15627 - CLUES to galaxy evolution: young star clusters as engines of galactic feedback

Cycle: 26, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

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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) M-74-YSC1	COS/FUV COS/NUV	5	23-Oct-2019 16:00:26.0	yes
02	(2) M-74-YSC2	COS/FUV COS/NUV	5	23-Oct-2019 16:00:28.0	yes
03	(3) NGC-1313-YSC1	COS/FUV COS/NUV	2	23-Oct-2019 16:00:29.0	yes
04	(4) NGC-1313-YSC2	COS/FUV COS/NUV	5	23-Oct-2019 16:00:31.0	yes
05	(5) NGC-1512-YSC1	COS/FUV COS/NUV	5	23-Oct-2019 16:00:33.0	yes
Z5	(5) NGC-1512-YSC1	COS/FUV COS/NUV	2	23-Oct-2019 16:00:34.0	yes
06	(6) NGC-1512-YSC2	COS/FUV COS/NUV	5	23-Oct-2019 16:00:36.0	yes
08	(9) NGC-1566-YSC1	COS/FUV COS/NUV	3	23-Oct-2019 16:00:37.0	yes
07	(7) NGC-1566-YSC2	COS/FUV COS/NUV	5	23-Oct-2019 16:00:40.0	yes
09	(10) M-95-YSC1	COS/FUV COS/NUV	2	23-Oct-2019 16:00:41.0	yes
10	(11) NGC-4485-YSC1	COS/FUV COS/NUV	3	23-Oct-2019 16:00:42.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
11	(12) NGC-4485-YSC2	COS/FUV COS/NUV	3	23-Oct-2019 16:00:43.0	yes
12	(13) NGC-4656-YSC1	COS/FUV COS/NUV	3	23-Oct-2019 16:00:45.0	yes
13	(14) NGC-4656-YSC2	COS/FUV COS/NUV	1	23-Oct-2019 16:00:46.0	yes
14	(15) M-51-YSC1	COS/FUV COS/NUV	2	23-Oct-2019 16:00:47.0	yes
15	(16) M-51-YSC2	COS/FUV COS/NUV	5	23-Oct-2019 16:00:49.0	yes
16	(17) NGC-7793-YSC1	COS/FUV COS/NUV	2	23-Oct-2019 16:00:50.0	yes
17	(18) NGC-7793-YSC2	COS/FUV COS/NUV	4	23-Oct-2019 16:00:52.0	yes
Z7	(18) NGC-7793-YSC2	COS/FUV COS/NUV	4	23-Oct-2019 16:00:53.0	yes

66 Total Orbits Used

ABSTRACT

As a result of the unmatched HST capabilities, UV-optical imaging surveys are providing a complete view of the young stellar cluster (YSC) formation and evolution process in nearby galaxies. With the CLuster in the Uv as EngineS (CLUES) progam, we will take the next major step forward to probe how YSC feedback impacts the galactic interstellar medium (ISM). We propose to use young (<~10 Myr), UV bright star clusters as powerful FUV beacons to study the kinematics of the warm neutral ISM in a selected sample of galaxies, representative of the star formation in the local universe. YSCs are favored sites for massive star formation, hence carriers of radiative and mechanical feedback. Studies of the YSC populations in nearby galaxies are revealing changes in the clustering nature of star formation as a function of galactic environment. Simulations suggest that YSCs of similar mass and age may have different impacts in dwarf and spiral galaxies. CLUES will enable us to probe how variations in clustering, galactic environment, and cluster age correlate with the outflow strength and thus gather unique direct evidence of the role played by YSC feedback in galaxy evolution. The FUV spectroscopy will simultaneously produce fundamental information about the shape of the IMF, the number

of very massive stars, and the ages of the stellar populations that ignite the engines. CLUES will become a fundamental reference sample for the upcoming JWST and ELT FUV rest-frame spectroscopy of star-forming galaxies at redshifts beyond the peak of the cosmic star formation history.

OBSERVING DESCRIPTION

This program observes 17 young star clusters with COS/FUV spectroscopy. Each visit uses an ACQ/IMAGE with either MIRRORA or MIRRORB depending on the target brightness, followed by TIME-TAG observations with G130M/1291 (FP-POS 3 and 4) and G160M/1589 or G160M/1600 (FP-POS 1,2,3,4). Some visits use orient constraints to avoid contaminations from crowded fields.

To separate the ISM and stellar lines from MW lines we require to reach a minimal S/N of 8 at the continuum close to the targeted lines. Targets have been selected to have young ages (<=15 Myr), apparent magnitudes in F275W brighter than 18 mag, internal reddening below E(B-V)<=0.3 mag. Exposure times have been estimated assuming a SSP spectrum of 5 Myr normalised by the observed magnitude of the cluster in F275W. These assumptions are quite stable as the FUV slope at 1500 \AA, does not change significantly during the first 10 Myr (SB99 models). Our targets are compact with FWHM < 0.4", thus ensuring that we have enough S/N to disentangle the cluster from the surrounding area. In estimating the final exposure times, we account for the internal cluster reddening, estimated by fititng the multiband photometry, which will affect the slope of the continuum at 1500 \AA. For the faintest targets (F275w=18.0 mag) we request 2 obits in the G130M/1291 and 3 in the G160M/1600 setting, respectively. For the brightest target (F275w = 15.0 mag) we estimate that a single orbit in sufficient for the 2 settings.

Visit

Proposal 15627, NGC628-YSC1 (01), scheduling Wed Oct 23 20:00:54 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Comments: YSC in NGC628. No orientation constraints required.

Diagnostics

(NGC628-YSC1 (01)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS
(NGC628-YSC1 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(NGC628-YSC1 (01)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
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(NGC628-YSC1 (01)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE

Fixed Targets

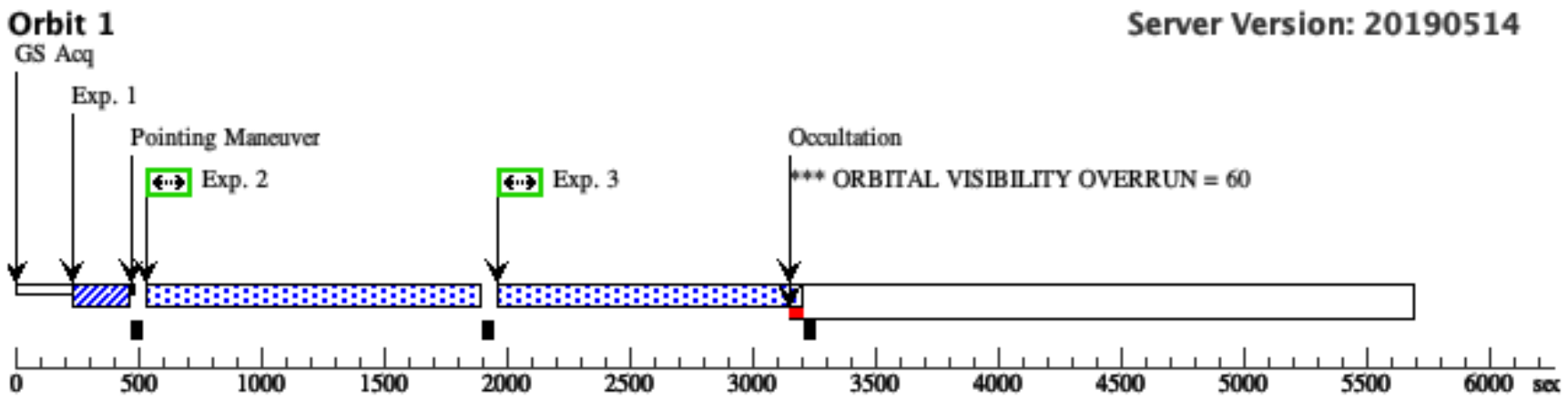
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	M-74-YSC1	RA: 01 36 37.6450 (24.1568542d)		V=19.7	Reference Frame: SIMBAD
		Dec: +15 45 8.65 (15.75240d)		18.0 (F275W)	
		Equinox: J2000			

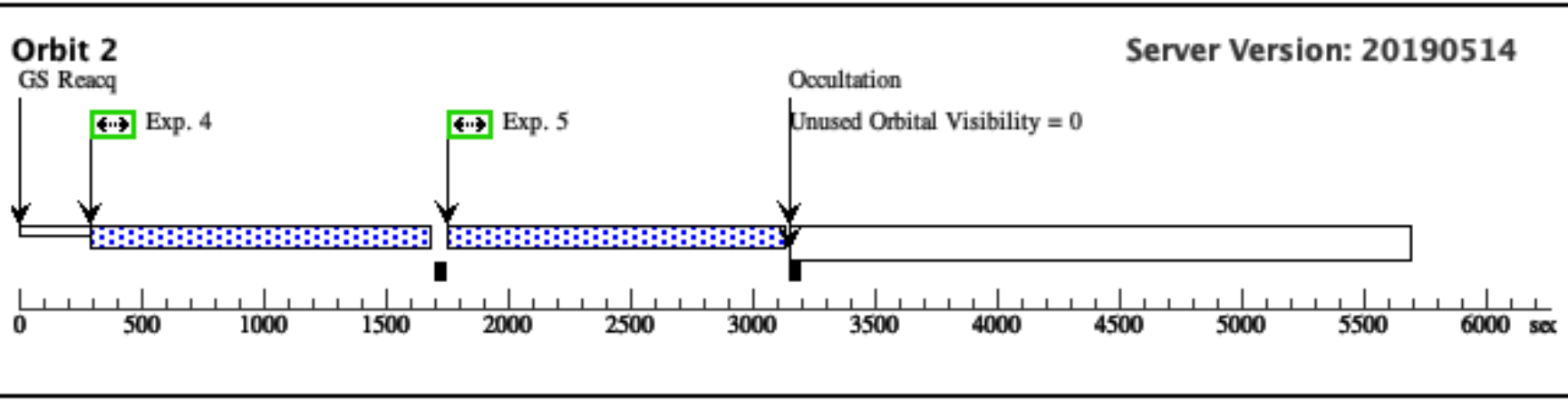
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[STAR FORMING REGION]
Extended=NO

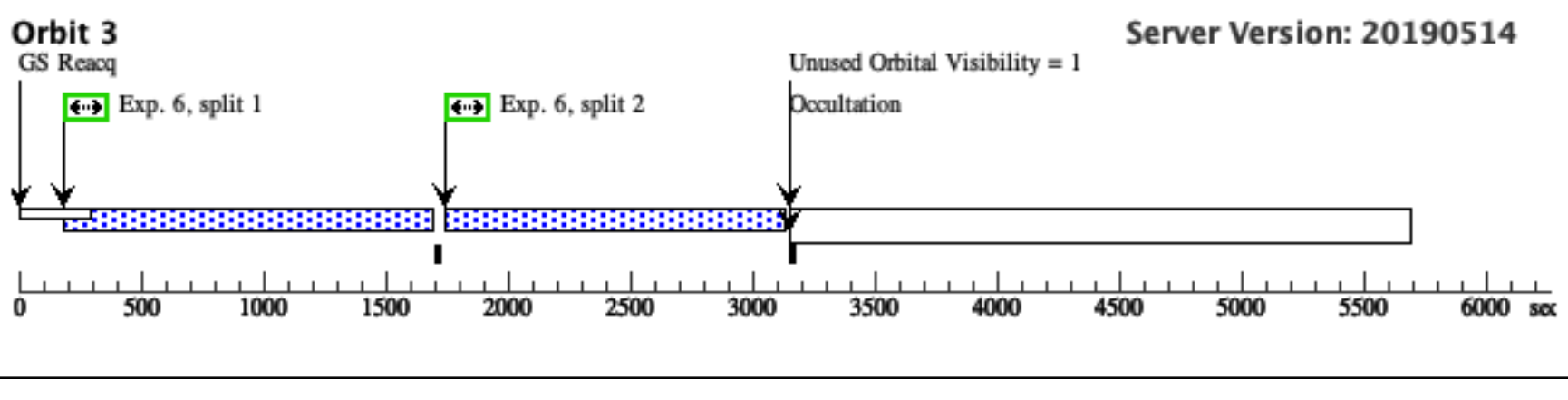
Exposures

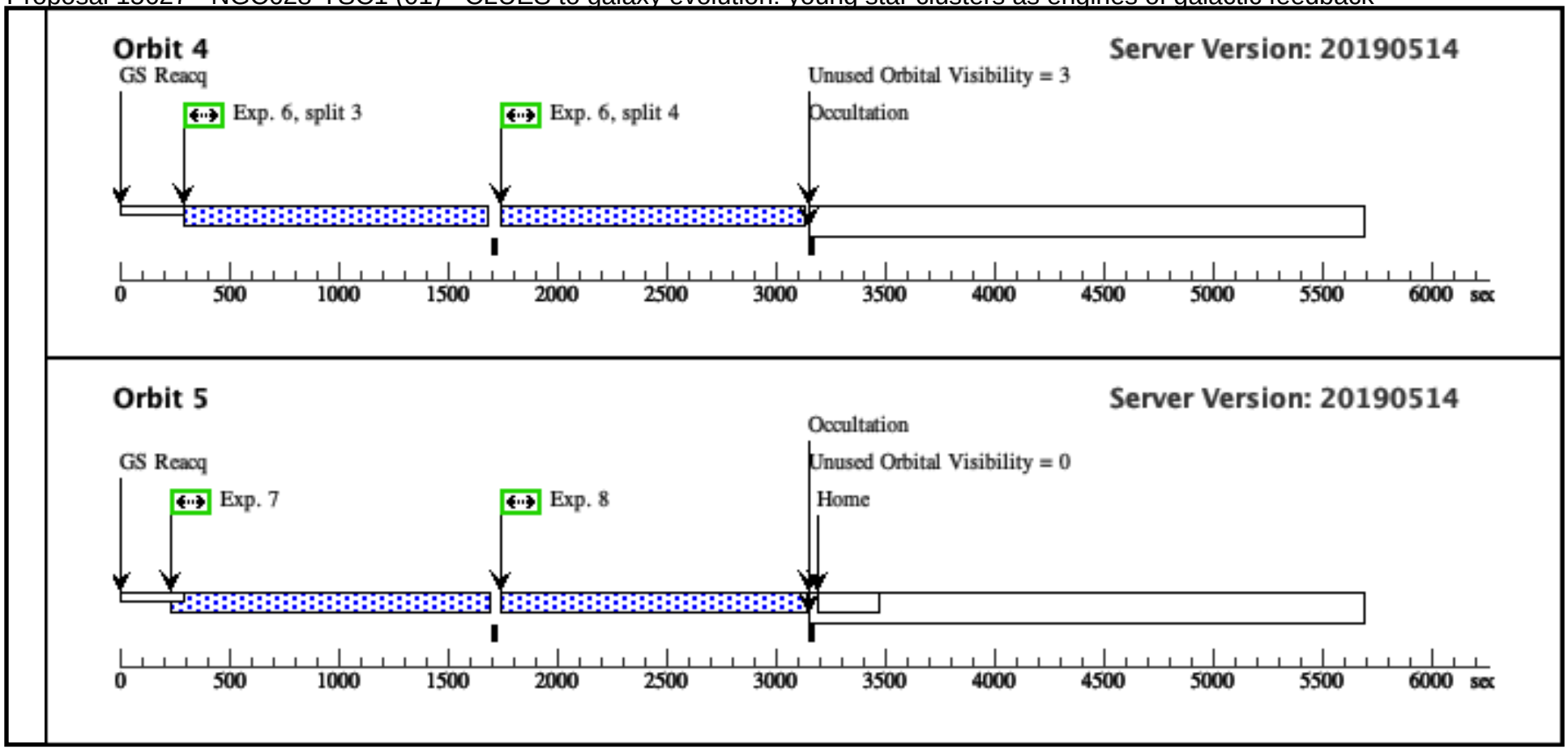
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ-M74-YSC1 (1299833)	(1) M-74-YSC1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				5.4 Secs (5.4 Secs) *[==>]*	***[1]***
2	M74-YSC1 (1299839)	(1) M-74-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; FP-POS=3; BUFFER-TIME=4912			1189 Secs (1189 Secs) *[==>]*	***[1]***
3	M74-YSC1 (1299839)	(1) M-74-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; FP-POS=3; BUFFER-TIME=4912			1189 Secs (1189 Secs) *[==>]*	***[1]***
4	M74-YSC1 (1299839)	(1) M-74-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; FP-POS=4; BUFFER-TIME=4912			1334 Secs (1334 Secs) *[==>]*	***[2]***
5	M74-YSC1 (1299839)	(1) M-74-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; FP-POS=4; BUFFER-TIME=4912			1335 Secs (1335 Secs) *[==>]*	***[2]***
6	M74-YSC1 (1299850)	(1) M-74-YSC1	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FLASH=YES; FP-POS=ALL; BUFFER-TIME=21220			1341 Secs (5364 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[3]*** ***[4]***
7	M74-YSC1 (1299850)	(1) M-74-YSC1	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FLASH=YES; FP-POS=3; BUFFER-TIME=21220			1340 Secs (1340 Secs) *[==>]*	***[5]***
8	M74-YSC1 (1299850)	(1) M-74-YSC1	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FLASH=YES; FP-POS=4; BUFFER-TIME=21220			1345 Secs (1345 Secs) *[==>]*	***[5]***

Orbit Structure








Orbit 4
Server Version: 20190514
GS Reacq
Exp. 6, split 3
Exp. 6, split 4
Unused Orbital Visibility = 3
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec
Orbit 5
Server Version: 20190514
Occultation
GS Reacq
Unused Orbital Visibility = 0
Exp. 7
Exp. 8
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15627, NGC628-YSC2 (02), scheduling Wed Oct 23 20:00:54 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Comments: YSC in NGC628. No orientation constraints required.

Diagnostics

(NGC628-YSC2 (02)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS
(NGC628-YSC2 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(NGC628-YSC2 (02)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
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(NGC628-YSC2 (02)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE

Fixed Targets

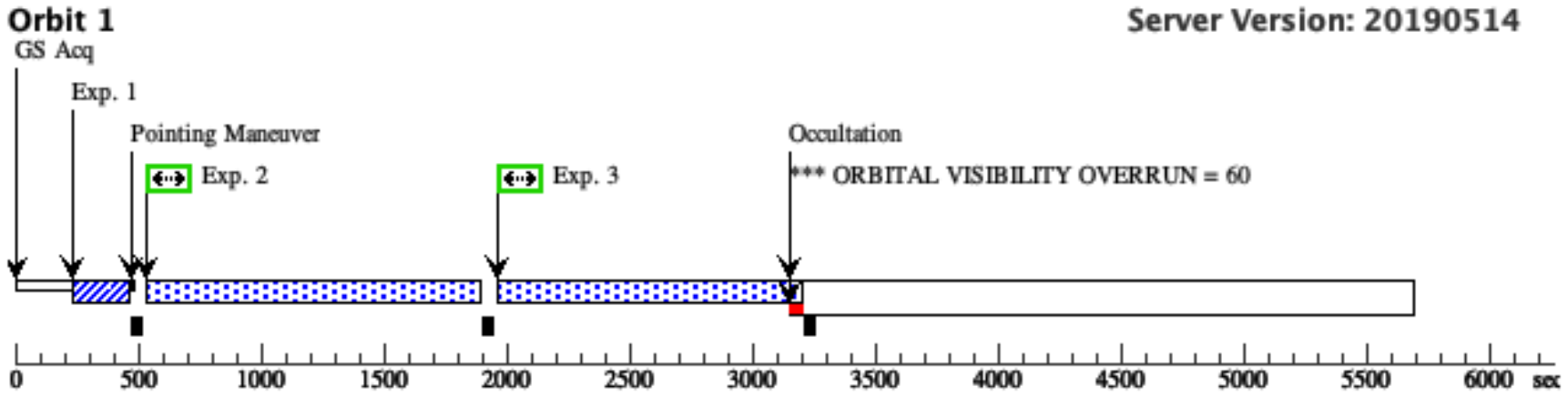
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	M-74-YSC2	RA: 01 36 47.4864 (24.1978600d)		V=19.6	Reference Frame: SIMBAD
		Dec: +15 46 26.85 (15.77413d)		18.0 (F275W)	
		Equinox: J2000			

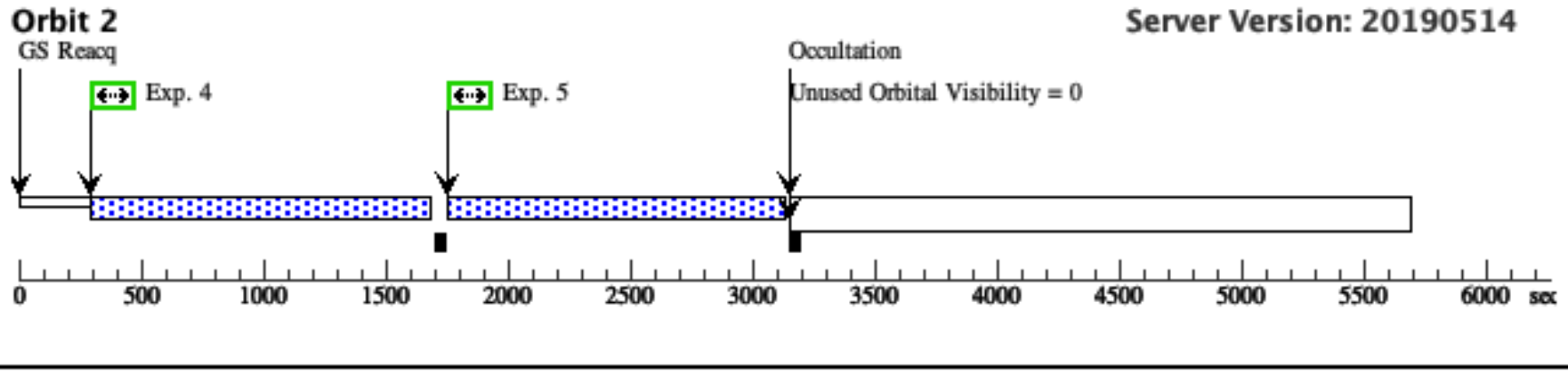
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[STAR FORMING REGION]
Extended=NO

