13313 - Determining attenuation laws down to the Lyman break in z~0.3 galaxies

Cycle: 21, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) 781126	COS/FUV COS/NUV	2	18-Sep-2013 21:03:09.0	yes
02	(2) 1084255	COS/FUV COS/NUV	2	18-Sep-2013 21:03:21.0	yes
03	(3) 1235867	COS/FUV COS/NUV	2	18-Sep-2013 21:03:32.0	yes
04	(4) 1365128	COS/FUV COS/NUV	2	18-Sep-2013 21:03:42.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
05	(5) 1508056	COS/FUV COS/NUV	2	18-Sep-2013 21:03:51.0	yes
06	(6) 1511408	COS/FUV COS/NUV	2	18-Sep-2013 21:04:00.0	yes
07	(7) 1535411	COS/FUV COS/NUV	2	18-Sep-2013 21:04:09.0	yes
08	(8) 1727315	COS/FUV COS/NUV	2	18-Sep-2013 21:04:19.0	yes

16 Total Orbits Used

ABSTRACT

Star formation is the fundamental process transforming baryonic matter in the Universe, and governing the cycling of gas in-and-out of galaxies. Tracing accurately star formation is of critical importance to discriminate between galaxy evolution models.

The UV is where massive young stars emit the bulk of their energy and the wavelength of choice to track the evolution of the star formation across cosmic times. Presence of dust, however, impacts the UV emission from galaxies, by dimming and reddening it. Correcting the UV for dust attenuation is thus a crucial requirement to derive the physical parameters of galaxies. Significant variations from the widely used "starburst law" are observed from one galaxy to another, which may reflect systematic variations with stellar populations or galaxy morphology. These uncharacterized variations pose an important limitation to our ability to quantify properties of high-redshift galaxies, a regime where the starburst law is almost universally applied.

In order to determine and parametrize attenuation laws in the UV down to the Lyman break we propose to perform COS FUV spectroscopy on a sample of 8 star-forming galaxies at z~0.3. While broadband data can constrain dust masses and optical depth, they cannot reliably constrain the attenuation law itself due to degeneracies between the competing effects of stellar populations and dust. The combination of COS spectra with existing broadband observations will be crucial to address this issue. This will allow us to constrain dust models and will have a broad impact on the study of galaxies from the galactic neighborhood to ultra-high redshifts.

OBSERVING DESCRIPTION

Each of the 8 targets is observed over 2 orbits. For each orbit a short exposure in COS/NUV (ACCUM mode, MIRRORA) is taken followed by 2 COS/FUV spectroscopic exposures (TIME-TAG mode, grating G140L, CENWAVE 1105, FP-POS from 1 to 4 [1-2 for orbit 1 and 3-4 for orbit 2]).

No target acquisition is requested for the COS/FUV spectroscopic observations. The standard HST pointing accuracy (~0.3") is deemed sufficient for this program.

Total exposure times for each target are:
* COS/NUV imaging: 240s (over 2 exposures)
* COS/FUV spectroscopy: 4717s (over 4 exposures)

Visit

Proposal 13313, 781126 (01), implementation Thu Sep 19 01:04:28 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: (none)

Diagnostics

(781126 (01)) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronography with STIS or COS.

