15294 - The GOGREEN Survey: The Relationship between Quenching, Morphological Transformation and Size Growth of Satellite Galaxies

Cycle: 25, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
27	(23) SPARCS-GCLASS-J1051-REORIENT	WFC3/IR	2	18-Dec-2018 15:01:17.0	yes
14	(11) SPARCS-GCLASS-J1616	WFC3/IR	2	18-Dec-2018 15:01:19.0	yes
15	(12) SPARCS-GCLASS-J1634	WFC3/IR	2	18-Dec-2018 15:01:21.0	yes
16	(13) SPARCS-GCLASS-J1638	WFC3/IR	2	18-Dec-2018 15:01:22.0	yes
18	(14) SPARCS-J0219	WFC3/IR	2	18-Dec-2018 15:01:23.0	yes
19	(15) SPARCS-GCLASS-J0035	WFC3/IR	2	18-Dec-2018 15:01:25.0	yes
26	(22) SPARCS-GCLASS-J0035-REVISIT	WFC3/IR	1	18-Dec-2018 15:01:25.0	yes
20	(16) SPARCS-J0335	WFC3/IR	2	18-Dec-2018 15:01:27.0	yes
21	(17) SPARCS-J1034	WFC3/IR	2	18-Dec-2018 15:01:28.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
22	(18) SPARCS-J1033	WFC3/IR	2	18-Dec-2018 15:01:29.0	yes
23	(19) SPT-CL-J0546-5345	WFC3/IR	2	18-Dec-2018 15:01:31.0	yes
24	(20) SPT-CL-J2106-58	WFC3/IR	2	18-Dec-2018 15:01:33.0	yes
25	(21) SPTL-CL-J0205-5829	WFC3/IR	2	18-Dec-2018 15:01:34.0	yes

25 Total Orbits Used

ABSTRACT

Despite a dramatic build-up in the number of quenched galaxies at z < 2, it is still entirely unclear how this quenching comes about. Potential quenching mechanisms fall into two categories: processes that act on "centrals" and those that act on "satellites". While both hydrodynamic and semi-analytic models do a good job of predicting the quenched fraction of centrals, they overpredict the fraction of quenched satellite galaxies, reflecting our much greater uncertainty about how "environmental" quenching occurs. Our 55-night Gemini Observatory "Large and Long Program" GOGREEN survey is obtaining optical spectroscopy for an unprecedentedly large sample of > 1000 members of 12 Coma- and Virgo-mass progenitor clusters at 1 < z < 1.5 (and > 600 field galaxies). Here, we propose for WFC3/F160W imaging of the GOGREEN sample to 1) measure the relative timing of star-formation quenching and morphological transformation, 2) make the first high-z measurement of satellite quenching by controlling for intrinsic quenching, and 3) constrain the dominant driver of size growth in the early-type population. Our team has the modeling framework to interpret the trends and to place unrivaled constraints on the physical processes that underlie environmental quenching and morphological transformation from late- to early-type galaxies. Because of Gemini Observatory's huge investment in the GOGREEN program, this survey will return the premier high-redshift cluster spectroscopic dataset for the foreseeable future. All reduced images, spectra and catalogs will be made publicly available, including catalogs from the F160W observations proposed here.

OBSERVING DESCRIPTION

HST observations

Visit

Proposal 15294, J1051 Reorient (27), implementation Tue Dec 18 20:01:34 GMT 2018

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ORIENT 134D TO 140 D; ORIENT 314D TO 320 D

Comments: Exposure 1-8 are for pointing A (POS TARG Y-offset: +55.25) (8 dithers)
Exposure 9-16 are for pointing B (POS TARG Y-offset: -55.25) (8 dithers)
Exposure 1-8 used NSAMP=15 instead 14 to fill in the unused orbital visibility.

Fixed Targets

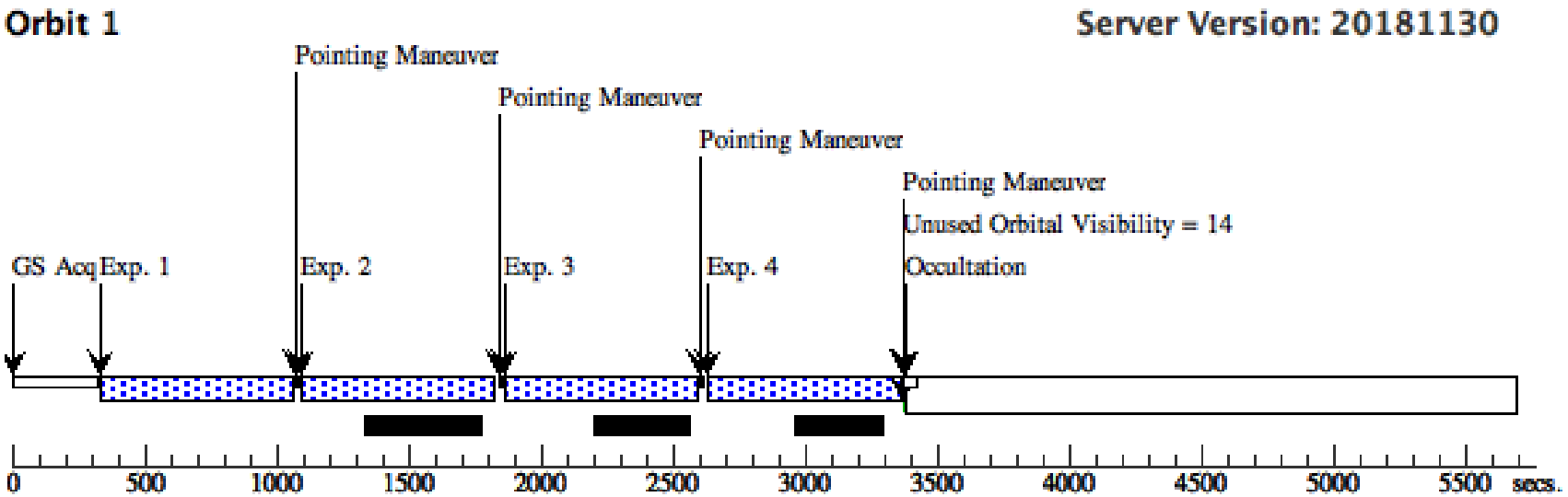
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(23)	SPARCS-GCLASS-J1051-REORIENT	RA: 10 51 9.3180 (162.7888250d) Dec: +58 17 41.48 (58.29486d) Equinox: J2000		V=20.0	Reference Frame: ICRS

