17174 - New Kids on the Block? Proper Motions of First Infall Galaxies in the Local Group

Cycle: 30, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

Name	*Institution*
Dr. Paul Bennet (PI) (Contact)	**Space Telescope Science Institute**
Dr. Laura L. Watkins (CoI) (ESA Member)	Space Telescope Science Institute - ESA
Dr. Mark Fardal (CoI)	Eureka Scientific Inc.
Dr. Sangmo Tony Sohn (CoI)	Space Telescope Science Institute
Dr. Andres del Pino Molina (CoI) (ESA Member)	Centro de Estudios de Fisica del Cosmos de Aragon
Dr. Roeland P. van der Marel (CoI)	Space Telescope Science Institute
Dr. Ekta Patel (CoI)	University of Utah

VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) PISCES-I	ACS/WFC	3	28-Apr-2023 14:00:14.0	yes
02	(1) PISCES-I	ACS/WFC	3	28-Apr-2023 14:00:15.0	yes
03	(3) PEGDIG	ACS/WFC	5	28-Apr-2023 14:00:16.0	yes
04	(3) PEGDIG	ACS/WFC	5	28-Apr-2023 14:00:18.0	yes
05	(2) AQUARIUS-DWARF	ACS/WFC	3	28-Apr-2023 14:00:19.0	yes
06	(2) AQUARIUS-DWARF	ACS/WFC	3	28-Apr-2023 14:00:20.0	yes
07	(4) LEO-T	ACS/WFC	3	28-Apr-2023 14:00:21.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
08	(4) LEO-T	ACS/WFC	3	28-Apr-2023 14:00:22.0	yes

28 Total Orbits Used

ABSTRACT

The Local Group (LG) is dominated by the Milky Way (MW), Andromeda (M31) and Triangulum (M33) galaxies. Their inner satellite systems have been well studied, but there are galaxies that live at the edges of these systems whose nature and histories are poorly understood. They trace a key part of the host's mass distribution not probed by closer-in satellites. We propose to measure proper motions (PMs) for 4 such LG dwarf galaxies: LeoT (MW satellite), Aquarius (M31), Pegasus (M31), and Pisces (M31 or M33?). Combining the new HST PMs with existing line-of-sight velocities, we will precisely determine their orbits, and compare the orbital characteristics and timescales with their existing SF histories. This will enable us to address several key questions. Are they bound or unbound to their putative hosts? Are they falling in to their hosts for the first time or have they fallen in before and splashed back again? Their infall is thought to trigger a burst of star formation (SF) and then quench, but on what timescales, and at what distance from the host do these events occur? What are the outer mass distributions of their hosts, and the mass of the LG as a whole? Is Pisces the first known satellite of M33? The target galaxies are too far and faint for Gaia to study. Only HST has the depth, astrometric precision and long time baselines via its Archive to measure these PMs. With Hubble's exceptional longevity and stability, we are able to continue to push back the frontiers of LG science.

OBSERVING DESCRIPTION

The main goal of this program is to measure absolute proper motions of the four target galaxies PIisces-1, Aquarius, Pegasus, and Leo T dwarf galaxies. For this, we will use compact background galaxies in the field view as stationary reference sources. The target galaxies have already been observed either in one or two separate epochs. The imaging data from this program will add another epoch thereby yielding a time baseline in the rage 10-17 years. For the proper motion measurements, we will measure the average motion of stars in each dwarf galaxy with respect to compact background galaxies using the multi-epoch data. Our analysis techniques and expected accuracies are described in the Phase I proposal.

The first epoch ACS/WFC data were obtained in at least two filters to make deep color magnitude diagrams for the target galaxies. The available broad-band colors and depth are sufficient for separating stars, foreground stars, and background galaxies to first order. For the current program, we will observe each target galaxy with the F814W filter, except for Leo T which will be observed in F606W, using the same pointing and orientation used for the first-epoch data. We therefore added Visit Orient Requirements to all visits. Individual exposures will be sub-pixel dithered using

custom-designed dithering pattern through POSTARG requirement to maximize pixel-phase coverage, and will last half an orbit. We request each target galaxy to be observed in two visits with 5 orbits (for Aquarius dwarf) or 3 orbits (all other targets) each. For the two separate visits for each target, we added Timinig Requirements "GROUP WITHIN 30D" so that they can be treated as single epoch data for astrometric analyses.

Visit

Proposal 17174, PISCES-I-01 (01), implementation Fri Apr 28 18:00:22 GMT 2023

Diagnostic Status: No Diagnostics

Scientific Instruments: ACS/WFC

Special Requirements: ORIENT 240.96D TO 240.96 D; GROUP 01,02 WITHIN 30D

Fixed Targets

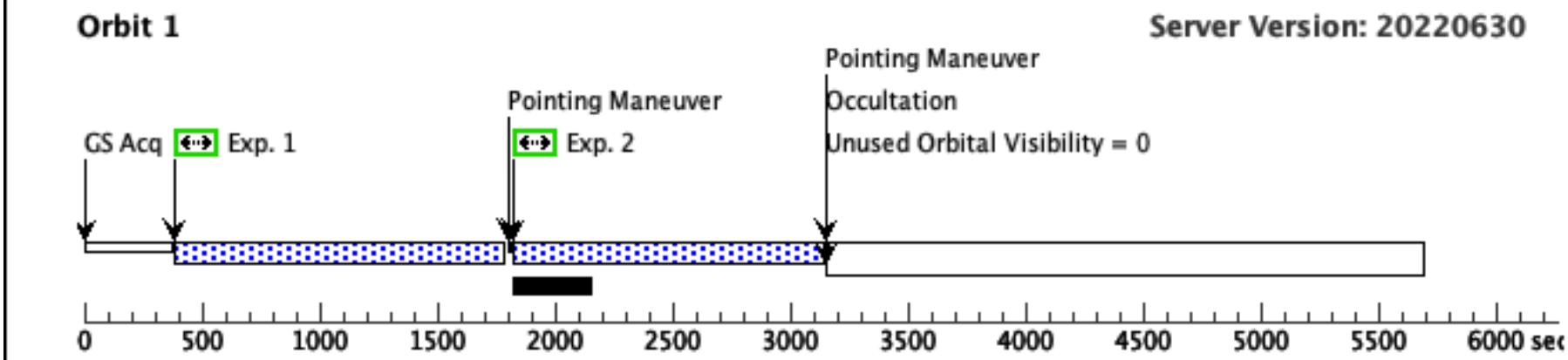
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	PISCES-I	RA: 01 03 50.5448 (15.9606033d) Dec: +21 53 16.46 (21.88791d) Equinox: J2000	Epoch of Position: 2015.5	V=14.3	Reference Frame: SIMBAD

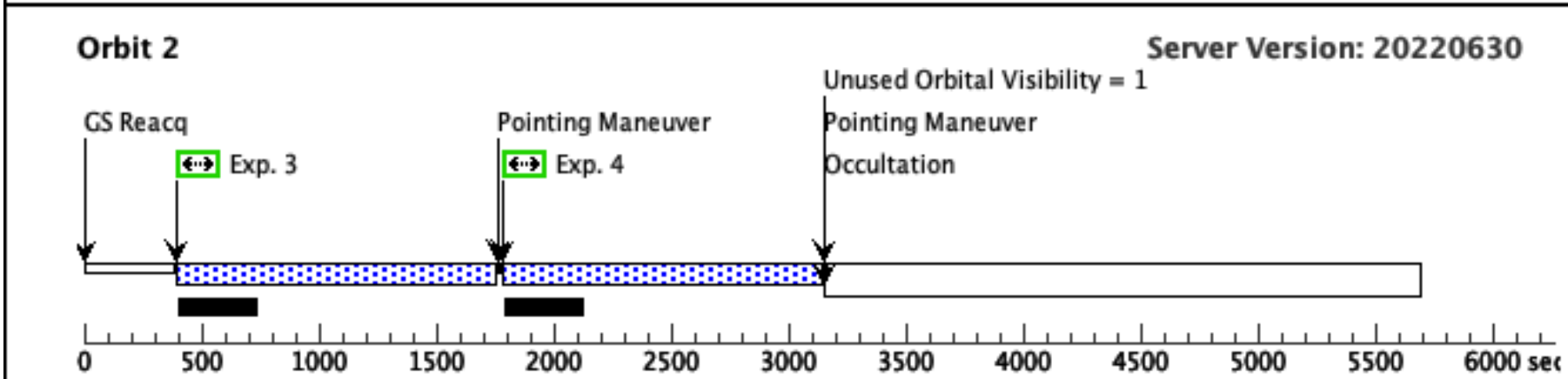
Comments:
Category=GALAXY
Description=[DWARF ELLIPTICAL, DWARF SPHEROIDAL]