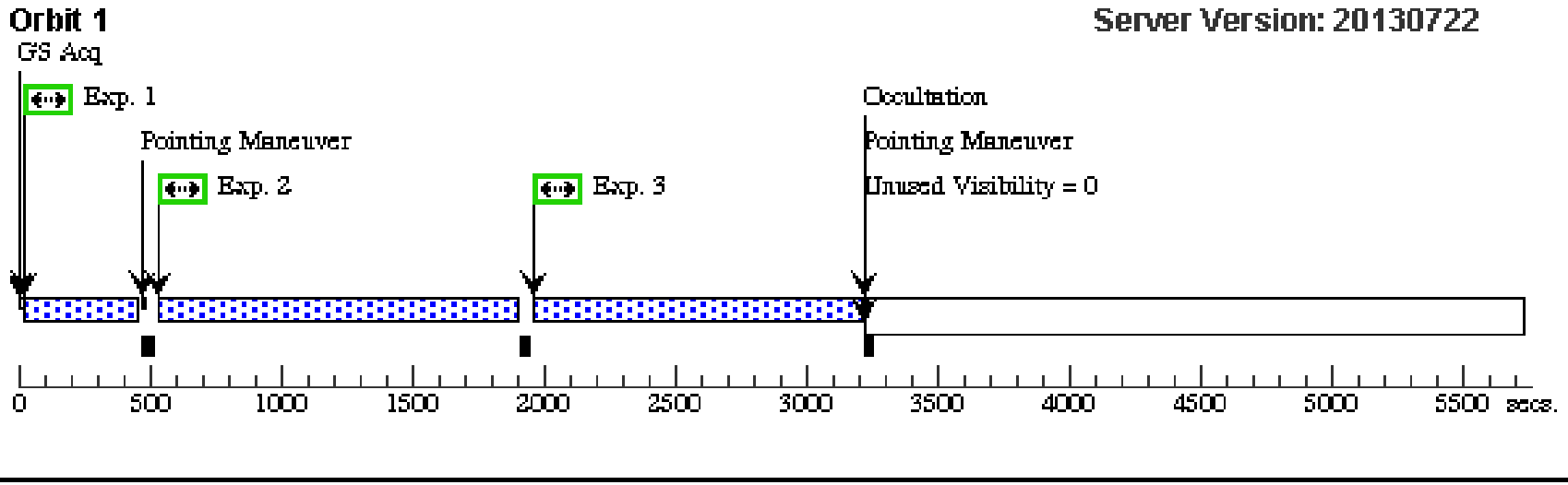
Fixed Targets

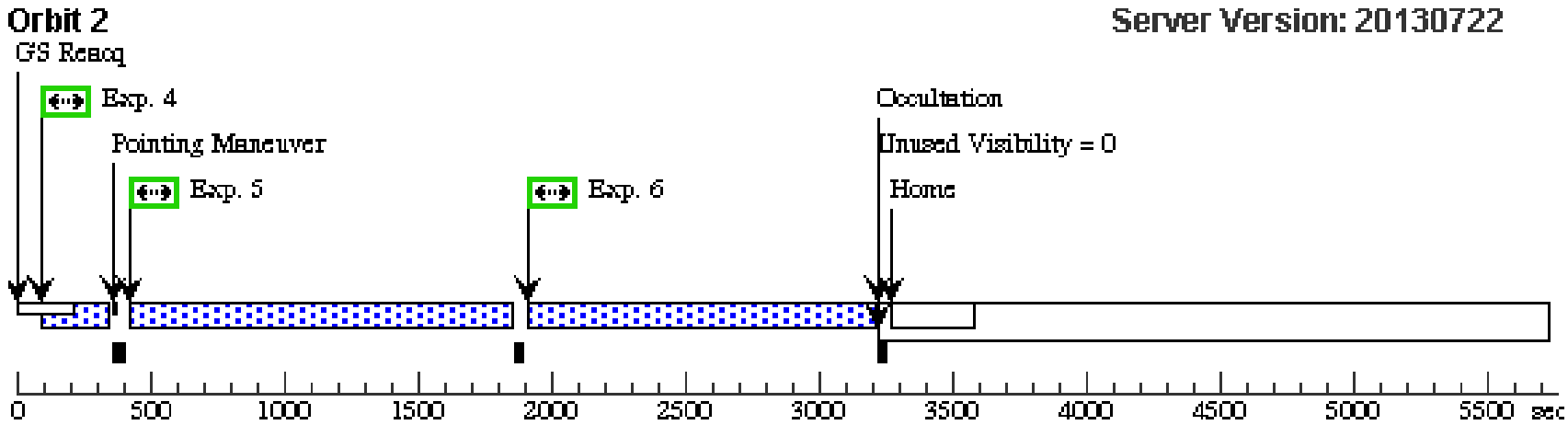
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	781126	RA: 10 00 35.7264 (150.1488600d) Dec: +02 01 13.43 (2.02040d) Equinox: J2000	Redshift: 0.27	V=19.8 21	Reference Frame: ICRS

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	COS/NUV (509830)	(1) 781126	COS/NUV, ACCUM, PSA	MIRRORA	EXTENDED=YES		Sequence 1-3 Non-Int in 781126 (01)	120 Secs (120 Secs) *[==>]*	*[1]*
2	COS/FUV FP-POS=1 (509832)	(1) 781126	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=1; SEGMENT=A; BUFFER-TIME=8940		Sequence 1-3 Non-Int in 781126 (01)	1194 Secs (1194 Secs) *[==>]*	*[1]*
3	COS/FUV FP-POS=2 (509832)	(1) 781126	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=2; SEGMENT=A; BUFFER-TIME=8940		Sequence 1-3 Non-Int in 781126 (01)	1195 Secs (1195 Secs) *[==>]*	*[1]*
4	COS/NUV (509830)	(1) 781126	COS/NUV, ACCUM, PSA	MIRRORA	EXTENDED=YES		Sequence 4-6 Non-Int in 781126 (01)	120 Secs (120 Secs) *[==>]*	*[2]*
5	COS/FUV FP-POS=3 (509832)	(1) 781126	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=3; SEGMENT=A; BUFFER-TIME=8940		Sequence 4-6 Non-Int in 781126 (01)	1250 Secs (1250 Secs) *[==>]*	*[2]*
6	COS/FUV FP-POS=4 (509832)	(1) 781126	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=4; SEGMENT=A; BUFFER-TIME=8940		Sequence 4-6 Non-Int in 781126 (01)	1250 Secs (1250 Secs) *[==>]*	*[2]*

Orbit Structure





Visit

Proposal 13313, 1084255 (02), implementation Thu Sep 19 01:04:30 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: (none)

Diagnostics

(1084255 (02)) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronography with STIS or COS.