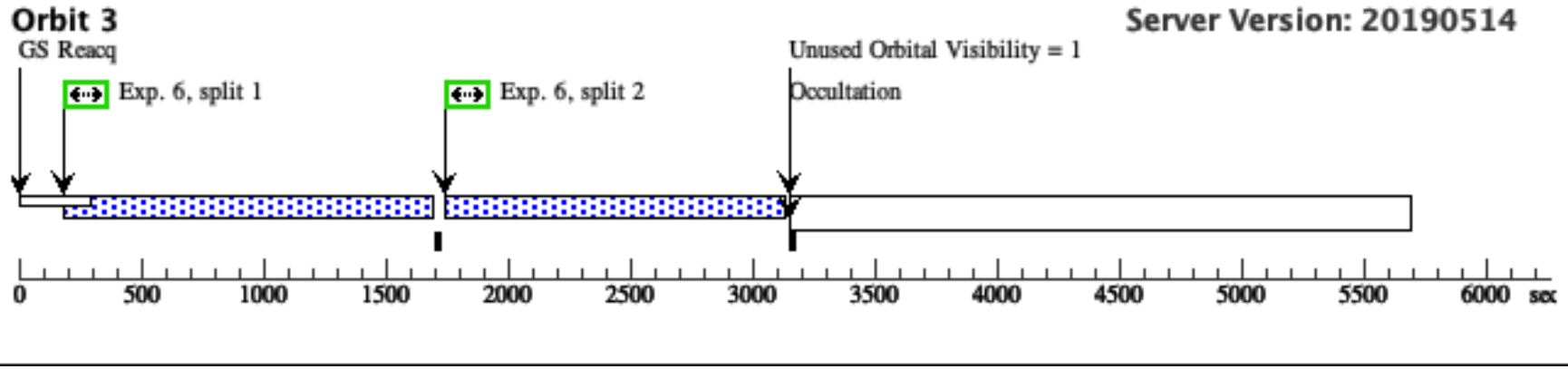
Exposures

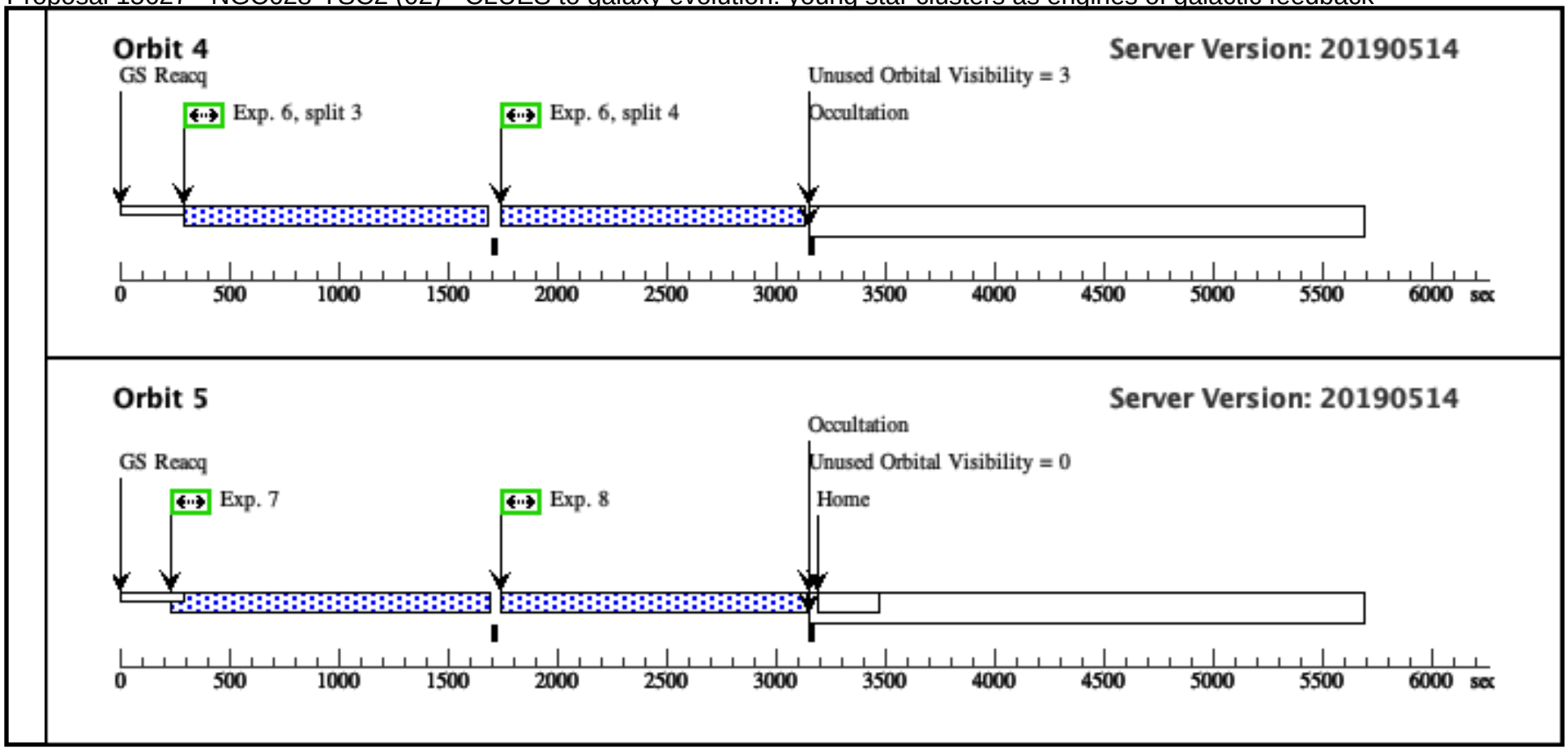
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ-M74-YSC2 (1299833)	(2) M-74-YSC2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				5.4 Secs (5.4 Secs) *[==>]*	 ***[1]***
2	M74-YSC2 (1301646)	(2) M-74-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; FP-POS=3; BUFFER-TIME=50 30			1189 Secs (1189 Secs) *[==>]*	 ***[1]***
3	M74-YSC2 (1301646)	(2) M-74-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; FP-POS=3; BUFFER-TIME=50 30			1189 Secs (1189 Secs) *[==>]*	 ***[1]***
4	M74-YSC2 (1301646)	(2) M-74-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; FP-POS=4; BUFFER-TIME=50 30			1334 Secs (1334 Secs) *[==>]*	 ***[2]***
5	M74-YSC2 (1301646)	(2) M-74-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; FP-POS=4; BUFFER-TIME=50 30			1335 Secs (1335 Secs) *[==>]*	 ***[2]***
6	M74-YSC2 (1301651)	(2) M-74-YSC2	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FLASH=YES; FP-POS=ALL; BUFFER-TIME=21 681			1341 Secs (5364 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	 ***[3]*** ***[4]***
7	M74-YSC2 (1301651)	(2) M-74-YSC2	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FLASH=YES; FP-POS=3; BUFFER-TIME=21 681			1339 Secs (1339 Secs) *[==>]*	 ***[5]***
8	M74-YSC1 (1301651)	(2) M-74-YSC2	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FLASH=YES; FP-POS=4; BUFFER-TIME=21 681			1346 Secs (1346 Secs) *[==>]*	 ***[5]***

Orbit Structure








Orbit 4
Server Version: 20190514
GS Reacq
Exp. 6, split 3
Exp. 6, split 4
Unused Orbital Visibility = 3
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec
Orbit 5
Server Version: 20190514
Occultation
GS Reacq
Unused Orbital Visibility = 0
Exp. 7
Exp. 8
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15627, NGC1313-YSC1 (03), completed — Wed Oct 23 20:00:54 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: ORIENT 60D TO 109 D; ORIENT 230D TO 278 D

Diagnostics

(NGC1313-YSC1 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(NGC1313-YSC1 (03)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1313-YSC1 (03)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1313-YSC1 (03)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1313-YSC1 (03)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1313-YSC1 (03)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1313-YSC1 (03)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1313-YSC1 (03)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE

Fixed Targets

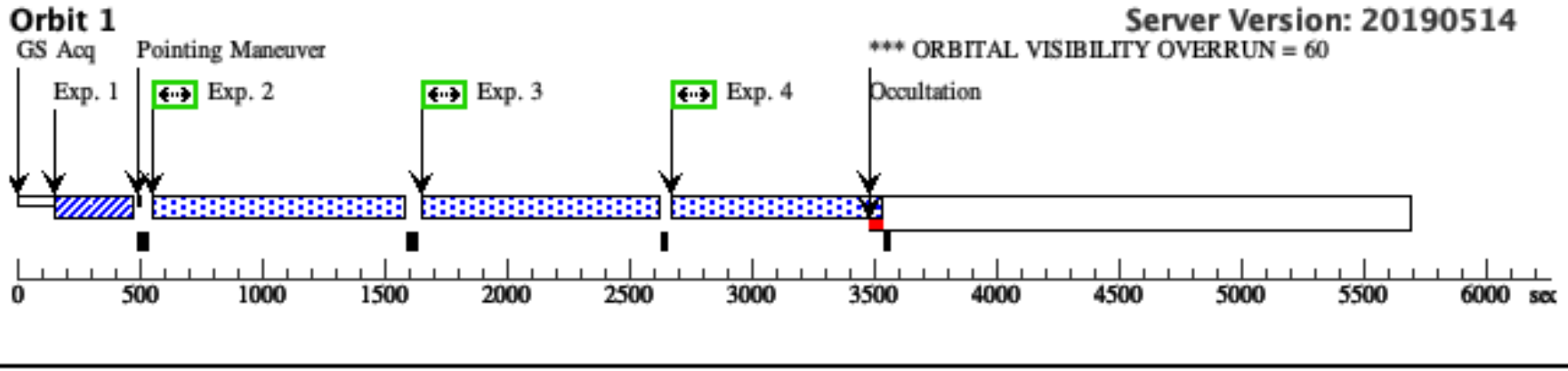
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	NGC-1313-YSC1	RA: 03 18 23.3070 (49.5971125d) Dec: -66 28 39.15 (-66.47754d) Equinox: J2000		V=17.5 16.0 (F275W)	Reference Frame: SIMBAD

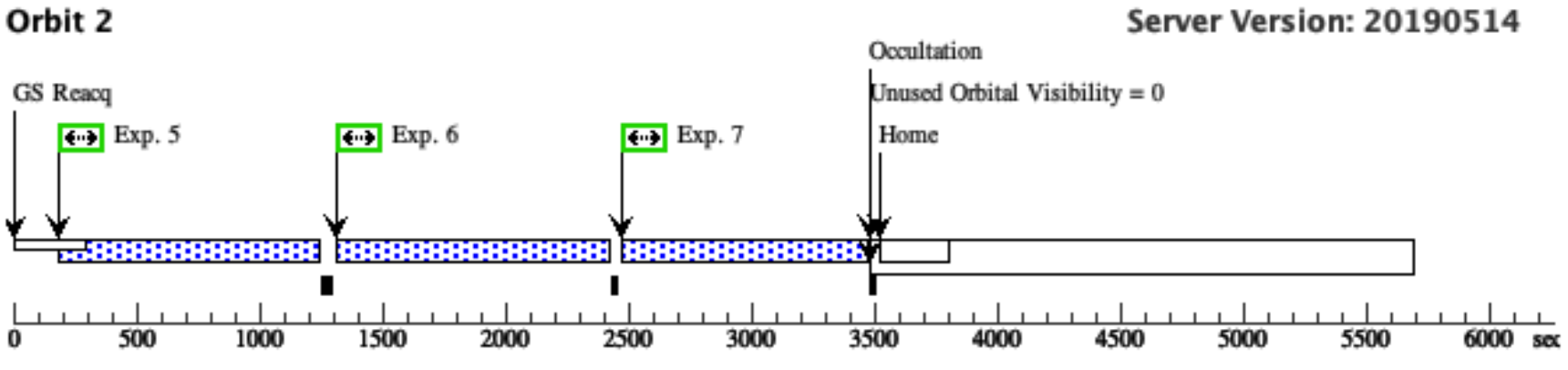
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[STAR FORMING REGION]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ_NGC1313-YSC1 (1299956)	(3) NGC-1313-YSC1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				14.5 Secs (14.5 Secs) *[==>]*	*[1]*
2	NGC1313-YSC1 (1299961)	(3) NGC-1313-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=2894; FP-POS=3			860 Secs (860 Secs) *[==>]*	*[1]*
3	NGC1313-YSC1 (1299960)	(3) NGC-1313-YSC1	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FLASH=YES; BUFFER-TIME=8727; FP-POS=3			807 Secs (807 Secs) *[==>]*	*[1]*
4	NGC1313-YSC1 (1299960)	(3) NGC-1313-YSC1	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FLASH=YES; BUFFER-TIME=8727; FP-POS=4			807 Secs (807 Secs) *[==>]*	*[1]*
5	NGC1313-YSC1 (1299961)	(3) NGC-1313-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=2894; FP-POS=4			891 Secs (891 Secs) *[==>]*	*[2]*
6	NGC1313-YSC1 (1299960)	(3) NGC-1313-YSC1	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FLASH=YES; BUFFER-TIME=8727; FP-POS=1			945 Secs (945 Secs) *[==>]*	*[2]*
7	NGC1313-YSC1 (1299960)	(3) NGC-1313-YSC1	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FLASH=YES; BUFFER-TIME=8727; FP-POS=2			945 Secs (945 Secs) *[==>]*	*[2]*

Orbit Structure





Visit

Proposal 15627, NGC1313-YSC2 (04), scheduling — Wed Oct 23 20:00:54 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Comments: No orientation constraints required.

Diagnostics

(NGC1313-YSC2 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(NGC1313-YSC2 (04)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1313-YSC2 (04)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1313-YSC2 (04)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1313-YSC2 (04)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1313-YSC2 (04)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1313-YSC2 (04)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1313-YSC2 (04)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1313-YSC2 (04)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1313-YSC2 (04)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1313-YSC2 (04)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1313-YSC2 (04)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE

Fixed Targets

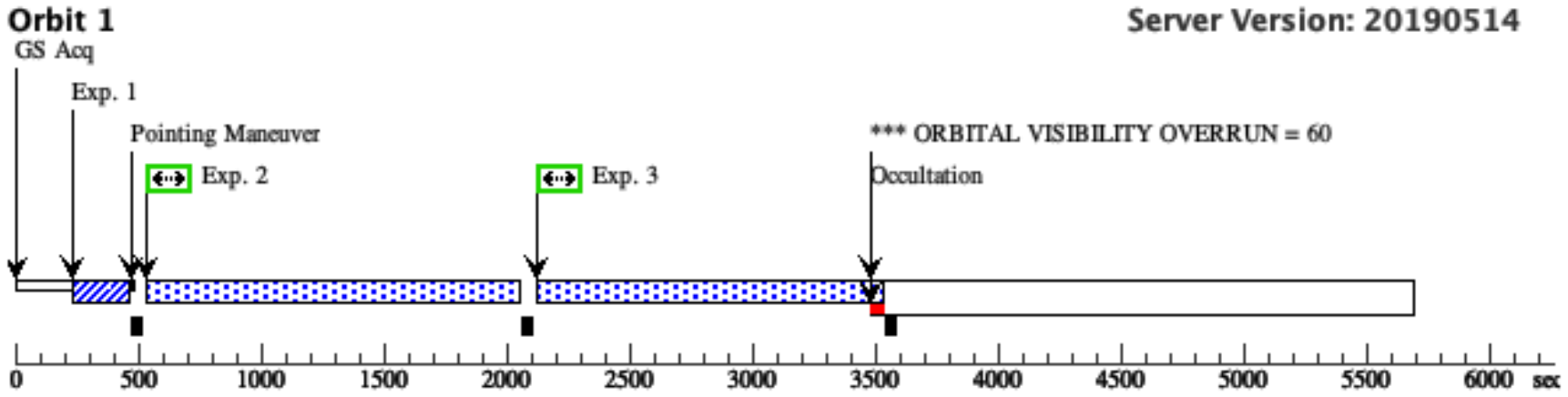
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	NGC-1313-YSC2	RA: 03 18 38.0380 (49.6584917d)		V=18.5	Reference Frame: SIMBAD
		Dec: -66 29 29.75 (-66.49160d)		17.5 (F275W)	
		Equinox: J2000			

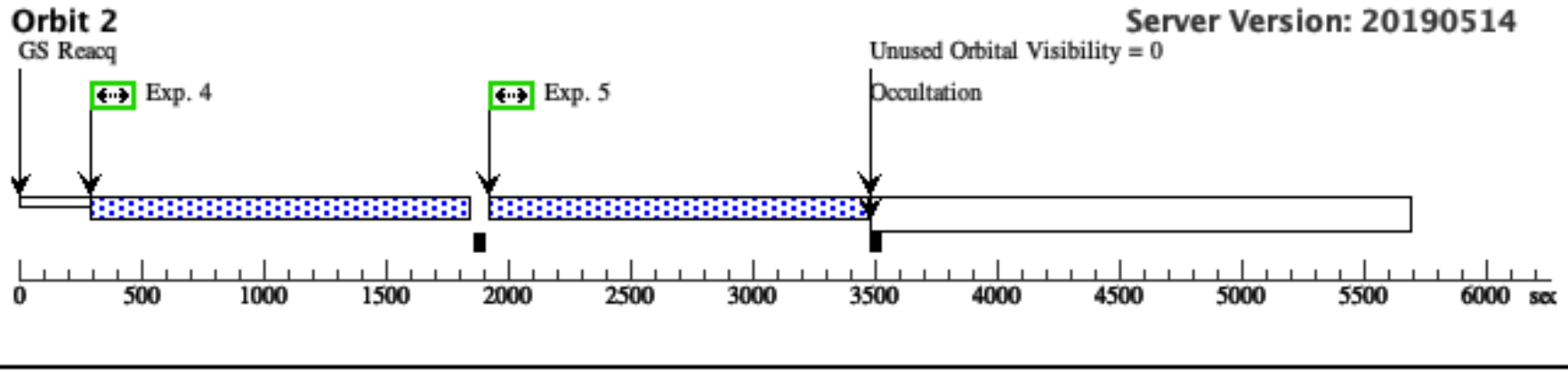
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[STAR FORMING REGION]
Extended=NO

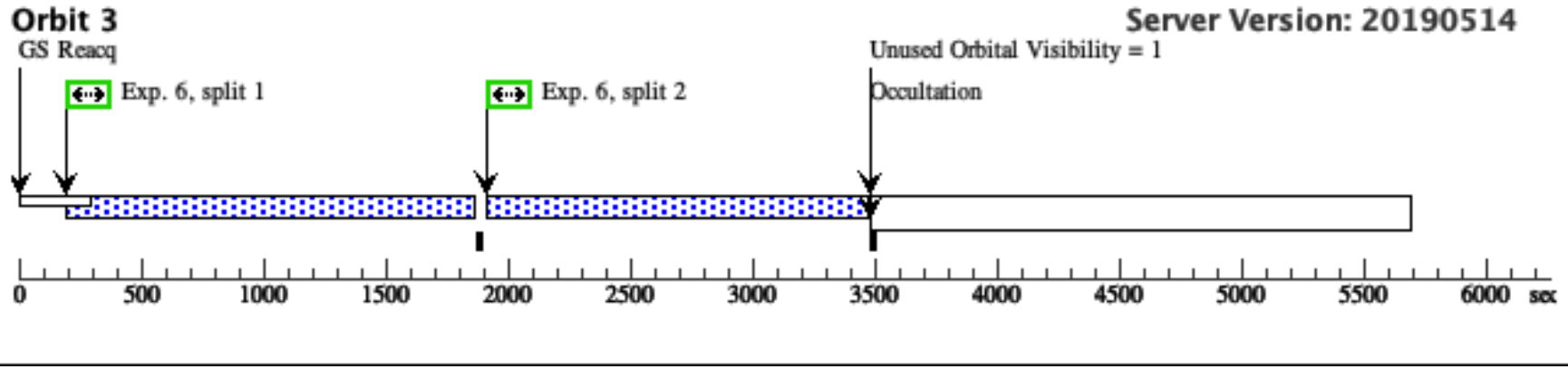
Exposures

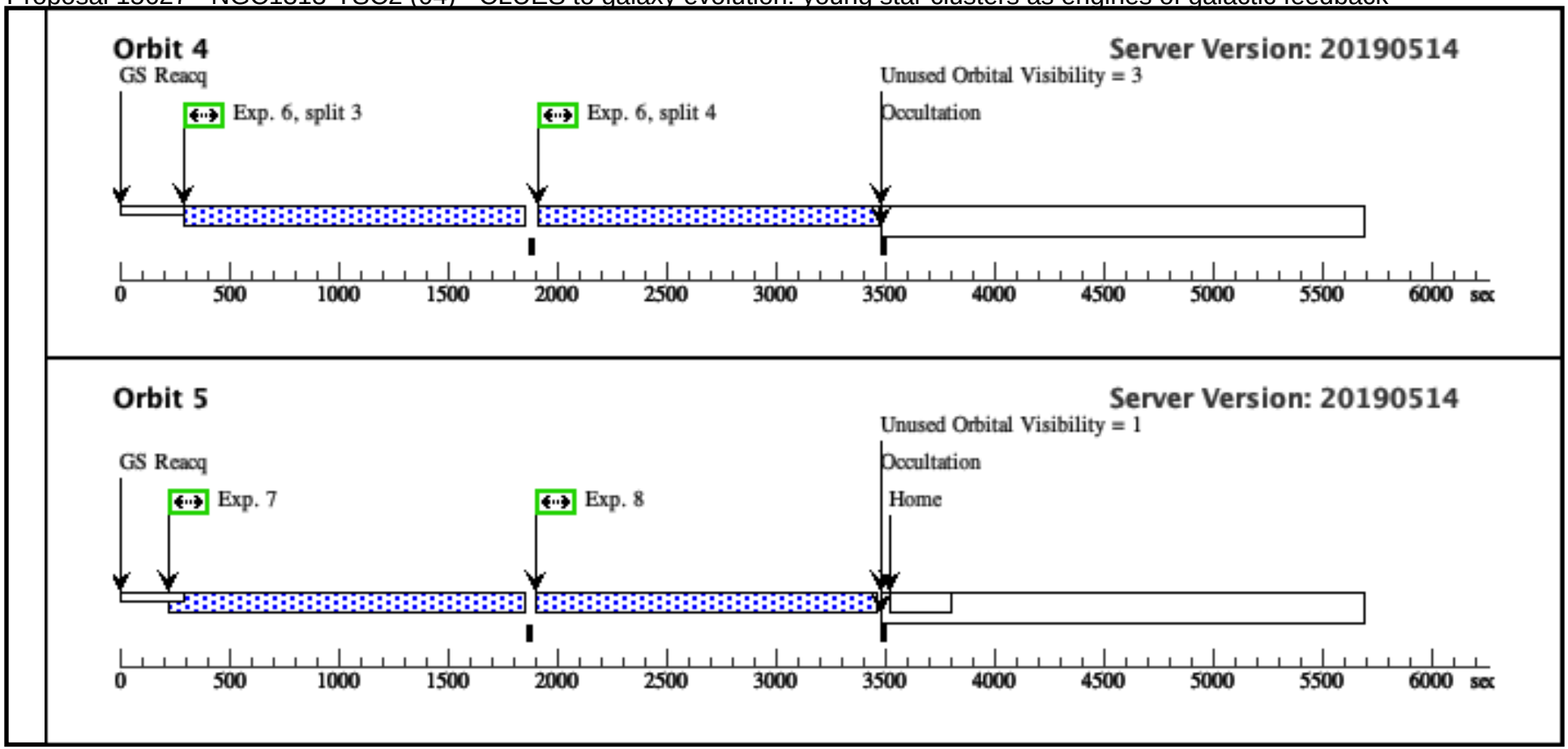
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ-NGC1313-YSC2 (1299972)	(4) NGC-1313-YSC2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				4 Secs (4 Secs) *[==>]*	*[1]*
2	(1301663)	(4) NGC-1313-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=4679; FP-POS=3			1356 Secs (1356 Secs) *[==>]*	*[1]*
3	(1301663)	(4) NGC-1313-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=4679; FP-POS=3			1356 Secs (1356 Secs) *[==>]*	*[1]*
4	(1301663)	(4) NGC-1313-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=4679; FP-POS=4			1499 Secs (1499 Secs) *[==>]*	*[2]*
5	(1301663)	(4) NGC-1313-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=4679; FP-POS=4			1500 Secs (1500 Secs) *[==>]*	*[2]*
6	(1301664)	(4) NGC-1313-YSC2	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FLASH=YES; BUFFER-TIME=1846 9; FP-POS=ALL			1506 Secs (6024 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	*[3]* *[4]*
7	NGC1313-YSC2 (1301664)	(4) NGC-1313-YSC2	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FLASH=YES; FP-POS=3; BUFFER-TIME=21681			1503 Secs (1503 Secs) *[==>]*	*[5]*
8	NGC1313-YSC2 (1301664)	(4) NGC-1313-YSC2	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FLASH=YES; FP-POS=4; BUFFER-TIME=21681			1511 Secs (1511 Secs) *[==>]*	*[5]*

Orbit Structure








Orbit 4
Server Version: 20190514
GS Reacq
Exp. 6, split 3
Exp. 6, split 4
Unused Orbital Visibility = 3
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec
Orbit 5
Server Version: 20190514
Unused Orbital Visibility = 1
GS Reacq
Exp. 7
Exp. 8
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15627, NGC1512-YSC1 (05), failed Wed Oct 23 20:00:55 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: ORIENT 66D TO 135 D; ORIENT 265D TO 304 D

Comments: Orientation required to avoid overlap in the spectral dispersion direction of the YSc with some other stars and clusters outsied but very close to the COS aperture.