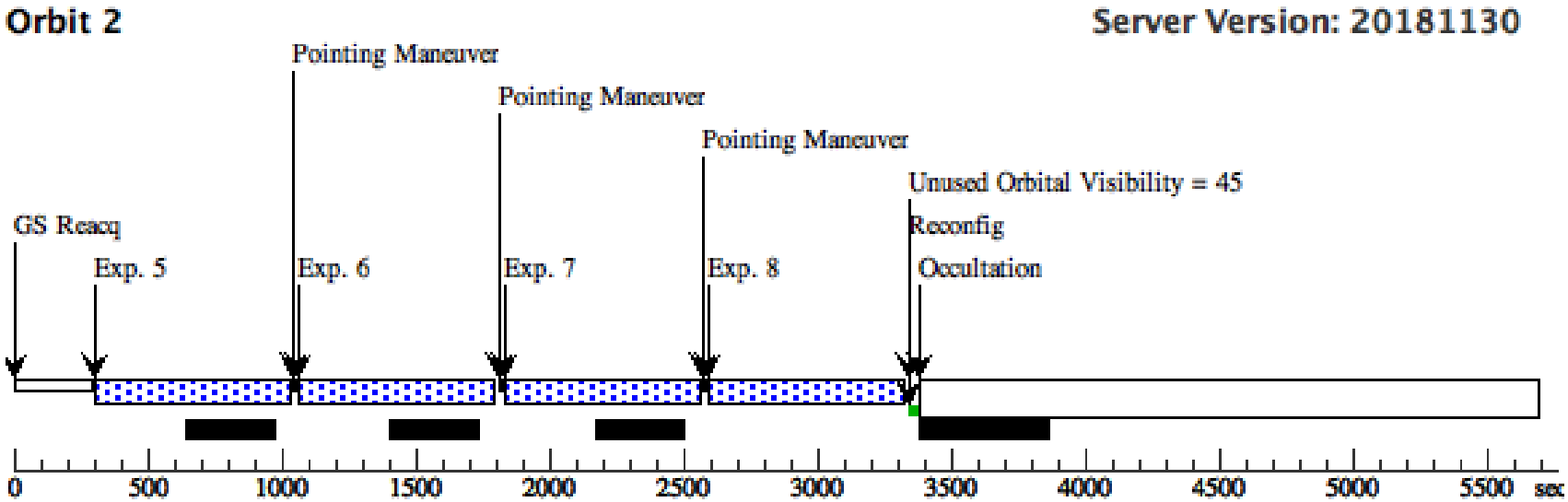
Comments:
Category=CLUSTER OF GALAXIES
Description=[HIGH REDSHIFT CLUSTER]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(23) SPARCS-GCLASS-J1051-REORIENT	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG null,55.25		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
2		(23) SPARCS-GCLASS-J1051-REORIENT	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 1.355,55.674		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
3		(23) SPARCS-GCLASS-J1051-REORIENT	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 0.881,56.462		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
4		(23) SPARCS-GCLASS-J1051-REORIENT	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG -0.474,56.0380		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
5		(23) SPARCS-GCLASS-J1051-REORIENT	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG null,-55.25		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***
6		(23) SPARCS-GCLASS-J1051-REORIENT	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 1.355,-54.826		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***
7		(23) SPARCS-GCLASS-J1051-REORIENT	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 0.881,-54.038		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***
8		(23) SPARCS-GCLASS-J1051-REORIENT	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG -0.474,-54.462		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***

Orbit Structure





Visit

Proposal 15294, J1616 Visit B (14), scheduling Tue Dec 18 20:01:35 GMT 2018

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ORIENT 115D TO 155 D; ORIENT 295D TO 335 D

Comments: Exposure 1-8 are for pointing A (POS TARG Y-offset: +55.25) (8 dithers)
Exposure 9-16 are for pointing B (POS TARG Y-offset: -55.25) (8 dithers)
Exposure 1-8 used NSAMP=15 instead 14 to fill in the unused orbital visibility.

Fixed Targets

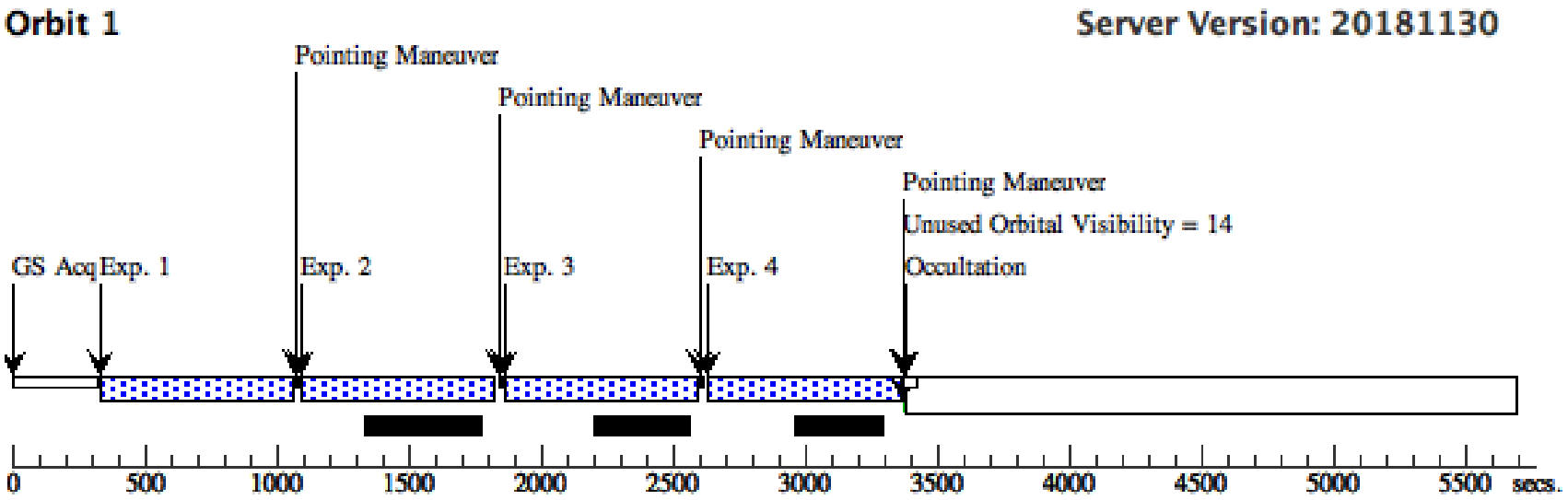
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(11)	SPARCS-GCLASS-J1616	RA: 16 16 41.2320 (244.1718000d) Dec: +55 45 25.70 (55.75714d) Equinox: J2000		V=20.0	Reference Frame: ICRS