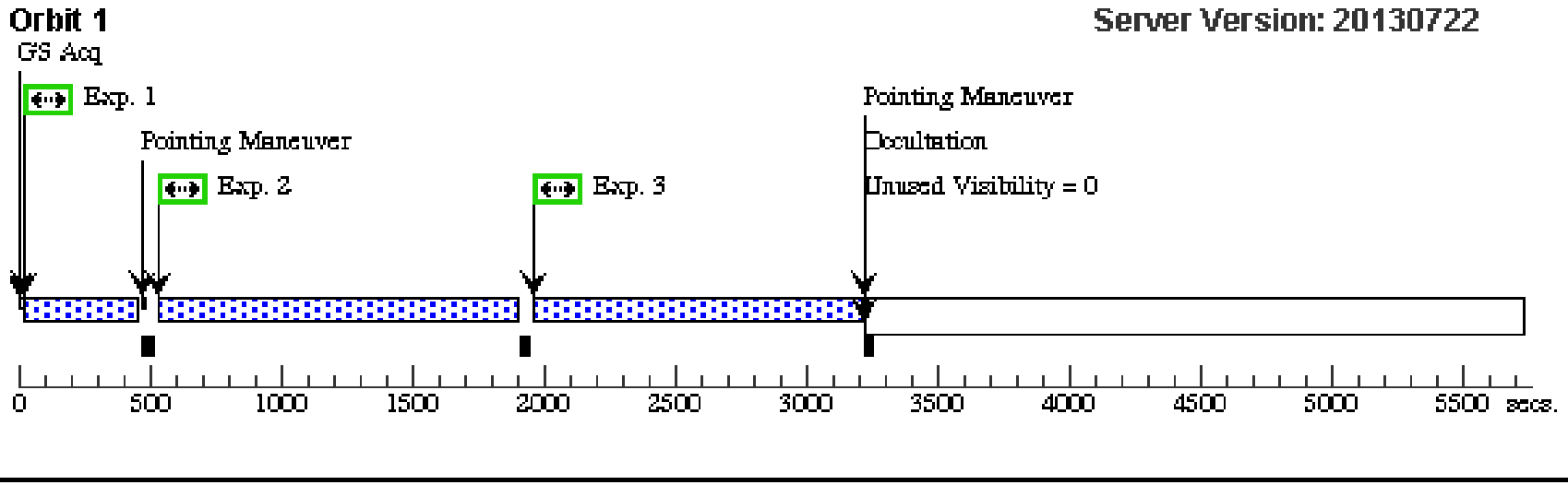
Fixed Targets

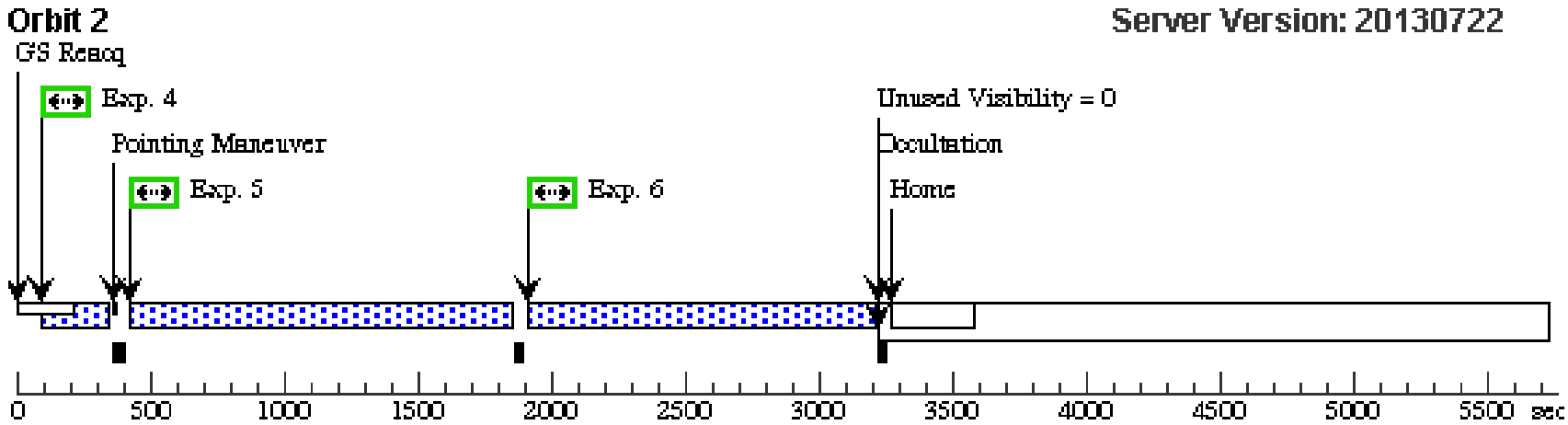
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	1084255	RA: 09 58 15.4870 (149.5645292d) Dec: +02 11 35.50 (2.19319d) Equinox: J2000	Redshift: 0.26	V=19.0 21.8	Reference Frame: ICRS

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	COS/NUV (509830)	(2) 1084255	COS/NUV, ACCUM, PSA	MIRRORA	EXTENDED=YES		Sequence 1-3 Non-Int in 1084255 (02)	120 Secs (120 Secs) *[==>]*	*[1]*
2	COS/FUV FP-POS=1 (509832)	(2) 1084255	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=1; SEGMENT=A; BUFFER-TIME=8940		Sequence 1-3 Non-Int in 1084255 (02)	1194 Secs (1194 Secs) *[==>]*	*[1]*
3	COS/FUV FP-POS=2 (509832)	(2) 1084255	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=2; SEGMENT=A; BUFFER-TIME=8940		Sequence 1-3 Non-Int in 1084255 (02)	1195 Secs (1195 Secs) *[==>]*	*[1]*
4	COS/NUV (509830)	(2) 1084255	COS/NUV, ACCUM, PSA	MIRRORA	EXTENDED=YES		Sequence 4-6 Non-Int in 1084255 (02)	120 Secs (120 Secs) *[==>]*	*[2]*
5	COS/FUV FP-POS=3 (509832)	(2) 1084255	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=3; SEGMENT=A; BUFFER-TIME=8940		Sequence 4-6 Non-Int in 1084255 (02)	1250 Secs (1250 Secs) *[==>]*	*[2]*
6	COS/FUV FP-POS=4 (509832)	(2) 1084255	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=4; SEGMENT=A; BUFFER-TIME=8940		Sequence 4-6 Non-Int in 1084255 (02)	1250 Secs (1250 Secs) *[==>]*	*[2]*

Orbit Structure





Visit

Proposal 13313, 1235867 (03), implementation

Thu Sep 19 01:04:31 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: (none)

Diagnostics

(1235867 (03)) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronography with STIS or COS.