Diagnostics

(NGC1512-YSC1 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(NGC1512-YSC1 (05)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1512-YSC1 (05)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1512-YSC1 (05)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1512-YSC1 (05)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1512-YSC1 (05)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1512-YSC1 (05)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1512-YSC1 (05)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1512-YSC1 (05)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1512-YSC1 (05)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1512-YSC1 (05)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1512-YSC1 (05)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	NGC-1512-YSC1	RA: 04 03 47.4340 (60.9476417d)		V=19.8	Reference Frame: SIMBAD
		Dec: -43 21 49.31 (-43.36370d)		18.0 (F275W)	
		Equinox: J2000			

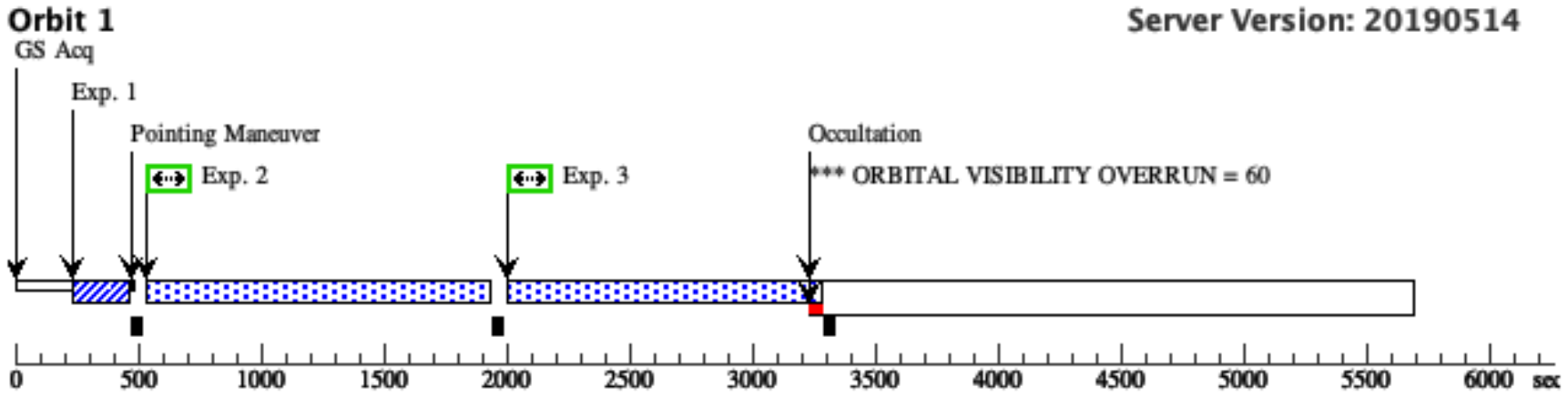
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[STAR FORMING REGION]
Extended=NO

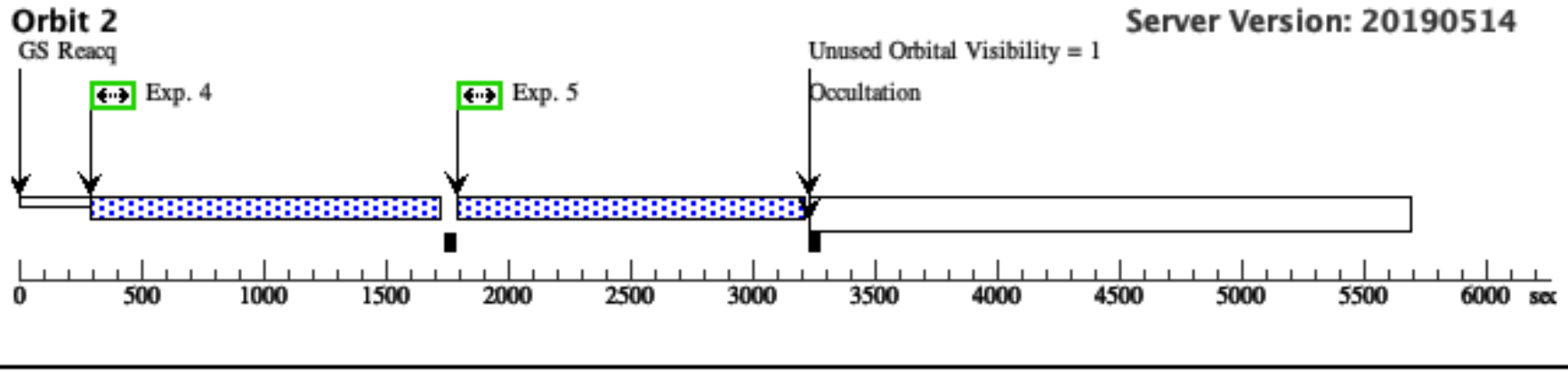
Exposures

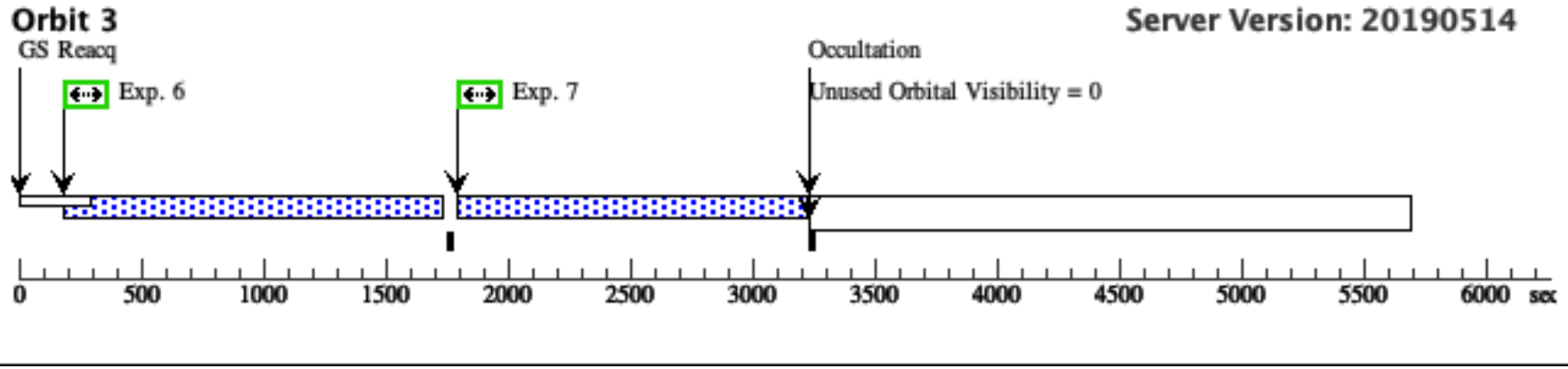
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Acq-NGC1512-YSC1 (1300983)	(5) NGC-1512-YSC1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				6 Secs (6 Secs) *[==>]*	***[1]***
2	NGC1512-YSC1 (1301062)	(5) NGC-1512-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=4985; FP-POS=3			1230 Secs (1230 Secs) *[==>]*	***[1]***
3	NGC1512-YSC1 (1301062)	(5) NGC-1512-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=4985; FP-POS=3			1230 Secs (1230 Secs) *[==>]*	***[1]***
4	NGC1512-YSC1 (1301062)	(5) NGC-1512-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=4985; FP-POS=4			1375 Secs (1375 Secs) *[==>]*	***[2]***
5	NGC1512-YSC1 (1301062)	(5) NGC-1512-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=4985; FP-POS=4			1375 Secs (1375 Secs) *[==>]*	***[2]***
6	NGC1512-YSC1-G160M (1301065)	(5) NGC-1512-YSC1	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; FLASH=YES; BUFFER-TIME=21500			1384 Secs (1384 Secs) *[==>]*	***[3]***
	Comments: The combination of CENWAVE 1600 (POS 3 and 4) and 1589 (POS 1 and 2) works better with the velocity recession of the galaxy to preserve the lines of interest for the science case to fall very close to the edge of the spectral segments.								
7	NGC1512-YSC1-G160M (1301065)	(5) NGC-1512-YSC1	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; FLASH=YES; BUFFER-TIME=21500			1384 Secs (1384 Secs) *[==>]*	***[3]***
	Comments: The combination of CENWAVE 1600 (POS 3 and 4) and 1589 (POS 1 and 2) works better with the velocity recession of the galaxy to preserve the lines of interest for the science case to fall very close to the edge of the spectral segments.								
8	NGC1512-YSC1-G160M (1301065)	(5) NGC-1512-YSC1	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; FLASH=YES; BUFFER-TIME=21500			1385 Secs (1385 Secs) *[==>]*	***[4]***
	Comments: The combination of CENWAVE 1600 (POS 3 and 4) and 1589 (POS 1 and 2) works better with the velocity recession of the galaxy to preserve the lines of interest for the science case to fall very close to the edge of the spectral segments.								
9	NGC1512-YSC1-G160M (1301065)	(5) NGC-1512-YSC1	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; FLASH=YES; BUFFER-TIME=21500			1385 Secs (1385 Secs) *[==>]*	***[4]***
	Comments: The combination of CENWAVE 1600 (POS 3 and 4) and 1589 (POS 1 and 2) works better with the velocity recession of the galaxy to preserve the lines of interest for the science case to fall very close to the edge of the spectral segments.								

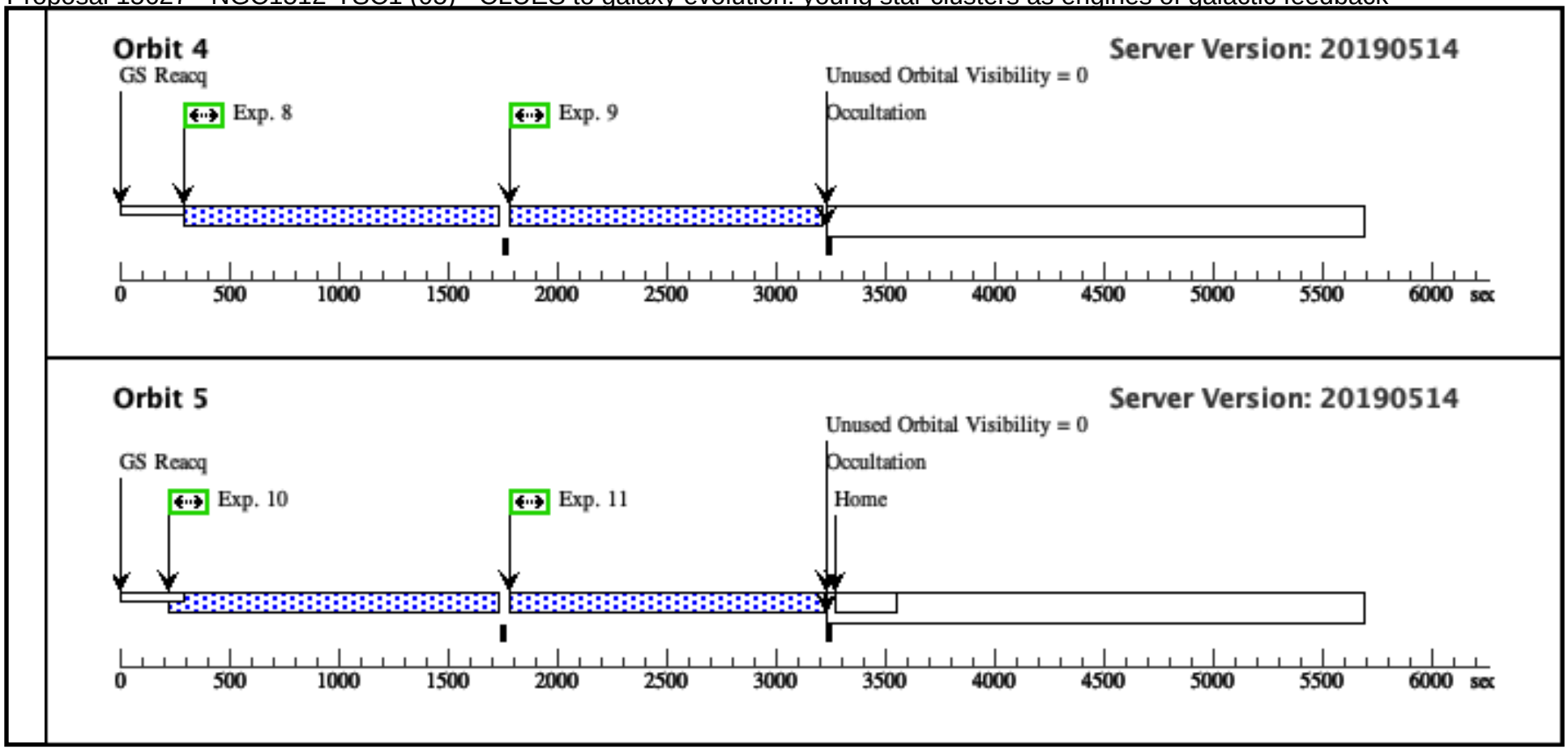
	10	NGC1512-YSC1-G160M (1301067)	1 (5) NGC-1512-YSC	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=1; FLASH=YES; BUFFER-TIME=21084	1383 Secs (1383 Secs) *[==>]*	***[5]***
	Comments: The combination of CENWAVE 1600 (POS 3 and 4) and 1589 (POS 1 and 2) works better with the velocity recession of the galaxy to preserve the lines of interest for the science case to fall very close to the edge of the spectral segments.							
	11	NGC1512-YSC1-G160M (1301067)	1 (5) NGC-1512-YSC	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=2; FLASH=YES; BUFFER-TIME=21084	1384 Secs (1384 Secs) *[==>]*	***[5]***
	Comments: The combination of CENWAVE 1600 (POS 3 and 4) and 1589 (POS 1 and 2) works better with the velocity recession of the galaxy to preserve the lines of interest for the science case to fall very close to the edge of the spectral segments.							

Orbit Structure








Orbit 4
Server Version: 20190514
GS Reacq
Exp. 8
Exp. 9
Unused Orbital Visibility = 0
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec
Orbit 5
Server Version: 20190514
GS Reacq
Exp. 10
Exp. 11
Unused Orbital Visibility = 0
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15627, HOPR for visit 05 (Z5), implementation Wed Oct 23 20:00:55 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: ORIENT 66D TO 135 D; ORIENT 265D TO 304 D

Comments: This is a HOPR repeat of failed visit 05. Two total orbits allowed.

Diagnostics

(HOPR for visit 05 (Z5)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(HOPR for visit 05 (Z5)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(HOPR for visit 05 (Z5)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(HOPR for visit 05 (Z5)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(HOPR for visit 05 (Z5)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE

Fixed Targets

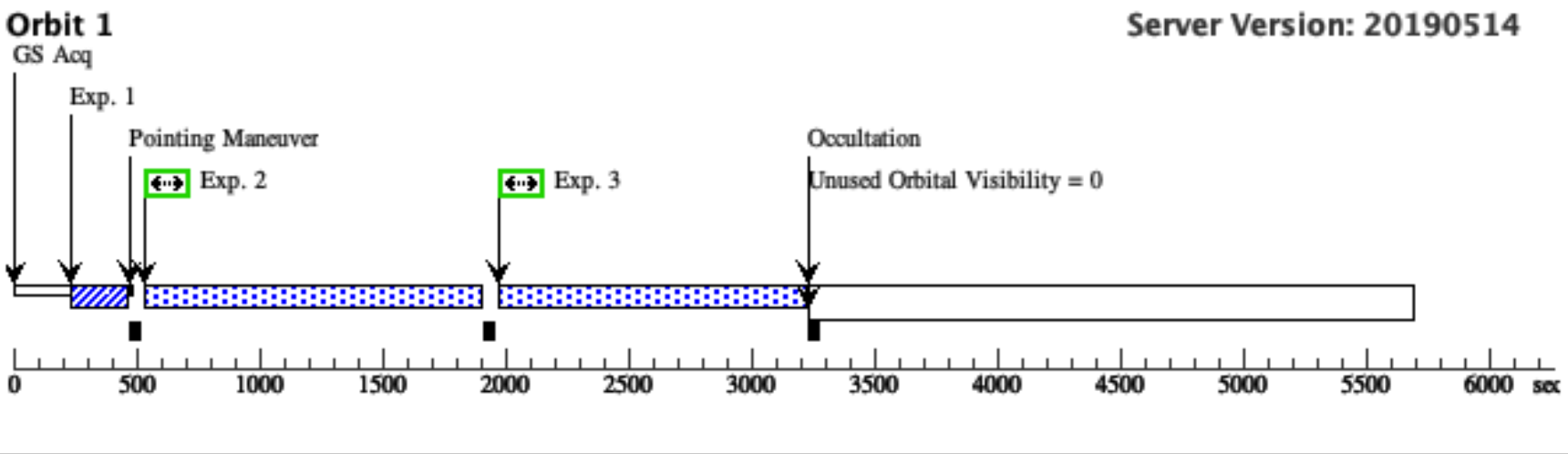
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	NGC-1512-YSC1	RA: 04 03 47.4340 (60.9476417d) Dec: -43 21 49.31 (-43.36370d) Equinox: J2000		V=19.8 18.0 (F275W)	Reference Frame: SIMBAD

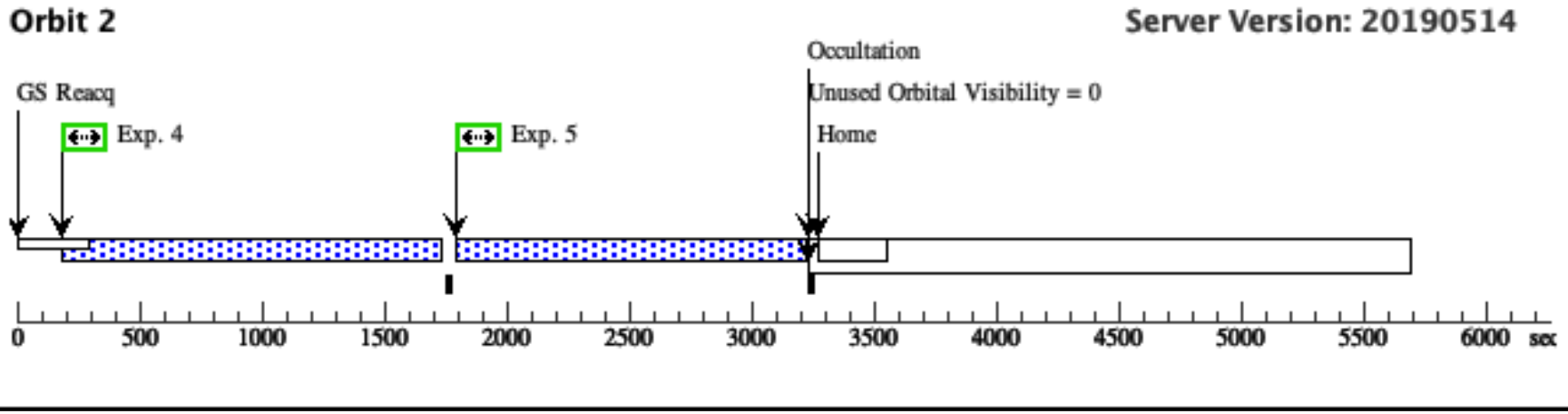
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[STAR FORMING REGION]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Acq-NGC1512-YSC1 (1300983)	(5) NGC-1512-YSC1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				6 Secs (6 Secs) *[==>]*	*[1]*
2	NGC1512-YSC1 (1301062)	(5) NGC-1512-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=4985; FP-POS=3			1197 Secs (1197 Secs) *[==>]*	*[1]*
3	NGC1512-YSC1 (1301062)	(5) NGC-1512-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=4985; FP-POS=4			1200 Secs (1200 Secs) *[==>]*	*[1]*
4	NGC1512-YSC1-G160M (1301065)	(5) NGC-1512-YSC1	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; FLASH=YES; BUFFER-TIME=21500			1384 Secs (1384 Secs) *[==>]*	*[2]*
	Comments: The combination of CENWAVE 1600 (POS 3 and 4) and 1589 (POS 1 and 2) works better with the velocity recession of the galaxy to preserve the lines of interest for the science case to fall very close to the edge of the spectral segments.								
5	NGC1512-YSC1-G160M (1301065)	(5) NGC-1512-YSC1	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; FLASH=YES; BUFFER-TIME=21500			1381 Secs (1381 Secs) *[==>]*	*[2]*
	Comments: The combination of CENWAVE 1600 (POS 3 and 4) and 1589 (POS 1 and 2) works better with the velocity recession of the galaxy to preserve the lines of interest for the science case to fall very close to the edge of the spectral segments.								