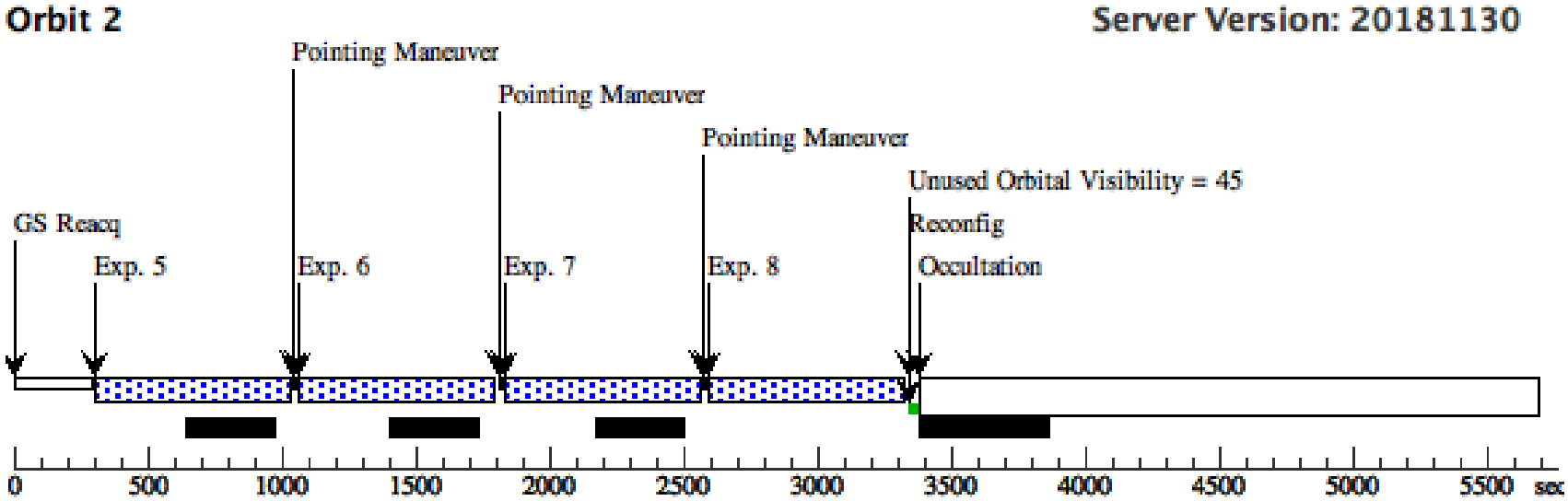
Comments:
Category=CLUSTER OF GALAXIES
Description=[HIGH REDSHIFT CLUSTER]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(11) SPARCS-GCLASS-J1616	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG null,55.25		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
2		(11) SPARCS-GCLASS-J1616	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 1.355,55.674		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
3		(11) SPARCS-GCLASS-J1616	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 0.881,56.462		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
4		(11) SPARCS-GCLASS-J1616	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG -0.474,56.0380		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
5		(11) SPARCS-GCLASS-J1616	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG null,-55.25		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***
6		(11) SPARCS-GCLASS-J1616	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 1.355,-54.826		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***
7		(11) SPARCS-GCLASS-J1616	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 0.881,-54.038		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***
8		(11) SPARCS-GCLASS-J1616	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG -0.474,-54.462		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***

Orbit Structure





Visit

Proposal 15294, J1634 Visit B (15), completed Tue Dec 18 20:01:35 GMT 2018

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: ORIENT 150D TO 190 D; ORIENT 330D TO 10 D

Comments: Exposure 1-8 are for pointing A (POS TARG Y-offset: +55.25) (8 dithers)
Exposure 9-16 are for pointing B (POS TARG Y-offset: -55.25) (8 dithers)
Exposure 3-8 used NSAMP=15 instead 14 to fill in the unused orbital visibility.

Diagnostics

(J1634 Visit B (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J1634 Visit B (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

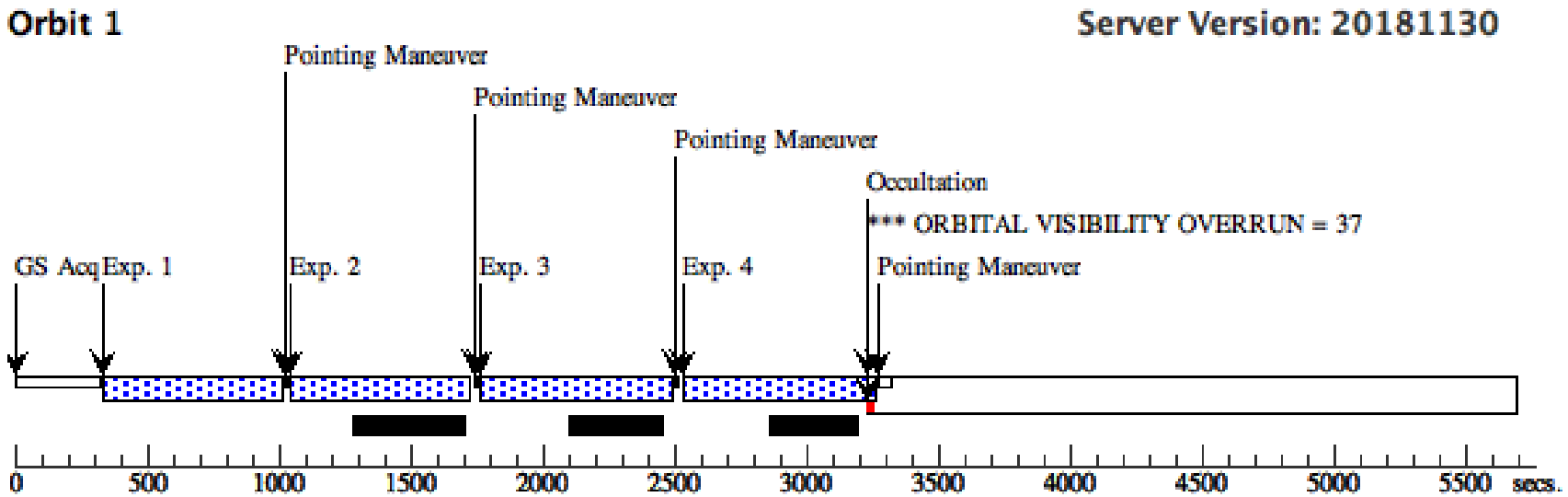
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(12)	SPARCS-GCLASS-J1634	RA: 16 34 33.7860 (248.6407750d) Dec: +40 21 40.54 (40.36126d) Equinox: J2000		V=20.0	Reference Frame: ICRS

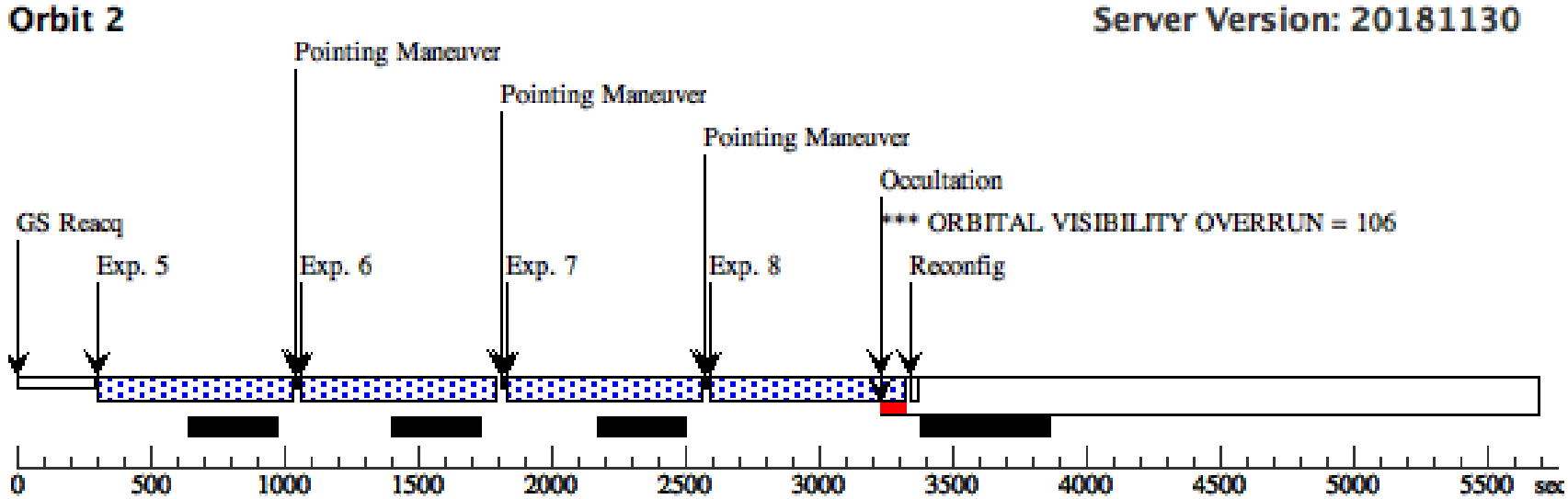
Comments:
Category=CLUSTER OF GALAXIES
Description=[HIGH REDSHIFT CLUSTER]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(12) SPARCS-GCLASS-J1634	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPARS50	POS TARG null,55.25		652.938154 Secs (652.938 Secs) *[==>]*	 ***[1]***
2		(12) SPARCS-GCLASS-J1634	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPARS50	POS TARG 1.355,55.674		652.938154 Secs (652.938 Secs) *[==>]*	 ***[1]***
3		(12) SPARCS-GCLASS-J1634	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 0.881,56.462		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
4		(12) SPARCS-GCLASS-J1634	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG -0.474,56.0380		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
5		(12) SPARCS-GCLASS-J1634	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG null,-55.25		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***
6		(12) SPARCS-GCLASS-J1634	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 1.355,-54.826		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***
7		(12) SPARCS-GCLASS-J1634	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 0.881,-54.038		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***
8		(12) SPARCS-GCLASS-J1634	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG -0.474,-54.462		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***