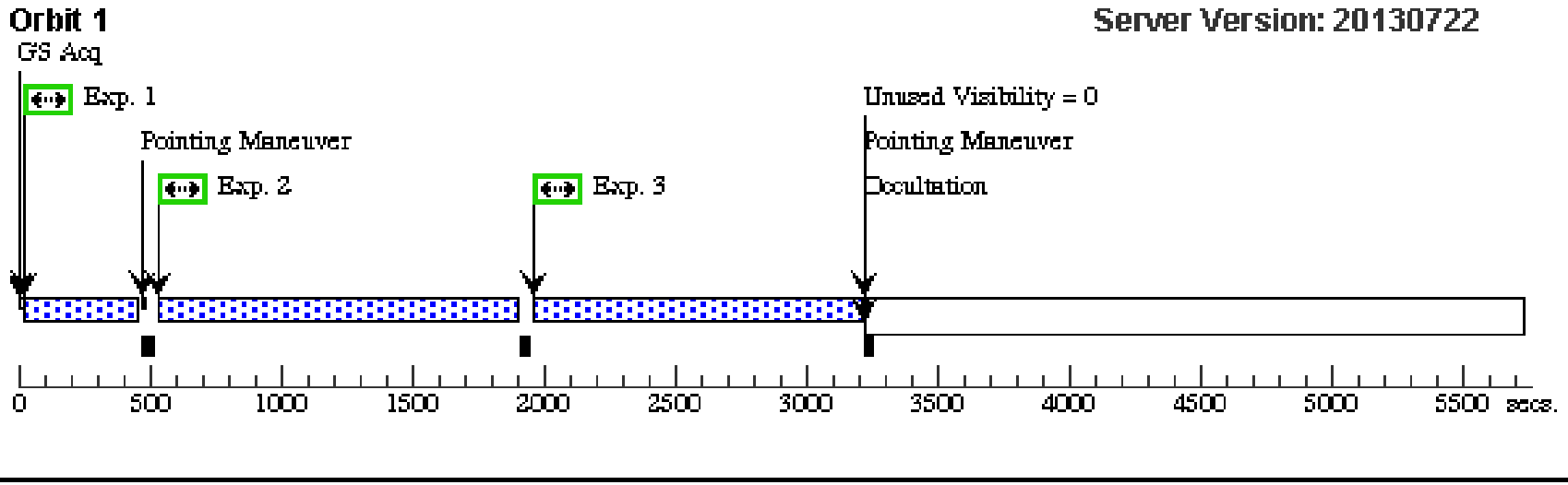
Fixed Targets

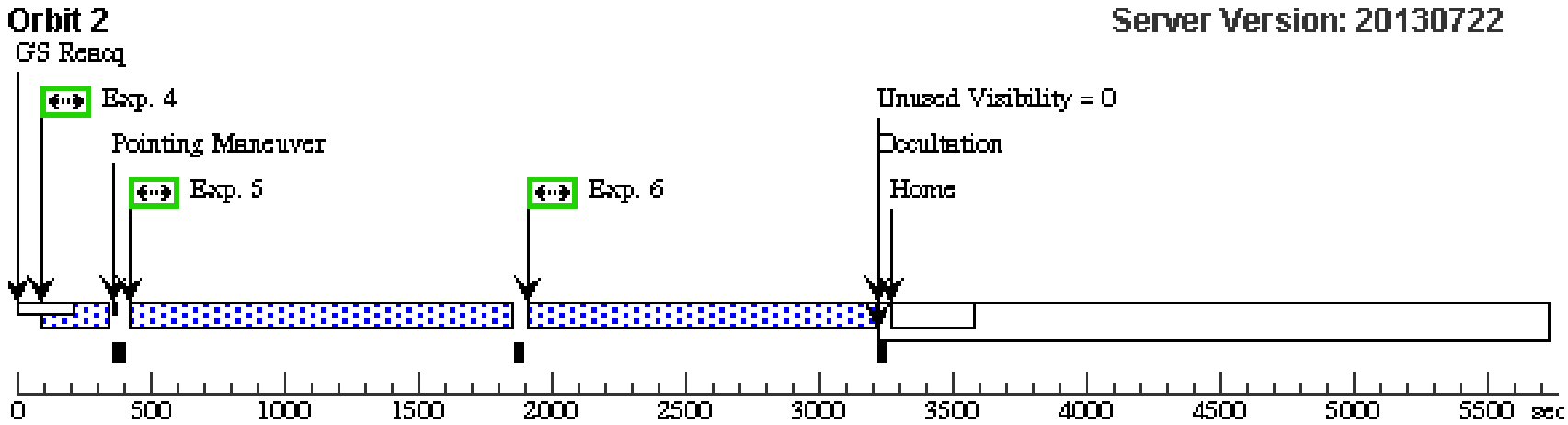
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	1235867	RA: 10 00 22.1664 (150.0923600d) Dec: +02 21 41.26 (2.36146d) Equinox: J2000	Redshift: 0.26	V=20.2 22.4	Reference Frame: ICRS

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	COS/NUV (509830)	(3) 1235867	COS/NUV, ACCUM, PSA	MIRRORA	EXTENDED=YES		Sequence 1-3 Non-Int in 1235867 (03)	120 Secs (120 Secs) *[==>]*	*[1]*
2	COS/FUV FP-POS=1 (509832)	(3) 1235867	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=1; SEGMENT=A; BUFFER-TIME=8940		Sequence 1-3 Non-Int in 1235867 (03)	1194 Secs (1194 Secs) *[==>]*	*[1]*
3	COS/FUV FP-POS=2 (509832)	(3) 1235867	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=2; SEGMENT=A; BUFFER-TIME=8940		Sequence 1-3 Non-Int in 1235867 (03)	1195 Secs (1195 Secs) *[==>]*	*[1]*
4	COS/NUV (509830)	(3) 1235867	COS/NUV, ACCUM, PSA	MIRRORA	EXTENDED=YES		Sequence 4-6 Non-Int in 1235867 (03)	120 Secs (120 Secs) *[==>]*	*[2]*
5	COS/FUV FP-POS=3 (509832)	(3) 1235867	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=3; SEGMENT=A; BUFFER-TIME=8940		Sequence 4-6 Non-Int in 1235867 (03)	1250 Secs (1250 Secs) *[==>]*	*[2]*
6	COS/FUV FP-POS=4 (509832)	(3) 1235867	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=4; SEGMENT=A; BUFFER-TIME=8940		Sequence 4-6 Non-Int in 1235867 (03)	1250 Secs (1250 Secs) *[==>]*	*[2]*

Orbit Structure





Visit

Proposal 13313, 1365128 (04), implementation Thu Sep 19 01:04:33 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: (none)

Diagnostics

(1365128 (04)) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronography with STIS or COS.

