROIDAL]

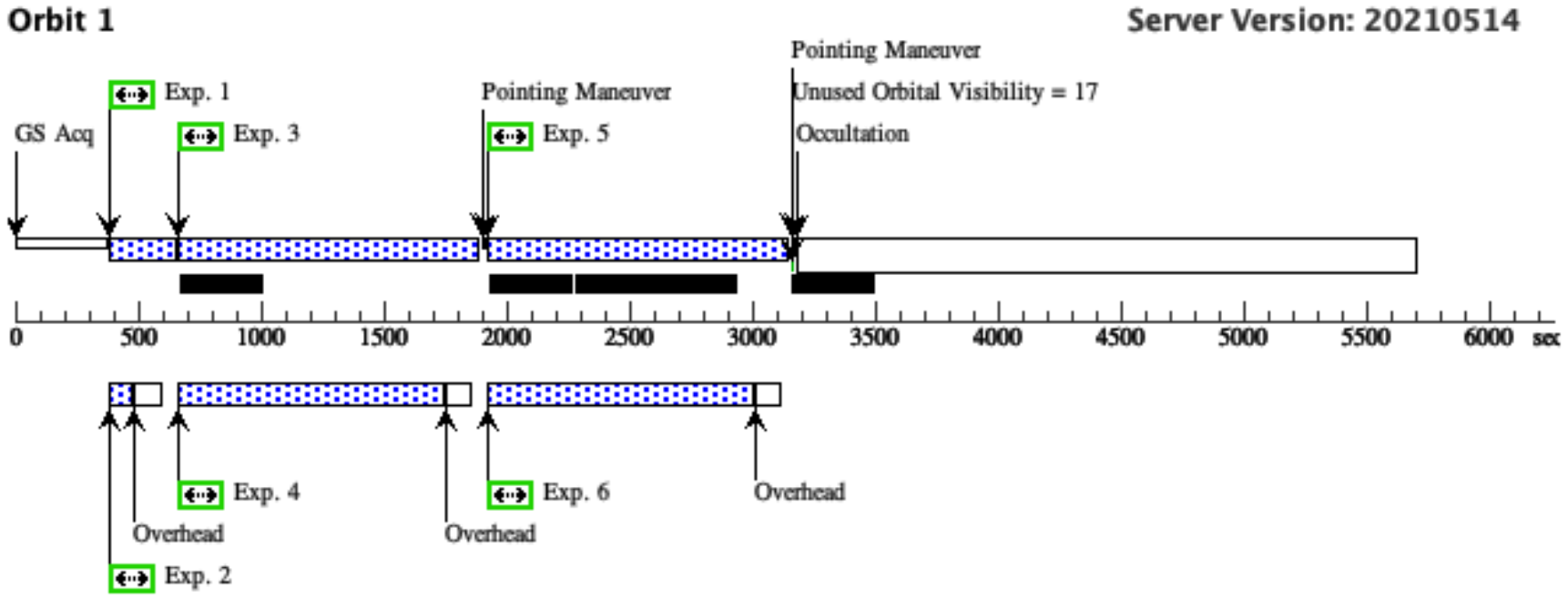
Exposures

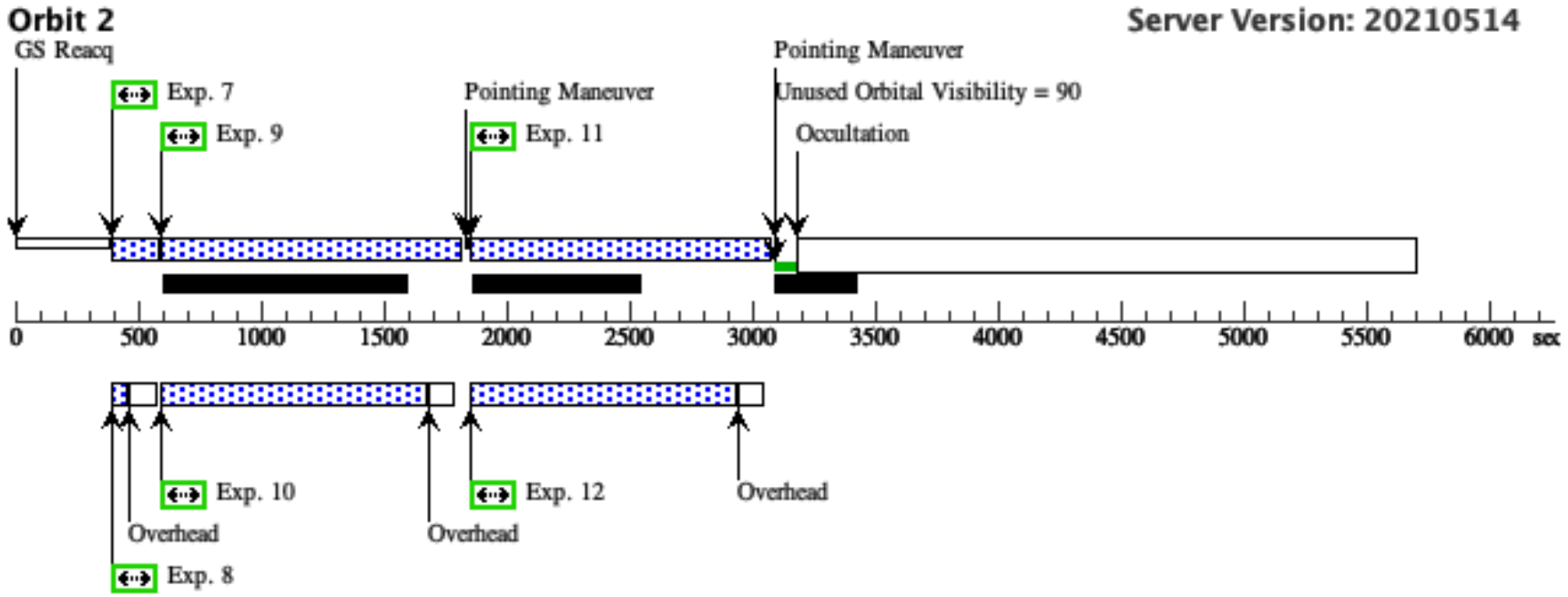
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0000,1.0000	Sequence 1-6 Non-Int in And28-V3 (12) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And28-V3 (12)	60 Secs (60 Secs) *[==>]*	***[1]***
2		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 1-6 Non-Int in And28-V3 (12) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And28-V3 (12)	60 Secs (60 Secs) *[==>]*	***[1]***
3		(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0000,1.0000	Sequence 1-6 Non-Int in And28-V3 (12) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And28-V3 (12)	1100 Secs (1100 Secs) *[==>]*	***[1]***
4		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And28-V3 (12) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And28-V3 (12)	1080 Secs (1080 Secs) *[==>]*	***[1]***
5		(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.1647,1.0124	Sequence 1-6 Non-Int in And28-V3 (12) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And28-V3 (12)	1100 Secs (1100 Secs) *[==>]*	***[1]***
6		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And28-V3 (12) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And28-V3 (12)	1080 Secs (1080 Secs) *[==>]*	***[1]***
7		(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.3293,1.0248	Sequence 7-12 Non-Int in And28-V3 (12) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And28-V3 (12)	60 Secs (60 Secs) *[==>]*	***[2]***
8		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 7-12 Non-Int in And28-V3 (12) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And28-V3 (12)	60 Secs (60 Secs) *[==>]*	***[2]***
9		(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.3293,1.0248	Sequence 7-12 Non-Int in And28-V3 (12) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And28-V3 (12)	1100 Secs (1100 Secs) *[==>]*	***[2]***

	10	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And28-V3 (12) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And28-V3 (12)	1080 Secs (1080 Secs) *[==>]*	***[2]***
	11	(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0747,1.1294	Sequence 7-12 Non-Int in And28-V3 (12) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And28-V3 (12)	1100 Secs (1100 Secs) *[==>]*	***[2]***
	12	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And28-V3 (12) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And28-V3 (12)	1080 Secs (1080 Secs) *[==>]*	***[2]***
	13	(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.2393,1.1418	Sequence 13-18 Non-Int in And28-V3 (12) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And28-V3 (12)	60 Secs (60 Secs) *[==>]*	***[3]***
	14	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 13-18 Non-Int in And28-V3 (12) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And28-V3 (12)	60 Secs (60 Secs) *[==>]*	***[3]***
	15	(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.2393,1.1418	Sequence 13-18 Non-Int in And28-V3 (12) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And28-V3 (12)	1100 Secs (1100 Secs) *[==>]*	***[3]***
	16	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 13-18 Non-Int in And28-V3 (12) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And28-V3 (12)	1080 Secs (1080 Secs) *[==>]*	***[3]***
	17	(6) ANDROMEDA-XXVIII	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.4039,1.1541	Sequence 13-18 Non-Int in And28-V3 (12) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And28-V3 (12)	1100 Secs (1100 Secs) *[==>]*	***[3]***