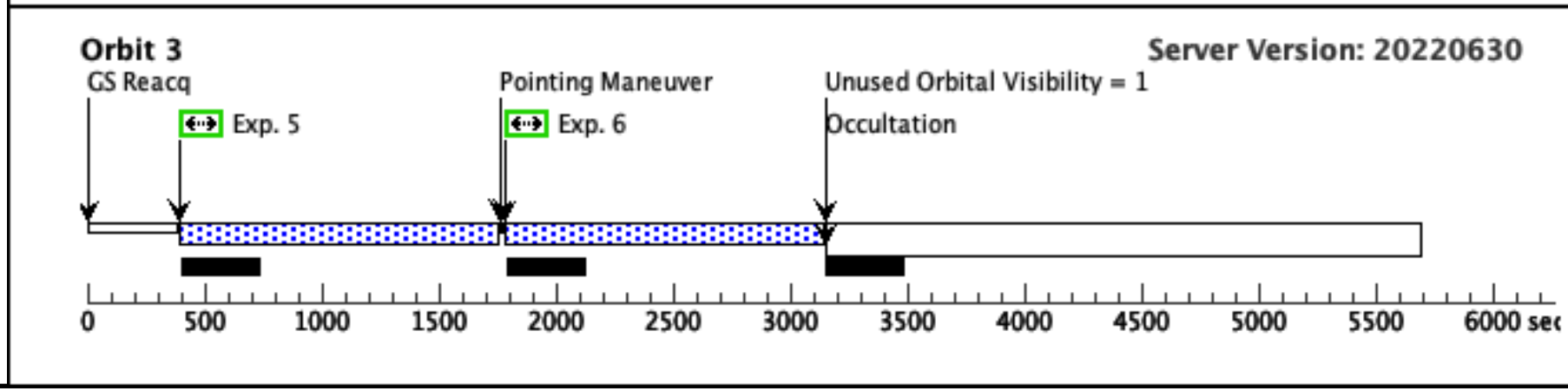
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) PISCES-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.0000,0.0000	Sequence 1-2 Non-Int in PISCES-I-01 (01)	1198 Secs (1198 Secs) *[==>]*	*[1]*
2		(1) PISCES-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.1740,0.1850	Sequence 1-2 Non-Int in PISCES-I-01 (01)	1198 Secs (1198 Secs) *[==>]*	*[1]*
3		(1) PISCES-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.3232,0.1235	Sequence 3-4 Non-Int in PISCES-I-01 (01)	1234 Secs (1234 Secs) *[==>]*	*[2]*
4		(1) PISCES-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.1005,0.3305	Sequence 3-4 Non-Int in PISCES-I-01 (01)	1234 Secs (1234 Secs) *[==>]*	*[2]*
5		(1) PISCES-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.5030,0.0460	Sequence 5-6 Non-Int in PISCES-I-01 (01)	1234 Secs (1234 Secs) *[==>]*	*[3]*
6		(1) PISCES-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.6770,0.2310	Sequence 5-6 Non-Int in PISCES-I-01 (01)	1234 Secs (1234 Secs) *[==>]*	*[3]*

Orbit Structure







Visit

Proposal 17174, PISCES-I-01 (02), implementation Fri Apr 28 18:00:23 GMT 2023

Diagnostic Status: No Diagnostics

Scientific Instruments: ACS/WFC

Special Requirements: SAME ORIENT AS 01; GROUP 02,01 WITHIN 30D

Fixed Targets

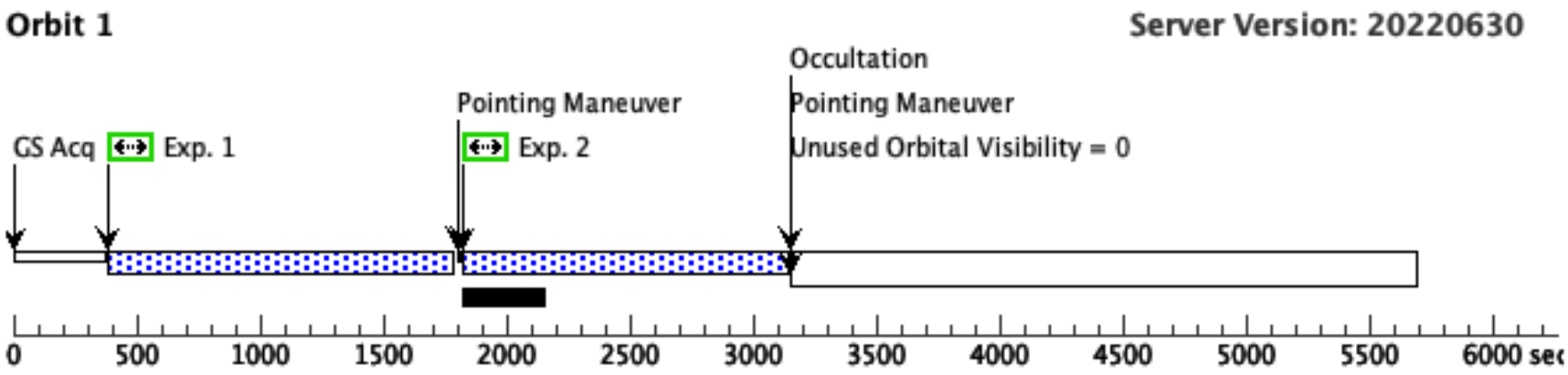
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	PISCES-I	RA: 01 03 50.5448 (15.9606033d) Dec: +21 53 16.46 (21.88791d) Equinox: J2000	Epoch of Position: 2015.5	V=14.3	Reference Frame: SIMBAD

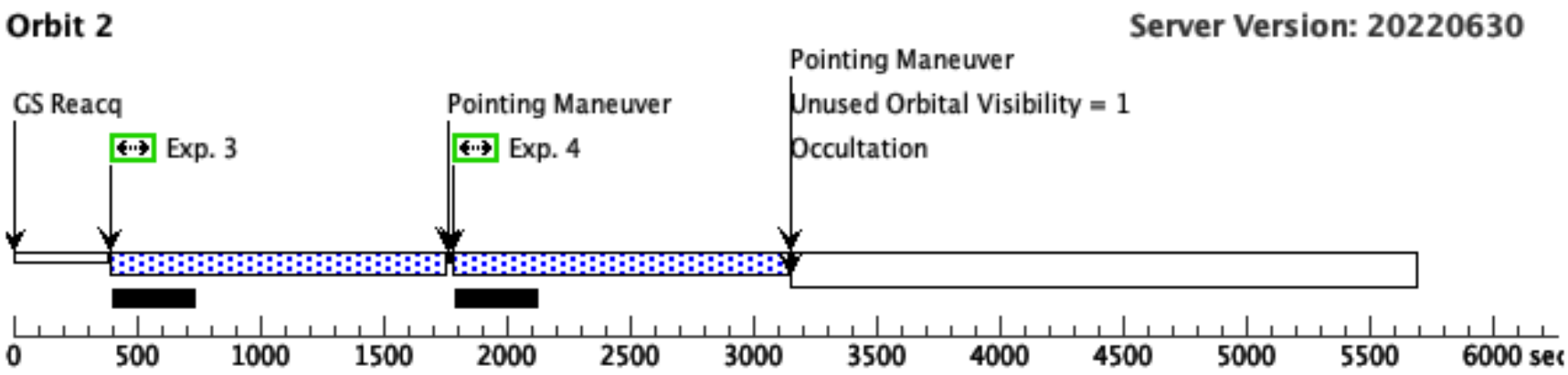
Comments:
Category=GALAXY
Description=[DWARF ELLIPTICAL, DWARF SPHEROIDAL]

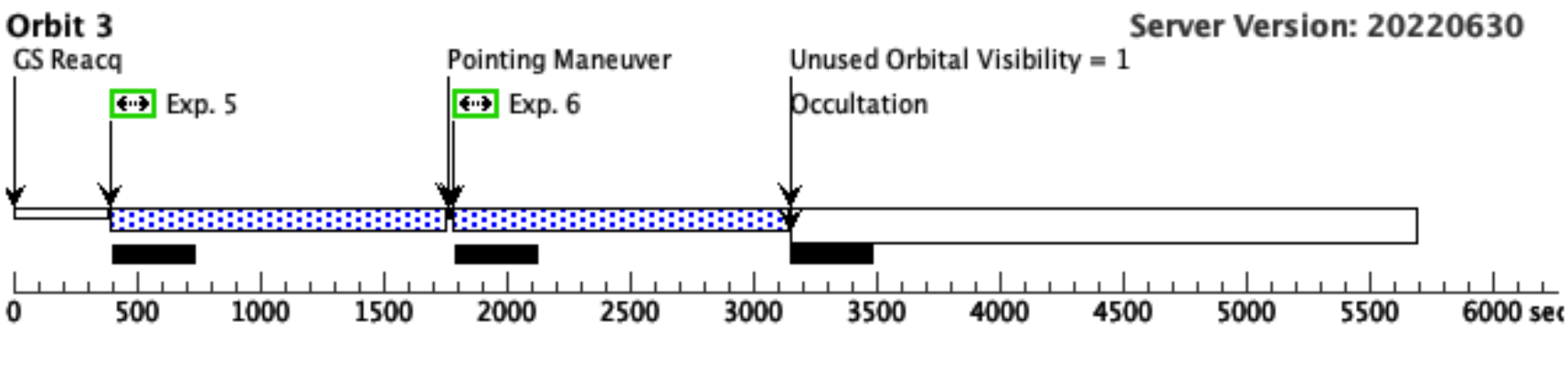
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) PISCES-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.8262,0.1695	Sequence 1-2 Non-Int in PISCES-I-01 (02)	1198 Secs (1198 Secs) *[==>]*	*[1]*
2		(1) PISCES-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.6035,0.3765	Sequence 1-2 Non-Int in PISCES-I-01 (02)	1198 Secs (1198 Secs) *[==>]*	*[1]*
3		(1) PISCES-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.1180,0.5180	Sequence 3-4 Non-Int in PISCES-I-01 (02)	1234 Secs (1234 Secs) *[==>]*	*[2]*
4		(1) PISCES-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.2920,0.7030	Sequence 3-4 Non-Int in PISCES-I-01 (02)	1234 Secs (1234 Secs) *[==>]*	*[2]*
5		(1) PISCES-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.4412,0.6415	Sequence 5-6 Non-Int in PISCES-I-01 (02)	1234 Secs (1234 Secs) *[==>]*	*[3]*
6		(1) PISCES-I	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.2185,0.8485	Sequence 5-6 Non-Int in PISCES-I-01 (02)	1234 Secs (1234 Secs) *[==>]*	*[3]*