Orbit Structure





Visit

Proposal 15627, NGC1512-YSC2 (06), scheduling Wed Oct 23 20:00:55 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: ORIENT 0D TO 56 D; ORIENT 197D TO 227 D; ORIENT 348D TO 359 D

Diagnostics

(NGC1512-YSC2 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(NGC1512-YSC2 (06)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1512-YSC2 (06)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1512-YSC2 (06)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
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(NGC1512-YSC2 (06)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
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(NGC1512-YSC2 (06)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1512-YSC2 (06)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1512-YSC2 (06)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1512-YSC2 (06)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1512-YSC2 (06)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	NGC-1512-YSC2	RA: 04 03 54.2800 (60.9761667d)		V=19.5	Reference Frame: SIMBAD
		Dec: -43 21 1.68 (-43.35047d)		17.5 (F275W)	
		Equinox: J2000			

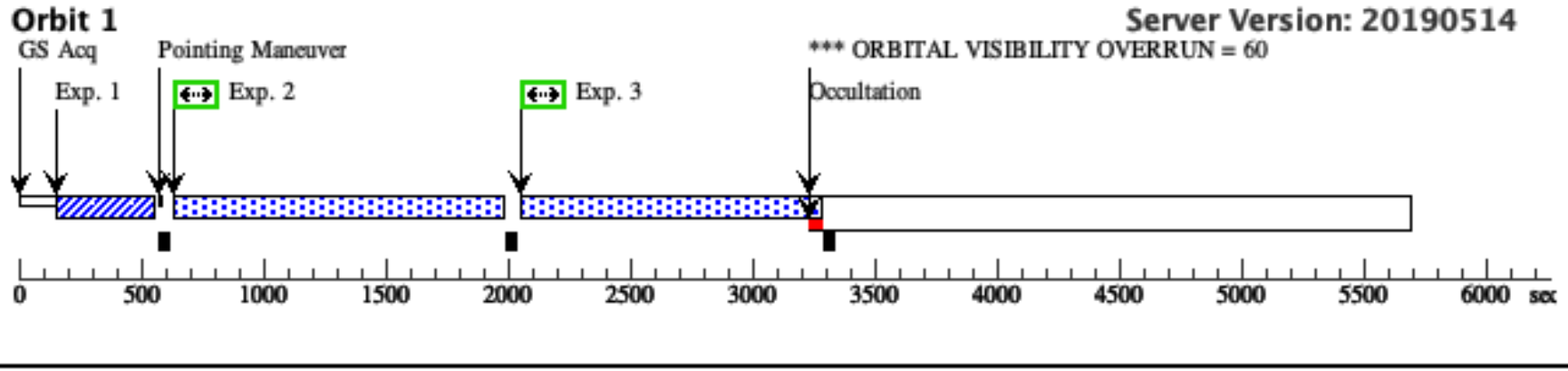
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[STAR FORMING REGION]
Extended=NO

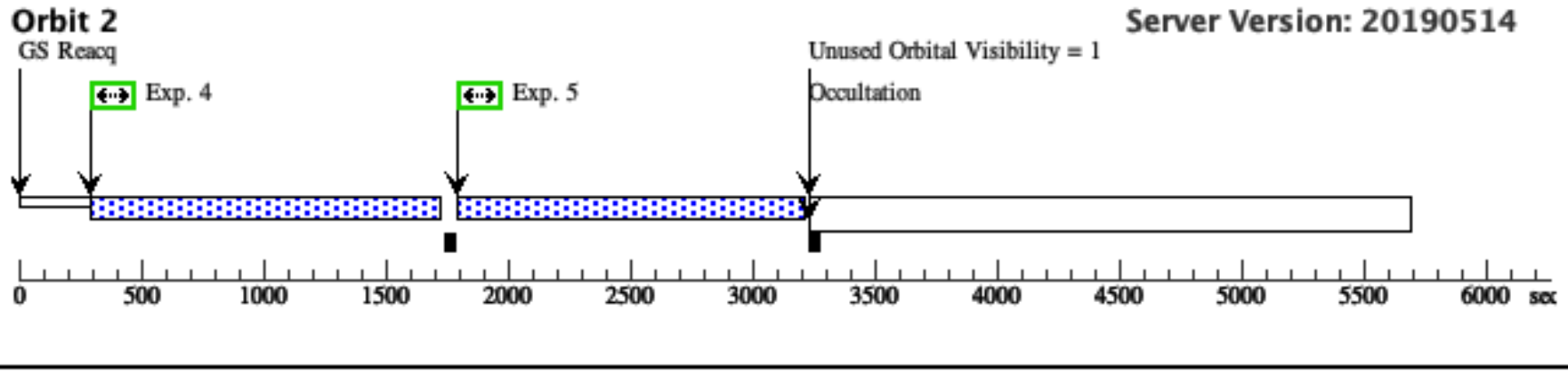
Exposures

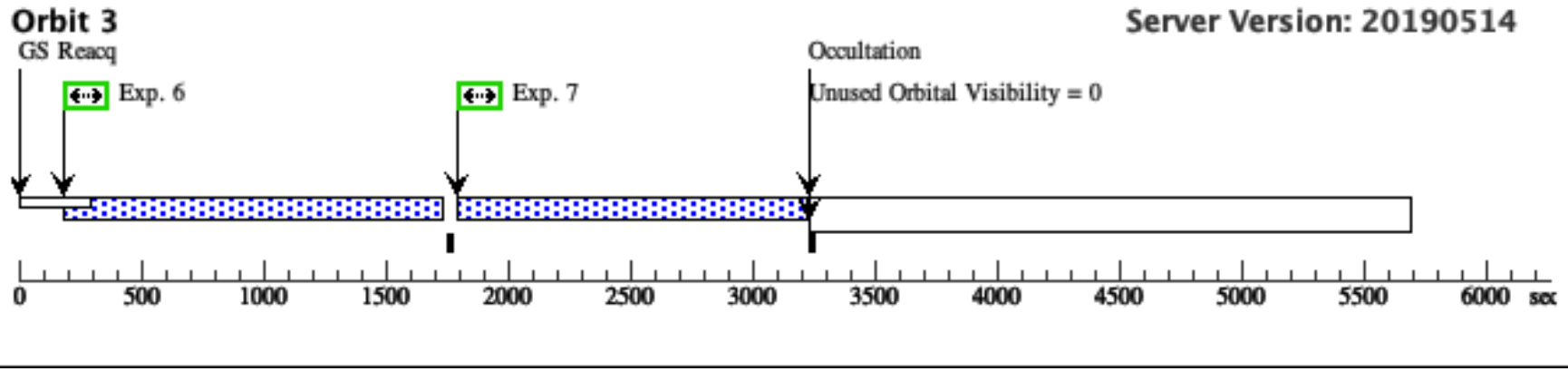
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ-NGC1512-YSC2 (1302892)	(6) NGC-1512-YSC 2	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				54.1 Secs (54.1 Secs) *[==>]*	***[1]***
2	NGC1512-YSC2 (1301062)	(6) NGC-1512-YSC 2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=4985; FP-POS=3			1181 Secs (1181 Secs) *[==>]*	***[1]***
3	NGC1512-YSC2 (1301062)	(6) NGC-1512-YSC 2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=4985; FP-POS=3			1181 Secs (1181 Secs) *[==>]*	***[1]***
4	NGC1512-YSC2 (1301062)	(6) NGC-1512-YSC 2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=4985; FP-POS=4			1375 Secs (1375 Secs) *[==>]*	***[2]***
5	NGC1512-YSC2 (1301062)	(6) NGC-1512-YSC 2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=4985; FP-POS=4			1375 Secs (1375 Secs) *[==>]*	***[2]***
6	NGC1512-YSC2-G160M (1301065)	(6) NGC-1512-YSC 2	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; FLASH=YES; BUFFER-TIME=2100			1384 Secs (1384 Secs) *[==>]*	***[3]***
Comments: The combination of CENWAVE 1600 (POS 3 and 4) and 1589 (POS 1 and 2) works better with the velocity recession of the galaxy to preserve the lines of interest for the science case to fall very close to the edge of the spectral segments.									
7	NGC1512-YSC2-G160M (1301065)	(6) NGC-1512-YSC 2	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; FLASH=YES; BUFFER-TIME=2100			1384 Secs (1384 Secs) *[==>]*	***[3]***
Comments: The combination of CENWAVE 1600 (POS 3 and 4) and 1589 (POS 1 and 2) works better with the velocity recession of the galaxy to preserve the lines of interest for the science case to fall very close to the edge of the spectral segments.									
8	NGC1512-YSC2-G160M (1301065)	(6) NGC-1512-YSC 2	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; FLASH=YES; BUFFER-TIME=2100			1385 Secs (1385 Secs) *[==>]*	***[4]***
Comments: The combination of CENWAVE 1600 (POS 3 and 4) and 1589 (POS 1 and 2) works better with the velocity recession of the galaxy to preserve the lines of interest for the science case to fall very close to the edge of the spectral segments.									
9	NGC1512-YSC2-G160M (1301065)	(6) NGC-1512-YSC 2	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; FLASH=YES; BUFFER-TIME=2100			1385 Secs (1385 Secs) *[==>]*	***[4]***
Comments: The combination of CENWAVE 1600 (POS 3 and 4) and 1589 (POS 1 and 2) works better with the velocity recession of the galaxy to preserve the lines of interest for the science case to fall very close to the edge of the spectral segments.									

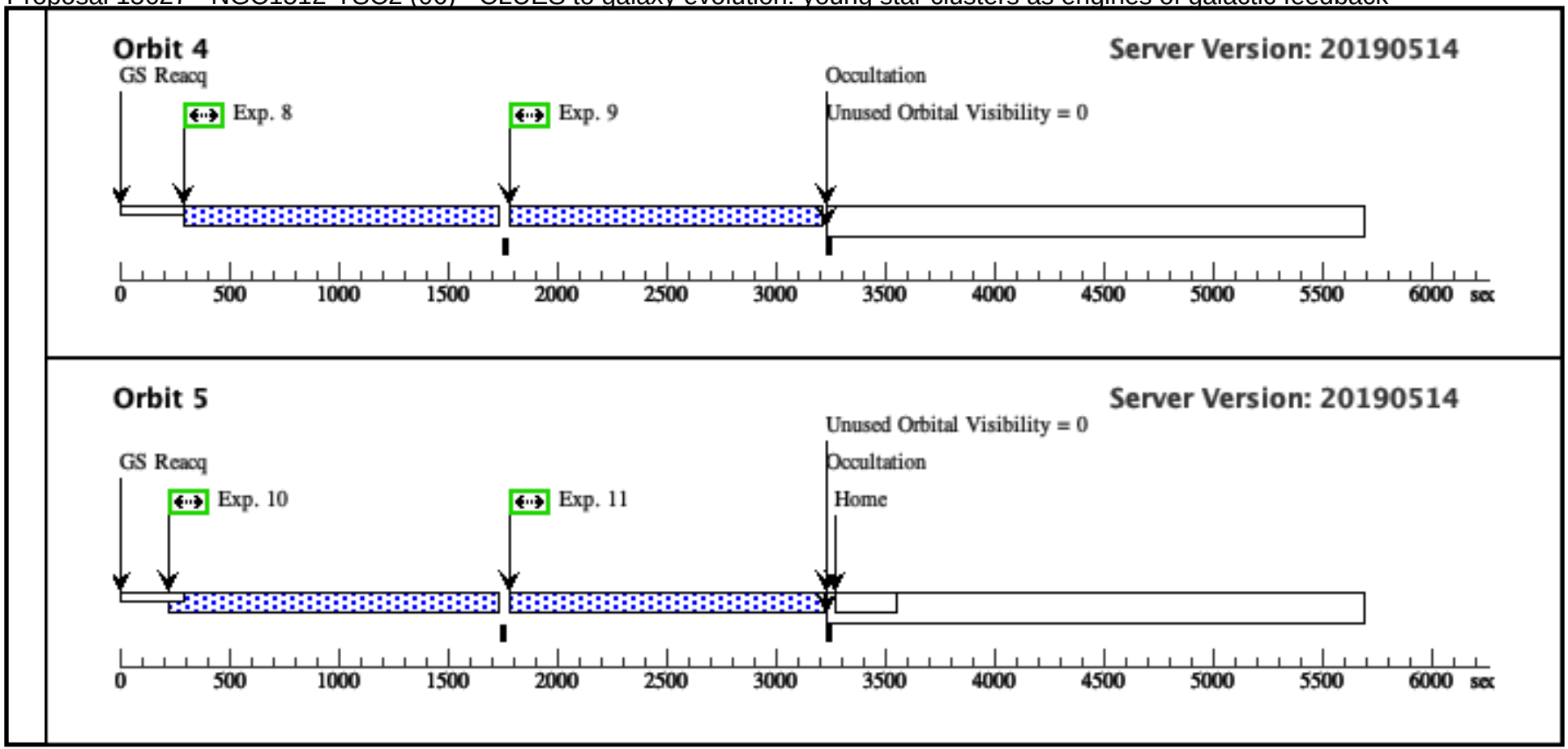
	10	NGC1512-YSC2-G160M (1301067)	(6) NGC-1512-YSC 2	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=1; FLASH=YES; BUFFER-TIME=21084	1383 Secs (1383 Secs) *[==>]*	***[5]***
	Comments: The combination of CENWAVE 1600 (POS 3 and 4) and 1589 (POS 1 and 2) works better with the velocity recession of the galaxy to preserve the lines of interest for the science case to fall very close to the edge of the spectral segments.							
	11	NGC1512-YSC2-G160M (1301067)	(6) NGC-1512-YSC 2	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=2; FLASH=YES; BUFFER-TIME=21084	1384 Secs (1384 Secs) *[==>]*	***[5]***
	Comments: The combination of CENWAVE 1600 (POS 3 and 4) and 1589 (POS 1 and 2) works better with the velocity recession of the galaxy to preserve the lines of interest for the science case to fall very close to the edge of the spectral segments.							

Orbit Structure





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Server Version: 20190514
GS Reacq
Exp. 8
Exp. 9
Occultation
Unused Orbital Visibility = 0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec
Orbit 5
Server Version: 20190514
Unused Orbital Visibility = 0
GS Reacq
Exp. 10
Exp. 11
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15627, NGC1566-YSC1 (08), completed Wed Oct 23 20:00:55 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: ORIENT 0D TO 11 D; ORIENT 105D TO 200 D; ORIENT 280D TO 359 D

Comments: Orientation necessary to avoid a bright star-forming region above the targeted cluster

Diagnostics

(NGC1566-YSC1 (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(NGC1566-YSC1 (08)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1566-YSC1 (08)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1566-YSC1 (08)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1566-YSC1 (08)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1566-YSC1 (08)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1566-YSC1 (08)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1566-YSC1 (08)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE

Fixed Targets

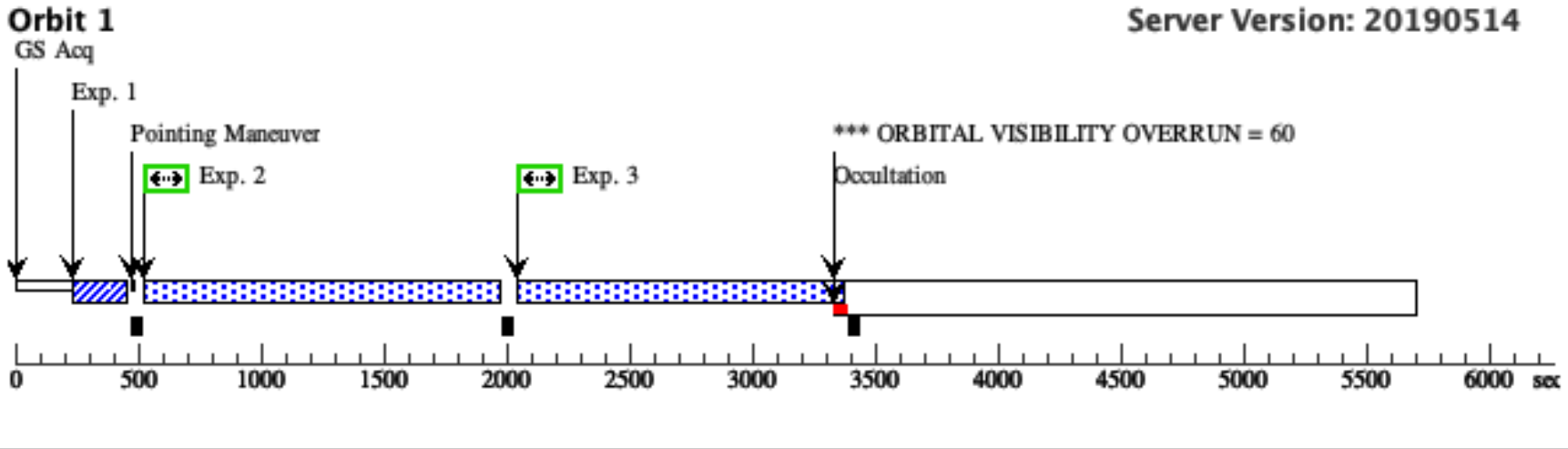
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(9)	NGC-1566-YSC1	RA: 04 19 55.2740 (64.9803083d)		V=19.0	Reference Frame: SIMBAD
		Dec: -54 55 53.34 (-54.93148d)		17.0 (F275W)	
		Equinox: J2000			

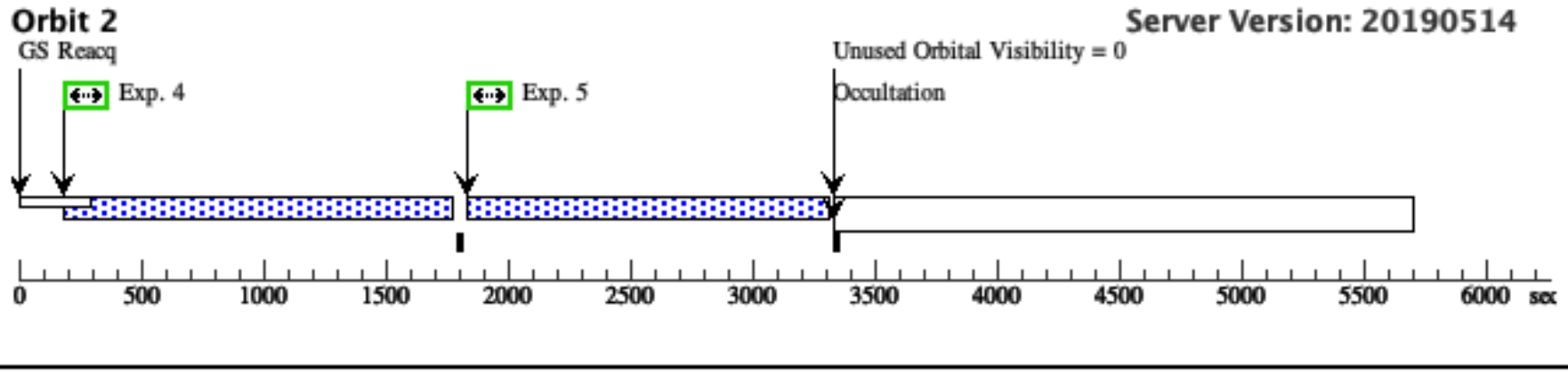
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[STAR FORMING REGION]
Extended=NO

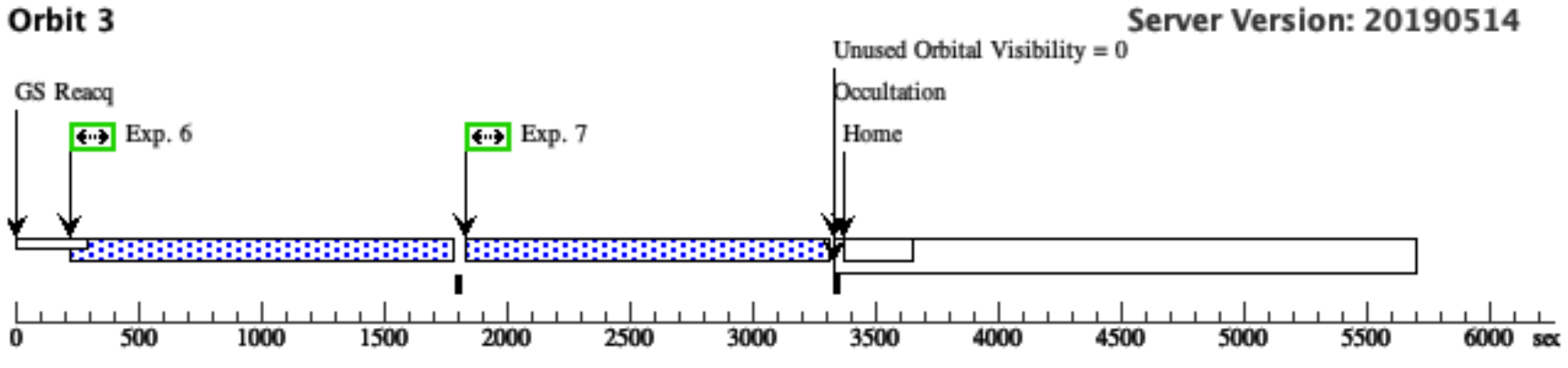
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ-NGC1566-YSC1 (1300985)	(9) NGC-1566-YSC 1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				2 Secs (2 Secs) *[==>]*	*[1]*
2	NGC1566-YSC1 (1301106)	(9) NGC-1566-YSC 1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; FP-POS=3; BUFFER-TIME=3924			1280 Secs (1280 Secs) *[==>]*	*[1]*
3	NGC1566-YSC1 (1301106)	(9) NGC-1566-YSC 1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; FP-POS=4; BUFFER-TIME=3924			1280 Secs (1280 Secs) *[==>]*	*[1]*
4	NGC1566-YSC1-G160M (1301110)	(9) NGC-1566-YSC 1	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FLASH=YES; FP-POS=3; BUFFER-TIME=14964			1430 Secs (1430 Secs) *[==>]*	*[2]*
5	NGC1566-YSC1-G160M (1301110)	(9) NGC-1566-YSC 1	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FLASH=YES; FP-POS=4; BUFFER-TIME=14964			1430 Secs (1430 Secs) *[==>]*	*[2]*
6	NGC1566-YSC1-G160M (1301111)	(9) NGC-1566-YSC 1	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FLASH=YES; FP-POS=1; BUFFER-TIME=14407			1431 Secs (1431 Secs) *[==>]*	*[3]*
7	NGC1566-YSC1-G160M (1301111)	(9) NGC-1566-YSC 1	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FLASH=YES; FP-POS=2; BUFFER-TIME=14407			1431 Secs (1431 Secs) *[==>]*	*[3]*

Orbit Structure







Visit

Proposal 15627, NGC1566-YSC2 (07), completed Wed Oct 23 20:00:55 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Comments: Orientation not helpful in this case. We will use LEGUS multiband imaging to disentangle different contributions from stars and clusters around the aperture.