	18	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	Sequence 13-18 Non-Int in And28-V3 (12) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And28-V3 (12)	1080 Secs (1080 Secs) *[==>]*	***[3]***

Orbit Structure

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Exp. 9
Pointing Maneuver
Exp. 11
Pointing Maneuver
Unused Orbital Visibility = 90
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500
1000
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4500
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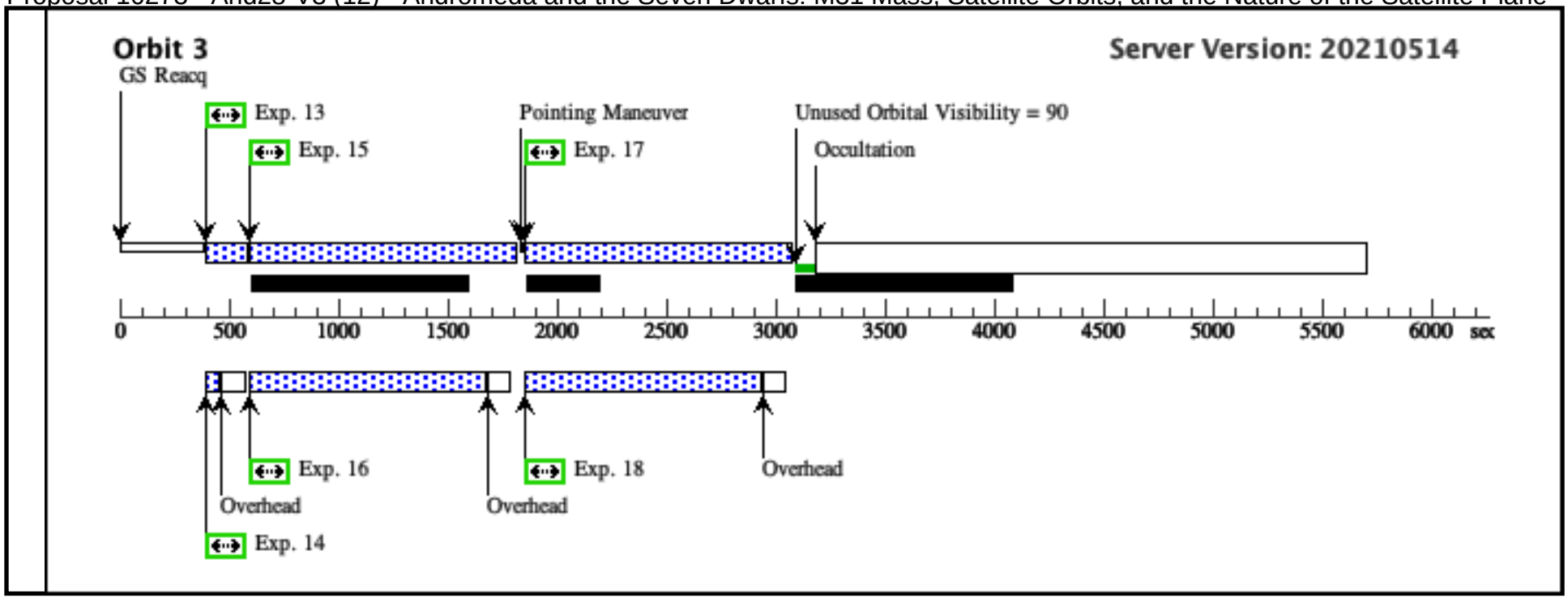
5500
6000
sec
Exp. 10
Overhead
Exp. 8
Overhead
Exp. 12
Overhead


Orbit 3
Server Version: 20210514
GS Reacq
Exp. 13
Exp. 15
Pointing Maneuver
Exp. 17
Unused Orbital Visibility = 90
Occultation
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500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec
Exp. 16
Overhead
Exp. 14
Overhead
Exp. 18
Overhead

Visit

Proposal 16273, And7-V1 (13), scheduling Sat Nov 13 00:01:15 GMT 2021

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: ORIENT 251.7D TO 251.7 D; GROUP 13,14 WITHIN 15D

Comments: This is the first out of two visits for obtaining second-epoch images of Andromeda VII. This visit spends 3 orbits in total with ACS/WFC being the primary and the WFC3/UVIS being the parallel instruments. For proper motion measuring purpose, we required to match our telescope orientations to the first-epoch observations for both the primary and parallel fields. We have accordingly added the Visit Orientation Requirements. We have grouped Visits 13 and 14 and specified these visits to be observed within a 15 day period so that all images can be treated as a single-epoch data for astrometric analyses.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	ANDROMEDA-VII	RA: 23 26 30.8178 (351.6284075d) Dec: +50 41 33.25 (50.69257d) Equinox: J2000	Epoch of Position: 2015.5	V=11.8	Reference Frame: SIMBAD

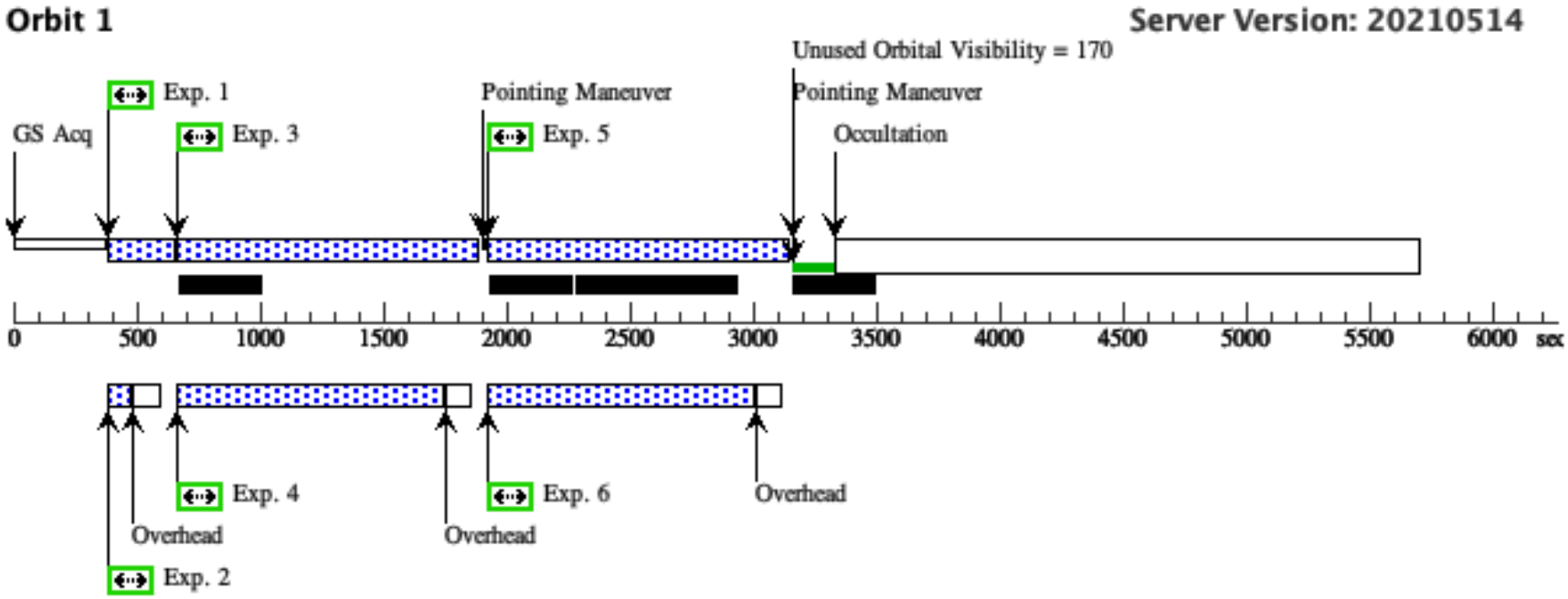
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[DWARF SPHEROIDAL]