Orbit Structure





Visit

Proposal 15294, J1638 Visit B (16), completed Tue Dec 18 20:01:35 GMT 2018

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: ORIENT 205D TO 245 D; ORIENT 25D TO 65 D

Comments: Exposure 1-8 are for pointing A (POS TARG Y-offset: +55.25) (8 dithers)
Exposure 9-16 are for pointing B (POS TARG Y-offset: -55.25) (8 dithers)
Exposure 3-8 used NSAMP=15 instead 14 to fill in the unused orbital visibility.

Diagnostics

(J1638 Visit B (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J1638 Visit B (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

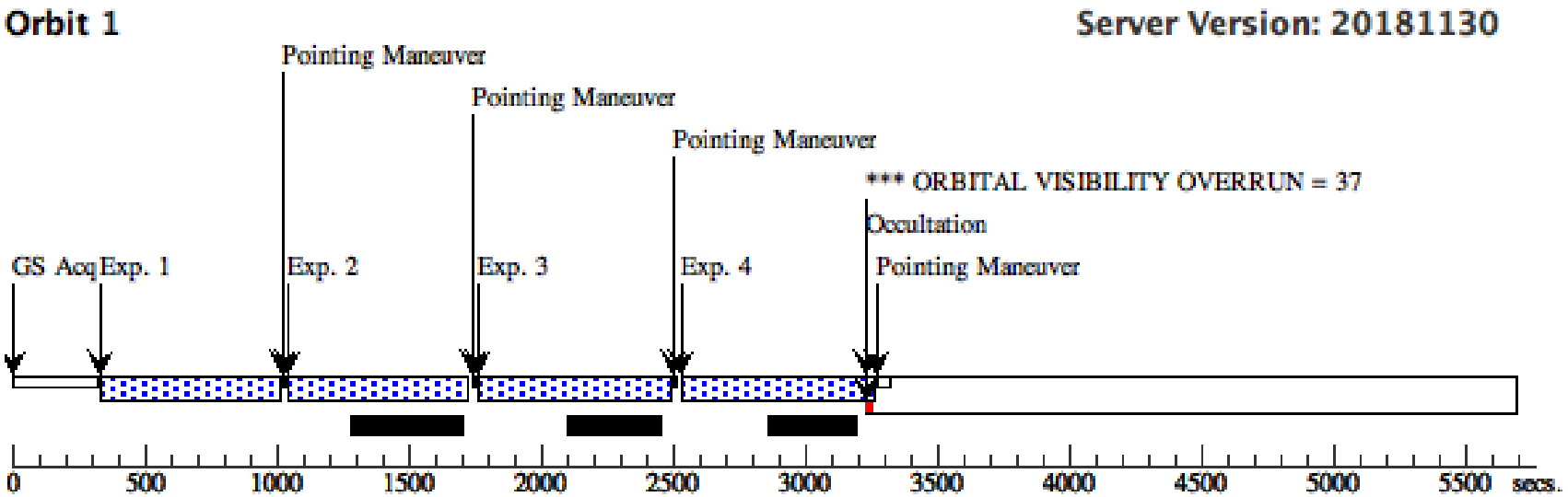
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(13)	SPARCS-GCLASS-J1638	RA: 16 38 51.6410 (249.7151708d) Dec: +40 38 42.90 (40.64525d) Equinox: J2000		V=20.0	Reference Frame: ICRS

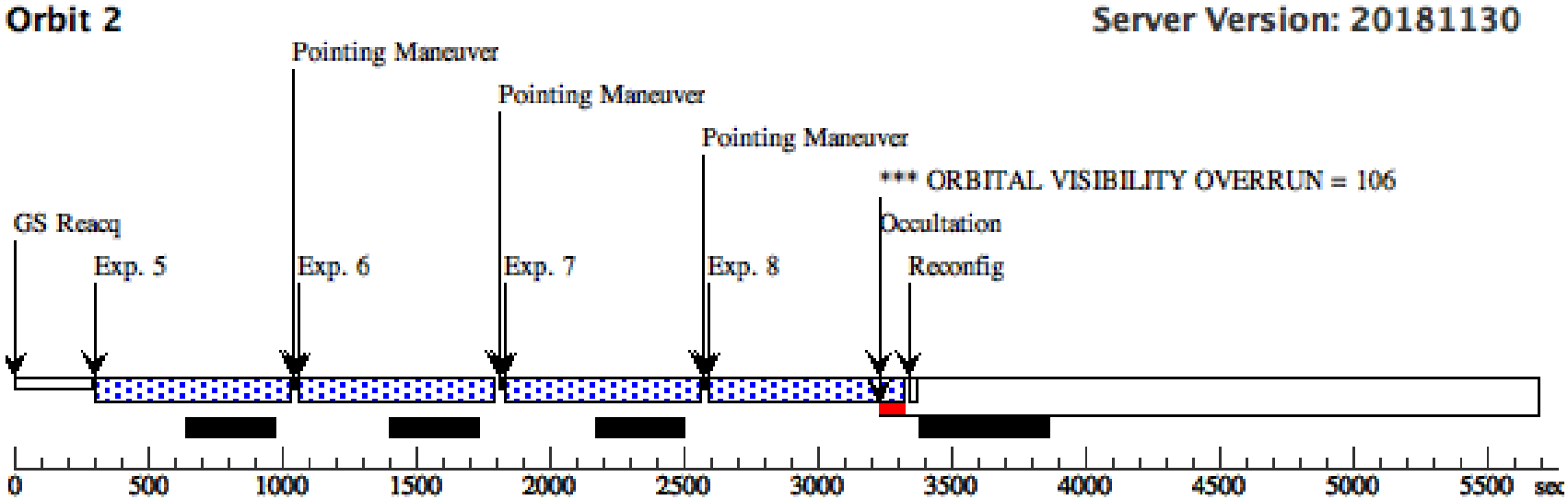
Comments:
Category=CLUSTER OF GALAXIES
Description=[HIGH REDSHIFT CLUSTER]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(13) SPARCS-GCLASS-J1638	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPARS50	POS TARG null,55.25		652.938154 Secs (652.938 Secs) *[==>]*	 ***[1]***
2		(13) SPARCS-GCLASS-J1638	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPARS50	POS TARG 1.355,55.674		652.938154 Secs (652.938 Secs) *[==>]*	 ***[1]***
3		(13) SPARCS-GCLASS-J1638	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 0.881,56.462		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
4		(13) SPARCS-GCLASS-J1638	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG -0.474,56.0380		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
5		(13) SPARCS-GCLASS-J1638	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG null,-55.25		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***
6		(13) SPARCS-GCLASS-J1638	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 1.355,-54.826		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***
7		(13) SPARCS-GCLASS-J1638	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 0.881,-54.038		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***
8		(13) SPARCS-GCLASS-J1638	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG -0.474,-54.462		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***