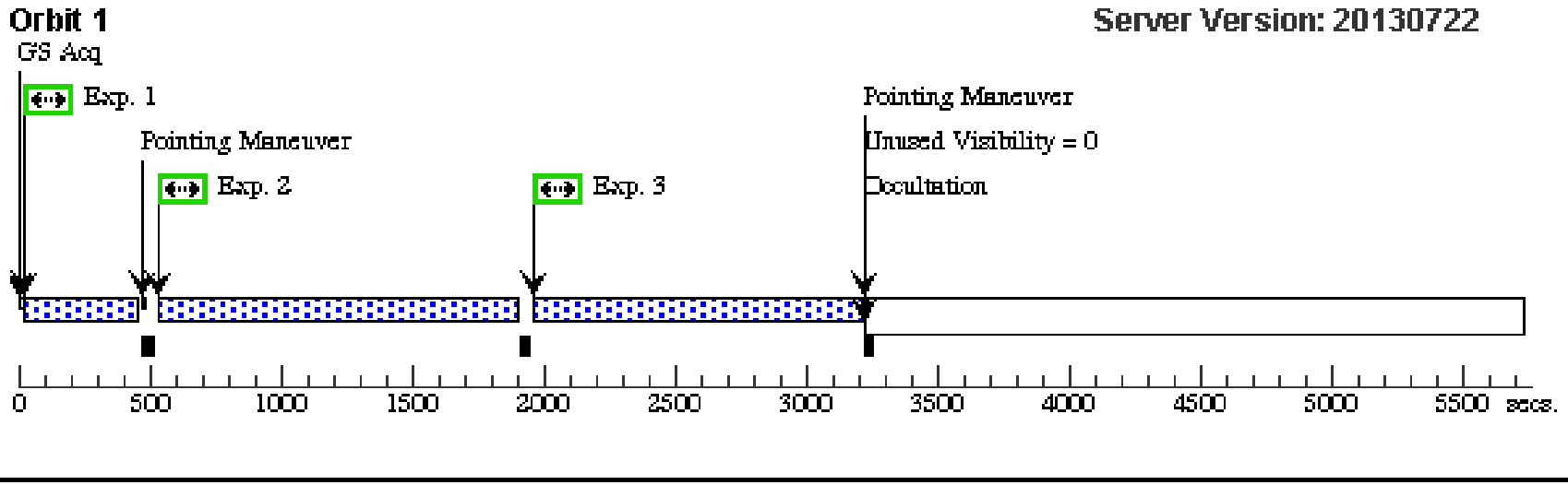
Fixed Targets

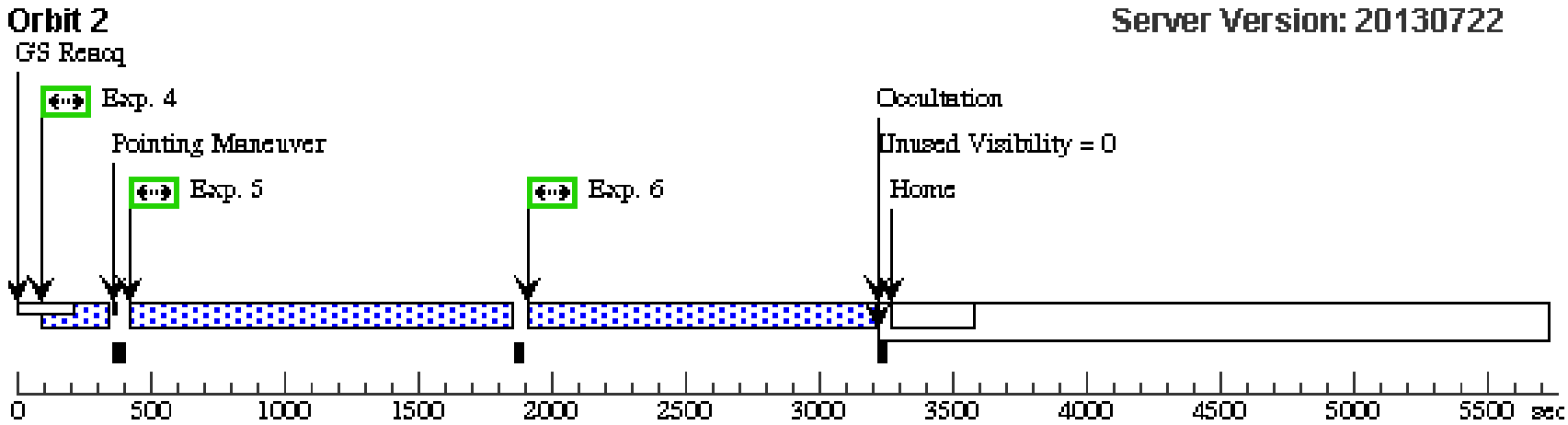
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	1365128	RA: 10 02 55.6752 (150.7319800d) Dec: +02 30 25.34 (2.50704d) Equinox: J2000	Redshift: 0.27	V=19.8 22.1	Reference Frame: ICRS

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	COS/NUV (509830)	(4) 1365128	COS/NUV, ACCUM, PSA	MIRRORA	EXTENDED=YES		Sequence 1-3 Non-Int in 1365128 (04)	120 Secs (120 Secs) *[==>]*	*[1]*
2	COS/FUV FP-POS=1 (509832)	(4) 1365128	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=1; SEGMENT=A; BUFFER-TIME=8940		Sequence 1-3 Non-Int in 1365128 (04)	1194 Secs (1194 Secs) *[==>]*	*[1]*
3	COS/FUV FP-POS=2 (509832)	(4) 1365128	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=2; SEGMENT=A; BUFFER-TIME=8940		Sequence 1-3 Non-Int in 1365128 (04)	1195 Secs (1195 Secs) *[==>]*	*[1]*
4	COS/NUV (509830)	(4) 1365128	COS/NUV, ACCUM, PSA	MIRRORA	EXTENDED=YES		Sequence 4-6 Non-Int in 1365128 (04)	120 Secs (120 Secs) *[==>]*	*[2]*
5	COS/FUV FP-POS=3 (509832)	(4) 1365128	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=3; SEGMENT=A; BUFFER-TIME=8940		Sequence 4-6 Non-Int in 1365128 (04)	1250 Secs (1250 Secs) *[==>]*	*[2]*
6	COS/FUV FP-POS=4 (509832)	(4) 1365128	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=4; SEGMENT=A; BUFFER-TIME=8940		Sequence 4-6 Non-Int in 1365128 (04)	1250 Secs (1250 Secs) *[==>]*	*[2]*

Orbit Structure





Visit

Proposal 13313, 1508056 (05), implementation Thu Sep 19 01:04:34 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: (none)

Diagnostics

(1508056 (05)) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronography with STIS or COS.