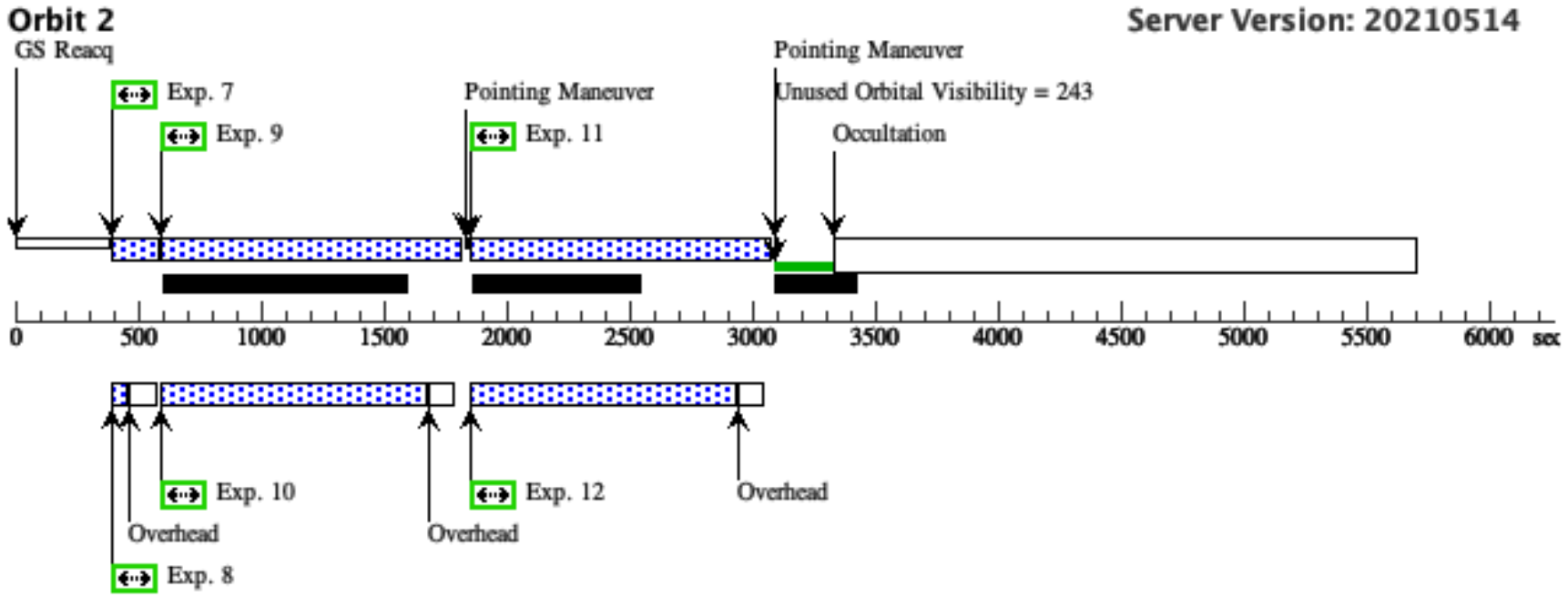
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(7) ANDROMEDA-VII	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.0000,0.0000	Sequence 1-6 Non-Int in And7-V1 (13) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And7-V1 (13)	60 Secs (60 Secs) *[==>]*	***[1]***
2		ANY	WFC3/UVIS, ACCUM, UVIS	F606W	FLASH=19.0		Sequence 1-6 Non-Int in And7-V1 (13) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And7-V1 (13)	60 Secs (60 Secs) *[==>]*	***[1]***
3		(7) ANDROMEDA-VII	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.0000,0.0000	Sequence 1-6 Non-Int in And7-V1 (13) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And7-V1 (13)	1100 Secs (1100 Secs) *[==>]*	***[1]***
4		ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Sequence 1-6 Non-Int in And7-V1 (13) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And7-V1 (13)	1080 Secs (1080 Secs) *[==>]*	***[1]***
5		(7) ANDROMEDA-VII	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.1740,0.1850	Sequence 1-6 Non-Int in And7-V1 (13) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And7-V1 (13)	1100 Secs (1100 Secs) *[==>]*	***[1]***
6		ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Sequence 1-6 Non-Int in And7-V1 (13) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And7-V1 (13)	1080 Secs (1080 Secs) *[==>]*	***[1]***
7		(7) ANDROMEDA-VII	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.3232,0.1235	Sequence 7-12 Non-Int in And7-V1 (13) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And7-V1 (13)	60 Secs (60 Secs) *[==>]*	***[2]***
8		ANY	WFC3/UVIS, ACCUM, UVIS	F606W	FLASH=19.0		Sequence 7-12 Non-Int in And7-V1 (13) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And7-V1 (13)	60 Secs (60 Secs) *[==>]*	***[2]***
9		(7) ANDROMEDA-VII	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.3232,0.1235	Sequence 7-12 Non-Int in And7-V1 (13) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And 7-V1 (13)	1100 Secs (1100 Secs) *[==>]*	***[2]***

	10	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Sequence 7-12 Non-Int in And7-V1 (13) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And7-V1 (13)	1080 Secs (1080 Secs) *[==>]*	***[2]***
	11	(7) ANDROMEDA-VII	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.1005,0.3305	Sequence 7-12 Non-Int in And7-V1 (13) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And7-V1 (13)	1100 Secs (1100 Secs) *[==>]*	***[2]***
	12	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Sequence 7-12 Non-Int in And7-V1 (13) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And7-V1 (13)	1080 Secs (1080 Secs) *[==>]*	***[2]***
	13	(7) ANDROMEDA-VII	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.5030,0.0460	Sequence 13-18 Non-Int in And7-V1 (13) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And7-V1 (13)	60 Secs (60 Secs) *[==>]*	***[3]***
	14	ANY	WFC3/UVIS, ACCUM, UVIS	F606W	FLASH=19.0		Sequence 13-18 Non-Int in And7-V1 (13) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And7-V1 (13)	60 Secs (60 Secs) *[==>]*	***[3]***
	15	(7) ANDROMEDA-VII	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.5030,0.0460	Sequence 13-18 Non-Int in And7-V1 (13) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And7-V1 (13)	1100 Secs (1100 Secs) *[==>]*	***[3]***
	16	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Sequence 13-18 Non-Int in And7-V1 (13) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And7-V1 (13)	1080 Secs (1080 Secs) *[==>]*	***[3]***
	17	(7) ANDROMEDA-VII	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.6770,0.2310	Sequence 13-18 Non-Int in And7-V1 (13) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And7-V1 (13)	1100 Secs (1100 Secs) *[==>]*	***[3]***
	18	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Sequence 13-18 Non-Int in And7-V1 (13) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And7-V1 (13)	1080 Secs (1080 Secs) *[==>]*	***[3]***

Orbit Structure

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GS Reacq
Exp. 7
Exp. 9
Pointing Maneuver
Exp. 11
Pointing Maneuver
Unused Orbital Visibility = 243
Occultation
0
500
1000
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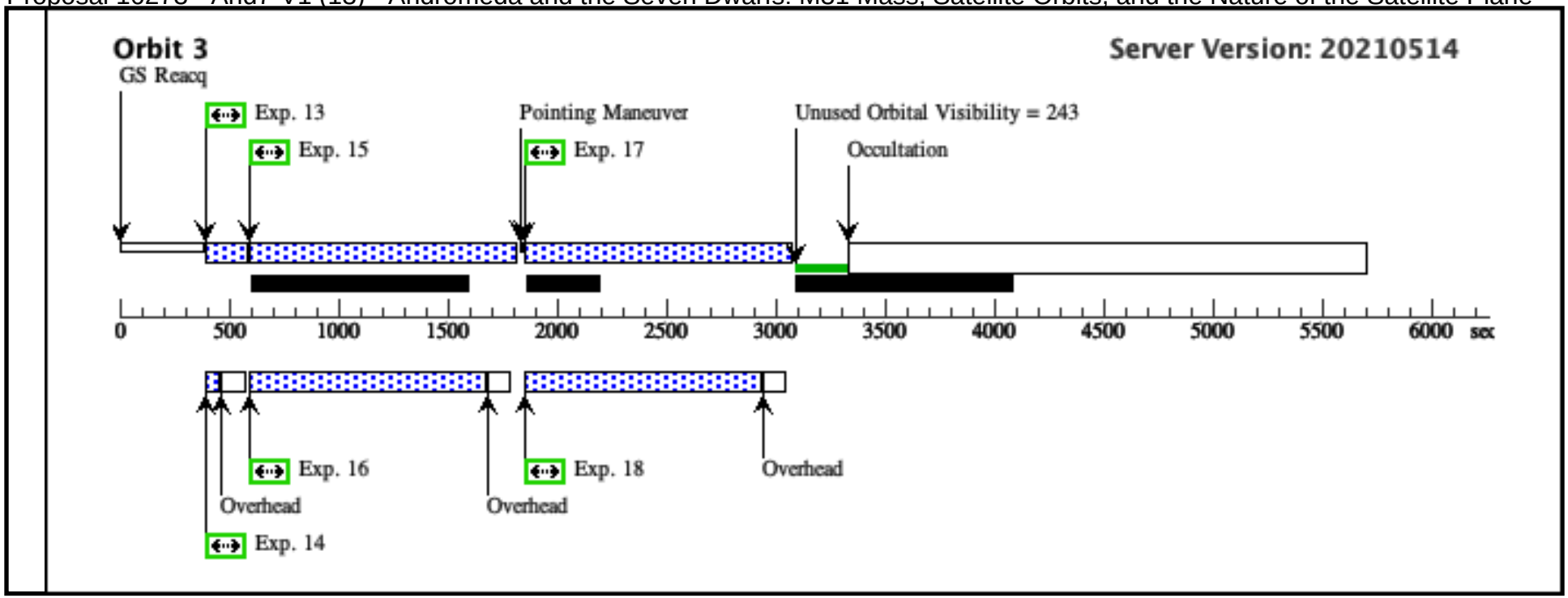
sec
Exp. 10
Overhead
Exp. 8
Overhead
Exp. 12
Overhead