Orbit Structure





Visit

Proposal 15294, J0219 Visit B (18), completed Tue Dec 18 20:01:35 GMT 2018

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: ORIENT 95D TO 175 D; ORIENT 275D TO 355 D

Comments: Orient Ranges +-40 instead of 20deg
Exposure 1-8 are for pointing A (POS TARG Y-offset: +55.25) (8 dithers)
Exposure 9-16 are for pointing B (POS TARG Y-offset: -55.25) (8 dithers)
Exposure 7,8 used NSAMP=15 instead of 14 to fill in the unused orbital visibility.

Diagnostics

(J0219 Visit B (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J0219 Visit B (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

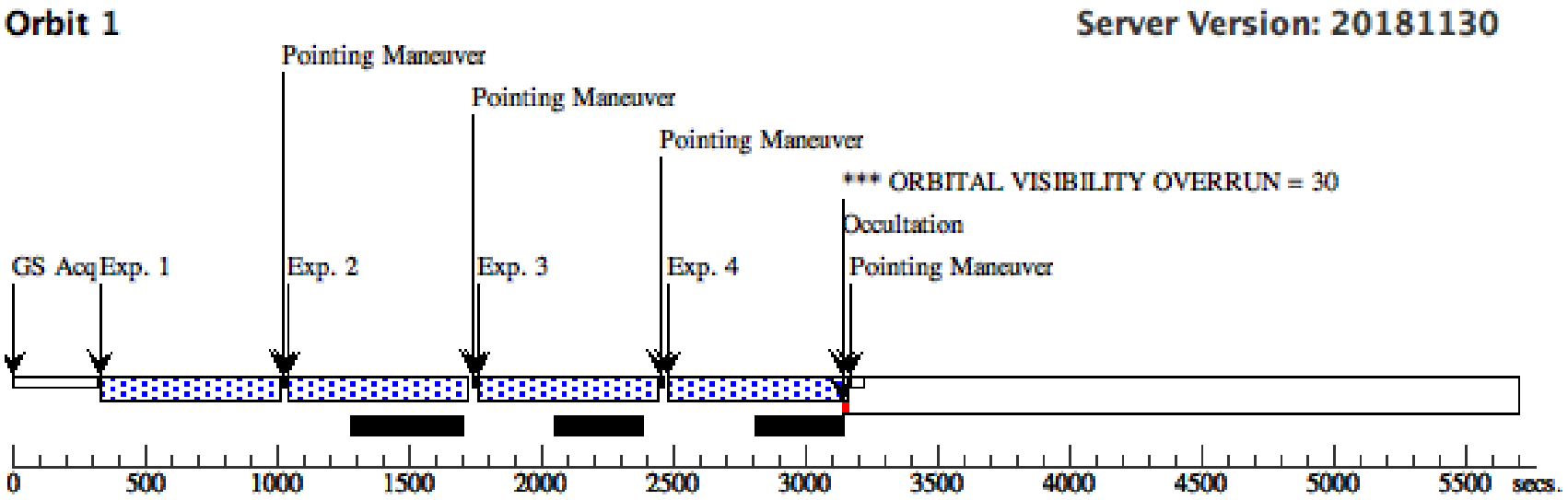
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(14)	SPARCS-J0219	RA: 02 19 43.5840 (34.9316000d) Dec: -05 31 29.64 (-5.52490d) Equinox: J2000		V=20.0	Reference Frame: ICRS

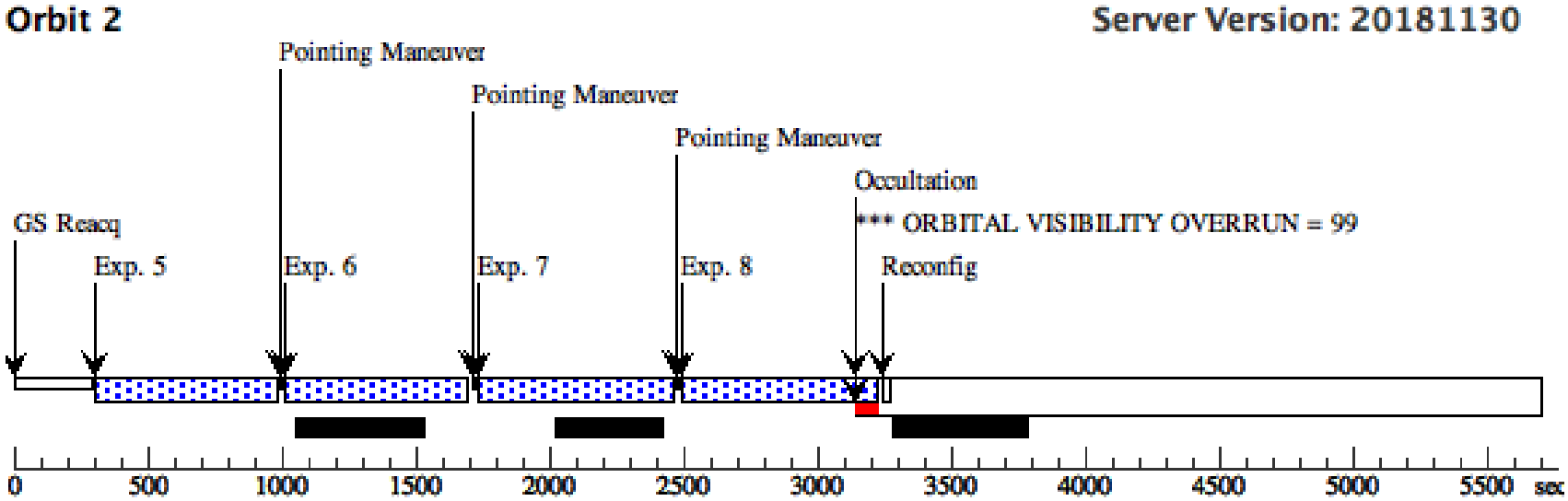
Comments:
Category=CLUSTER OF GALAXIES
Description=[HIGH REDSHIFT CLUSTER]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(14) SPARCS-J0219	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPARS50	POS TARG null,55.25		652.938154 Secs (652.938 Secs) *[==>]*	***[1]***
2		(14) SPARCS-J0219	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPARS50	POS TARG 1.355,55.674		652.938154 Secs (652.938 Secs) *[==>]*	***[1]***
3		(14) SPARCS-J0219	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPARS50	POS TARG 0.881,56.462		652.938154 Secs (652.938 Secs) *[==>]*	***[1]***
4		(14) SPARCS-J0219	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPARS50	POS TARG -0.474,56.0380		652.938154 Secs (652.938 Secs) *[==>]*	***[1]***
5		(14) SPARCS-J0219	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPARS50	POS TARG null,-55.25		652.938154 Secs (652.938 Secs) *[==>]*	***[2]***
6		(14) SPARCS-J0219	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPARS50	POS TARG 1.355,-54.826		652.938154 Secs (652.938 Secs) *[==>]*	***[2]***
7		(14) SPARCS-J0219	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 0.881,-54.038		702.938605 Secs (702.939 Secs) *[==>]*	***[2]***
8		(14) SPARCS-J0219	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG -0.474,-54.462		702.938605 Secs (702.939 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 15294, J0035 Visit B (19), failed Tue Dec 18 20:01:35 GMT 2018