Orbit Structure







Visit

Proposal 17174, PEGDIG-01 (03), implementation Fri Apr 28 18:00:23 GMT 2023

Diagnostic Status: No Diagnostics

Scientific Instruments: ACS/WFC

Special Requirements: ORIENT 248.5D TO 248.5 D; GROUP 03,04 WITHIN 30D

Fixed Targets

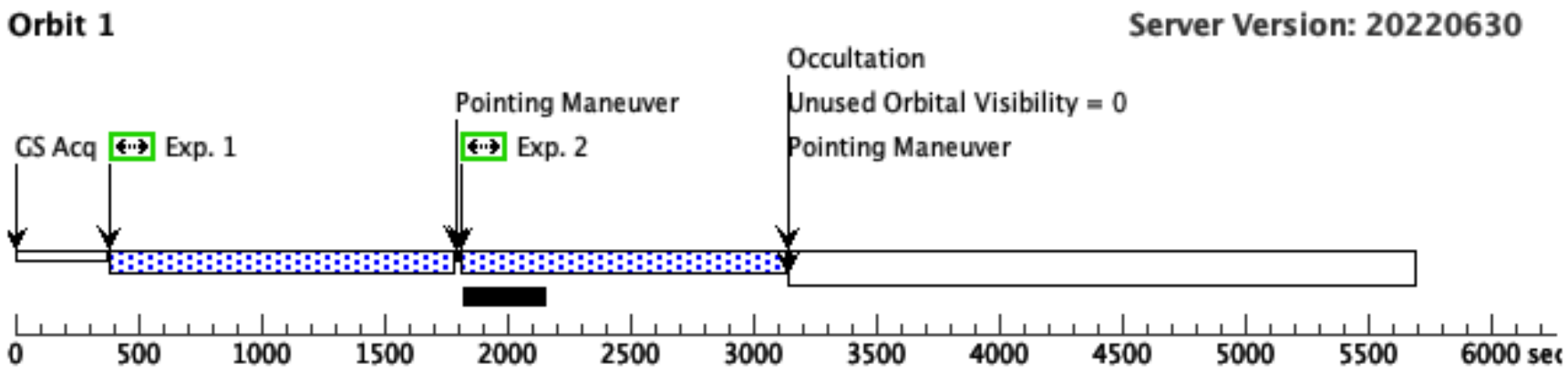
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	PEGDIG	RA: 23 28 36.9410 (352.1539208d) Dec: +14 44 5.23 (14.73479d) Equinox: J2000	Epoch of Position: 2015.5	V=12.52	Reference Frame: SIMBAD

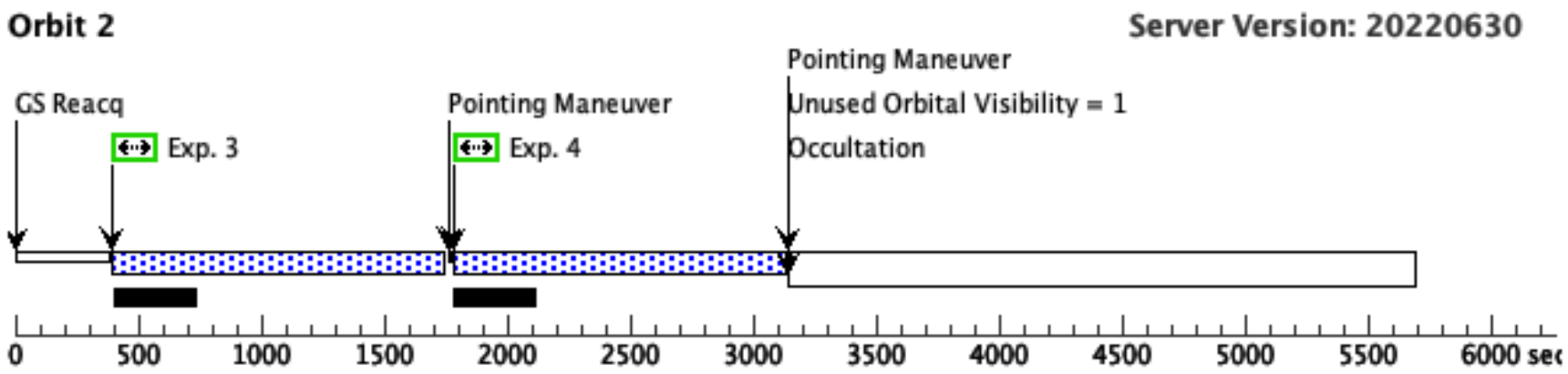
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[DWARF ELLIPTICAL, DWARF SPHEROIDAL]

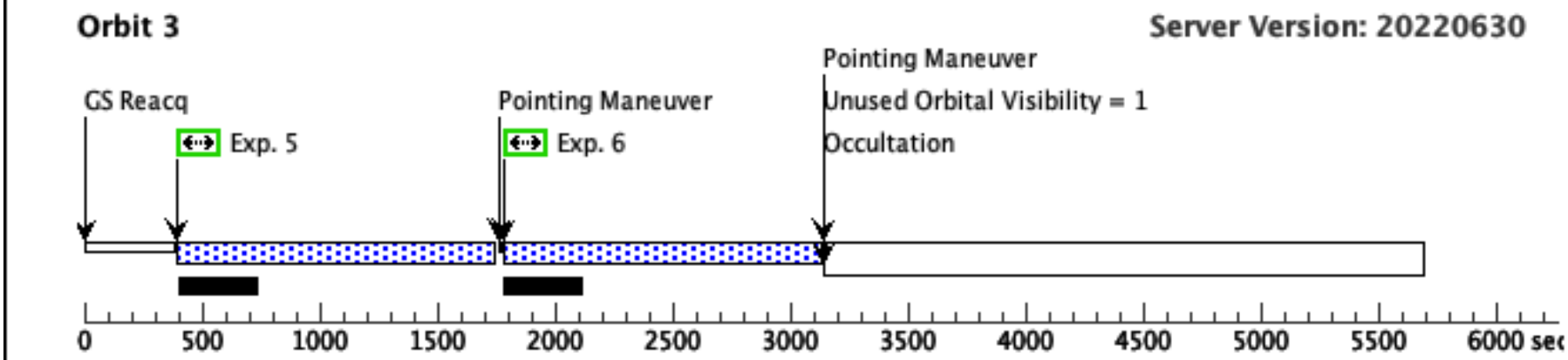
Exposures

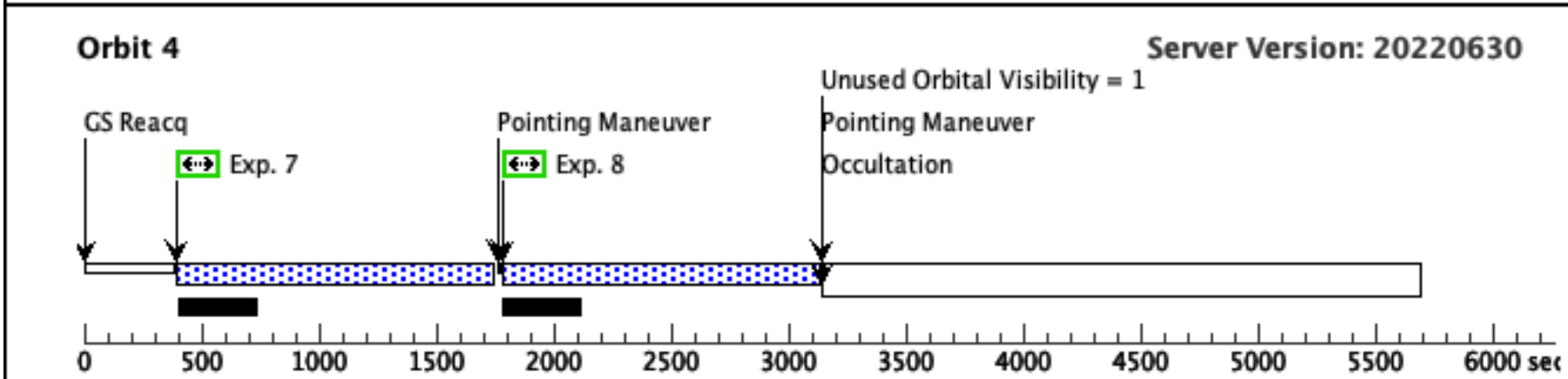
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(3) PEGDIG	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.0000,0.0000	Sequence 1-2 Non-Int in PEGDIG-01 (03)	1194 Secs (1194 Secs) *[==>]*	***[1]***
2		(3) PEGDIG	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.0654,0.2574	Sequence 1-2 Non-Int in PEGDIG-01 (03)	1194 Secs (1194 Secs) *[==>]*	***[1]***
3		(3) PEGDIG	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.1391,0.1689	Sequence 3-4 Non-Int in PEGDIG-01 (03)	1230 Secs (1230 Secs) *[==>]*	***[2]***
4		(3) PEGDIG	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.1550,0.4225	Sequence 3-4 Non-Int in PEGDIG-01 (03)	1230 Secs (1230 Secs) *[==>]*	***[2]***
5		(3) PEGDIG	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.2177,0.0857	Sequence 5-6 Non-Int in PEGDIG-01 (03)	1230 Secs (1230 Secs) *[==>]*	***[3]***
6		(3) PEGDIG	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.2781,0.3427	Sequence 5-6 Non-Int in PEGDIG-01 (03)	1230 Secs (1230 Secs) *[==>]*	***[3]***
7		(3) PEGDIG	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.3414,0.1544	Sequence 7-8 Non-Int in PEGDIG-01 (03)	1230 Secs (1230 Secs) *[==>]*	***[4]***
8		(3) PEGDIG	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.3567,0.2595	Sequence 7-8 Non-Int in PEGDIG-01 (03)	1230 Secs (1230 Secs) *[==>]*	***[4]***
9		(3) PEGDIG	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.4216,0.4178	Sequence 9-10 Non-Int in PEGDIG-01 (03)	1230 Secs (1230 Secs) *[==>]*	***[5]***
10		(3) PEGDIG	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.4802,0.2787	Sequence 9-10 Non-Int in PEGDIG-01 (03)	1230 Secs (1230 Secs) *[==>]*	***[5]***