Orbit 3
Server Version: 20210514
GS Reacq
Exp. 13
Exp. 15
Pointing Maneuver
Exp. 17
Unused Orbital Visibility = 243
Occultation
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500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec
Exp. 16
Overhead
Exp. 14
Overhead
Exp. 18
Overhead

Visit

Proposal 16273, And7-V2 (14), scheduling Sat Nov 13 00:01:15 GMT 2021

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: SAME ORIENT AS 13; AFTER 13; GROUP 14,13 WITHIN 15D

Comments: This is the second out of two visits for obtaining second-epoch images of Andromeda VII. This visit spends 3 orbits in total with ACS/WFC being the primary and the WFC3/UVIS being the parallel instruments.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	ANDROMEDA-VII	RA: 23 26 30.8178 (351.6284075d) Dec: +50 41 33.25 (50.69257d) Equinox: J2000	Epoch of Position: 2015.5	V=11.8	Reference Frame: SIMBAD

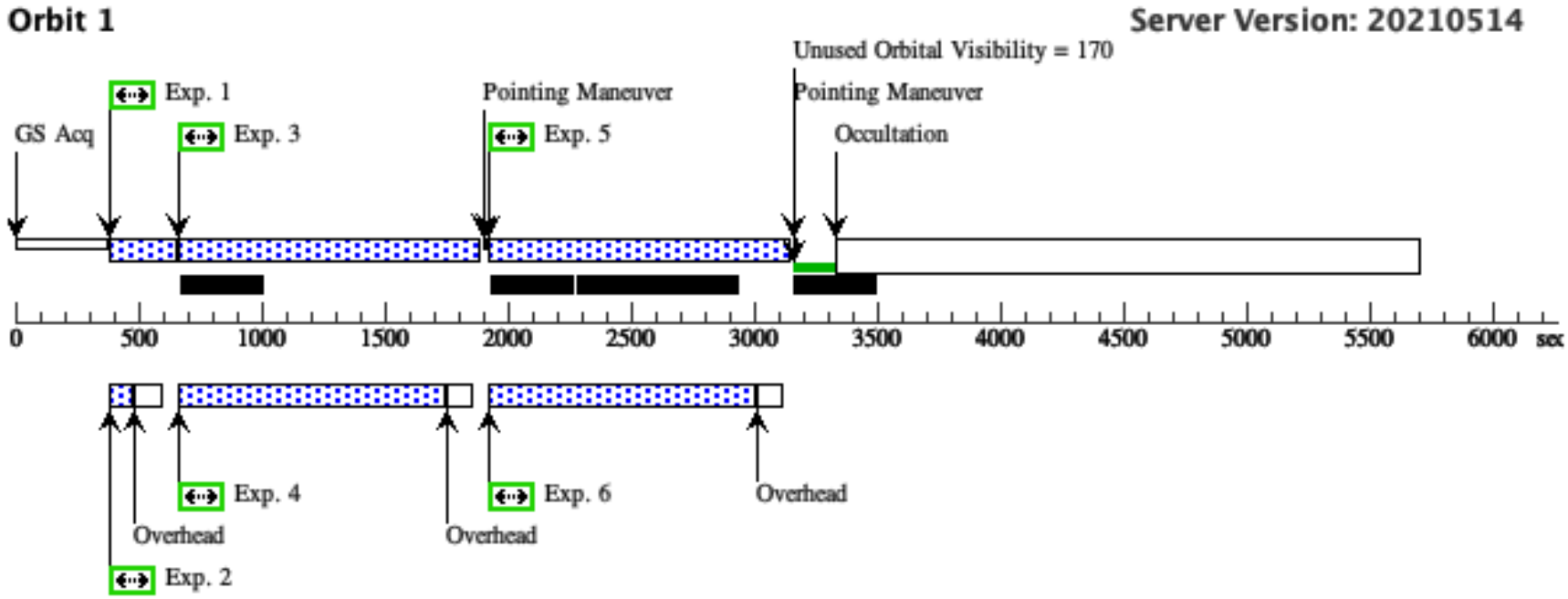
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[DWARF SPHEROIDAL]

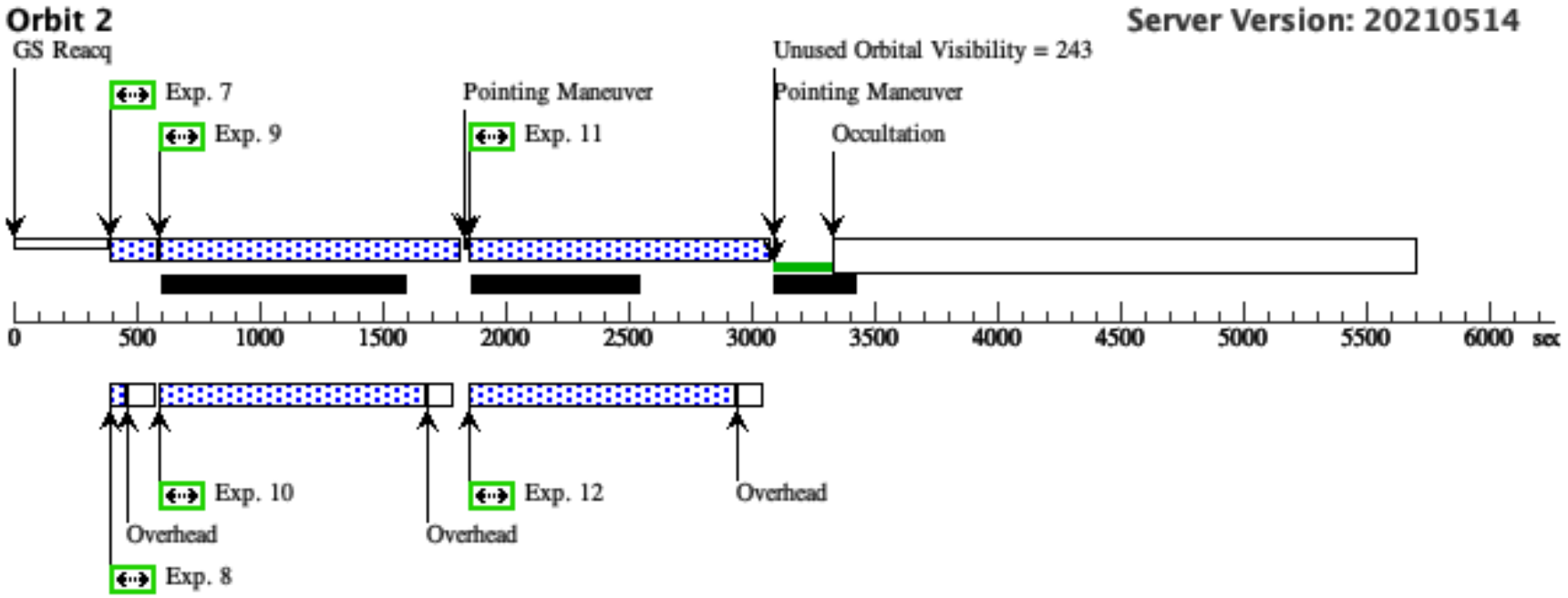
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(7) ANDROMEDA-VII	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.8262,0.1695	Sequence 1-6 Non-Int in And7-V2 (14) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And7-V2 (14)	60 Secs (60 Secs) *[==>]*	***[1]***
2		ANY	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=19.0		Sequence 1-6 Non-Int in And7-V2 (14) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And7-V2 (14)	60 Secs (60 Secs) *[==>]*	***[1]***
3		(7) ANDROMEDA-VII	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.8262,0.1695	Sequence 1-6 Non-Int in And7-V2 (14) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And7-V2 (14)	1100 Secs (1100 Secs) *[==>]*	***[1]***
4		ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Sequence 1-6 Non-Int in And7-V2 (14) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And7-V2 (14)	1080 Secs (1080 Secs) *[==>]*	***[1]***
5		(7) ANDROMEDA-VII	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.6035,0.3765	Sequence 1-6 Non-Int in And7-V2 (14) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And7-V2 (14)	1100 Secs (1100 Secs) *[==>]*	***[1]***
6		ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Sequence 1-6 Non-Int in And7-V2 (14) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And7-V2 (14)	1080 Secs (1080 Secs) *[==>]*	***[1]***
7		(7) ANDROMEDA-VII	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.1180,0.5180	Sequence 7-12 Non-Int in And7-V2 (14) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And7-V2 (14)	60 Secs (60 Secs) *[==>]*	***[2]***
8		ANY	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=19.0		Sequence 7-12 Non-Int in And7-V2 (14) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And7-V2 (14)	60 Secs (60 Secs) *[==>]*	***[2]***
9		(7) ANDROMEDA-VII	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.1180,0.5180	Sequence 7-12 Non-Int in And7-V2 (14) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And 7-V2 (14)	1100 Secs (1100 Secs) *[==>]*	***[2]***