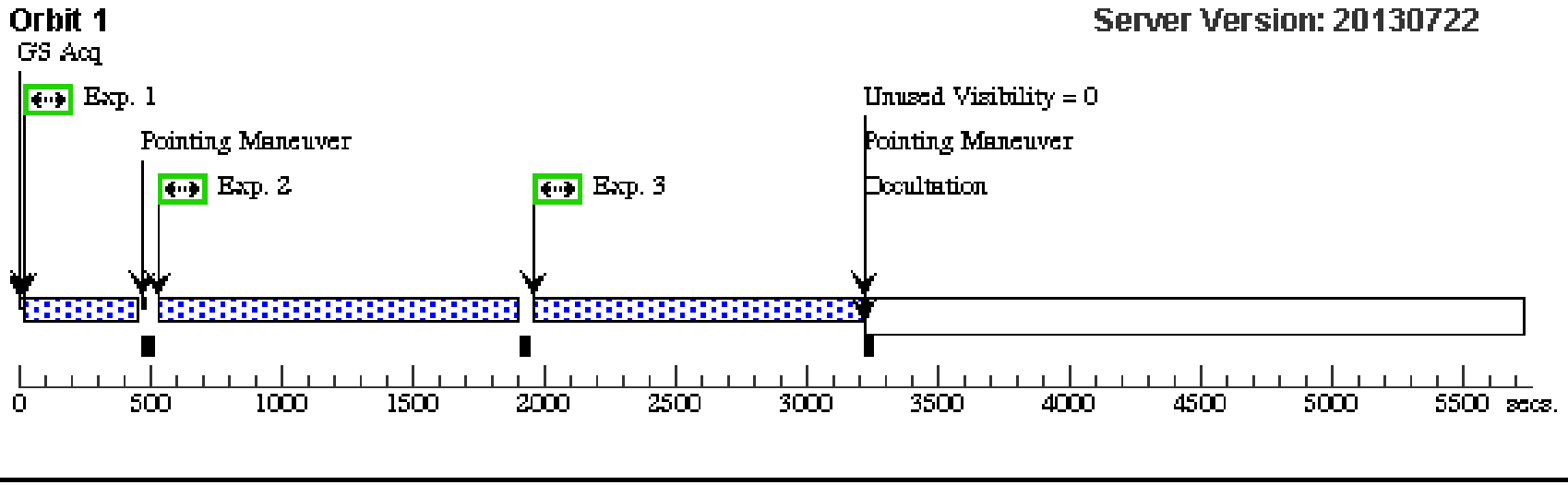
Fixed Targets

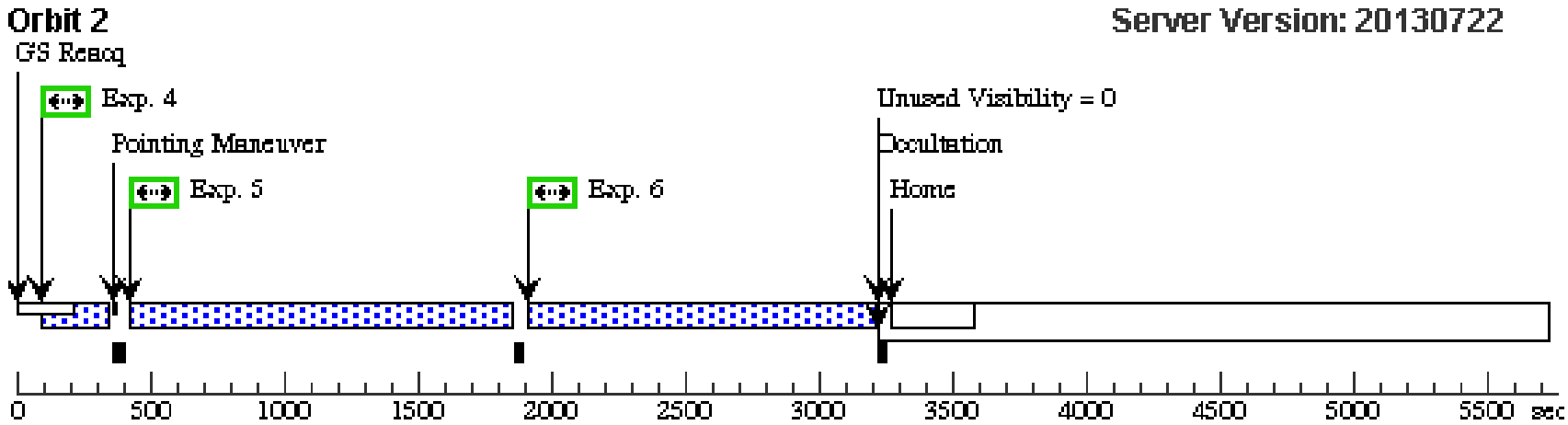
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	1508056	RA: 09 59 8.7336 (149.7863900d) Dec: +02 30 29.56 (2.50821d) Equinox: J2000	Redshift: 0.32	V=21.0 22.5	Reference Frame: ICRS

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	COS/NUV (509830)	(5) 1508056	COS/NUV, ACCUM, PSA	MIRRORA	EXTENDED=YES		Sequence 1-3 Non-Int in 1508056 (05)	120 Secs (120 Secs) *[==>]*	*[1]*
2	COS/FUV FP-POS=1 (509832)	(5) 1508056	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=1; SEGMENT=A; BUFFER-TIME=8940		Sequence 1-3 Non-Int in 1508056 (05)	1194 Secs (1194 Secs) *[==>]*	*[1]*
3	COS/FUV FP-POS=2 (509832)	(5) 1508056	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=2; SEGMENT=A; BUFFER-TIME=8940		Sequence 1-3 Non-Int in 1508056 (05)	1195 Secs (1195 Secs) *[==>]*	*[1]*
4	COS/NUV (509830)	(5) 1508056	COS/NUV, ACCUM, PSA	MIRRORA	EXTENDED=YES		Sequence 4-6 Non-Int in 1508056 (05)	120 Secs (120 Secs) *[==>]*	*[2]*
5	COS/FUV FP-POS=3 (509832)	(5) 1508056	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=3; SEGMENT=A; BUFFER-TIME=8940		Sequence 4-6 Non-Int in 1508056 (05)	1250 Secs (1250 Secs) *[==>]*	*[2]*
6	COS/FUV FP-POS=4 (509832)	(5) 1508056	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=4; SEGMENT=A; BUFFER-TIME=8940		Sequence 4-6 Non-Int in 1508056 (05)	1250 Secs (1250 Secs) *[==>]*	*[2]*

Orbit Structure





Visit

Proposal 13313, 1511408 (06), implementation Thu Sep 19 01:04:35 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: (none)

Diagnostics

(1511408 (06)) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronography with STIS or COS.