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: ORIENT 115D TO 155 D; ORIENT 295D TO 335 D

Comments: Exposure 1-8 are for pointing A (POS TARG Y-offset: +55.25) (8 dithers)
Exposure 9-16 are for pointing B (POS TARG Y-offset: -55.25) (8 dithers)
Exposure 3-8 used NSAMP=15 instead 14 to fill in the unused orbital visibility.

Diagnostics

(J0035 Visit B (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J0035 Visit B (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

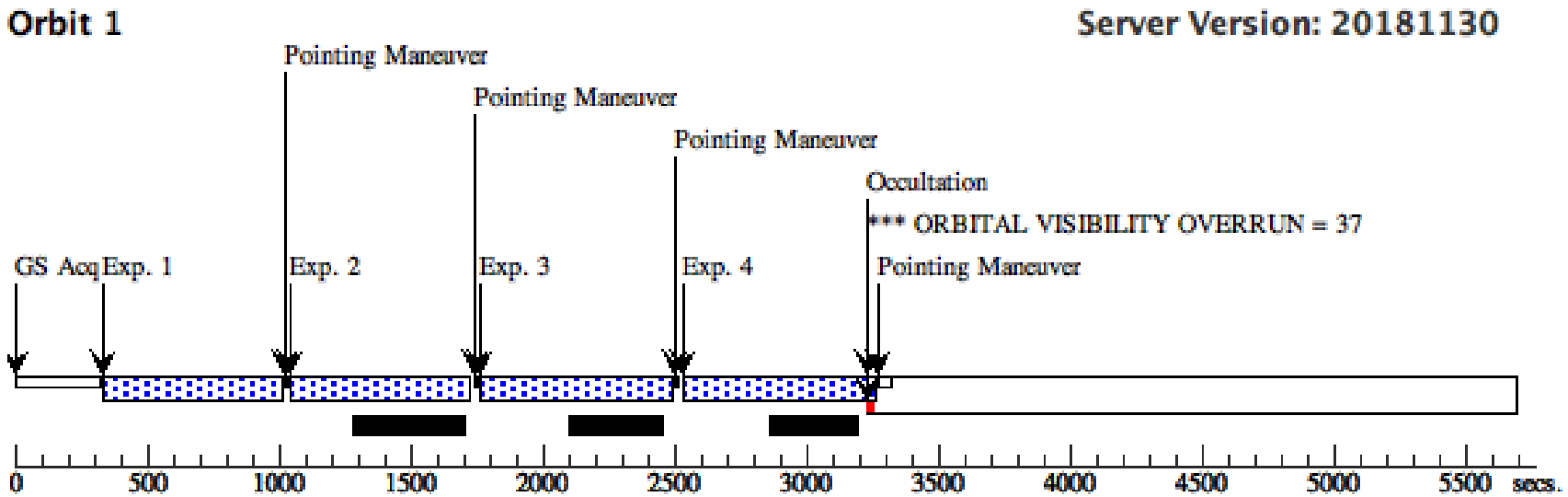
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(15)	SPARCS-GCLASS-J0035	RA: 00 35 48.1680 (8.9507000d) Dec: -43 12 0.37 (-43.20010d) Equinox: J2000		V=20.0	Reference Frame: ICRS

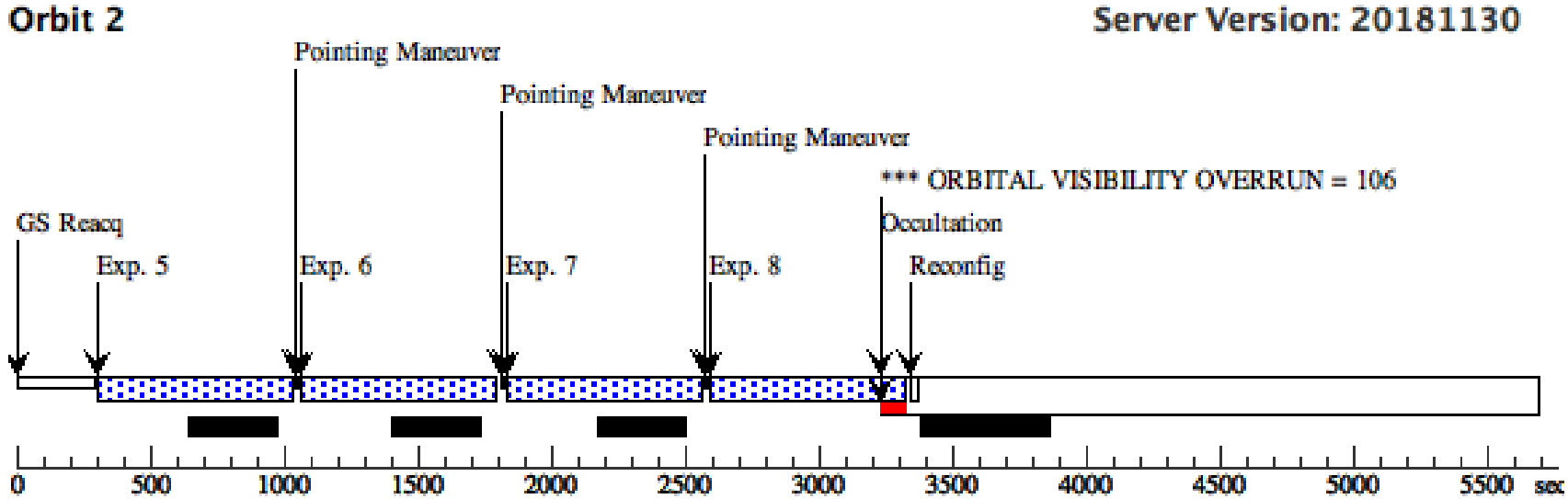
Comments:
Category=CLUSTER OF GALAXIES
Description=[HIGH REDSHIFT CLUSTER]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(15) SPARCS-GCLASS-J0035	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPARS50	POS TARG null,55.25		652.938154 Secs (652.938 Secs) *[==>]*	 ***[1]***
2		(15) SPARCS-GCLASS-J0035	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPARS50	POS TARG 1.355,55.674		652.938154 Secs (652.938 Secs) *[==>]*	 ***[1]***
3		(15) SPARCS-GCLASS-J0035	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 0.881,56.462		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
4		(15) SPARCS-GCLASS-J0035	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG -0.474,56.0380		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
5		(15) SPARCS-GCLASS-J0035	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG null,-55.25		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***
6		(15) SPARCS-GCLASS-J0035	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 1.355,-54.826		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***
7		(15) SPARCS-GCLASS-J0035	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 0.881,-54.038		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***
8		(15) SPARCS-GCLASS-J0035	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG -0.474,-54.462		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***

Orbit Structure





Visit

Proposal 15294, J0035 Revisit (26), completed Tue Dec 18 20:01:35 GMT 2018

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Exposure 4 used NSAMP=15 instead 14 to fill in the unused orbital visibility.