	10	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Sequence 7-12 Non-Int in And7-V2 (14) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And7-V2 (14)	1080 Secs (1080 Secs) *[==>]*	***[2]***
	11	(7) ANDROMEDA-VII	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.2920,0.7030	Sequence 7-12 Non-Int in And7-V2 (14) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And7-V2 (14)	1100 Secs (1100 Secs) *[==>]*	***[2]***
	12	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Sequence 7-12 Non-Int in And7-V2 (14) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And7-V2 (14)	1080 Secs (1080 Secs) *[==>]*	***[2]***
	13	(7) ANDROMEDA-VII	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.4412,0.6415	Sequence 13-18 Non-Int in And7-V2 (14) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And7-V2 (14)	60 Secs (60 Secs) *[==>]*	***[3]***
	14	ANY	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=19.0		Sequence 13-18 Non-Int in And7-V2 (14) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And7-V2 (14)	60 Secs (60 Secs) *[==>]*	***[3]***
	15	(7) ANDROMEDA-VII	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.4412,0.6415	Sequence 13-18 Non-Int in And7-V2 (14) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And7-V2 (14)	1100 Secs (1100 Secs) *[==>]*	***[3]***
	16	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Sequence 13-18 Non-Int in And7-V2 (14) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And7-V2 (14)	1080 Secs (1080 Secs) *[==>]*	***[3]***
	17	(7) ANDROMEDA-VII	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.2185,0.8485	Sequence 13-18 Non-Int in And7-V2 (14) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And7-V2 (14)	1100 Secs (1100 Secs) *[==>]*	***[3]***
	18	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Sequence 13-18 Non-Int in And7-V2 (14) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And7-V2 (14)	1080 Secs (1080 Secs) *[==>]*	***[3]***

Orbit Structure

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GS Reacq
Exp. 7
Exp. 9
Pointing Maneuver
Exp. 11
Unused Orbital Visibility = 243
Pointing Maneuver
Occultation
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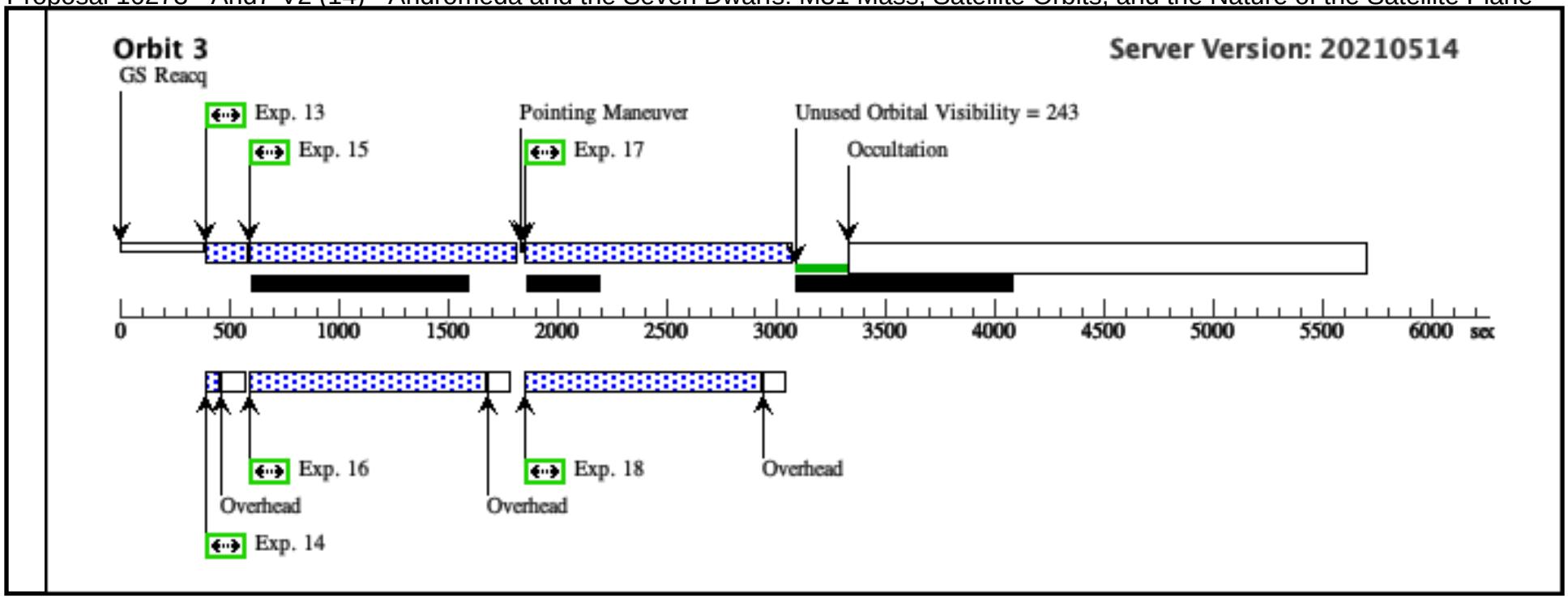
Overhead


Orbit 3
Server Version: 20210514
GS Reacq
Exp. 13
Exp. 15
Pointing Maneuver
Exp. 17
Unused Orbital Visibility = 243
Occultation
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2500
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3500
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4500
5000
5500
6000
sec
Exp. 16
Overhead
Exp. 14
Overhead
Exp. 18
Overhead

Visit

Proposal 16273, And15-V1-REOBS (57), implementation Sat Nov 13 00:01:15 GMT 2021

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: SCHED 80%; ORIENT 199.9D TO 201.9 D

Comments: This is the visit for re-observing Andromeda XV due to guide star acquisition failure. This visit spends 2 orbits in total with ACS/WFC being the primary and the WFC3/UVIS being the parallel instruments. For proper motion measuring purpose, we required to match our telescope orientations to the first-epoch observations. We have accordingly added the Visit Orientation Requirements.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	ANDROMEDA-XV	RA: 01 14 18.5718 (18.5773825d) Dec: +38 07 2.97 (38.11749d) Equinox: J2000	Epoch of Position: 2015.5	V=14.6	Reference Frame: SIMBAD

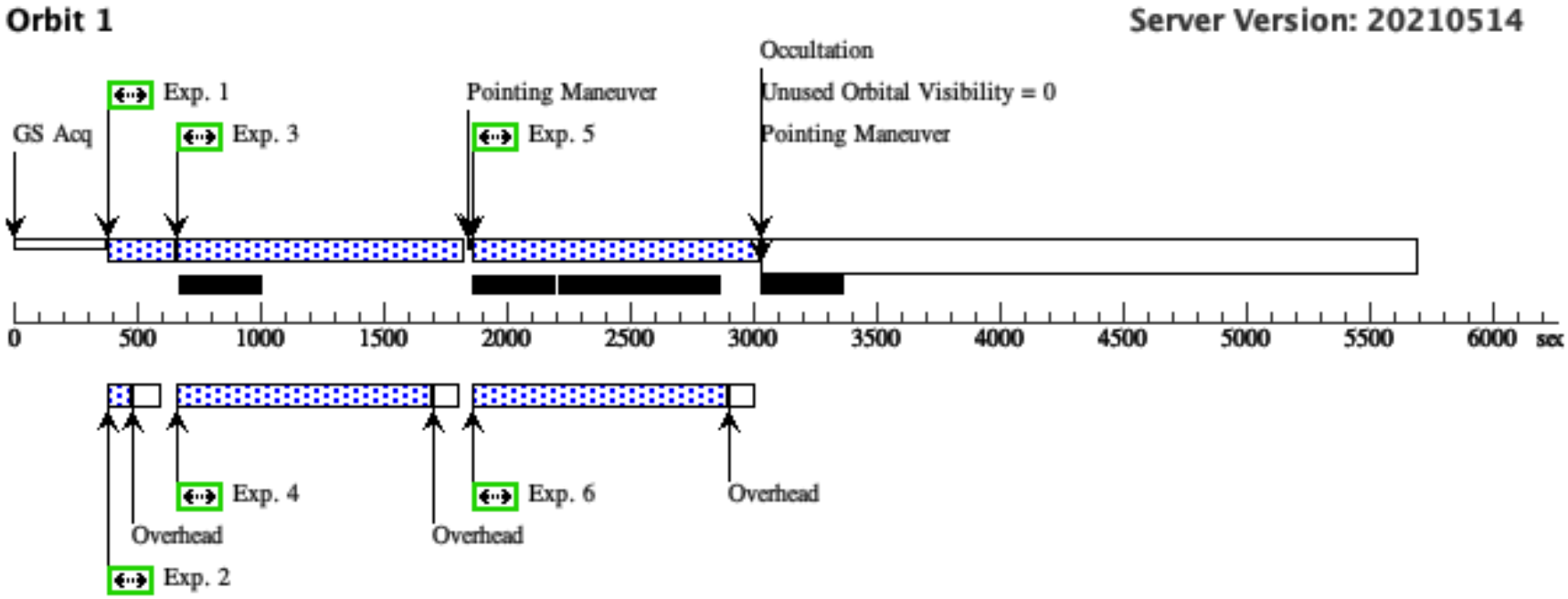
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[DWARF SPHEROIDAL]