Diagnostics

(NGC1566-YSC2 (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(NGC1566-YSC2 (07)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1566-YSC2 (07)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1566-YSC2 (07)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1566-YSC2 (07)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1566-YSC2 (07)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1566-YSC2 (07)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1566-YSC2 (07)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1566-YSC2 (07)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1566-YSC2 (07)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1566-YSC2 (07)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC1566-YSC2 (07)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	NGC-1566-YSC2	RA: 04 20 2.9290 (65.0122042d)		V=19.5	Reference Frame: SIMBAD
		Dec: -54 56 27.71 (-54.94103d)		18 (F275W)	
		Equinox: J2000			

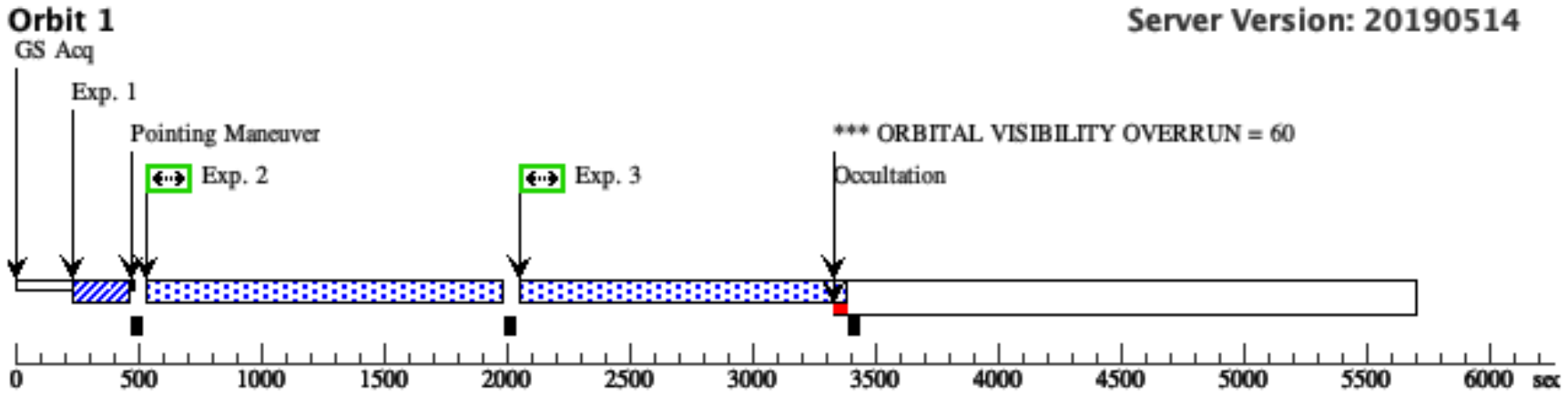
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[STAR FORMING REGION]
Extended=NO

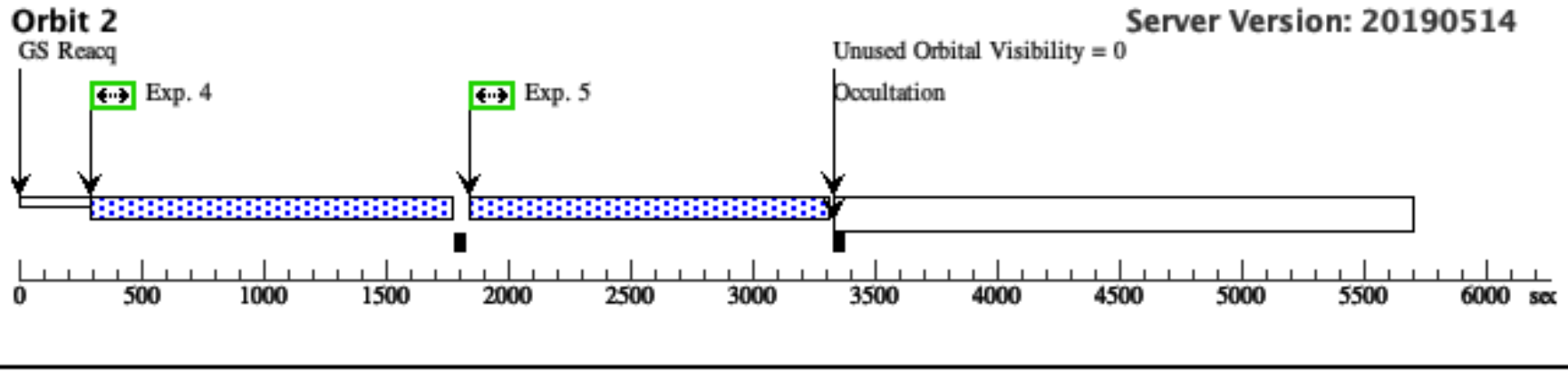
Exposures

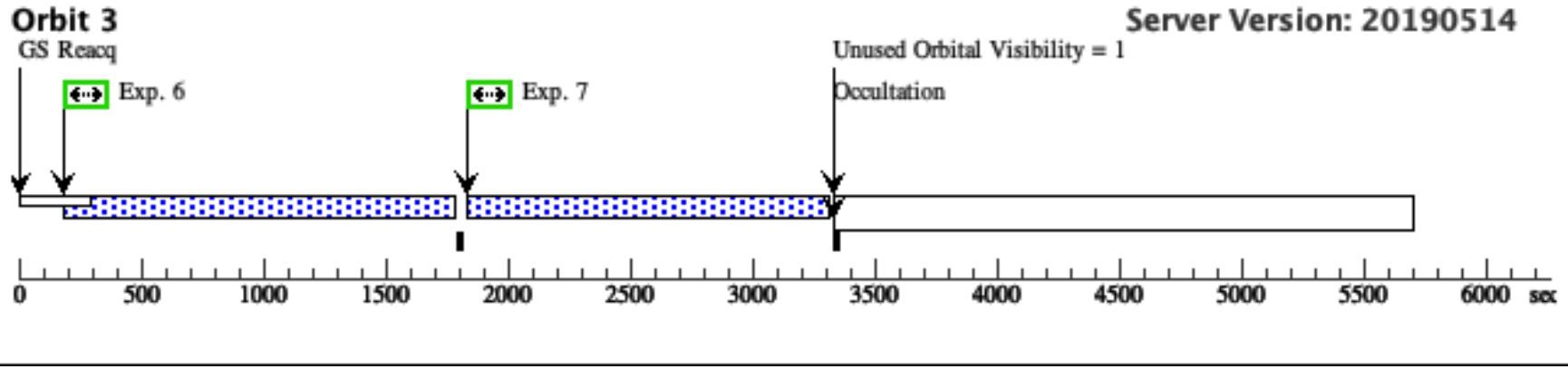
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ-NGC1566-YSC2 (1300986)	(7) NGC-1566-YSC2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				6 Secs (6 Secs) *[==>]*	***[1]***
2	NGC1566-YSC2 (1301062)	(7) NGC-1566-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=4985; FP-POS=3			1278 Secs (1278 Secs) *[==>]*	***[1]***
3	NGC1566-YSC2 (1301062)	(7) NGC-1566-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=4985; FP-POS=3			1277 Secs (1277 Secs) *[==>]*	***[1]***
4	NGC1566-YSC2 (1301062)	(7) NGC-1566-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=4985; FP-POS=4			1423 Secs (1423 Secs) *[==>]*	***[2]***
5	NGC1566-YSC2 (1301062)	(7) NGC-1566-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=4985; FP-POS=4			1423 Secs (1423 Secs) *[==>]*	***[2]***
6	NGC1566-YSC2-G160M (1301065)	(7) NGC-1566-YSC2	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; FLASH=YES; BUFFER-TIME=21500			1431 Secs (1431 Secs) *[==>]*	***[3]***
Comments: The combination of CENWAVE 1600 (POS 3 and 4) and 1589 (POS 1 and 2) works better with the velocity recession of the galaxy to preserve the lines of interest for the science case to fall very close to the edge of the spectral segments.									
7	NGC1566-YSC2-G160M (1301065)	(7) NGC-1566-YSC2	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; FLASH=YES; BUFFER-TIME=21500			1431 Secs (1431 Secs) *[==>]*	***[3]***
Comments: The combination of CENWAVE 1600 (POS 3 and 4) and 1589 (POS 1 and 2) works better with the velocity recession of the galaxy to preserve the lines of interest for the science case to fall very close to the edge of the spectral segments.									
8	NGC1566-YSC2-G160M (1301065)	(7) NGC-1566-YSC2	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; FLASH=YES; BUFFER-TIME=21500			1432 Secs (1432 Secs) *[==>]*	***[4]***
Comments: The combination of CENWAVE 1600 (POS 3 and 4) and 1589 (POS 1 and 2) works better with the velocity recession of the galaxy to preserve the lines of interest for the science case to fall very close to the edge of the spectral segments.									
9	NGC1566-YSC2-G160M (1301065)	(7) NGC-1566-YSC2	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; FLASH=YES; BUFFER-TIME=21500			1432 Secs (1432 Secs) *[==>]*	***[4]***
Comments: The combination of CENWAVE 1600 (POS 3 and 4) and 1589 (POS 1 and 2) works better with the velocity recession of the galaxy to preserve the lines of interest for the science case to fall very close to the edge of the spectral segments.									

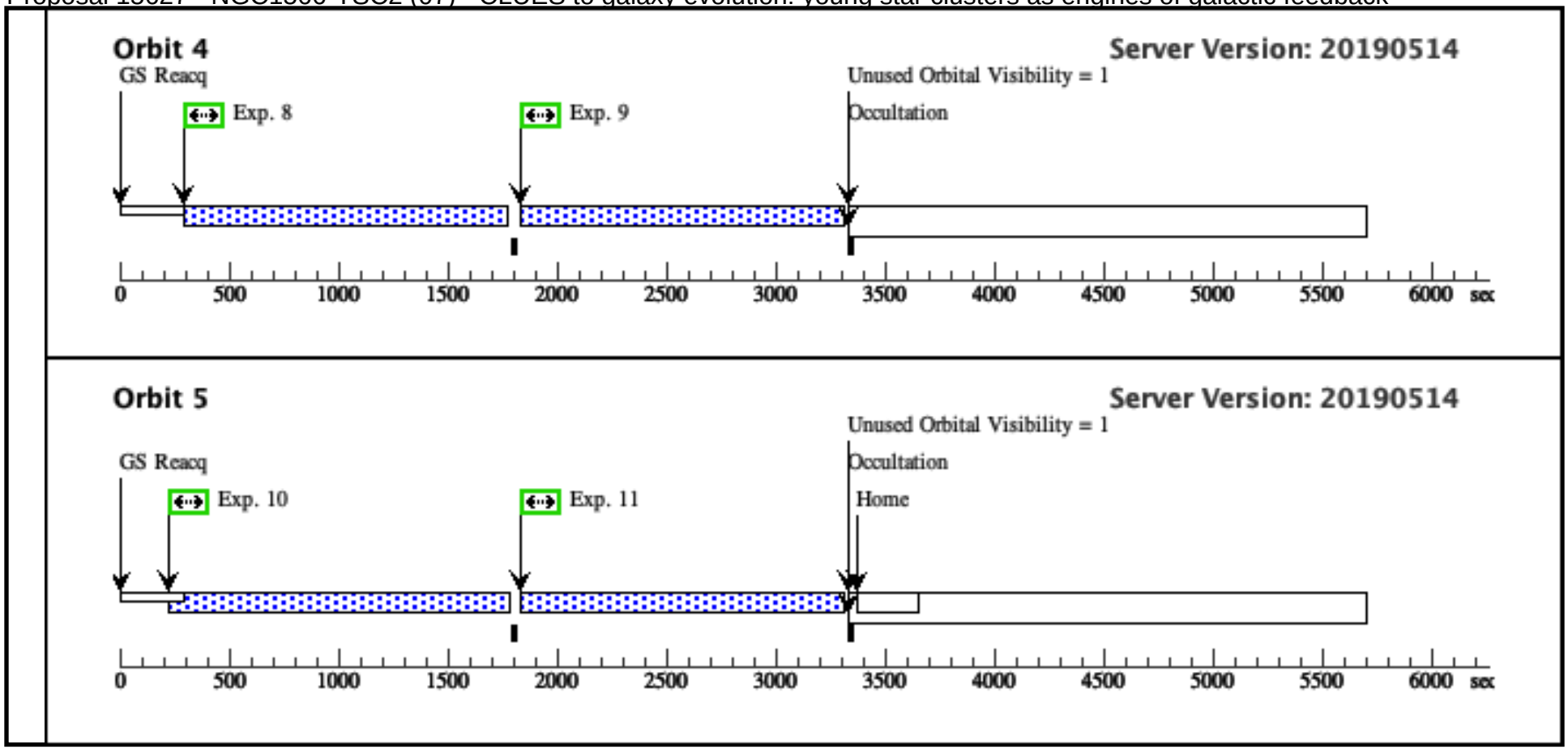
	10	NGC1566-YSC2-G160M (1301067)	2 (7) NGC-1566-YSC	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=1; FLASH=YES; BUFFER-TIME=21084	1430 Secs (1430 Secs) *[==>]*	***[5]***
	Comments: The combination of CENWAVE 1600 (POS 3 and 4) and 1589 (POS 1 and 2) works better with the velocity recession of the galaxy to preserve the lines of interest for the science case to fall very close to the edge of the spectral segments.							
	11	NGC1566-YSC2-G160M (1301067)	2 (7) NGC-1566-YSC	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=2; FLASH=YES; BUFFER-TIME=21084	1431 Secs (1431 Secs) *[==>]*	***[5]***
	Comments: The combination of CENWAVE 1600 (POS 3 and 4) and 1589 (POS 1 and 2) works better with the velocity recession of the galaxy to preserve the lines of interest for the science case to fall very close to the edge of the spectral segments.							

Orbit Structure





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GS Reacq
Exp. 8
Exp. 9
Unused Orbital Visibility = 1
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500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec
Orbit 5
Server Version: 20190514
GS Reacq
Exp. 10
Exp. 11
Unused Orbital Visibility = 1
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15627, NGC3351-YSC1 (09), completed Wed Oct 23 20:00:55 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: ORIENT 290D TO 360 D; ORIENT 120D TO 200 D

Diagnostics

(NGC3351-YSC1 (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(NGC3351-YSC1 (09)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC3351-YSC1 (09)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC3351-YSC1 (09)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC3351-YSC1 (09)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC3351-YSC1 (09)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC3351-YSC1 (09)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC3351-YSC1 (09)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC3351-YSC1 (09)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE

Fixed Targets

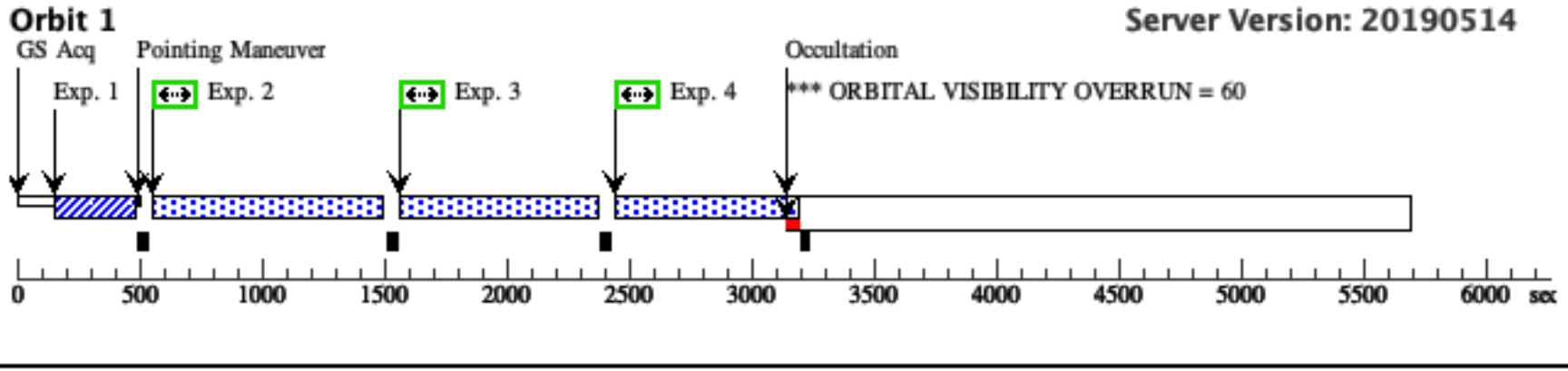
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(10)	M-95-YSC1	RA: 10 43 57.5540 (160.9898083d) Dec: +11 42 15.72 (11.70437d) Equinox: J2000		V=17.5 16.0 (F275W)	Reference Frame: SIMBAD

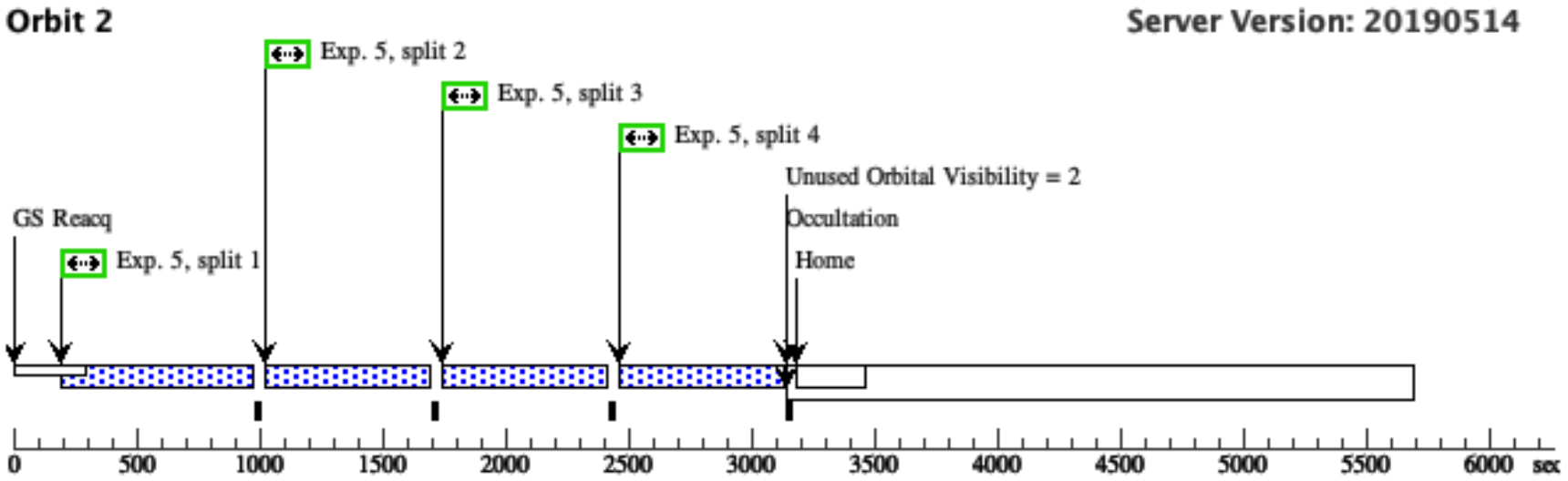
Comments: The Acquisition ETC calculation estimates 16.6 sec but it depends on the extinction estimate we get from SED fitting of braodband photometry which could be overestimated thus I had the value set to 16 sec
Category=STELLAR CLUSTER
Description=[STAR FORMING REGION]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ-NGC3351-YSc1 (1300989)	(10) M-95-YSC1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				16 Secs (16 Secs) *[==>]*	*[1]*
2	NGC3351-YSC1 (1301123)	(10) M-95-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=3333; FLASH=YES; FP-POS=3			773 Secs (773 Secs) *[==>]*	*[1]*
3	NGC3351-YSC1 (1301123)	(10) M-95-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=3333; FLASH=YES; FP-POS=4			754 Secs (754 Secs) *[==>]*	*[1]*
4	NGC3351-YSC1 (1301123)	(10) M-95-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=3333; FLASH=YES; FP-POS=4			700 Secs (700 Secs) *[==>]*	*[1]*
5	NGC3351-YSC1 (1301129)	(10) M-95-YSC1	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FLASH=YES; FP-POS=ALL; BUFFER-TIME=9704			616 Secs (2464 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	*[2]*

Orbit Structure





Visit

Proposal 15627, NGC4485-YSC1 (10), completed Wed Oct 23 20:00:55 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: ORIENT 45D TO 165 D; ORIENT 245D TO 325 D

Diagnostics

(NGC4485-YSC1 (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(NGC4485-YSC1 (10)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC4485-YSC1 (10)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC4485-YSC1 (10)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC4485-YSC1 (10)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC4485-YSC1 (10)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC4485-YSC1 (10)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC4485-YSC1 (10)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE

Fixed Targets

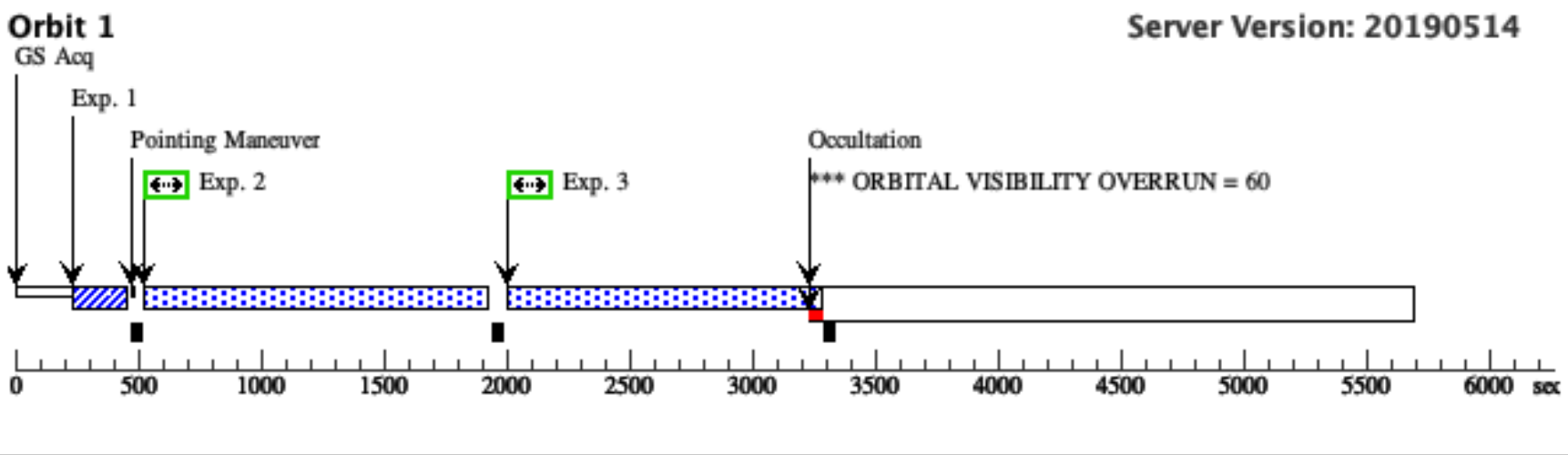
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(11)	NGC-4485-YSC1	RA: 12 30 29.4580 (187.6227417d) Dec: +41 41 51.72 (41.69770d) Equinox: J2000		V=19.0 17.0 (F275W)	Reference Frame: SIMBAD