Diagnostics

(J0035 Revisit (26)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

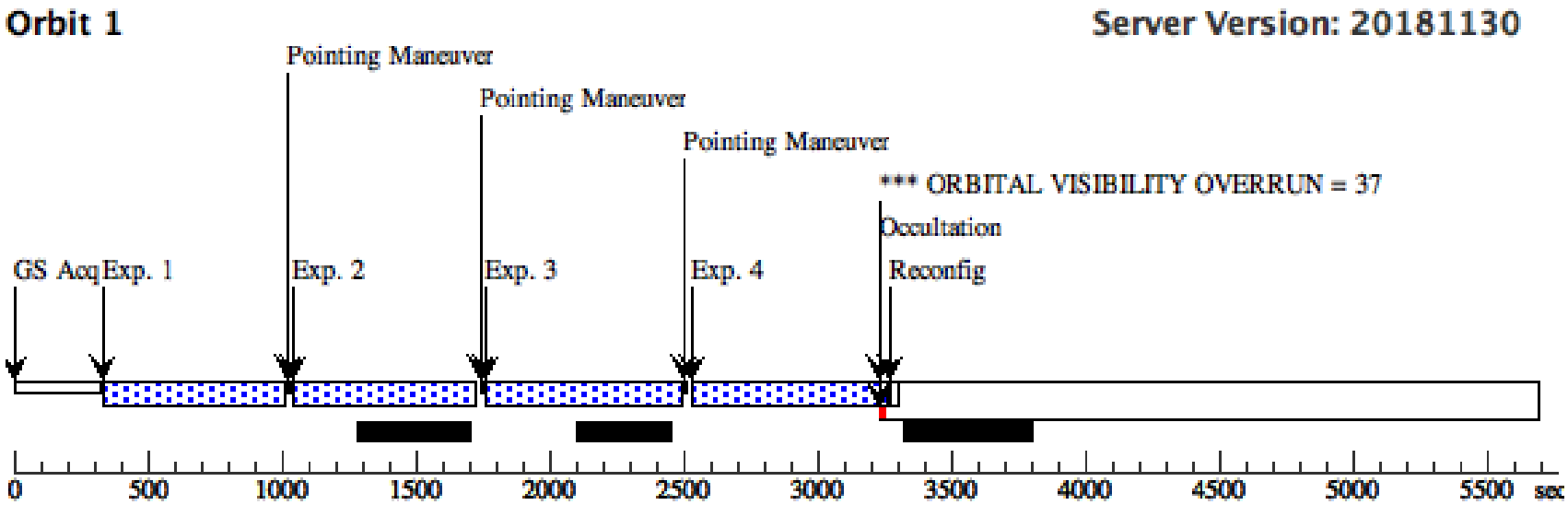
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(22)	SPARCS-GCLASS-J0035-REVISIT	RA: 00 35 47.8110 (8.9492125d) Dec: -43 12 13.14 (-43.20365d) Equinox: J2000		V=20.0	Reference Frame: ICRS

Comments:
Category=CLUSTER OF GALAXIES
Description=[HIGH REDSHIFT CLUSTER]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(22) SPARCS-GCLASS-J0035-REVISIT	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPARS50	POS TARG 0,0		652.938154 Secs (652.938 Secs) *[==>]*	*[1]*
2		(22) SPARCS-GCLASS-J0035-REVISIT	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPARS50	POS TARG 1.355,0.424		652.938154 Secs (652.938 Secs) *[==>]*	*[1]*
3		(22) SPARCS-GCLASS-J0035-REVISIT	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 0.881,1.212		702.938605 Secs (702.939 Secs) *[==>]*	*[1]*
4		(22) SPARCS-GCLASS-J0035-REVISIT	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG -0.474,0.788		702.938605 Secs (702.939 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 15294, J0335 Visit B (20), completed Tue Dec 18 20:01:35 GMT 2018

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: ORIENT 300D TO 340 D; ORIENT 120D TO 160 D

Comments: Exposure 1-8 are for pointing A (POS TARG Y-offset: +55.25) (8 dithers)
Exposure 9-16 are for pointing B (POS TARG Y-offset: -55.25) (8 dithers)
Exposure 4 used NSAMP=15 instead of 14 to fill in the unused orbital visibility.
Exposure 6-8 used NSAMP=15 instead of 14 to fill in the unused orbital visibility.

Diagnostics

(J0335 Visit B (20)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(J0335 Visit B (20)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

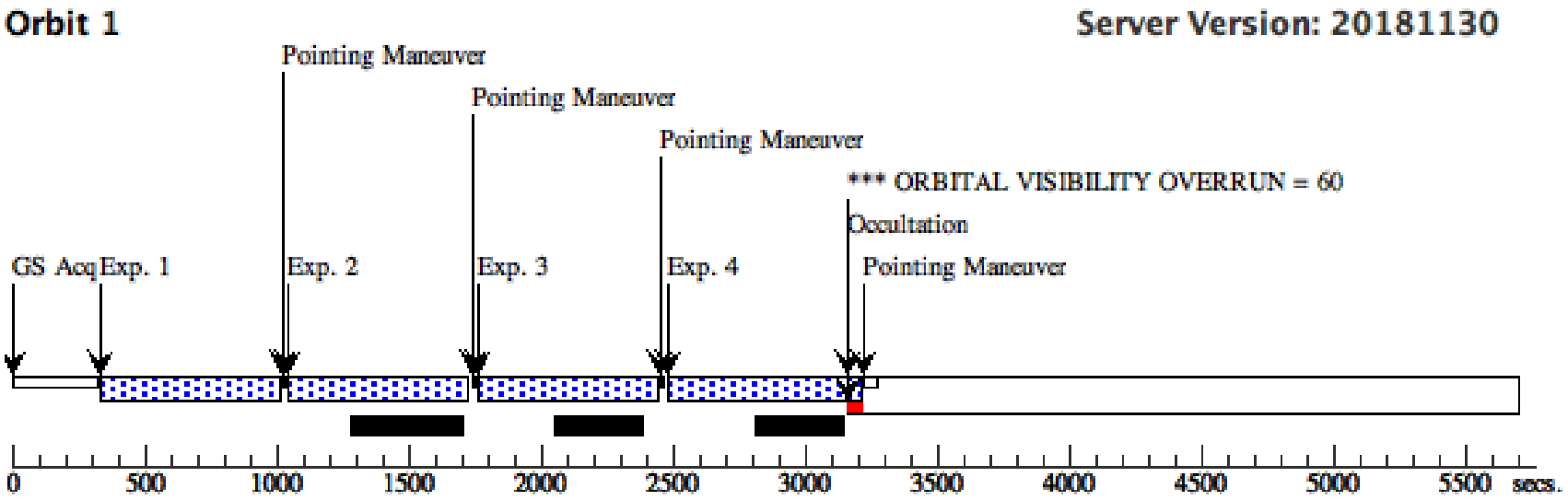
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(16)	SPARCS-J0335	RA: 03 35 4.0300 (53.7667917d) Dec: -29 29 19.10 (-29.48864d) Equinox: J2000		V=20.0	Reference Frame: ICRS