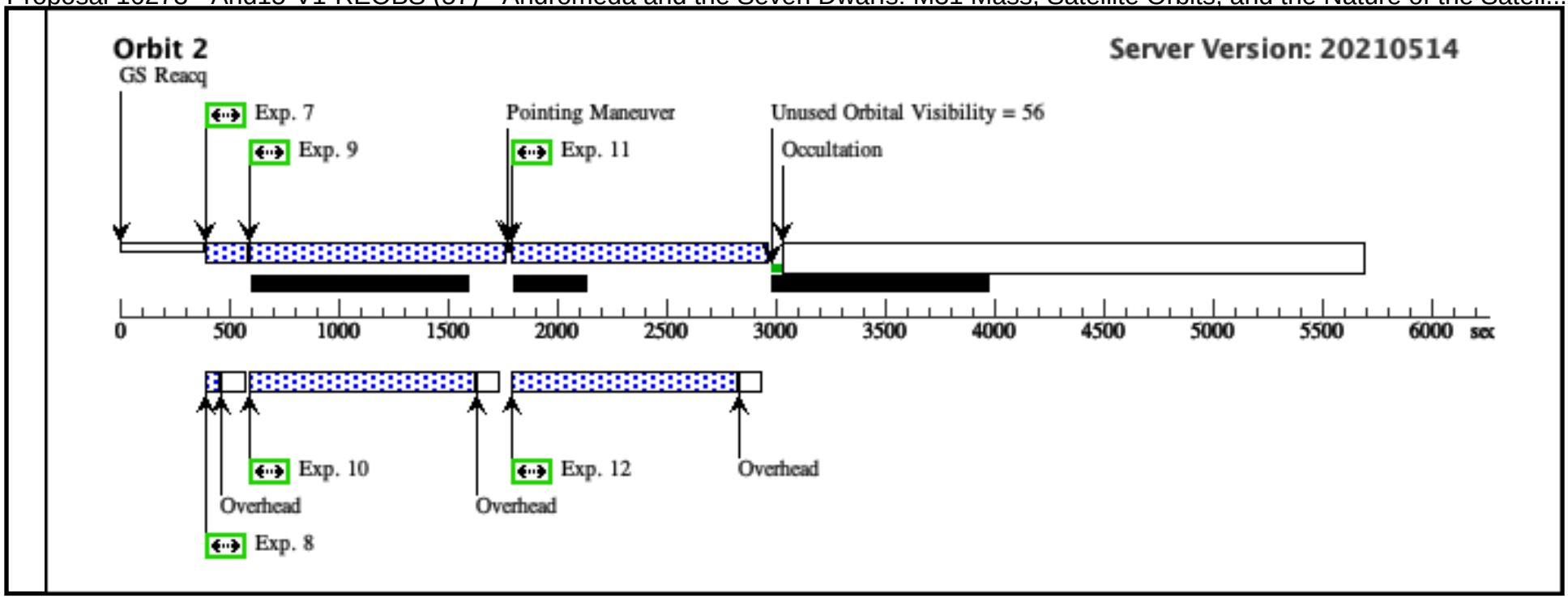
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0000,0.0000	Sequence 1-6 Non-Int in And15-V1-REOBS (57) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And15-V1-REOBS (57)	60 Secs (60 Secs) *[==>]*	***[1]***
2		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 1-6 Non-Int in And15-V1-REOBS (57) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And15-V1-REOBS (57)	60 Secs (60 Secs) *[==>]*	***[1]***
3		(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0000,0.0000	Sequence 1-6 Non-Int in And15-V1-REOBS (57) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And15-V1-REOBS (57)	1036 Secs (1036 Secs) *[==>]*	***[1]***
4		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And15-V1-REOBS (57) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And15-V1-REOBS (57)	1030 Secs (1030 Secs) *[==>]*	***[1]***
5		(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.2228,0.1158	Sequence 1-6 Non-Int in And15-V1-REOBS (57) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And15-V1-REOBS (57)	1037 Secs (1037 Secs) *[==>]*	***[1]***
6		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And15-V1-REOBS (57) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And15-V1-REOBS (57)	1030 Secs (1030 Secs) *[==>]*	***[1]***
7		(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0998,0.2303	Sequence 7-12 Non-Int in And15-V1-REOBS (57) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And15-V1-REOBS (57)	60 Secs (60 Secs) *[==>]*	***[2]***
8		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 7-12 Non-Int in And15-V1-REOBS (57) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And15-V1-REOBS (57)	60 Secs (60 Secs) *[==>]*	***[2]***

	9	(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0998,0.2303	Sequence 7-12 Non-Int in And15-V1-REOBS (57) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And 15-V1-REOBS (57)	1045 Secs (1045 Secs) *[==>]*	***[2]***
	10	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And15-V1-REOBS (57) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And 15-V1-REOBS (57)	1030 Secs (1030 Secs) *[==>]*	***[2]***
	11	(4) ANDROMEDA-XV	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.3225,0.3460	Sequence 7-12 Non-Int in And15-V1-REOBS (57) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And15-V1-REOBS (57)	1045 Secs (1045 Secs) *[==>]*	***[2]***
	12	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And15-V1-REOBS (57) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And15-V1-REOBS (57)	1030 Secs (1030 Secs) *[==>]*	***[2]***

Orbit Structure

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Server Version: 20210514
GS Reacq
Exp. 7
Exp. 9
Pointing Maneuver
Exp. 11
Unused Orbital Visibility = 56
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1500
2000
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3000
3500
4000
4500
5000
5500
6000
sec
Exp. 10
Exp. 12
Overhead
Overhead
Overhead
Exp. 8

Visit

Proposal 16273, And2-REOBS (58) Sat Nov 13 00:01:15 GMT 2021

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: SCHED 80%; ORIENT 174.5D TO 176.5 D; AFTER 01-JAN-2021:00:00:00

Comments: This is the visit for re-observing Andromeda II due to guide star acquisition failure. This visit spends 4 orbits in total with ACS/WFC being the primary and the WFC3/UVIS being the parallel instruments. For proper motion measuring purpose, we required to match our telescope orientations to the first-epoch observations. We have accordingly added the Visit Orientation Requirements.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	ANDROMEDA-II	RA: 01 16 23.7701 (19.0990421d) Dec: +33 26 4.62 (33.43462d) Equinox: J2000	Epoch of Position: 2015.5	V=11.7	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[DWARF SPHEROIDAL]