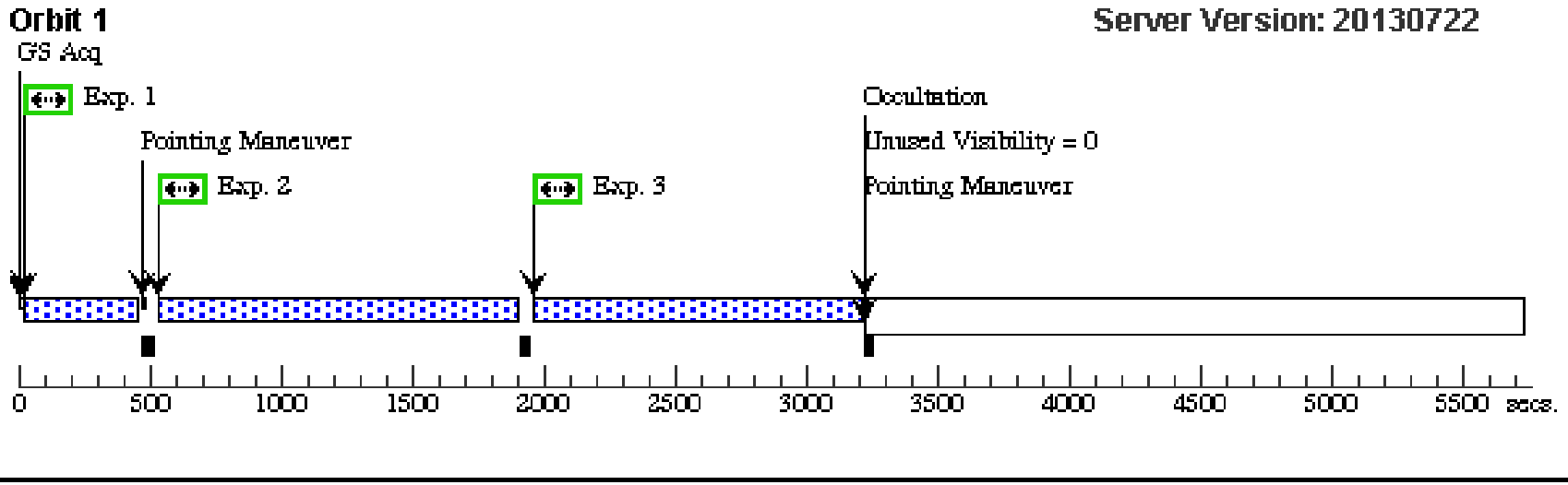
Fixed Targets

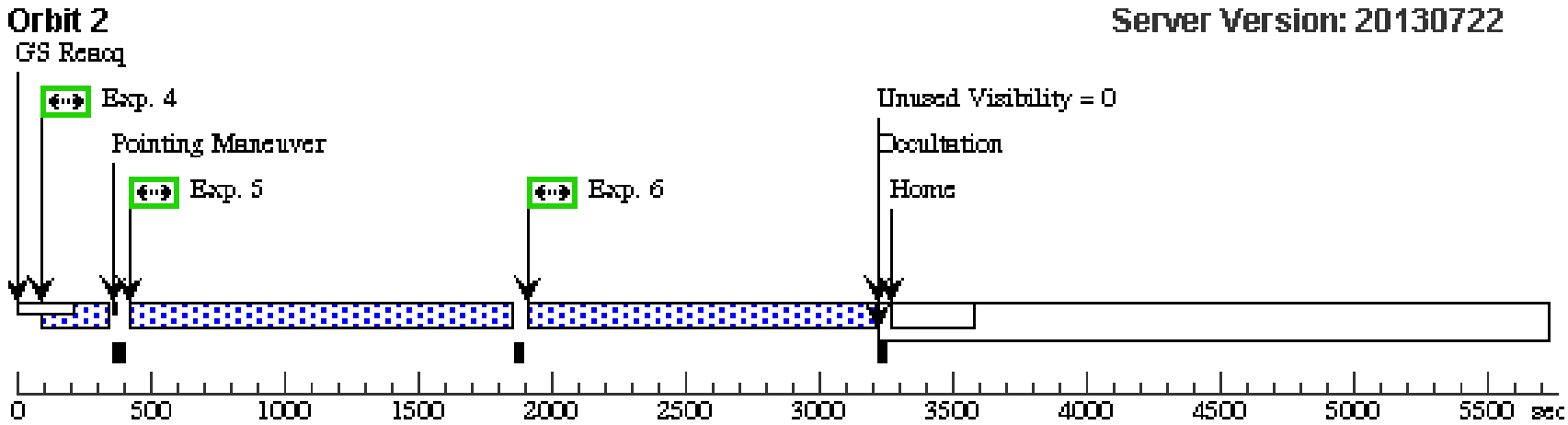
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	1511408	RA: 09 59 3.6048 (149.7650200d) Dec: +02 28 33.19 (2.47589d) Equinox: J2000	Redshift: 0.26	V=19.5 21.9	Reference Frame: ICRS

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	COS/NUV (509830)	(6) 1511408	COS/NUV, ACCUM, PSA	MIRRORA	EXTENDED=YES		Sequence 1-3 Non-Int in 1511408 (06)	120 Secs (120 Secs) *[==>]*	*[1]*
2	COS/FUV FP-POS=1 (509832)	(6) 1511408	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=1; SEGMENT=A; BUFFER-TIME=8940		Sequence 1-3 Non-Int in 1511408 (06)	1194 Secs (1194 Secs) *[==>]*	*[1]*
3	COS/FUV FP-POS=2 (509832)	(6) 1511408	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=2; SEGMENT=A; BUFFER-TIME=8940		Sequence 1-3 Non-Int in 1511408 (06)	1195 Secs (1195 Secs) *[==>]*	*[1]*
4	COS/NUV (509830)	(6) 1511408	COS/NUV, ACCUM, PSA	MIRRORA	EXTENDED=YES		Sequence 4-6 Non-Int in 1511408 (06)	120 Secs (120 Secs) *[==>]*	*[2]*
5	COS/FUV FP-POS=3 (509832)	(6) 1511408	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=3; SEGMENT=A; BUFFER-TIME=8940		Sequence 4-6 Non-Int in 1511408 (06)	1250 Secs (1250 Secs) *[==>]*	*[2]*
6	COS/FUV FP-POS=4 (509832)	(6) 1511408	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=4; SEGMENT=A; BUFFER-TIME=8940		Sequence 4-6 Non-Int in 1511408 (06)	1250 Secs (1250 Secs) *[==>]*	*[2]*

Orbit Structure





Visit

Proposal 13313, 1535411 (07), implementation Thu Sep 19 01:04:36 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: (none)

Diagnostics

(1535411 (07)) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronography with STIS or COS.