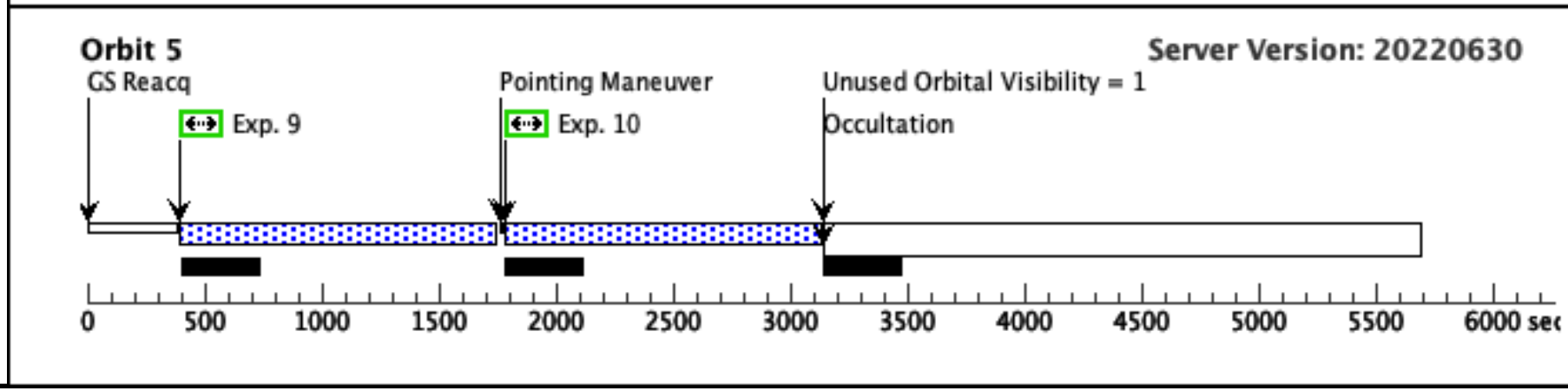
Orbit Structure






Orbit 3
Server Version: 20220630
Pointing Maneuver
GS Reacq
Pointing Maneuver
Unused Orbital Visibility = 1
Exp. 5
Exp. 6
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 4
Server Version: 20220630
Unused Orbital Visibility = 1
GS Reacq
Pointing Maneuver
Pointing Maneuver
Exp. 7
Exp. 8
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 5
Server Version: 20220630
GS Reacq
Pointing Maneuver
Unused Orbital Visibility = 1
Exp. 9
Exp. 10
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17174, PEGDIG-02 (04), implementation Fri Apr 28 18:00:23 GMT 2023

Diagnostic Status: No Diagnostics

Scientific Instruments: ACS/WFC

Special Requirements: SAME ORIENT AS 03; GROUP 04,03 WITHIN 30D

Fixed Targets

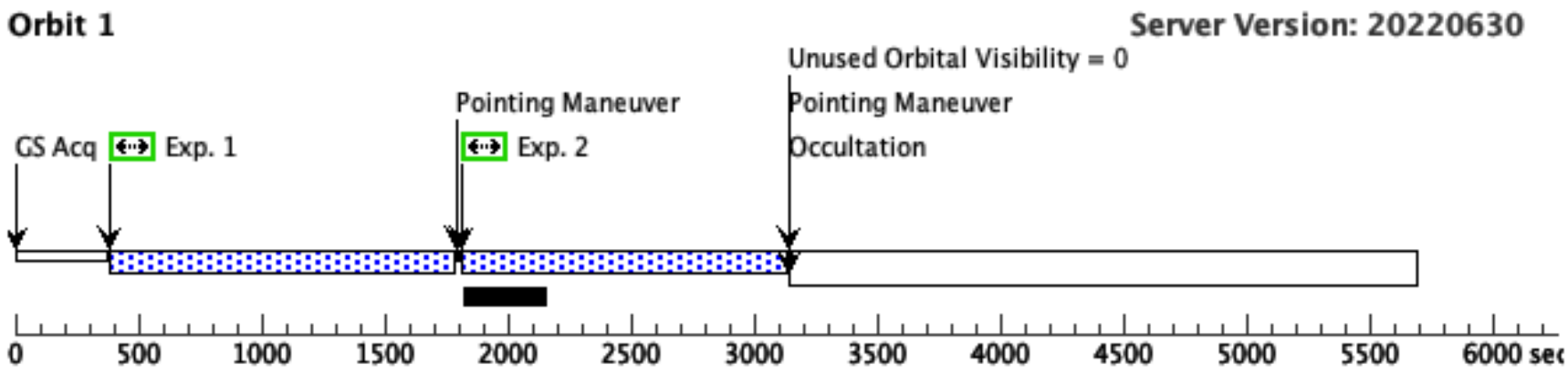
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	PEGDIG	RA: 23 28 36.9410 (352.1539208d) Dec: +14 44 5.23 (14.73479d) Equinox: J2000	Epoch of Position: 2015.5	V=12.52	Reference Frame: SIMBAD

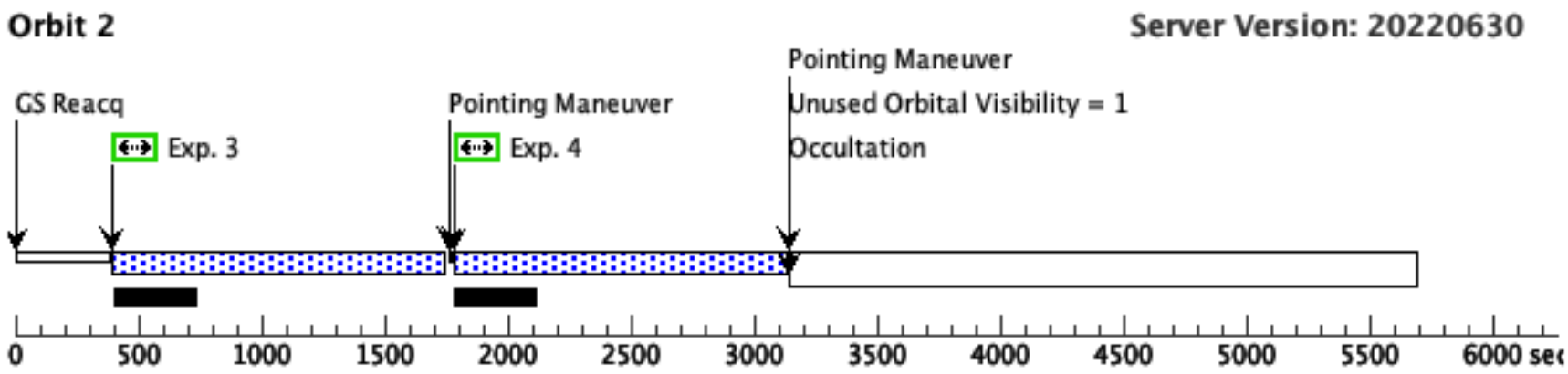
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[DWARF ELLIPTICAL, DWARF SPHEROIDAL]