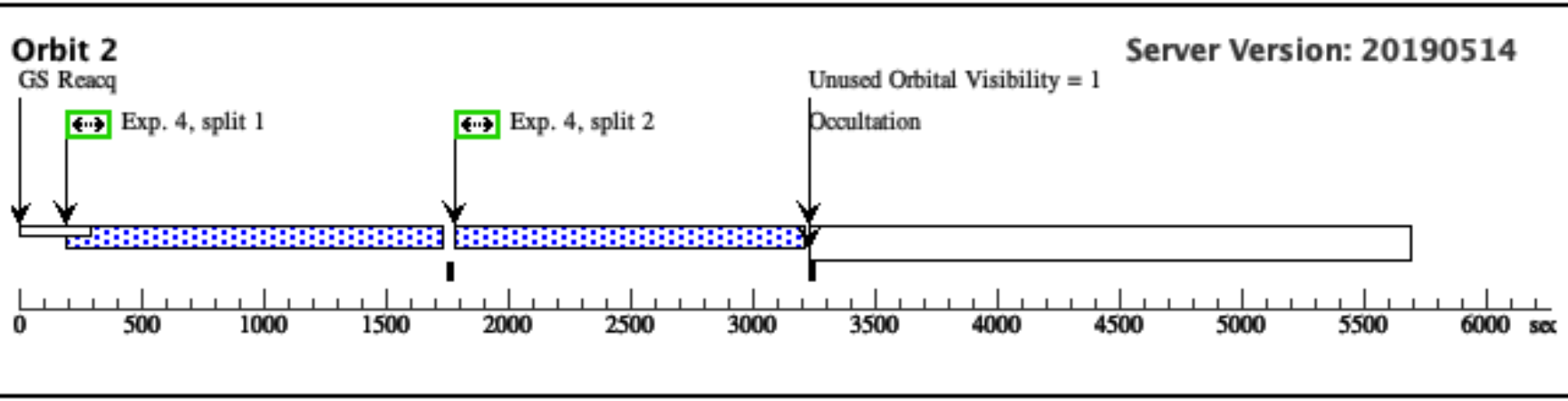
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[STAR FORMING REGION]
Extended=NO

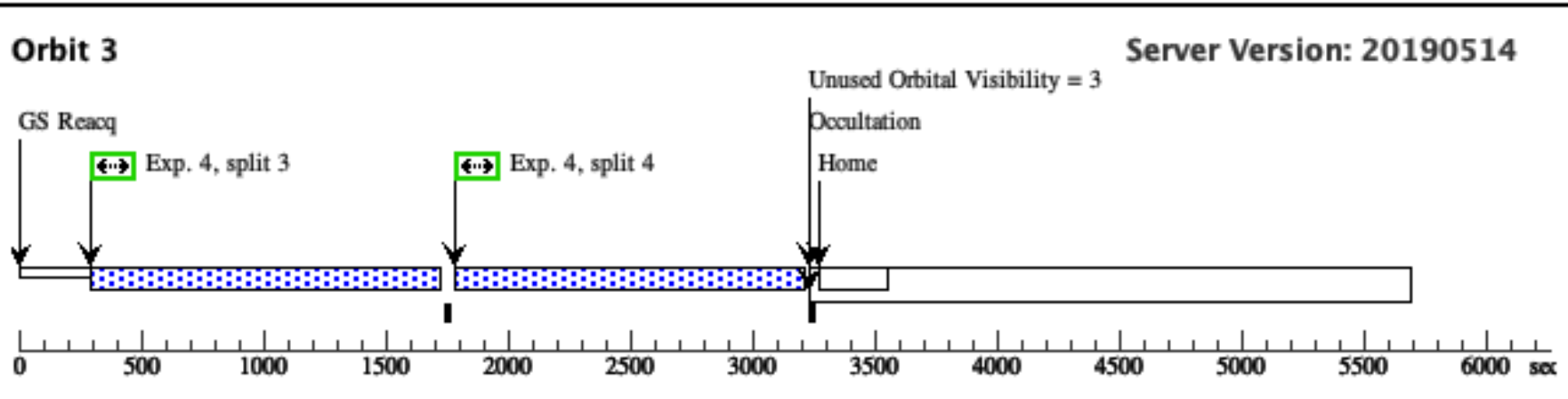
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ-NGC4485-YSC1 (1300990)	(11) NGC-4485-YSC1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				2.4 Secs (2.4 Secs) *[==>]*	*[1]*
2	NGC4485-YSC1 (1301142)	(11) NGC-4485-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=4327; FP-POS=3			1232 Secs (1232 Secs) *[==>]*	*[1]*
3	NGC4485-YSC1 (1301142)	(11) NGC-4485-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=4327; FP-POS=4			1231 Secs (1231 Secs) *[==>]*	*[1]*
4	NGC4485-YSC1-G160M (1301155)	(11) NGC-4485-YSC1	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=ALL; BUFFER-TIME=15646; FLASH=YES			1382 Secs (5528 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	*[2]* *[3]*

Orbit Structure







Visit

Proposal 15627, NGC4485-YSC2 (11), scheduling Wed Oct 23 20:00:55 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Comments: No orientation constraints required

Diagnostics

(NGC4485-YSC2 (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(NGC4485-YSC2 (11)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC4485-YSC2 (11)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC4485-YSC2 (11)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
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(NGC4485-YSC2 (11)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE

Fixed Targets

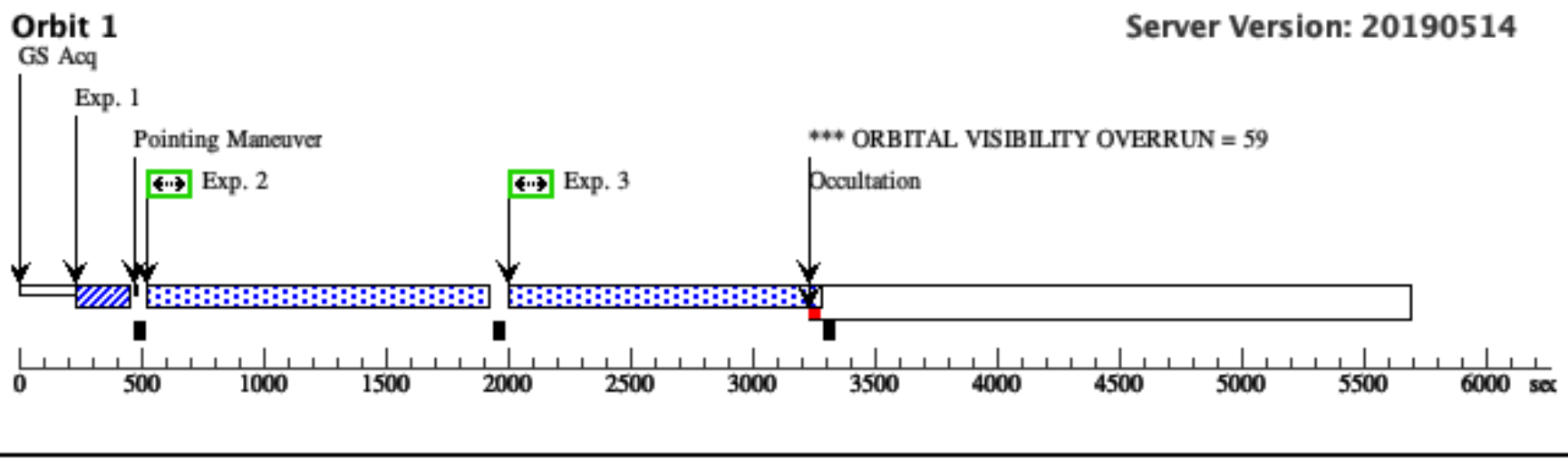
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(12)	NGC-4485-YSC2	RA: 12 30 28.3400 (187.6180833d) Dec: +41 41 22.00 (41.68944d) Equinox: J2000		V=18.9 17.0 (F275W)	Reference Frame: SIMBAD

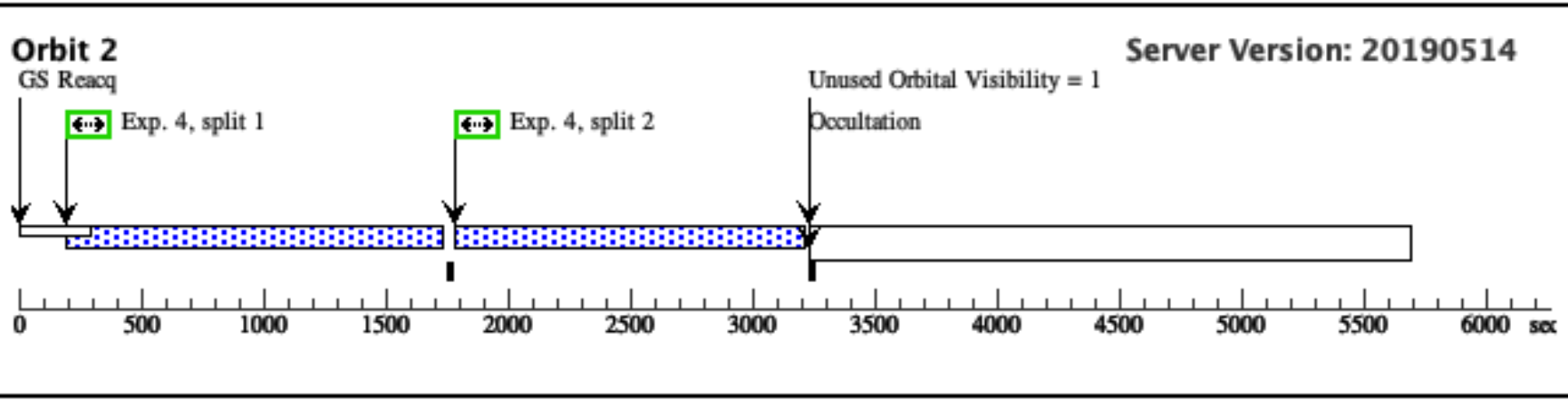
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[STAR FORMING REGION]
Extended=NO

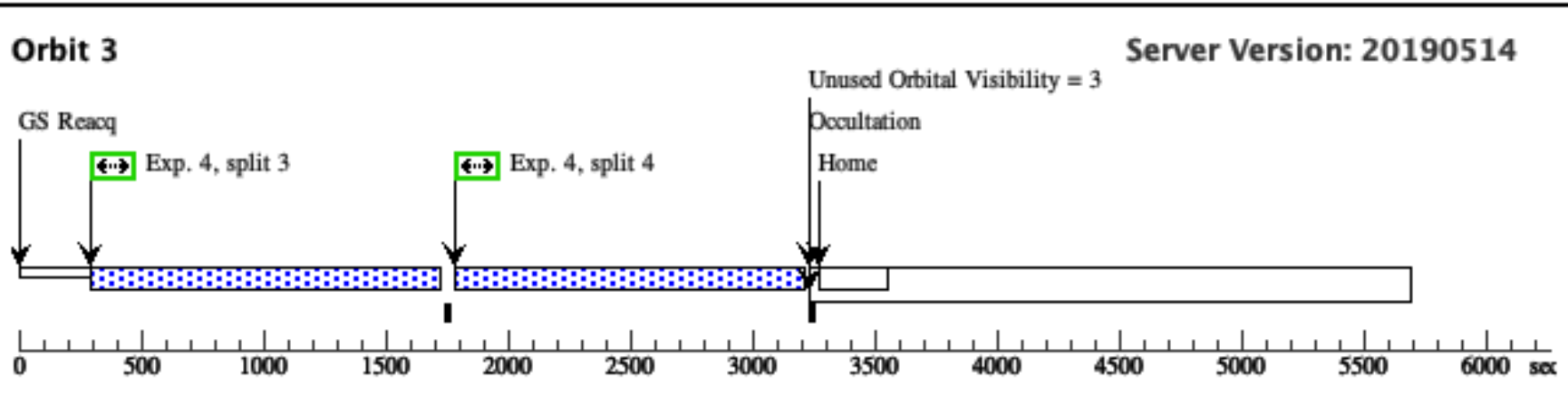
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ-NGC4485-YSC2 (1300990)	(12) NGC-4485-YSC2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				2.4 Secs (2.4 Secs) *[==>]*	*[1]*
2	NGC4485-YSC2 (1301142)	(12) NGC-4485-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=4327; FP-POS=3			1232 Secs (1232 Secs) *[==>]*	*[1]*
3	NGC4485-YSC2 (1301142)	(12) NGC-4485-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; BUFFER-TIME=4327; FP-POS=4			1230 Secs (1230 Secs) *[==>]*	*[1]*
4	NGC4485-YSC2-G160M (1301155)	(12) NGC-4485-YSC2	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=ALL; BUFFER-TIME=15646; FLASH=YES			1382 Secs (5528 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	*[2]* *[3]*

Orbit Structure







Visit

Proposal 15627, NGC4656-YSC1 (12), scheduling Wed Oct 23 20:00:55 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(NGC4656-YSC1 (12)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS
(NGC4656-YSC1 (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(NGC4656-YSC1 (12)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC4656-YSC1 (12)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
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(NGC4656-YSC1 (12)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC4656-YSC1 (12)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE

Fixed Targets

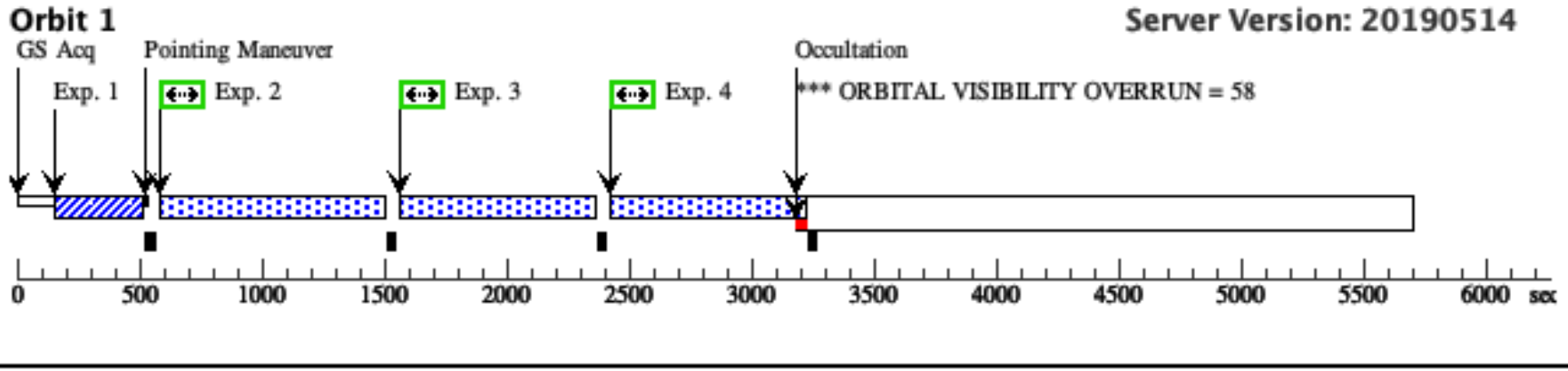
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(13)	NGC-4656-YSC1	RA: 12 43 57.6890 (190.9903708d)		V=17.3	Reference Frame: SIMBAD
		Dec: +32 10 13.34 (32.17037d)		16.5 (F275W)	
		Equinox: J2000			

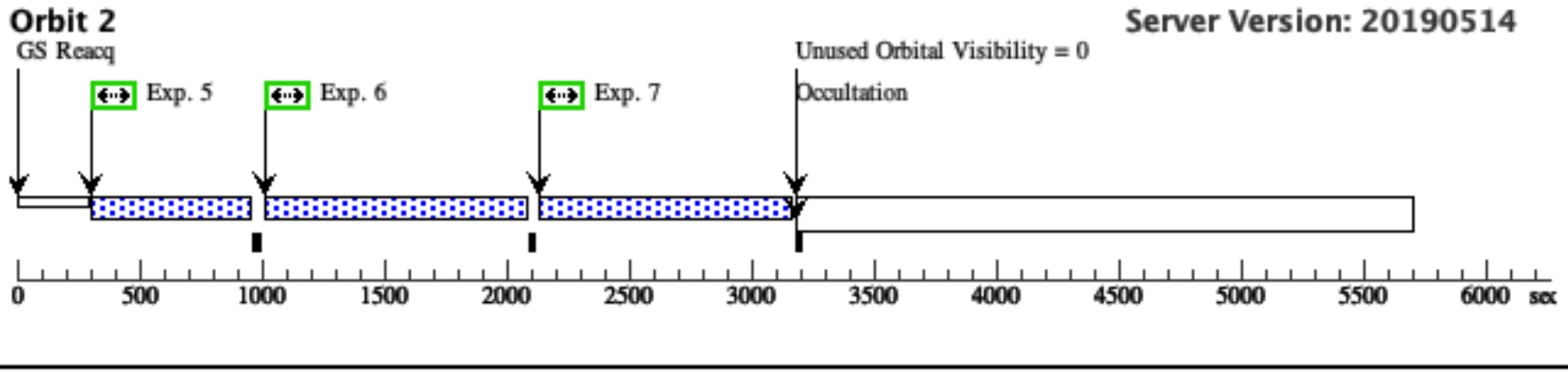
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[STAR FORMING REGION]
Extended=NO

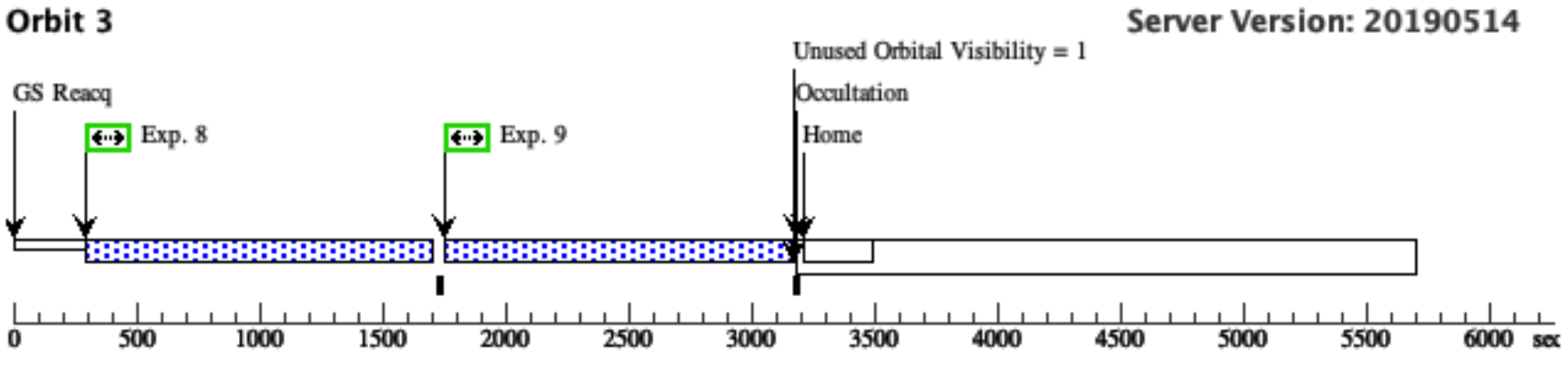
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ-NGC4656 (1302900)	(13) NGC-4656-YSC1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				30.5 Secs (30.5 Secs) *[==>]*	***[1]***
2	NGC4656-YSC1 (1301212)	(13) NGC-4656-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; FLASH=YES; BUFFER-TIME=4338			748 Secs (748 Secs) *[==>]*	***[1]***
3	NGC4656-YSC1 (1301212)	(13) NGC-4656-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; FLASH=YES; BUFFER-TIME=4338			748 Secs (748 Secs) *[==>]*	***[1]***
4	NGC4656-YSC1 (1301212)	(13) NGC-4656-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; FLASH=YES; BUFFER-TIME=4338			748 Secs (748 Secs) *[==>]*	***[1]***
5	NGC4656-YSC1 (1301212)	(13) NGC-4656-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; FLASH=YES; BUFFER-TIME=4338			600 Secs (600 Secs) *[==>]*	***[2]***
6	NGC4656-YSC1-F160M (1301214)	(13) NGC-4656-YSC1	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FLASH=YES; FP-POS=4; BUFFER-TIME=14100			910 Secs (910 Secs) *[==>]*	***[2]***
7	NGC4656-YSC1-F160M (1301214)	(13) NGC-4656-YSC1	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FLASH=YES; FP-POS=1; BUFFER-TIME=14100			909 Secs (909 Secs) *[==>]*	***[2]***
8	NGC4656-YSC1-F160M (1301214)	(13) NGC-4656-YSC1	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FLASH=YES; FP-POS=2; BUFFER-TIME=14100			1354 Secs (1354 Secs) *[==>]*	***[3]***
9	NGC4656-YSC1-F160M (1301214)	(13) NGC-4656-YSC1	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FLASH=YES; FP-POS=3; BUFFER-TIME=14100			1354 Secs (1354 Secs) *[==>]*	***[3]***

Orbit Structure







Visit

Proposal 15627, NGC4656-YSC2 (13), completed — Wed Oct 23 20:00:55 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: ORIENT 0D TO 9 D; ORIENT 96D TO 196 D; ORIENT 273D TO 359 D

Diagnostics

(NGC4656-YSC2 (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(NGC4656-YSC2 (13)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC4656-YSC2 (13)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC4656-YSC2 (13)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC4656-YSC2 (13)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC4656-YSC2 (13)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE

Fixed Targets

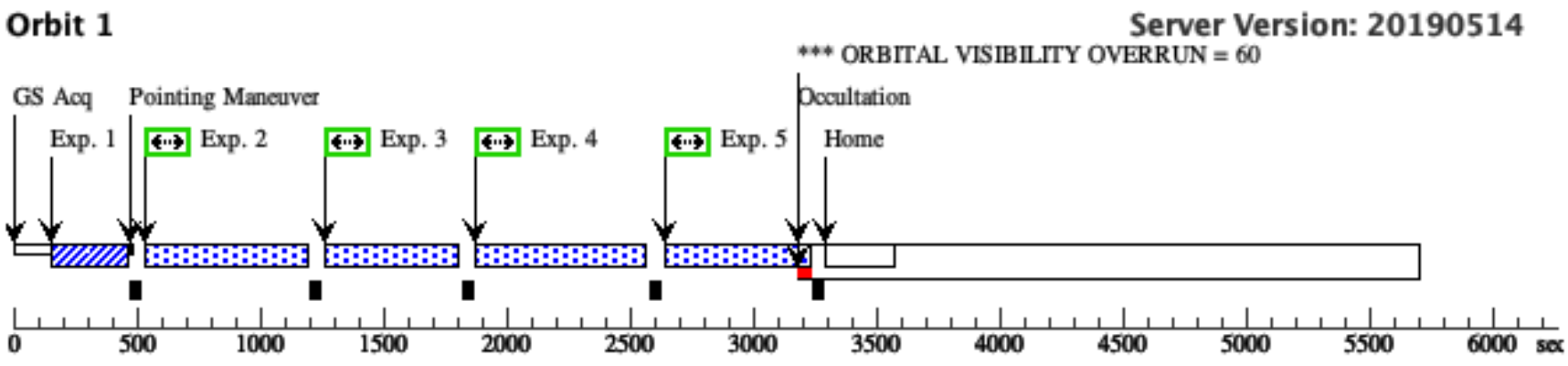
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(14)	NGC-4656-YSC2	RA: 12 43 56.6940 (190.9862250d) Dec: +32 10 14.73 (32.17076d) Equinox: J2000		V=16.9 15.0 (F275W)	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[STAR FORMING REGION]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ-NGC4656-YSC2 (1300993)	(14) NGC-4656-YSC2	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				6 Secs (6 Secs) *[==>]*	*[1]*
2	NGC4656-YSC2 (1301303)	(14) NGC-4656-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=1691; FLASH=YES; FP-POS=3			490 Secs (490 Secs) *[==>]*	*[1]*
3	NGC4656-YSC2 (1301317)	(14) NGC-4656-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=1691; FLASH=YES; FP-POS=4			490 Secs (490 Secs) *[==>]*	*[1]*
4	NGC4656-YSC2 (1301319)	(14) NGC-4656-YSC2	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=1691; FLASH=YES; FP-POS=3			530 Secs (530 Secs) *[==>]*	*[1]*
5	NGC4656-YSC2 (1301319)	(14) NGC-4656-YSC2	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=1691; FLASH=YES; FP-POS=4			533 Secs (533 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 15627, M51-YSC1 (14), completed Wed Oct 23 20:00:55 GMT 2019
Diagnostic Status: Warning
Scientific Instruments: COS/FUV, COS/NUV
Special Requirements: ORIENT 55D TO 150 D; ORIENT 245D TO 330 D