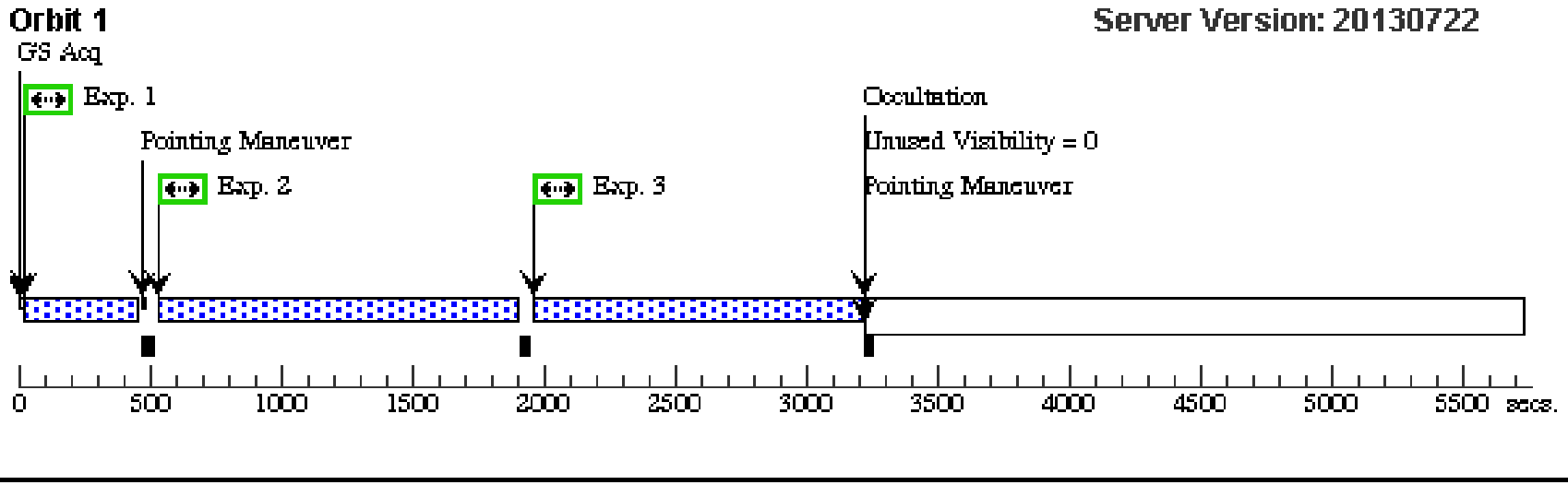
Fixed Targets

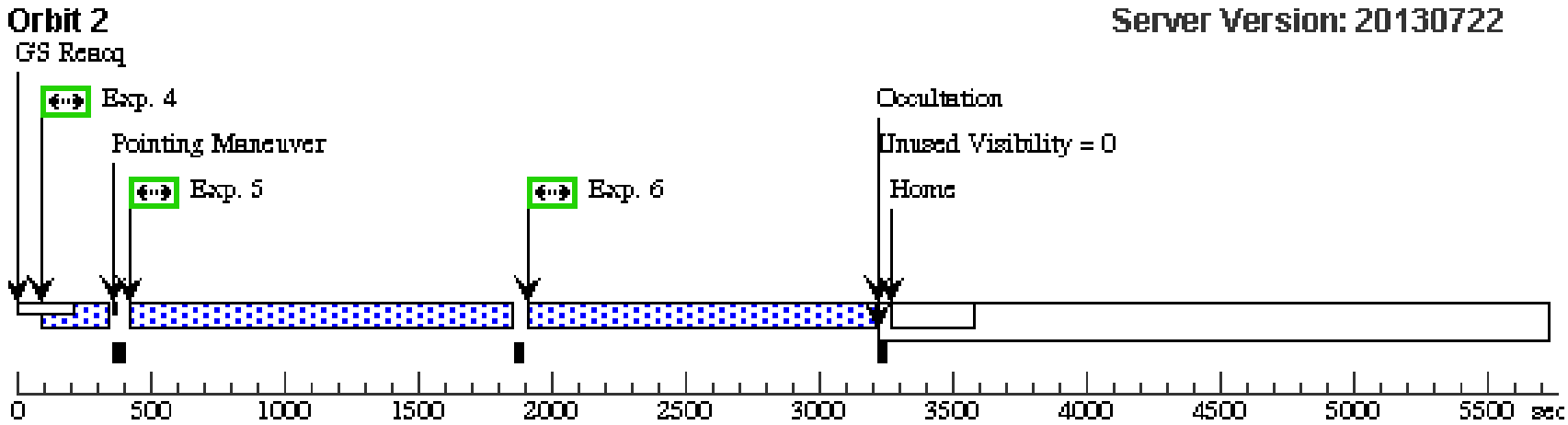
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	1535411	RA: 09 58 44.0928 (149.6837200d) Dec: +02 28 43.97 (2.47888d) Equinox: J2000	Redshift: 0.31	V=19.7 22.0	Reference Frame: ICRS

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	COS/NUV (509830)	(7) 1535411	COS/NUV, ACCUM, PSA	MIRRORA	EXTENDED=YES		Sequence 1-3 Non-Int in 1535411 (07)	120 Secs (120 Secs) *[==>]*	*[1]*
2	COS/FUV FP-POS=1 (509832)	(7) 1535411	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=1; SEGMENT=A; BUFFER-TIME=8940		Sequence 1-3 Non-Int in 1535411 (07)	1194 Secs (1194 Secs) *[==>]*	*[1]*
3	COS/FUV FP-POS=2 (509832)	(7) 1535411	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=2; SEGMENT=A; BUFFER-TIME=8940		Sequence 1-3 Non-Int in 1535411 (07)	1195 Secs (1195 Secs) *[==>]*	*[1]*
4	COS/NUV (509830)	(7) 1535411	COS/NUV, ACCUM, PSA	MIRRORA	EXTENDED=YES		Sequence 4-6 Non-Int in 1535411 (07)	120 Secs (120 Secs) *[==>]*	*[2]*
5	COS/FUV FP-POS=3 (509832)	(7) 1535411	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=3; SEGMENT=A; BUFFER-TIME=8940		Sequence 4-6 Non-Int in 1535411 (07)	1250 Secs (1250 Secs) *[==>]*	*[2]*
6	COS/FUV FP-POS=4 (509832)	(7) 1535411	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=4; SEGMENT=A; BUFFER-TIME=8940		Sequence 4-6 Non-Int in 1535411 (07)	1250 Secs (1250 Secs) *[==>]*	*[2]*

Orbit Structure





Visit

Proposal 13313, 1727315 (08), implementation Thu Sep 19 01:04:37 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: (none)

Diagnostics

(1727315 (08)) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronography with STIS or COS.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	1727315	RA: 09 59 21.3408 (149.8389200d) Dec: +02 40 30.29 (2.67508d) Equinox: J2000	Redshift: 0.26	V=18.1 21.6	Reference Frame: ICRS

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	COS/NUV (509830)	(8) 1727315	COS/NUV, ACCUM, PSA	MIRRORA	EXTENDED=YES	GS ACQ SCENARIO BASE1B3	Sequence 1-3 Non-Int in 1727315 (08)	120 Secs (120 Secs) *[==>]*	*[1]*
2	COS/FUV FP-POS=1 (509832)	(8) 1727315	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=1; SEGMENT=A; BUFFER-TIME=8940		Sequence 1-3 Non-Int in 1727315 (08)	1194 Secs (1194 Secs) *[==>]*	*[1]*
3	COS/FUV FP-POS=2 (509832)	(8) 1727315	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=2; SEGMENT=A; BUFFER-TIME=8940		Sequence 1-3 Non-Int in 1727315 (08)	1195 Secs (1195 Secs) *[==>]*	*[1]*
4	COS/NUV (509830)	(8) 1727315	COS/NUV, ACCUM, PSA	MIRRORA	EXTENDED=YES		Sequence 4-6 Non-Int in 1727315 (08)	120 Secs (120 Secs) *[==>]*	*[2]*
5	COS/FUV FP-POS=3 (509832)	(8) 1727315	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=3; SEGMENT=A; BUFFER-TIME=8940		Sequence 4-6 Non-Int in 1727315 (08)	1250 Secs (1250 Secs) *[==>]*	*[2]*
6	COS/FUV FP-POS=4 (509832)	(8) 1727315	COS/FUV, TIME-TAG, PSA	G140L 1105 A	EXTENDED=YES; FP-POS=4; SEGMENT=A; BUFFER-TIME=8940		Sequence 4-6 Non-Int in 1727315 (08)	1250 Secs (1250 Secs) *[==>]*	*[2]*

Orbit Structure