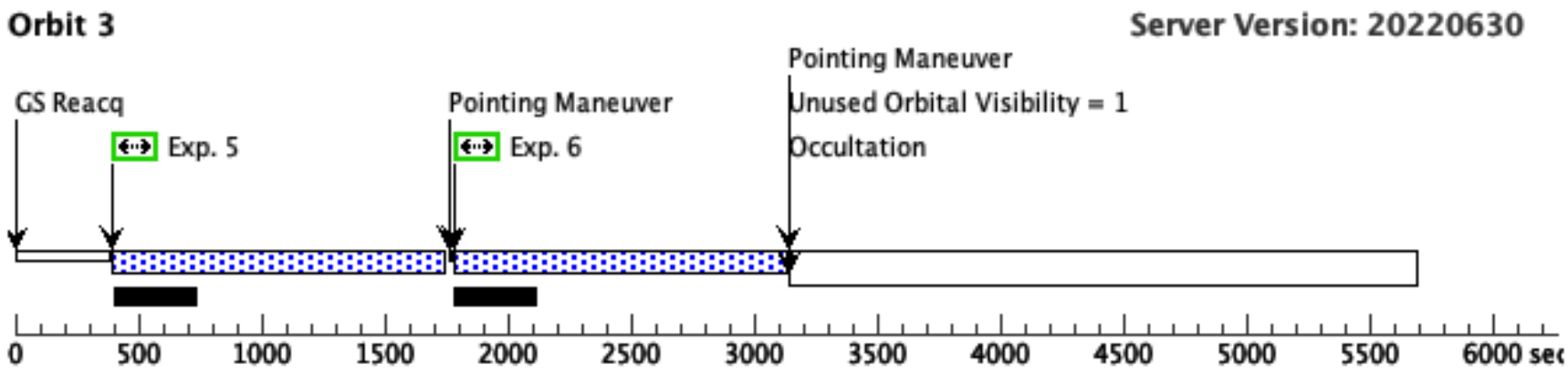
Exposures

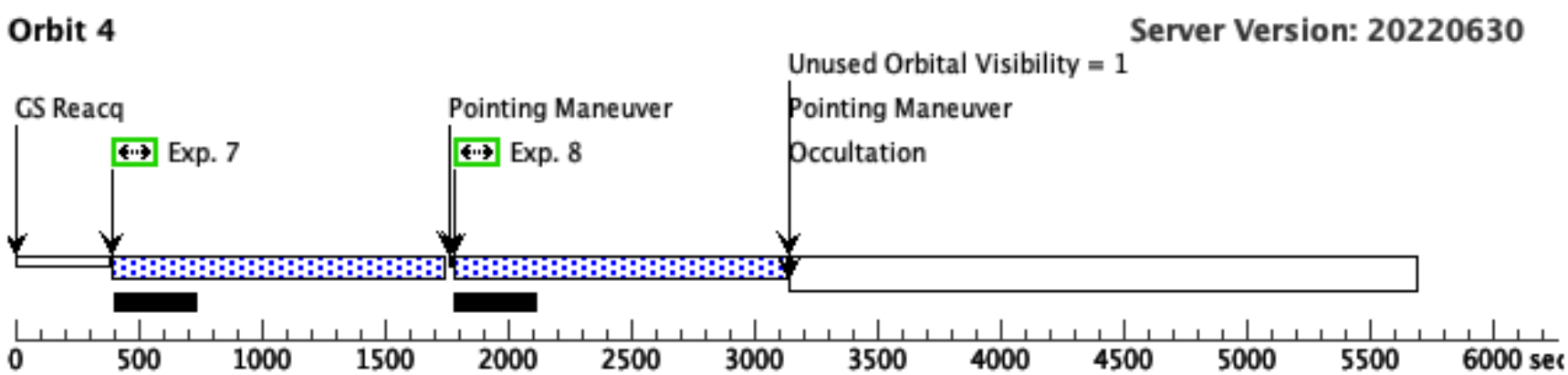
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(3) PEGDIG	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.0500,0.0500	Sequence 1-2 Non-Int in PEGDIG-02 (04)	1194 Secs (1194 Secs) *[==>]*	*[1]*
2		(3) PEGDIG	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.1154,0.3074	Sequence 1-2 Non-Int in PEGDIG-02 (04)	1194 Secs (1194 Secs) *[==>]*	*[1]*
3		(3) PEGDIG	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.1891,0.2189	Sequence 3-4 Non-Int in PEGDIG-02 (04)	1230 Secs (1230 Secs) *[==>]*	*[2]*
4		(3) PEGDIG	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.2050,0.4725	Sequence 3-4 Non-Int in PEGDIG-02 (04)	1230 Secs (1230 Secs) *[==>]*	*[2]*
5		(3) PEGDIG	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.2677,0.1357	Sequence 5-6 Non-Int in PEGDIG-02 (04)	1230 Secs (1230 Secs) *[==>]*	*[3]*
6		(3) PEGDIG	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.3281,0.3927	Sequence 5-6 Non-Int in PEGDIG-02 (04)	1230 Secs (1230 Secs) *[==>]*	*[3]*
7		(3) PEGDIG	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.3914,0.2044	Sequence 7-8 Non-Int in PEGDIG-02 (04)	1230 Secs (1230 Secs) *[==>]*	*[4]*
8		(3) PEGDIG	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.4067,0.3095	Sequence 7-8 Non-Int in PEGDIG-02 (04)	1230 Secs (1230 Secs) *[==>]*	*[4]*
9		(3) PEGDIG	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.4716,0.4678	Sequence 9-10 Non-Int in PEGDIG-02 (04)	1230 Secs (1230 Secs) *[==>]*	*[5]*
10		(3) PEGDIG	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.5302,0.2787	Sequence 9-10 Non-Int in PEGDIG-02 (04)	1230 Secs (1230 Secs) *[==>]*	*[5]*

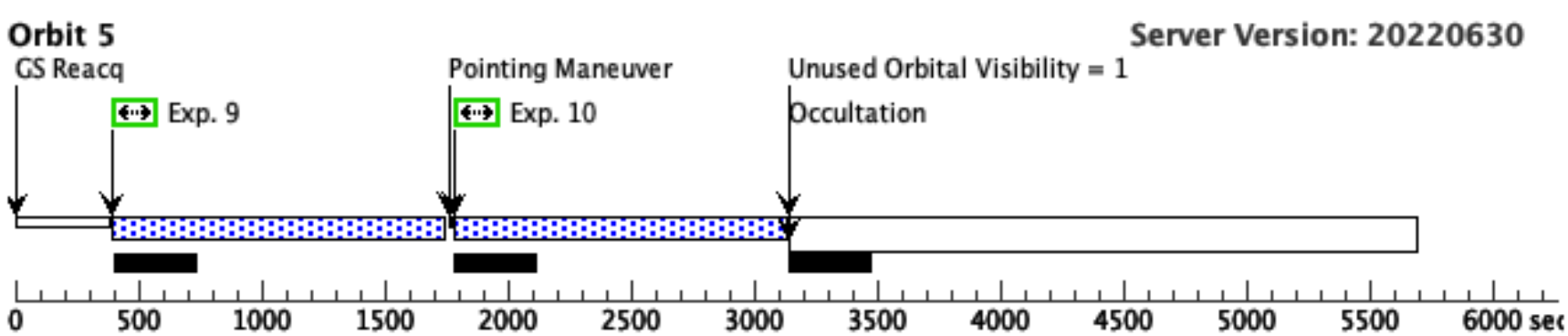
Orbit Structure






Orbit 3
Server Version: 20220630
Pointing Maneuver
GS Reacq
Pointing Maneuver
Unused Orbital Visibility = 1
Exp. 5
Exp. 6
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 4
Server Version: 20220630
Unused Orbital Visibility = 1
GS Reacq
Pointing Maneuver
Pointing Maneuver
Exp. 7
Exp. 8
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 5
Server Version: 20220630
GS Reacq
Pointing Maneuver
Unused Orbital Visibility = 1
Exp. 9
Exp. 10
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17174, AQUARIUS-01 (05), implementation Fri Apr 28 18:00:23 GMT 2023

Diagnostic Status: No Diagnostics

Scientific Instruments: ACS/WFC

Special Requirements: ORIENT 229.02D TO 229.02 D; GROUP 05,06 WITHIN 30D

Fixed Targets

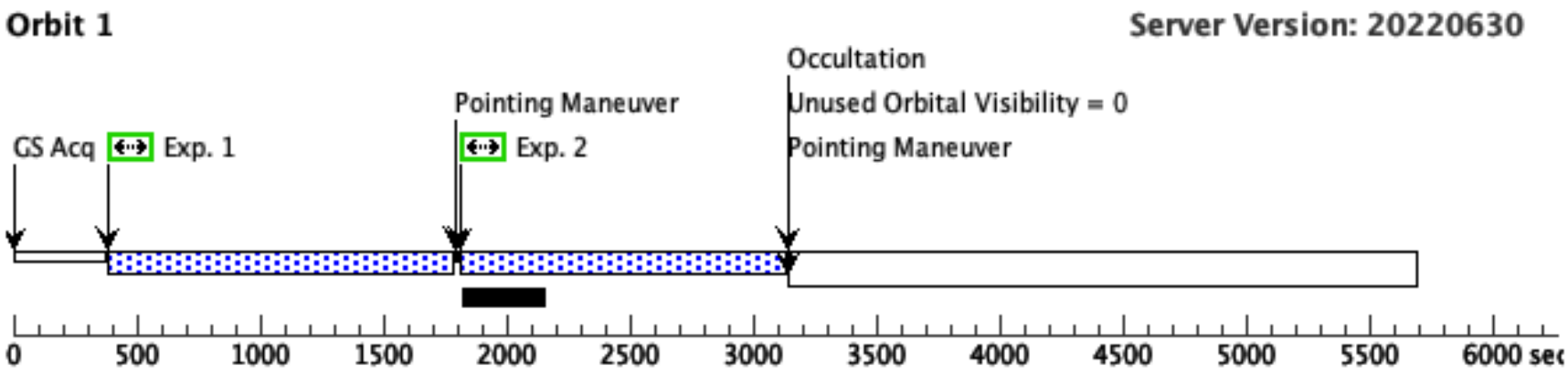
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	AQUARIUS-DWARF	RA: 20 46 51.6615 (311.7152562d) Dec: -12 50 51.00 (-12.84750d) Equinox: J2000	Epoch of Position: 2015.5	V=14.83	Reference Frame: SIMBAD