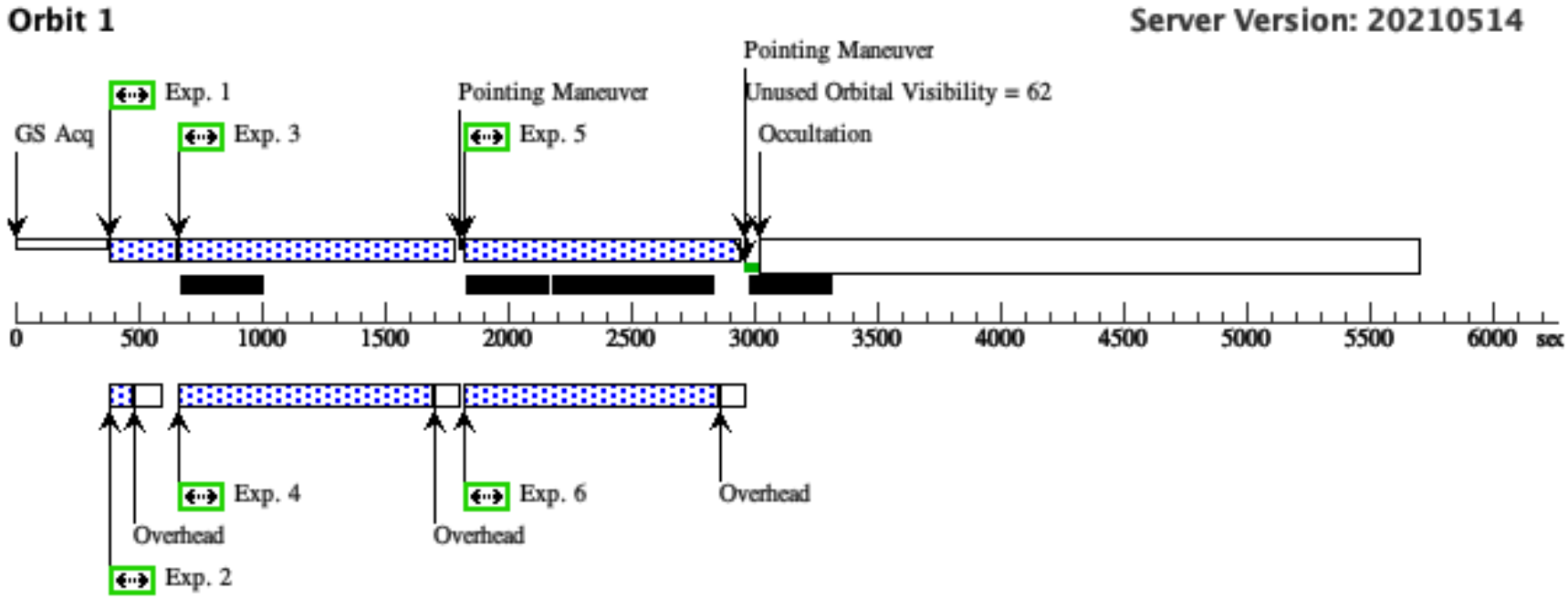
Exposures

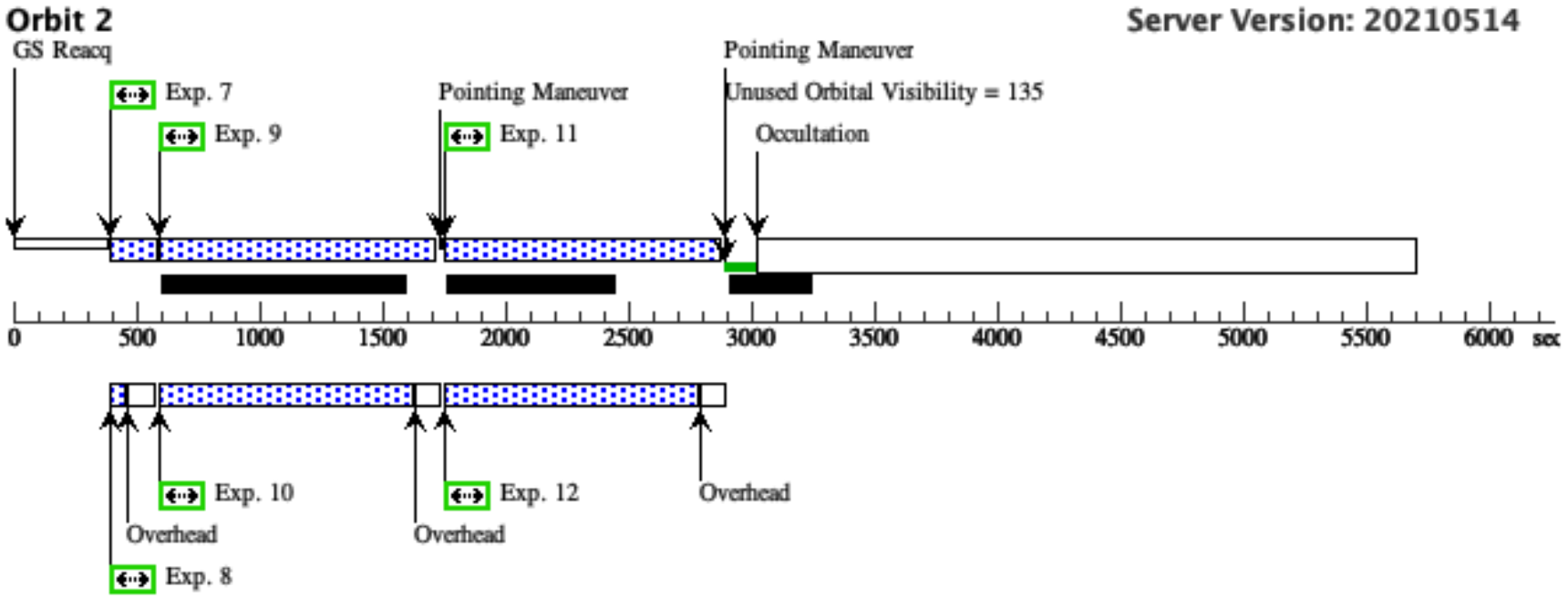
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(2) ANDROMEDA-II	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0000,0.0000	Sequence 1-6 Non-Int in And2-REOBS (58) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And2-REOBS (58)	60 Secs (60 Secs) *[==>]*	***[1]***
2		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 1-6 Non-Int in And2-REOBS (58) Prime + Parallel Group 1-2 in Sequence 1-6 Non-Int in And2-REOBS (58)	60 Secs (60 Secs) *[==>]*	***[1]***
3		(2) ANDROMEDA-II	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0000,0.0000	Sequence 1-6 Non-Int in And2-REOBS (58) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And2-REOBS (58)	1000 Secs (1000 Secs) *[==>]*	***[1]***
4		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And2-REOBS (58) Prime + Parallel Group 3-4 in Sequence 1-6 Non-Int in And2-REOBS (58)	1030 Secs (1030 Secs) *[==>]*	***[1]***
5		(2) ANDROMEDA-II	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.1740,0.2350	Sequence 1-6 Non-Int in And2-REOBS (58) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And2-REOBS (58)	1000 Secs (1000 Secs) *[==>]*	***[1]***
6		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 1-6 Non-Int in And2-REOBS (58) Prime + Parallel Group 5-6 in Sequence 1-6 Non-Int in And2-REOBS (58)	1030 Secs (1030 Secs) *[==>]*	***[1]***
7		(2) ANDROMEDA-II	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.3232,0.1235	Sequence 7-12 Non-Int in And2-REOBS (58) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And2-REOBS (58)	60 Secs (60 Secs) *[==>]*	***[2]***
8		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 7-12 Non-Int in And2-REOBS (58) Prime + Parallel Group 7-8 in Sequence 7-12 Non-Int in And2-REOBS (58)	60 Secs (60 Secs) *[==>]*	***[2]***

	9	(2) ANDROMEDA-II	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.3232,0.1235	Sequence 7-12 Non-Int in And2-REOBS (58) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And2-REOBS (58)	1000 Secs (1000 Secs) *[==>]*	***[2]***
	10	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And2-REOBS (58) Prime + Parallel Group 9-10 in Sequence 7-12 Non-Int in And2-REOBS (58)	1030 Secs (1030 Secs) *[==>]*	***[2]***
	11	(2) ANDROMEDA-II	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.1005,0.3305	Sequence 7-12 Non-Int in And2-REOBS (58) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And2-REOBS (58)	1000 Secs (1000 Secs) *[==>]*	***[2]***
	12	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 7-12 Non-Int in And2-REOBS (58) Prime + Parallel Group 11-12 in Sequence 7-12 Non-Int in And2-REOBS (58)	1030 Secs (1030 Secs) *[==>]*	***[2]***
	13	(2) ANDROMEDA-II	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.5075,0.0505	Sequence 13-18 Non-Int in And2-REOBS (58) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And2-REOBS (58)	60 Secs (60 Secs) *[==>]*	***[3]***
	14	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 13-18 Non-Int in And2-REOBS (58) Prime + Parallel Group 13-14 in Sequence 13-18 Non-Int in And2-REOBS (58)	60 Secs (60 Secs) *[==>]*	***[3]***
	15	(2) ANDROMEDA-II	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.5075,0.0505	Sequence 13-18 Non-Int in And2-REOBS (58) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And2-REOBS (58)	1000 Secs (1000 Secs) *[==>]*	***[3]***
	16	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 13-18 Non-Int in And2-REOBS (58) Prime + Parallel Group 15-16 in Sequence 13-18 Non-Int in And2-REOBS (58)	1030 Secs (1030 Secs) *[==>]*	***[3]***