Diagnostics

(M51-YSC1 (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(M51-YSC1 (14)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(M51-YSC1 (14)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(M51-YSC1 (14)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(M51-YSC1 (14)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(M51-YSC1 (14)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(M51-YSC1 (14)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(M51-YSC1 (14)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(M51-YSC1 (14)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(M51-YSC1 (14)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE

Fixed Targets

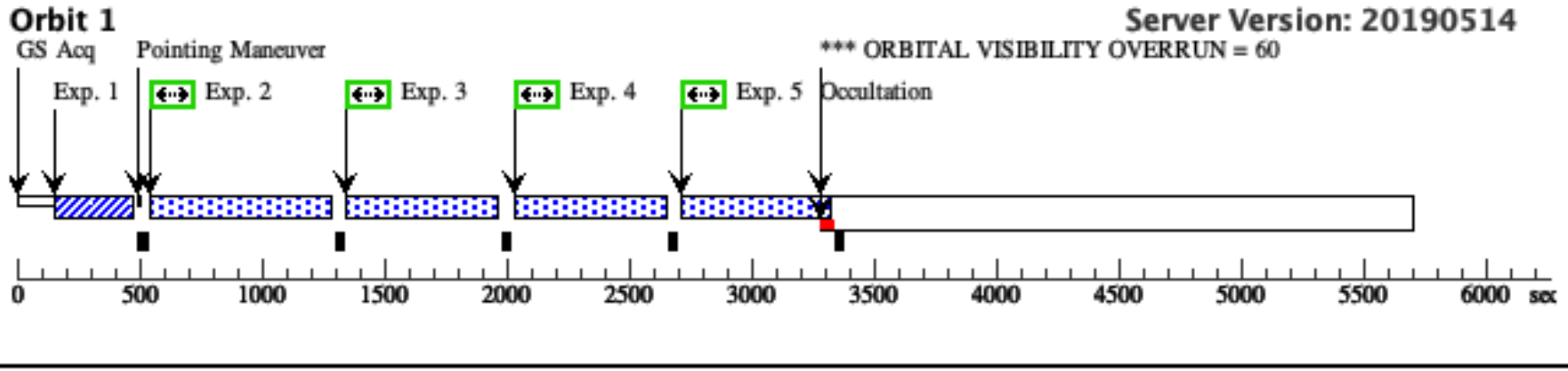
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(15)	M-51-YSC1	RA: 13 29 55.6610 (202.4819208d) Dec: +47 11 48.21 (47.19672d) Equinox: J2000		V=16.8 15.5 (F275W)	Reference Frame: SIMBAD

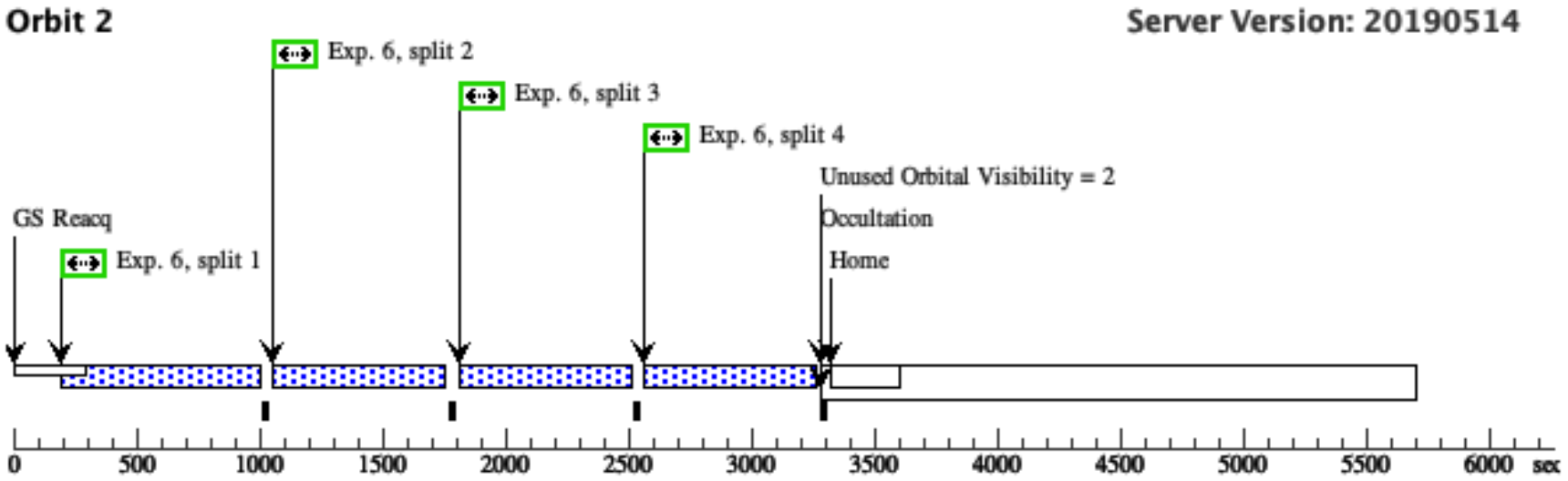
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[STAR FORMING REGION]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ-M51-YSC1 (1300994)	(15) M-51-YSC1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				13 Secs (13 Secs) *[==>]*	***[1]***
2	M51-YSC1 (1301312)	(15) M-51-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=3296; FLASH=YES; FP-POS=3			570 Secs (570 Secs) *[==>]*	***[1]***
3	M51-YSC1 (1301312)	(15) M-51-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=3296; FLASH=YES; FP-POS=3			570 Secs (570 Secs) *[==>]*	***[1]***
4	M51-YSC1 (1301312)	(15) M-51-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=3296; FLASH=YES; FP-POS=4			570 Secs (570 Secs) *[==>]*	***[1]***
5	M51-YSC1 (1301312)	(15) M-51-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=3296; FLASH=YES; FP-POS=4			565 Secs (565 Secs) *[==>]*	***[1]***
6	M51-YSC1 (1301313)	(15) M-51-YSC1	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=8272; FLASH=YES; FP-POS=ALL			650 Secs (2600 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[2]***

Orbit Structure





Visit

Proposal 15627, M51-YSC2 (15), completed Wed Oct 23 20:00:55 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(M51-YSC2 (15)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS
(M51-YSC2 (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(M51-YSC2 (15)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(M51-YSC2 (15)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(M51-YSC2 (15)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
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(M51-YSC2 (15)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE

Fixed Targets

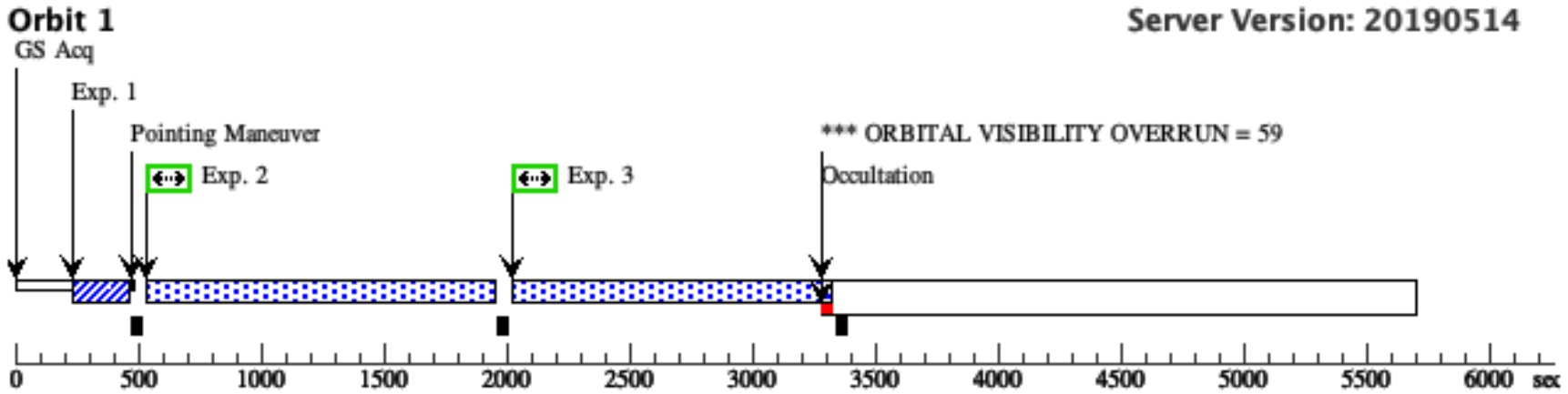
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(16)	M-51-YSC2	RA: 13 30 1.6950 (202.5070625d)		V=18.7	Reference Frame: SIMBAD
		Dec: +47 13 48.17 (47.23005d)		17.5 (F275W)	
		Equinox: J2000			

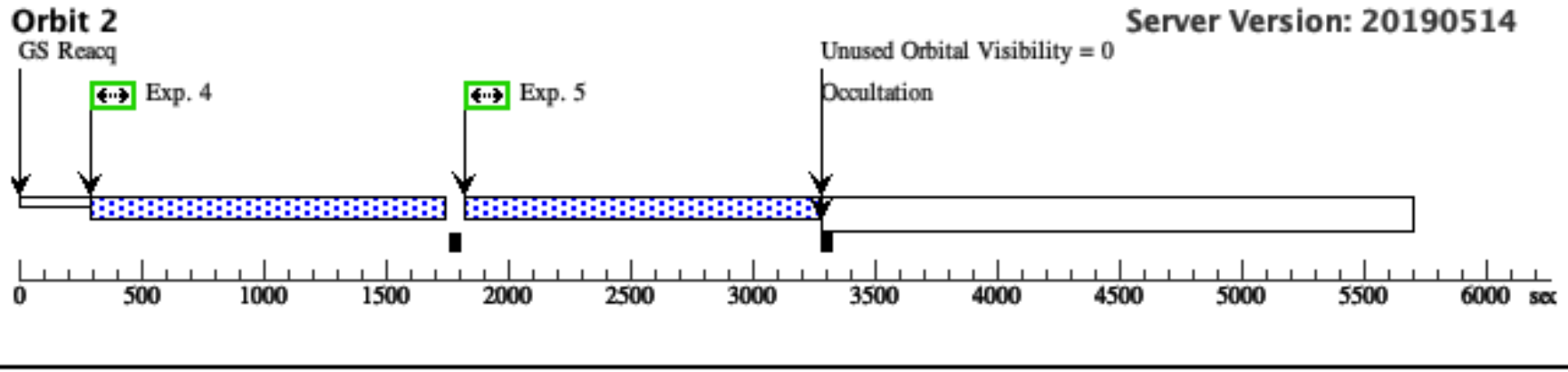
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[STAR FORMING REGION]
Extended=NO

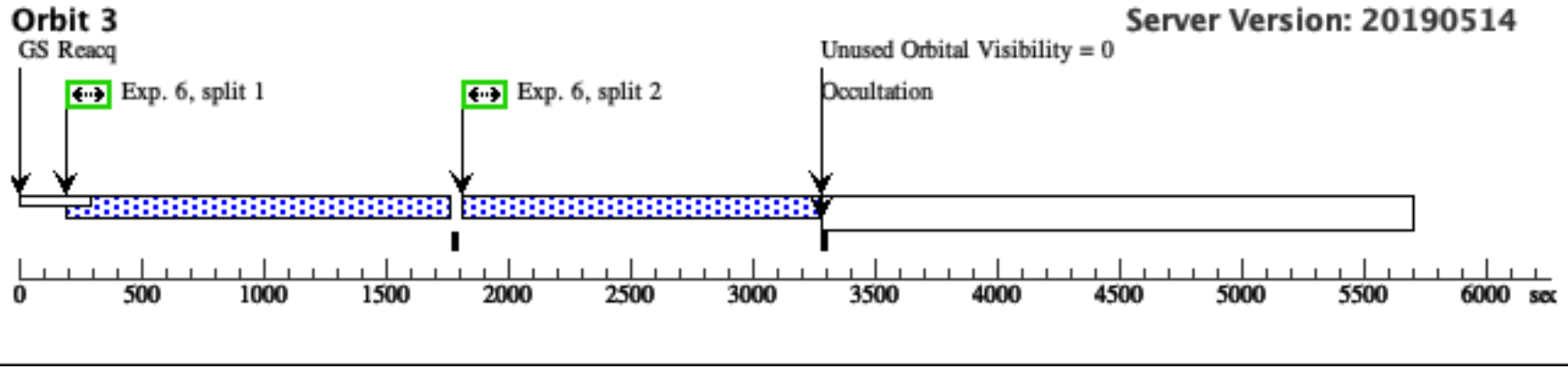
Exposures

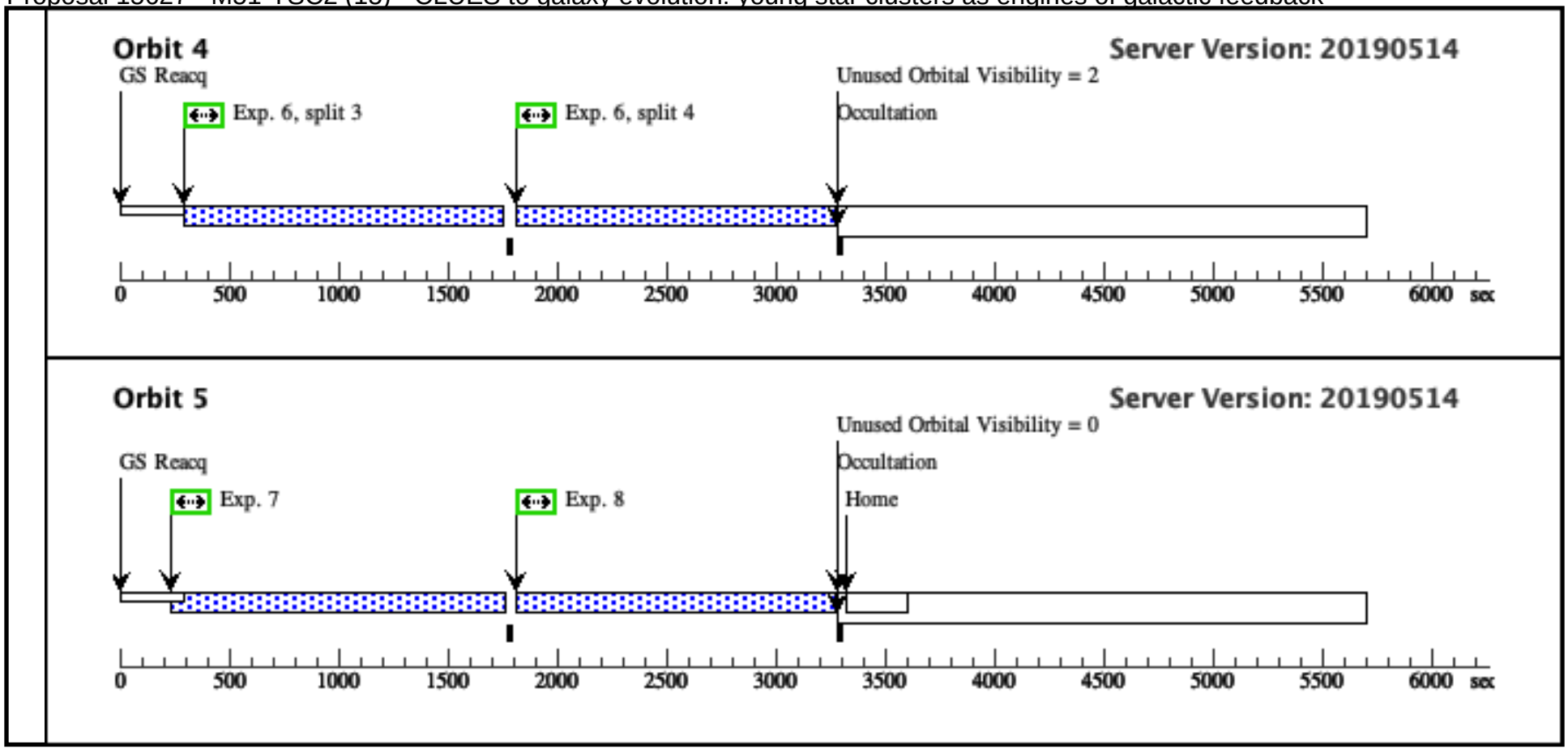
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ-M51-YSC2 (1300995)	(16) M-51-YSC2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				4 Secs (4 Secs) *[==>]*	*[1]*
2	M51-YSC2 (1301321)	(16) M-51-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; FP-POS=3; BUFFER-TIME=4767			1255 Secs (1255 Secs) *[==>]*	*[1]*
3	M51-YSC2 (1301321)	(16) M-51-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; FP-POS=3; BUFFER-TIME=4767			1255 Secs (1255 Secs) *[==>]*	*[1]*
4	M51-YSC2 (1301321)	(16) M-51-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; FP-POS=4; BUFFER-TIME=4767			1399 Secs (1399 Secs) *[==>]*	*[2]*
5	M51-YSC2 (1301321)	(16) M-51-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; FP-POS=4; BUFFER-TIME=4767			1399 Secs (1399 Secs) *[==>]*	*[2]*
6	M51-YSC2 (1301325)	(16) M-51-YSC2	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FLASH=YES; FP-POS=ALL; BUFFER-TIME=1810			1406 Secs (5624 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	*[3]* *[4]*
7	M51-YSC2 (1301325)	(16) M-51-YSC2	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FLASH=YES; FP-POS=3; BUFFER-TIME=1810			1407 Secs (1407 Secs) *[==>]*	*[5]*
8	M51-YSC2 (1301325)	(16) M-51-YSC2	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FLASH=YES; FP-POS=4; BUFFER-TIME=1810			1407 Secs (1407 Secs) *[==>]*	*[5]*

Orbit Structure








Orbit 4
Server Version: 20190514
GS Reacq
Exp. 6, split 3
Exp. 6, split 4
Unused Orbital Visibility = 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec
Orbit 5
Server Version: 20190514
Unused Orbital Visibility = 0
GS Reacq
Occultation
Exp. 7
Exp. 8
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15627, NGC7793-YSC1 (16), scheduled Wed Oct 23 20:00:55 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(NGC7793-YSC1 (16)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS
(NGC7793-YSC1 (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(NGC7793-YSC1 (16)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC7793-YSC1 (16)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
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(NGC7793-YSC1 (16)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE

Fixed Targets

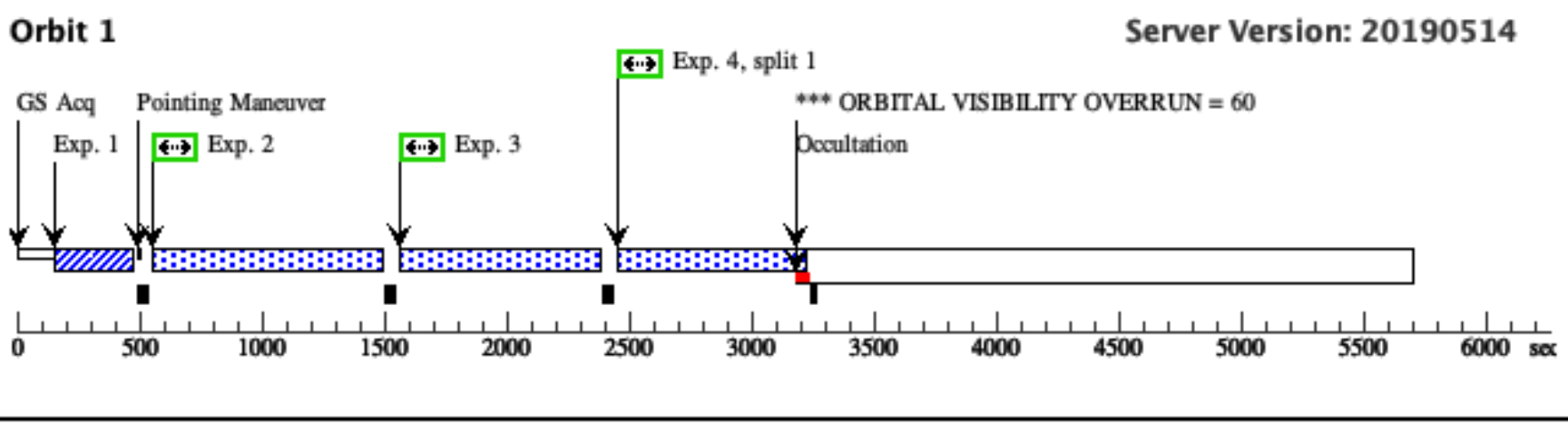
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(17)	NGC-7793-YSC1	RA: 23 57 48.8200 (359.4534167d) Dec: -32 34 53.52 (-32.58153d) Equinox: J2000		V=18.0 16 (F275W)	Reference Frame: SIMBAD