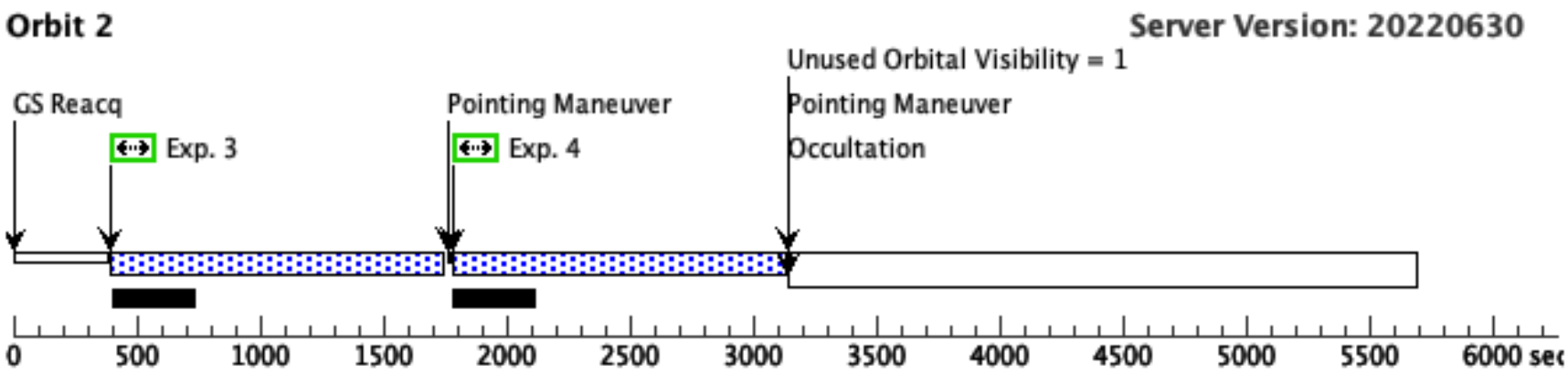
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[DWARF ELLIPTICAL, DWARF SPHEROIDAL]

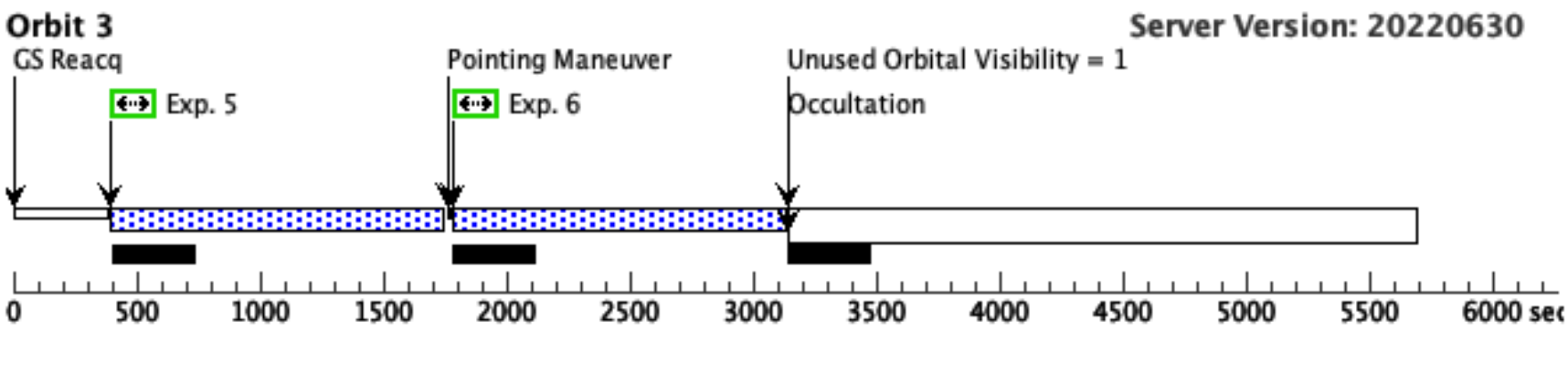
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(2) AQUARIUS-DWARF	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.0000,0.0000	Sequence 1-2 Non-Int in AQUARIUS-01 (05)	1194 Secs (1194 Secs) *[==>]*	*[1]*
2		(2) AQUARIUS-DWARF	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.1740,0.1850	Sequence 1-2 Non-Int in AQUARIUS-01 (05)	1194 Secs (1194 Secs) *[==>]*	*[1]*
3		(2) AQUARIUS-DWARF	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.3232,0.1235	Sequence 3-4 Non-Int in AQUARIUS-01 (05)	1230 Secs (1230 Secs) *[==>]*	*[2]*
4		(2) AQUARIUS-DWARF	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.1005,0.3305	Sequence 3-4 Non-Int in AQUARIUS-01 (05)	1230 Secs (1230 Secs) *[==>]*	*[2]*
5		(2) AQUARIUS-DWARF	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.5030,0.0460	Sequence 5-6 Non-Int in AQUARIUS-01 (05)	1230 Secs (1230 Secs) *[==>]*	*[3]*
6		(2) AQUARIUS-DWARF	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.6770,0.2310	Sequence 5-6 Non-Int in AQUARIUS-01 (05)	1230 Secs (1230 Secs) *[==>]*	*[3]*

Orbit Structure







Visit

Proposal 17174, AQUARIUS-02 (06), implementation Fri Apr 28 18:00:23 GMT 2023

Diagnostic Status: No Diagnostics

Scientific Instruments: ACS/WFC

Special Requirements: SAME ORIENT AS 05; GROUP 06,05 WITHIN 30D

Fixed Targets

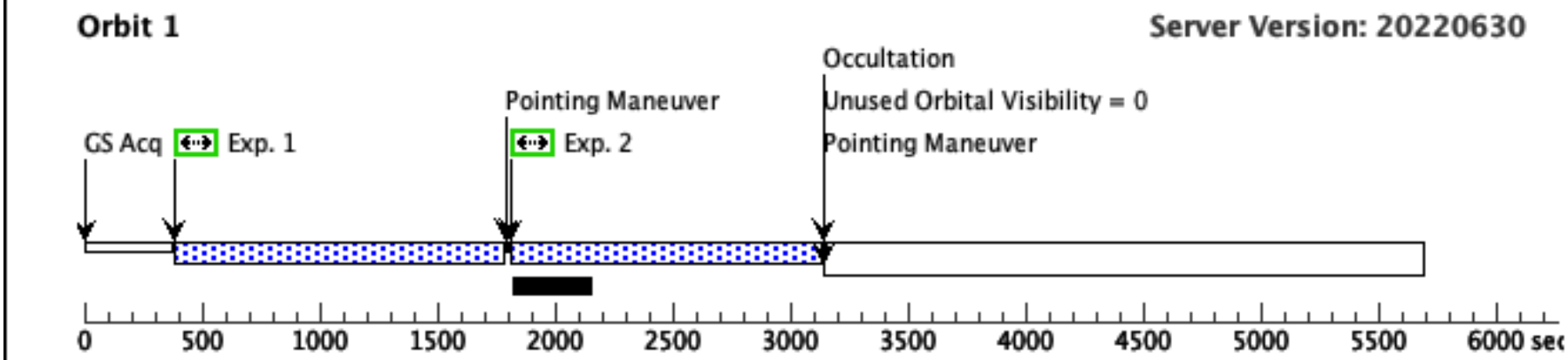
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	AQUARIUS-DWARF	RA: 20 46 51.6615 (311.7152562d) Dec: -12 50 51.00 (-12.84750d) Equinox: J2000	Epoch of Position: 2015.5	V=14.83	Reference Frame: SIMBAD

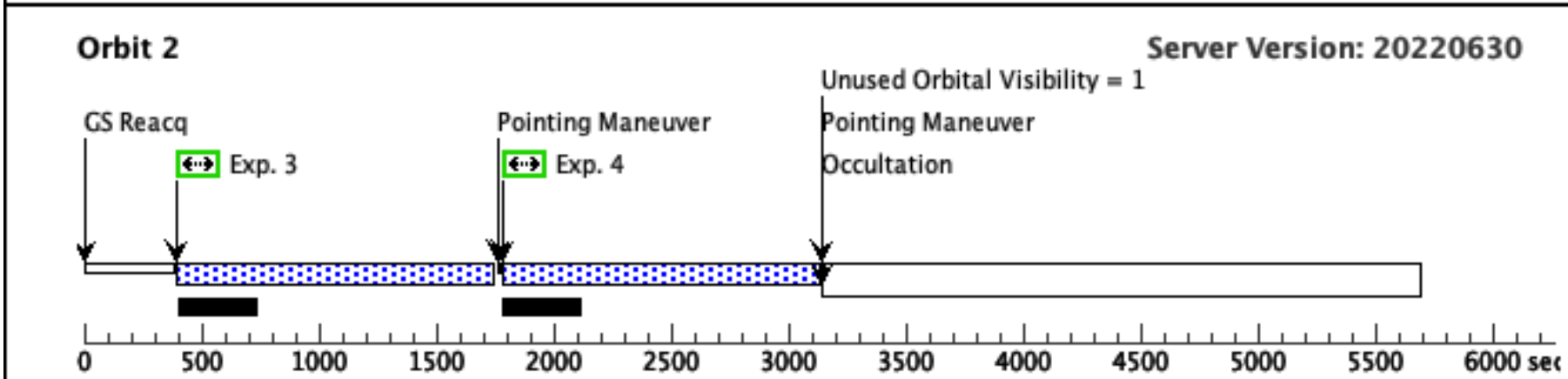
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[DWARF ELLIPTICAL, DWARF SPHEROIDAL]