	17	(2) ANDROMEDA-II	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.6815,0.2855	Sequence 13-18 Non-Int in And2-REOBS (58) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And2-REOBS (58)	1000 Secs (1000 Secs) *[==>]*	***[3]***
	18	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 13-18 Non-Int in And2-REOBS (58) Prime + Parallel Group 17-18 in Sequence 13-18 Non-Int in And2-REOBS (58)	1030 Secs (1030 Secs) *[==>]*	***[3]***
	19	(2) ANDROMEDA-II	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.8300,0.1735	Sequence 19-24 Non-Int in And2-REOBS (58) Prime + Parallel Group 19-20 in Sequence 19-24 Non-Int in And2-REOBS (58)	60 Secs (60 Secs) *[==>]*	***[4]***
	20	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=19.0		Sequence 19-24 Non-Int in And2-REOBS (58) Prime + Parallel Group 19-20 in Sequence 19-24 Non-Int in And2-REOBS (58)	60 Secs (60 Secs) *[==>]*	***[4]***
	21	(2) ANDROMEDA-II	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.8300,0.1735	Sequence 19-24 Non-Int in And2-REOBS (58) Prime + Parallel Group 21-22 in Sequence 19-24 Non-Int in And2-REOBS (58)	1000 Secs (1000 Secs) *[==>]*	***[4]***
	22	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 19-24 Non-Int in And2-REOBS (58) Prime + Parallel Group 21-22 in Sequence 19-24 Non-Int in And2-REOBS (58)	1030 Secs (1030 Secs) *[==>]*	***[4]***
	23	(2) ANDROMEDA-II	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.6080,0.3810	Sequence 19-24 Non-Int in And2-REOBS (58) Prime + Parallel Group 23-24 in Sequence 19-24 Non-Int in And2-REOBS (58)	1000 Secs (1000 Secs) *[==>]*	***[4]***
	24	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Sequence 19-24 Non-Int in And2-REOBS (58) Prime + Parallel Group 23-24 in Sequence 19-24 Non-Int in And2-REOBS (58)	1030 Secs (1030 Secs) *[==>]*	***[4]***

Orbit Structure

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Exp. 11
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Overhead
Exp. 8
Overhead
Exp. 12
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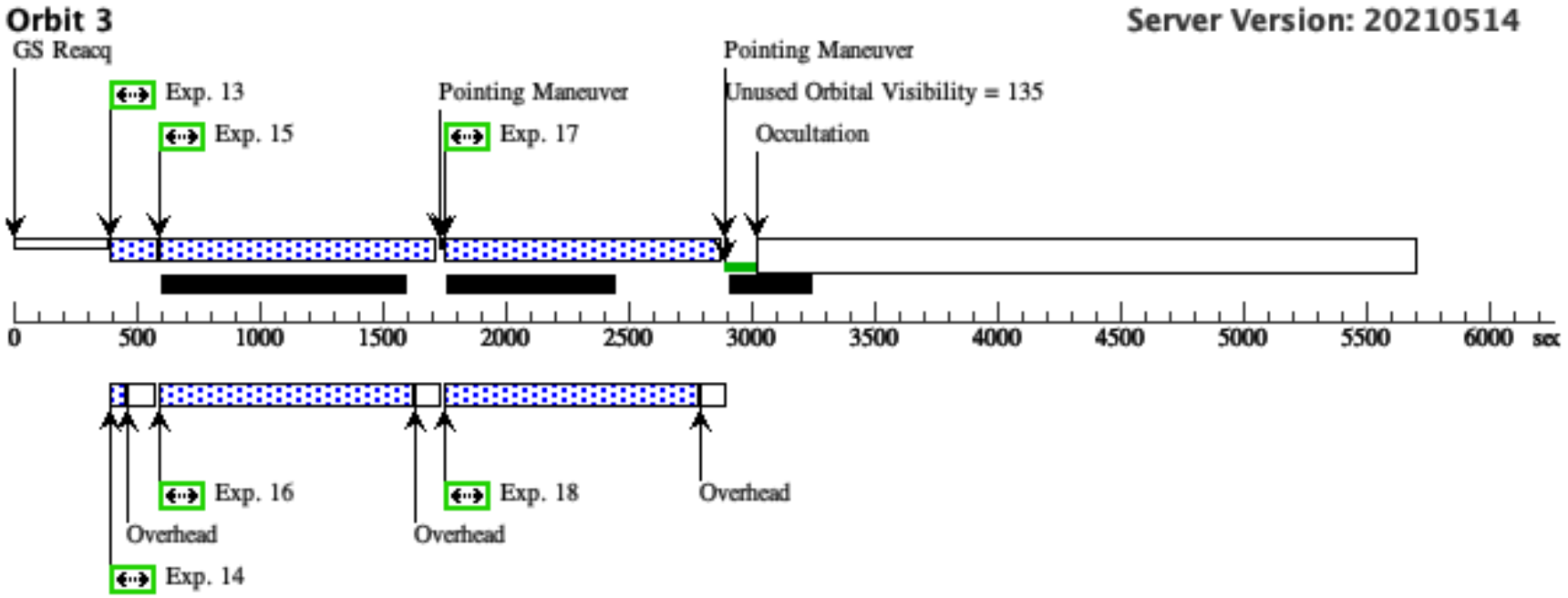
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GS Reacq
Exp. 13
Exp. 15
Pointing Maneuver
Exp. 17
Pointing Maneuver
Unused Orbital Visibility = 135
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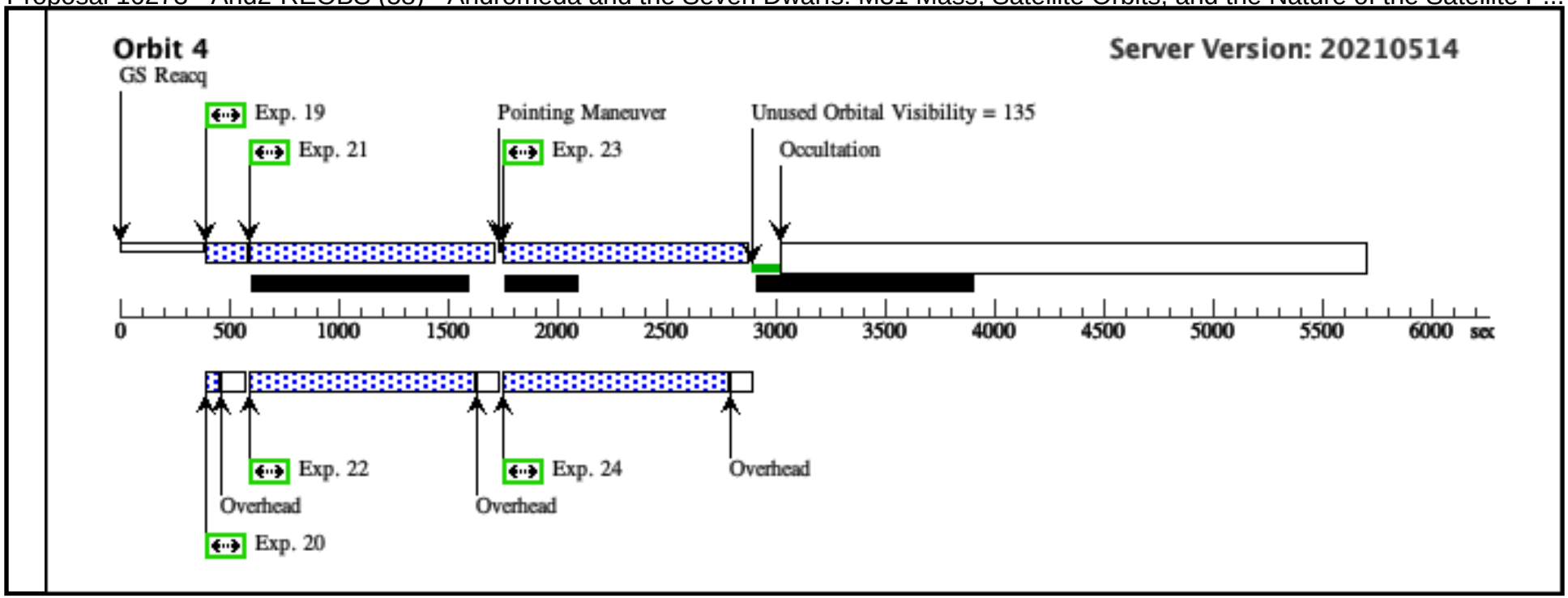
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Exp. 21
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Exp. 23
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Exp. 22
Exp. 24
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Overhead
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Exp. 20