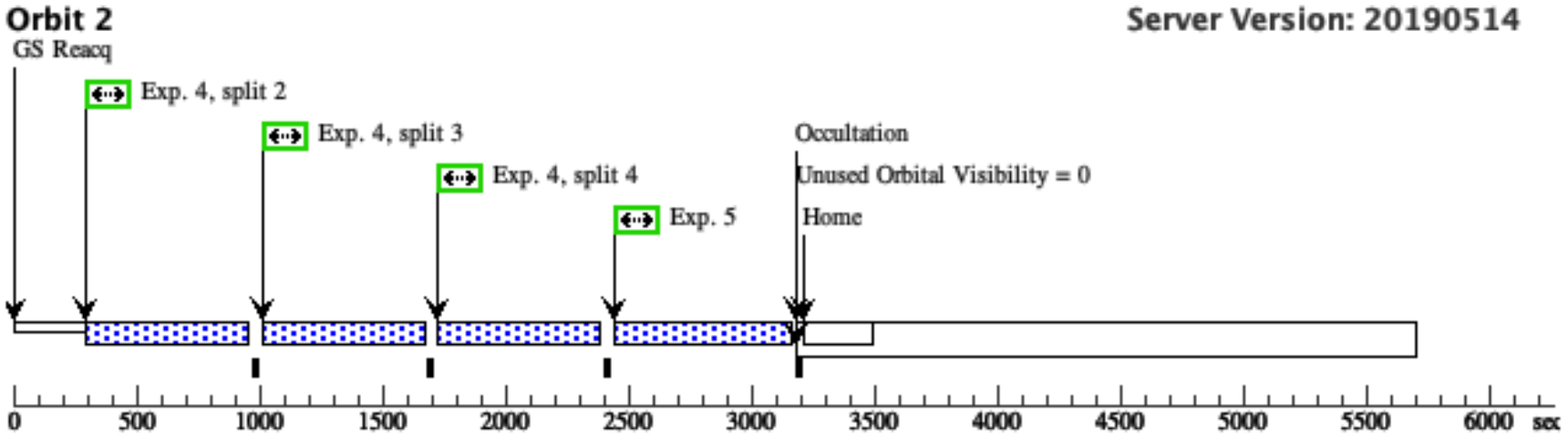
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[STAR FORMING REGION]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ-NGC7793-YSC1 (1300998)	(17) NGC-7793-YSC1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				15 Secs (15 Secs) *[==>]*	*[1]*
2	NGC7793-YSC1 (1301327)	(17) NGC-7793-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; FP-POS=3; BUFFER-TIME=2896			770 Secs (770 Secs) *[==>]*	*[1]*
3	NGC7793-YSC1 (1301327)	(17) NGC-7793-YSC1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FLASH=YES; FP-POS=4; BUFFER-TIME=2896			770 Secs (770 Secs) *[==>]*	*[1]*
4	NGC7793-YSC1 (1301329)	(17) NGC-7793-YSC1	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FLASH=YES; BUFFER-TIME=8726; FP-POS=ALL			609 Secs (2436 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	*[1]* *[2]*
5	NGC7793-YSC1 (1301329)	(17) NGC-7793-YSC1	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FLASH=YES; BUFFER-TIME=8726; FP-POS=3			605 Secs (605 Secs) *[==>]*	*[2]*

Orbit Structure





Visit

Proposal 15627, NGC7793-YSC2 (17), failed Wed Oct 23 20:00:56 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(NGC7793-YSC2 (17)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS
(NGC7793-YSC2 (17)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS
(NGC7793-YSC2 (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(NGC7793-YSC2 (17)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC7793-YSC2 (17)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
(NGC7793-YSC2 (17)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
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(NGC7793-YSC2 (17)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE

Fixed Targets

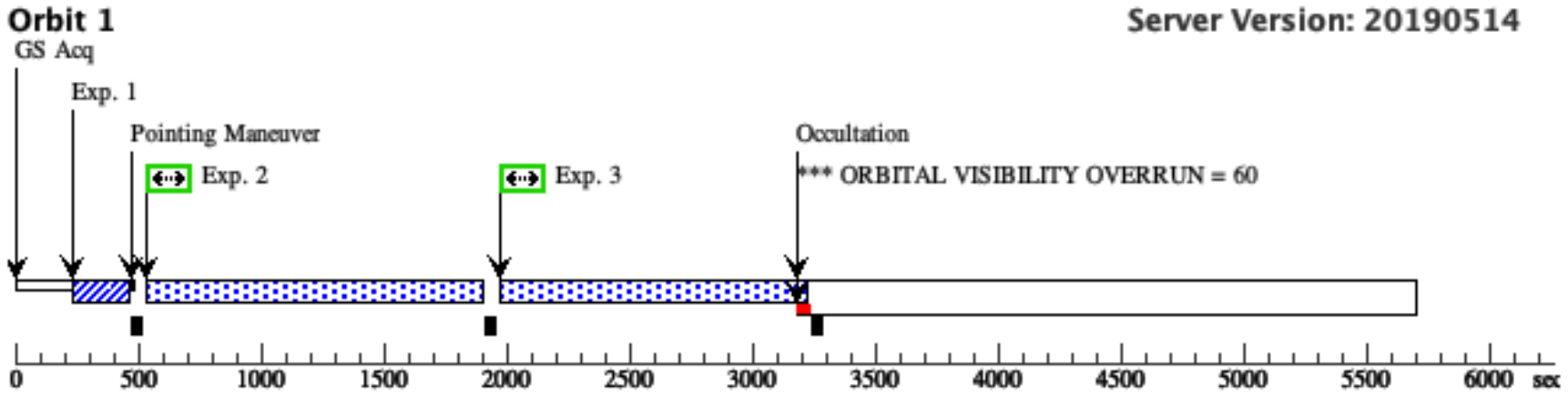
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(18)	NGC-7793-YSC2	RA: 23 57 36.0520 (359.4002167d)		V=18.5	Reference Frame: SIMBAD
		Dec: -32 35 40.55 (-32.59460d)		17.5 (F275W)	
		Equinox: J2000			

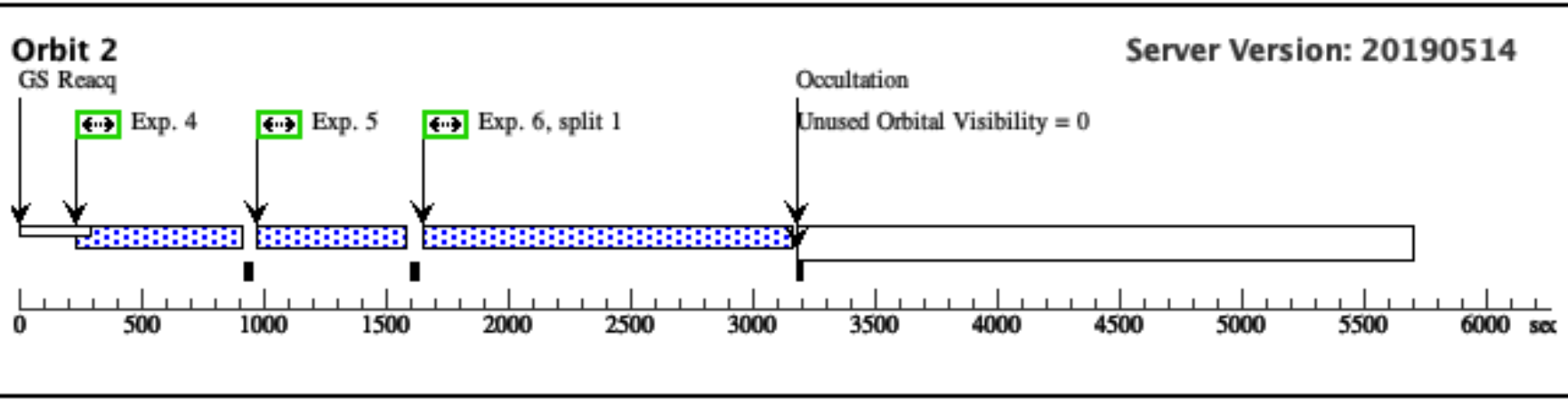
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[STAR FORMING REGION]
Extended=NO

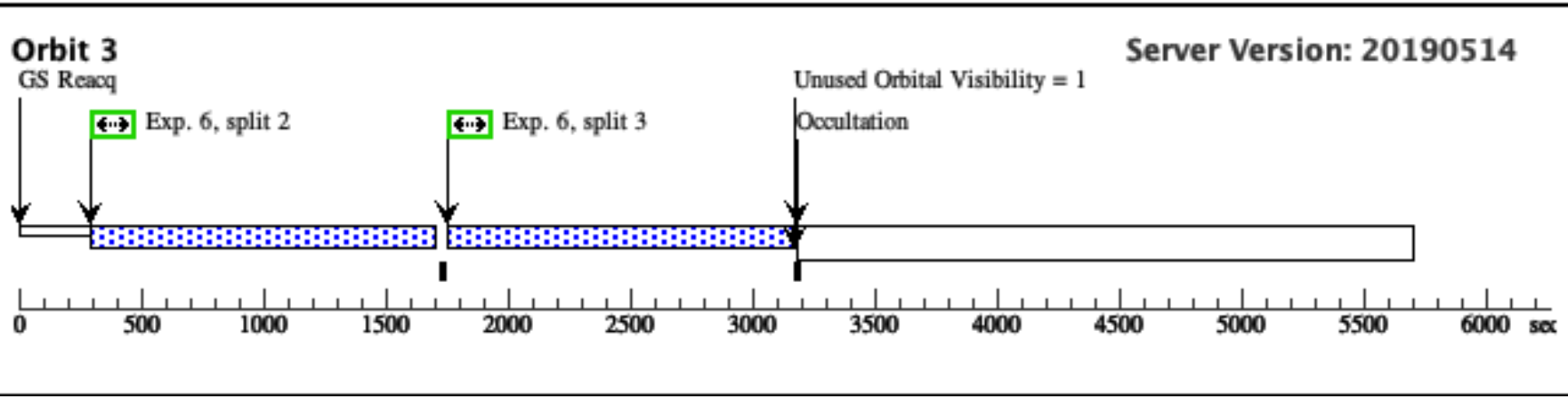
Exposures

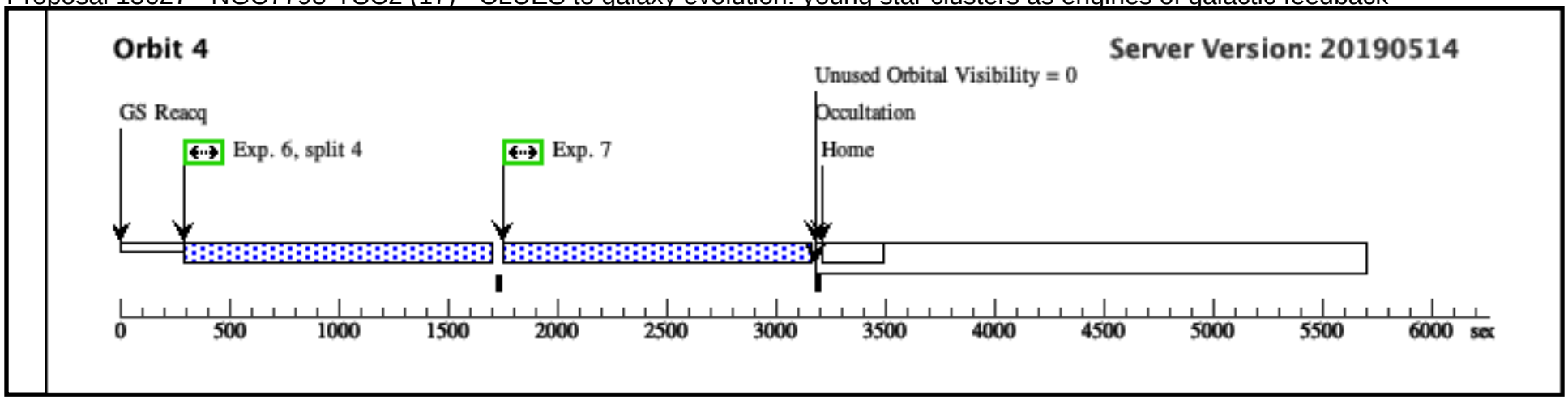
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ-NGC7793-YSC2 (1300999)	(18) NGC-7793-YSC2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				3.6 Secs (3.6 Secs) *[==>]*	***[1]***
2	NGC7793-YSC2 (1301337)	(18) NGC-7793-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=4679; FLASH=YES; FP-POS=3			1203 Secs (1203 Secs) *[==>]*	***[1]***
3	NGC7793-YSC2 (1301337)	(18) NGC-7793-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=4679; FLASH=YES; FP-POS=4			1200 Secs (1200 Secs) *[==>]*	***[1]***
4	NGC7793-YSC2 (1301337)	(18) NGC-7793-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=4679; FLASH=YES; FP-POS=3			561 Secs (561 Secs) *[==>]*	***[2]***
5	NGC7793-YSC2 (1301337)	(18) NGC-7793-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=4679; FLASH=YES; FP-POS=4			561 Secs (561 Secs) *[==>]*	***[2]***
6	NGC7793-YSC2 (1301340)	(18) NGC-7793-YSC2	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=18469; FLASH=YES; FP-POS=ALL			1354 Secs (5416 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[2]*** ***[3]*** ***[4]***
7	NGC7793-YSC2 (1301340)	(18) NGC-7793-YSC2	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FLASH=YES; BUFFER-TIME=18469; FP-POS=3			1288 Secs (1288 Secs) *[==>]*	***[4]***

Orbit Structure





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GS Reacq
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Exp. 7
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1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15627, NGC7793-YSC2 (Z7), scheduling Wed Oct 23 20:00:56 GMT 2019

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Comments: HOPR repeat of failed visit 17

Diagnostics

(NGC7793-YSC2 (Z7)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS
(NGC7793-YSC2 (Z7)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS
(NGC7793-YSC2 (Z7)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(NGC7793-YSC2 (Z7)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE
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(NGC7793-YSC2 (Z7)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE

Fixed Targets

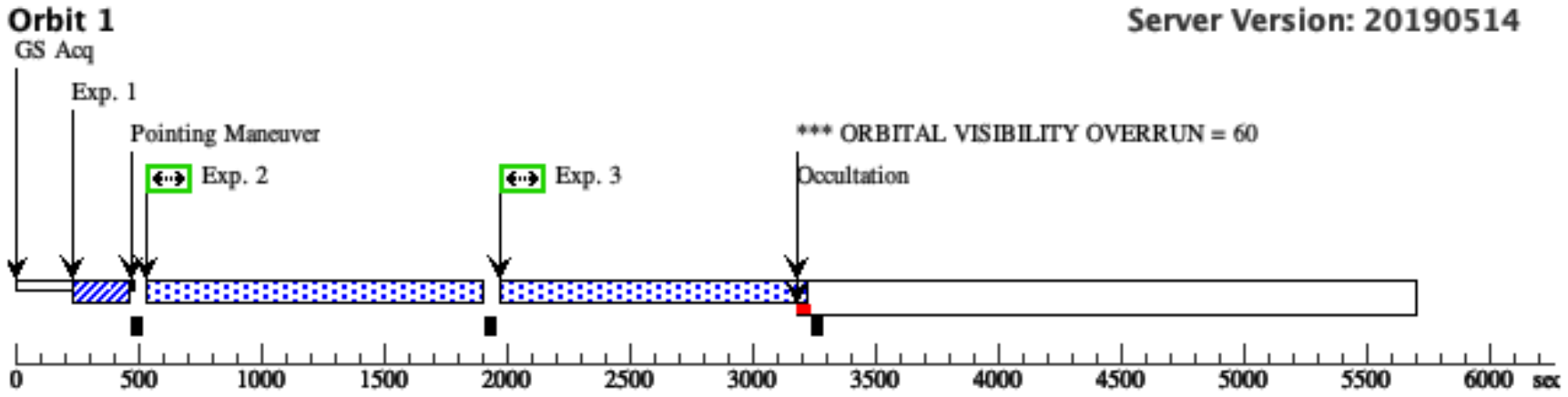
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(18)	NGC-7793-YSC2	RA: 23 57 36.0520 (359.4002167d)		V=18.5	Reference Frame: SIMBAD
		Dec: -32 35 40.55 (-32.59460d)		17.5 (F275W)	
		Equinox: J2000			

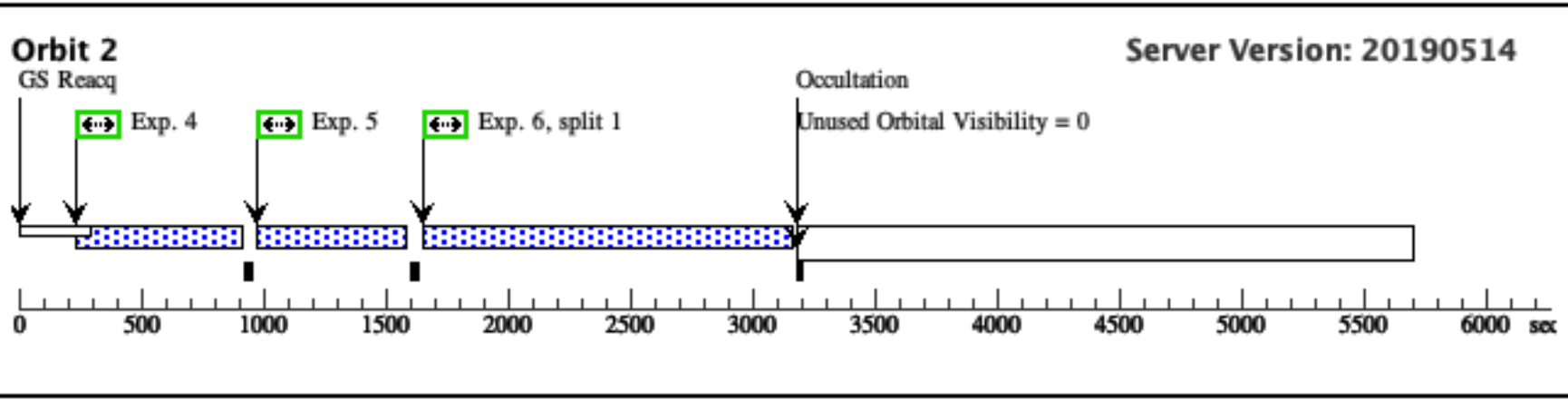
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[STAR FORMING REGION]
Extended=NO

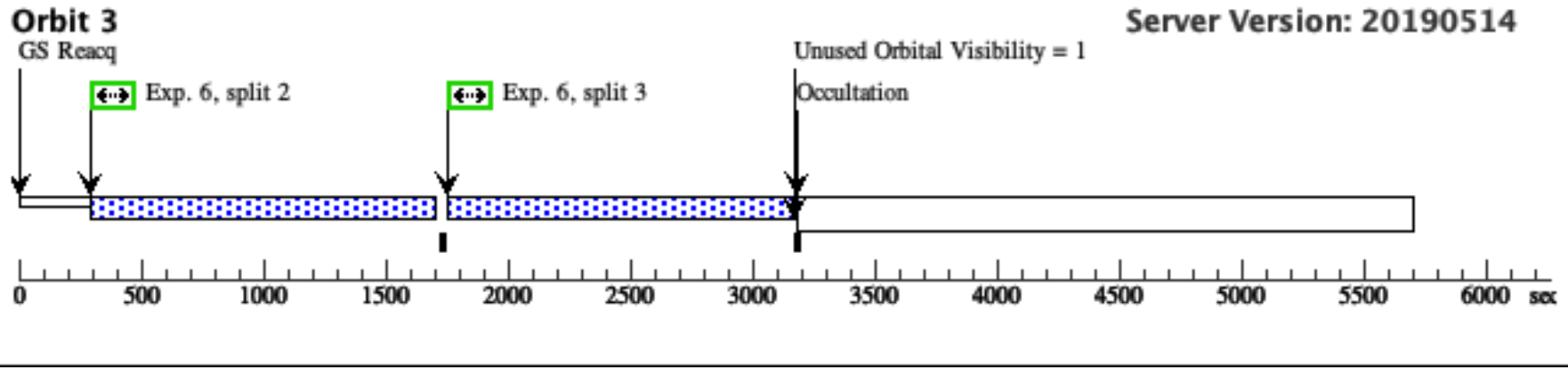
Exposures

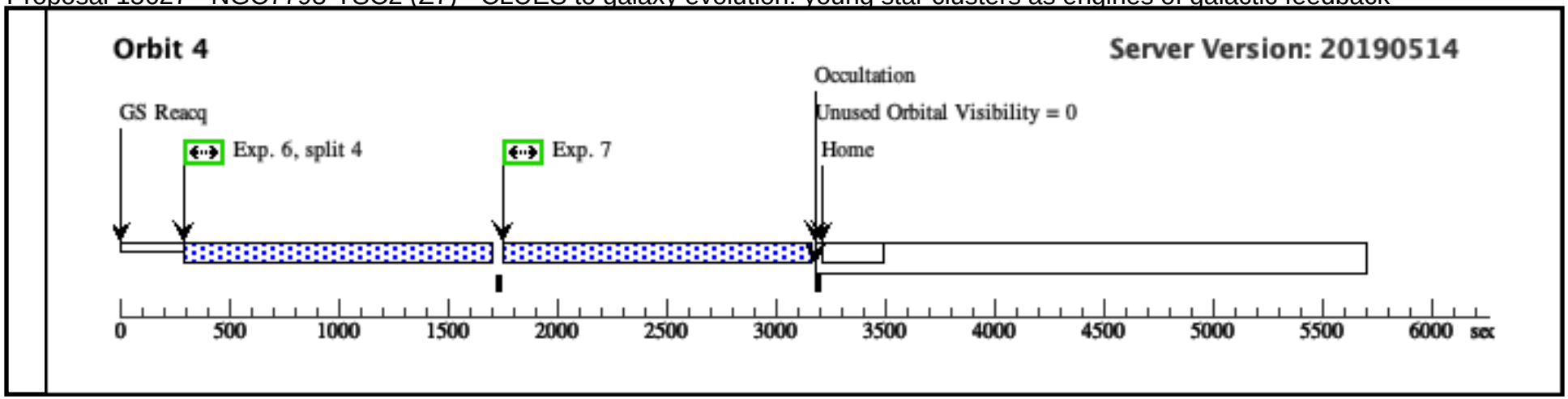
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ-NGC7793-YSC2 (1300999)	(18) NGC-7793-YSC2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				3.6 Secs (3.6 Secs) *[==>]*	 ***[1]***
2	NGC7793-YSC2 (1301337)	(18) NGC-7793-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=4679; FLASH=YES; FP-POS=3			1203 Secs (1203 Secs) *[==>]*	 ***[1]***
3	NGC7793-YSC2 (1301337)	(18) NGC-7793-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=4679; FLASH=YES; FP-POS=4			1200 Secs (1200 Secs) *[==>]*	 ***[1]***
4	NGC7793-YSC2 (1301337)	(18) NGC-7793-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=4679; FLASH=YES; FP-POS=3			561 Secs (561 Secs) *[==>]*	 ***[2]***
5	NGC7793-YSC2 (1301337)	(18) NGC-7793-YSC2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=4679; FLASH=YES; FP-POS=4			561 Secs (561 Secs) *[==>]*	 ***[2]***
6	NGC7793-YSC2 (1301340)	(18) NGC-7793-YSC2	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=18469; FLASH=YES; FP-POS=ALL			1354 Secs (5416 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	 ***[2]*** ***[3]*** ***[4]***
7	NGC7793-YSC2 (1301340)	(18) NGC-7793-YSC2	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FLASH=YES; BUFFER-TIME=18469; FP-POS=3			1288 Secs (1288 Secs) *[==>]*	 ***[4]***

Orbit Structure





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Occultation
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Exp. 7
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2500
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3500
4000
4500
5000
5500
6000
sec