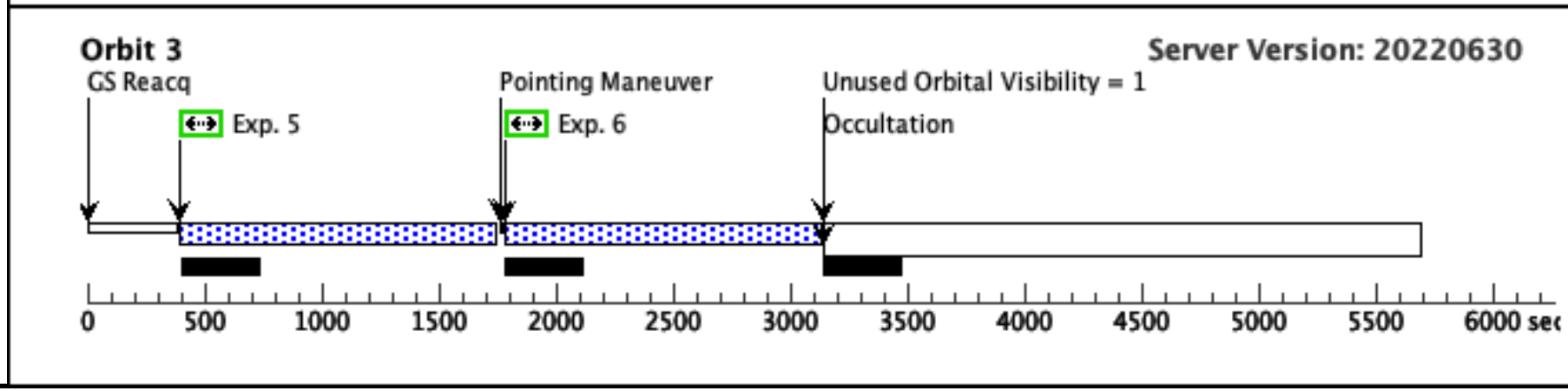
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(2) AQUARIUS-DWARF	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.8262,0.1695	Sequence 1-2 Non-Int in AQUARIUS-02 (06)	1194 Secs (1194 Secs) *[==>]*	*[1]*
2		(2) AQUARIUS-DWARF	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.6035,0.3765	Sequence 1-2 Non-Int in AQUARIUS-02 (06)	1194 Secs (1194 Secs) *[==>]*	*[1]*
3		(2) AQUARIUS-DWARF	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.1180,0.5180	Sequence 3-4 Non-Int in AQUARIUS-02 (06)	1230 Secs (1230 Secs) *[==>]*	*[2]*
4		(2) AQUARIUS-DWARF	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.2920,0.7030	Sequence 3-4 Non-Int in AQUARIUS-02 (06)	1230 Secs (1230 Secs) *[==>]*	*[2]*
5		(2) AQUARIUS-DWARF	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.4412,0.6415	Sequence 5-6 Non-Int in AQUARIUS-02 (06)	1230 Secs (1230 Secs) *[==>]*	*[3]*
6		(2) AQUARIUS-DWARF	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.2185,0.8485	Sequence 5-6 Non-Int in AQUARIUS-02 (06)	1230 Secs (1230 Secs) *[==>]*	*[3]*

Orbit Structure







Visit

Proposal 17174, LEO-T-01 (07), implementation Fri Apr 28 18:00:23 GMT 2023

Diagnostic Status: No Diagnostics

Scientific Instruments: ACS/WFC

Special Requirements: ORIENT 279.0D TO 279.0 D; GROUP 07,08 WITHIN 30D

Fixed Targets

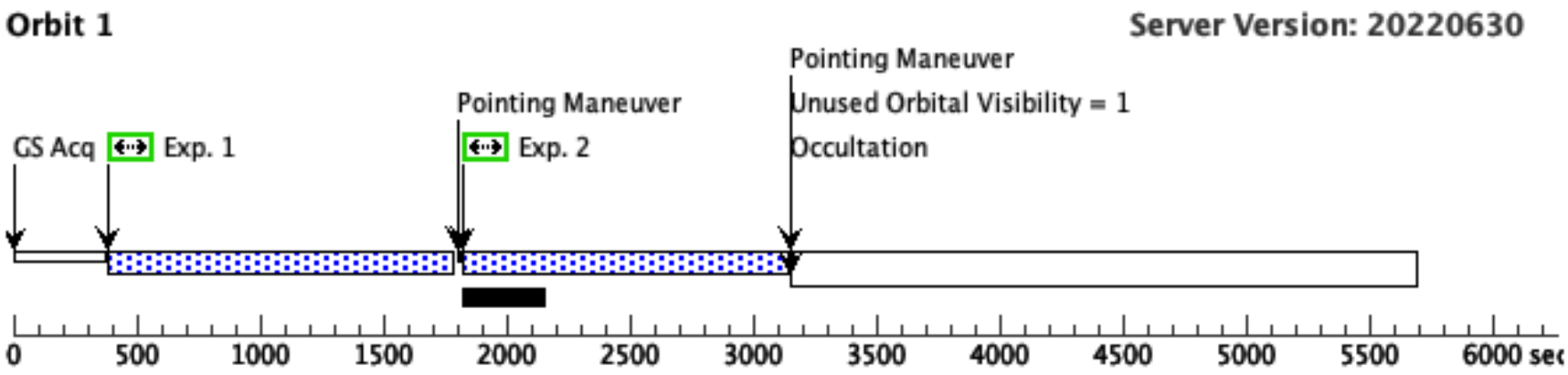
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	LEO-T	RA: 09 34 53.5593 (143.7231637d) Dec: +17 02 44.56 (17.04571d) Equinox: J2000	Epoch of Position: 2015.5	V=15.1	Reference Frame: SIMBAD

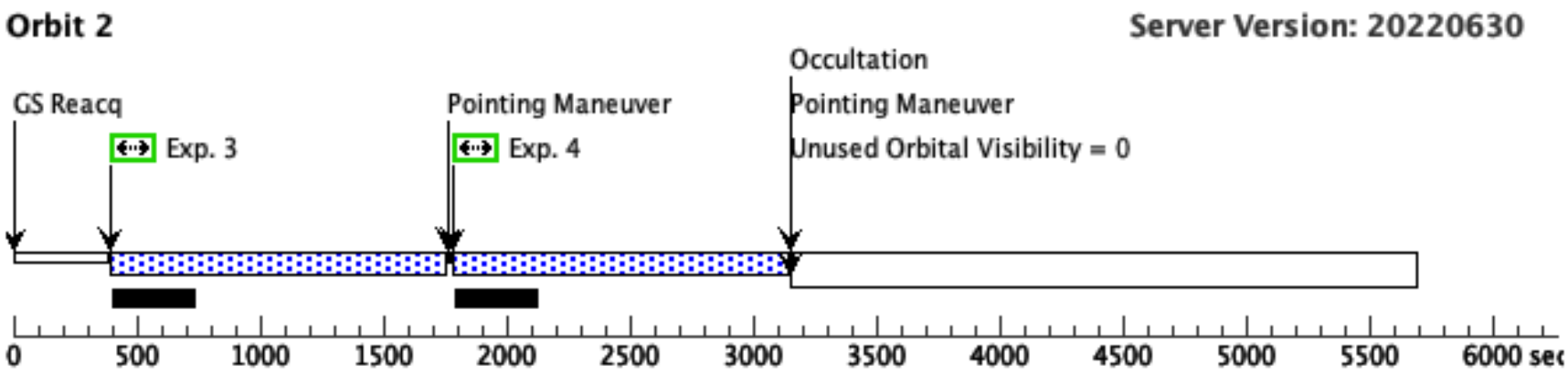
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=GALAXY
Description=[DWARF ELLIPTICAL, DWARF SPHEROIDAL]

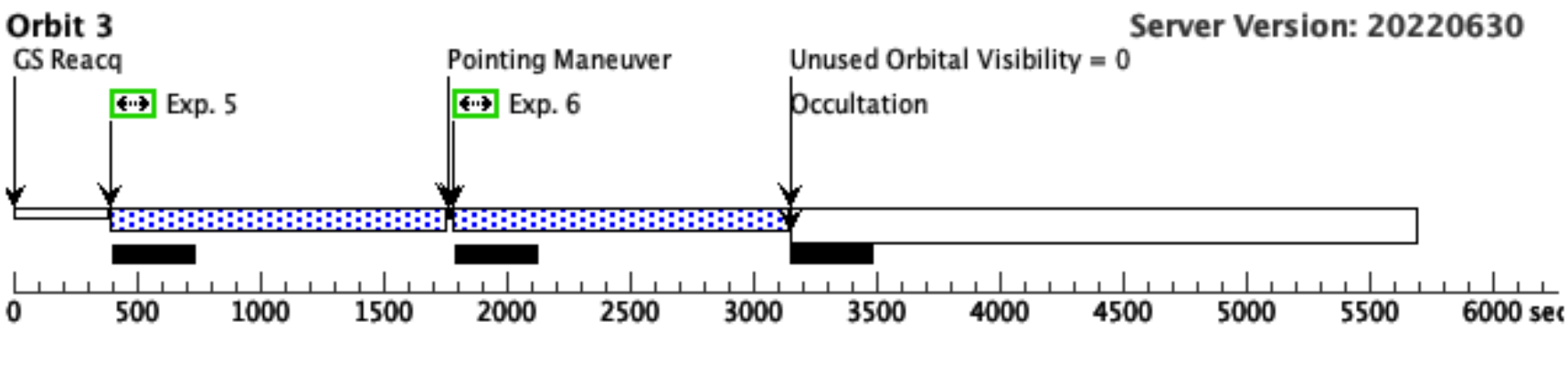
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(4) LEO-T	ACS/WFC, ACCUM, WFCENTER	F606W		POS TARG 0.0000,0.0000	Sequence 1-2 Non-Int in LEO-T-01 (07)	1197 Secs (1197 Secs) *[==>]*	***[1]***
2		(4) LEO-T	ACS/WFC, ACCUM, WFCENTER	F606W		POS TARG 0.1740,0.1850	Sequence 1-2 Non-Int in LEO-T-01 (07)	1197 Secs (1197 Secs) *[==>]*	***[1]***
3		(4) LEO-T	ACS/WFC, ACCUM, WFCENTER	F606W		POS TARG 0.3232,0.1235	Sequence 3-4 Non-Int in LEO-T-01 (07)	1234 Secs (1234 Secs) *[==>]*	***[2]***
4		(4) LEO-T	ACS/WFC, ACCUM, WFCENTER	F606W		POS TARG 0.1005,0.3305	Sequence 3-4 Non-Int in LEO-T-01 (07)	1234 Secs (1234 Secs) *[==>]*	***[2]***
5		(4) LEO-T	ACS/WFC, ACCUM, WFCENTER	F606W		POS TARG 0.5030,0.0460	Sequence 5-6 Non-Int in LEO-T-01 (07)	1234 Secs (1234 Secs) *[==>]*	***[3]***
6		(4) LEO-T	ACS/WFC, ACCUM, WFCENTER	F606W		POS TARG 0.6770,0.2310	Sequence 5-6 Non-Int in LEO-T-01 (07)	1234 Secs (1234 Secs) *[==>]*	***[3]***

Orbit Structure







Visit

Proposal 17174, LEO-T-02 (08), implementation Fri Apr 28 18:00:23 GMT 2023

Diagnostic Status: No Diagnostics

Scientific Instruments: ACS/WFC

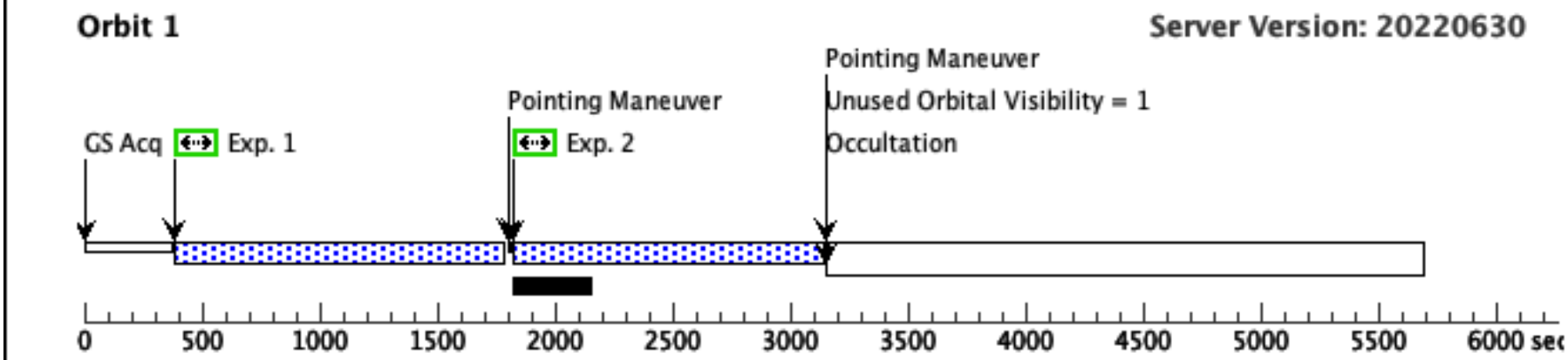
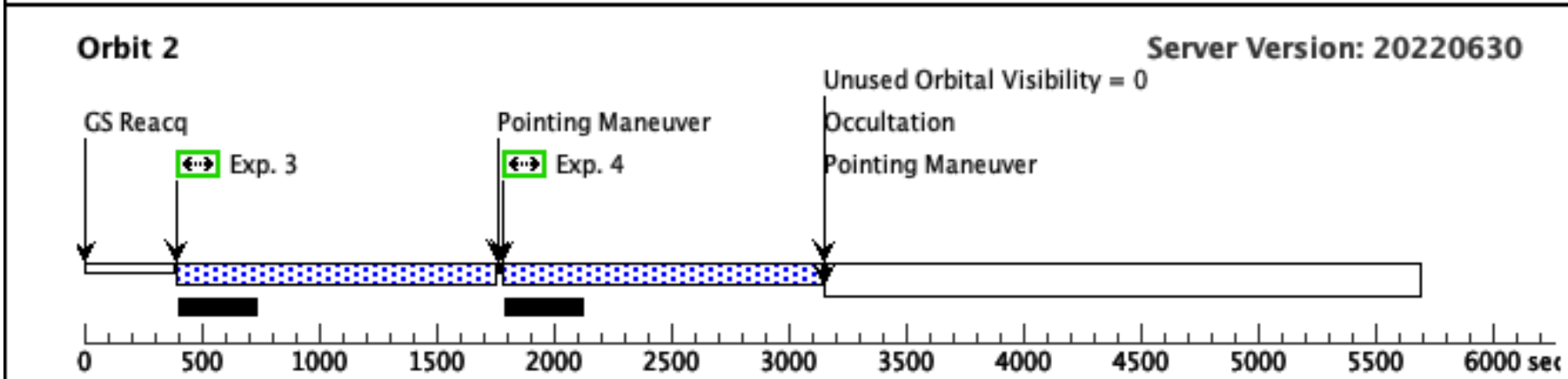
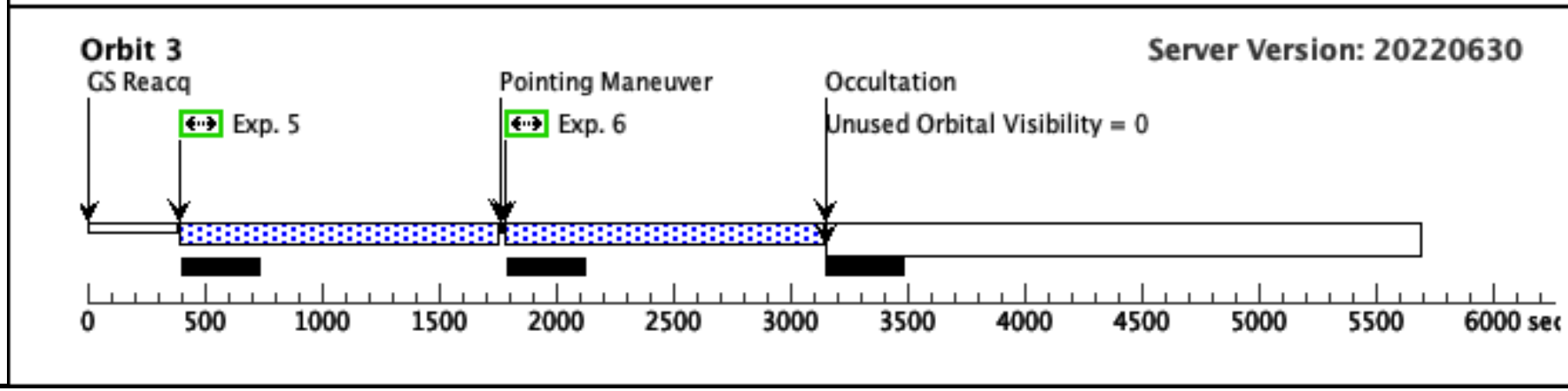
Special Requirements: SAME ORIENT AS 07; GROUP 08,07 WITHIN 30D

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	LEO-T	RA: 09 34 53.5593 (143.7231637d) Dec: +17 02 44.56 (17.04571d) Equinox: J2000	Epoch of Position: 2015.5	V=15.1	Reference Frame: SIMBAD

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

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(4) LEO-T	ACS/WFC, ACCUM, WFCENTER	F606W		POS TARG 0.8262,0.1695	Sequence 1-2 Non-Int in LEO-T-02 (08)	1197 Secs (1197 Secs) *[==>]*	***[1]***
2		(4) LEO-T	ACS/WFC, ACCUM, WFCENTER	F606W		POS TARG 0.6035,0.3765	Sequence 1-2 Non-Int in LEO-T-02 (08)	1197 Secs (1197 Secs) *[==>]*	***[1]***
3		(4) LEO-T	ACS/WFC, ACCUM, WFCENTER	F606W		POS TARG 0.1180,0.5180	Sequence 3-4 Non-Int in LEO-T-02 (08)	1234 Secs (1234 Secs) *[==>]*	***[2]***
4		(4) LEO-T	ACS/WFC, ACCUM, WFCENTER	F606W		POS TARG 0.2920,0.7030	Sequence 3-4 Non-Int in LEO-T-02 (08)	1234 Secs (1234 Secs) *[==>]*	***[2]***
5		(4) LEO-T	ACS/WFC, ACCUM, WFCENTER	F606W		POS TARG 0.4412,0.6415	Sequence 5-6 Non-Int in LEO-T-02 (08)	1234 Secs (1234 Secs) *[==>]*	***[3]***
6		(4) LEO-T	ACS/WFC, ACCUM, WFCENTER	F606W		POS TARG 0.2185,0.8485	Sequence 5-6 Non-Int in LEO-T-02 (08)	1234 Secs (1234 Secs) *[==>]*	***[3]***

Orbit Structure