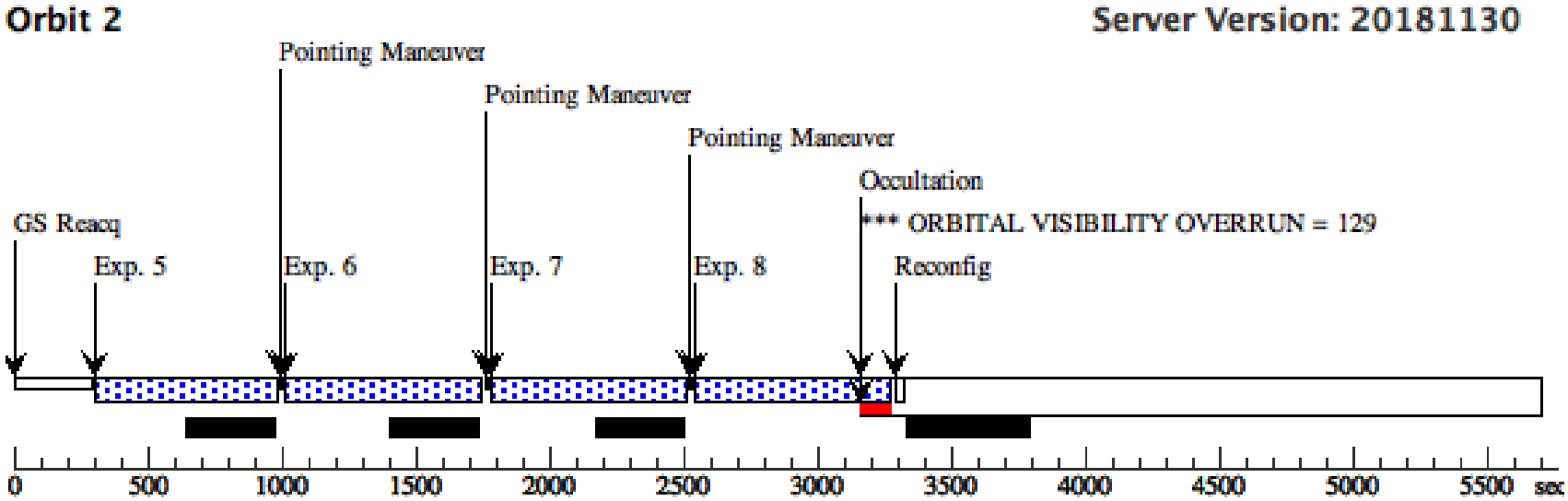
Comments:
Category=CLUSTER OF GALAXIES
Description=[HIGH REDSHIFT CLUSTER]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(16) SPARCS-J0335	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPARS50	POS TARG null,55.25		652.938154 Secs (652.938 Secs) *[==>]*	***[1]***
2		(16) SPARCS-J0335	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPARS50	POS TARG 1.355,55.674		652.938154 Secs (652.938 Secs) *[==>]*	***[1]***
3		(16) SPARCS-J0335	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPARS50	POS TARG 0.881,56.462		652.938154 Secs (652.938 Secs) *[==>]*	***[1]***
4		(16) SPARCS-J0335	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG -0.474,56.0380		702.938605 Secs (702.939 Secs) *[==>]*	***[1]***
5		(16) SPARCS-J0335	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPARS50	POS TARG null,-55.25		652.938154 Secs (652.938 Secs) *[==>]*	***[2]***
6		(16) SPARCS-J0335	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 1.355,-54.826		702.938605 Secs (702.939 Secs) *[==>]*	***[2]***
7		(16) SPARCS-J0335	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 0.881,-54.038		702.938605 Secs (702.939 Secs) *[==>]*	***[2]***
8		(16) SPARCS-J0335	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG -0.474,-54.462		702.938605 Secs (702.939 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 15294, J1034 Visit B (21), scheduling Tue Dec 18 20:01:35 GMT 2018

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ORIENT 205D TO 245 D; ORIENT 25D TO 65 D

Comments: Exposure 1-8 are for pointing A (POS TARG Y-offset: +55.25) (8 dithers)
Exposure 9-16 are for pointing B (POS TARG Y-offset: -55.25) (8 dithers)
Exposure 1-8 used NSAMP=15 instead 14 to fill in the unused orbital visibility.

Fixed Targets

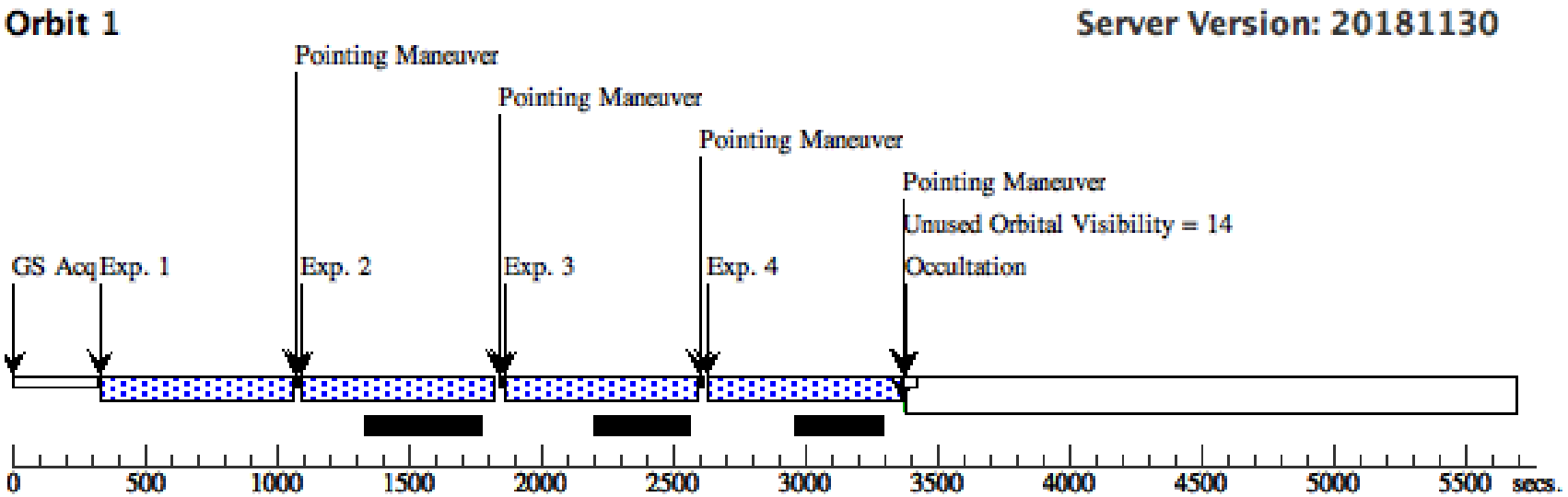
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(17)	SPARCS-J1034	RA: 10 34 49.4380 (158.7059917d) Dec: +58 18 33.01 (58.30917d) Equinox: J2000		V=20.0	Reference Frame: ICRS

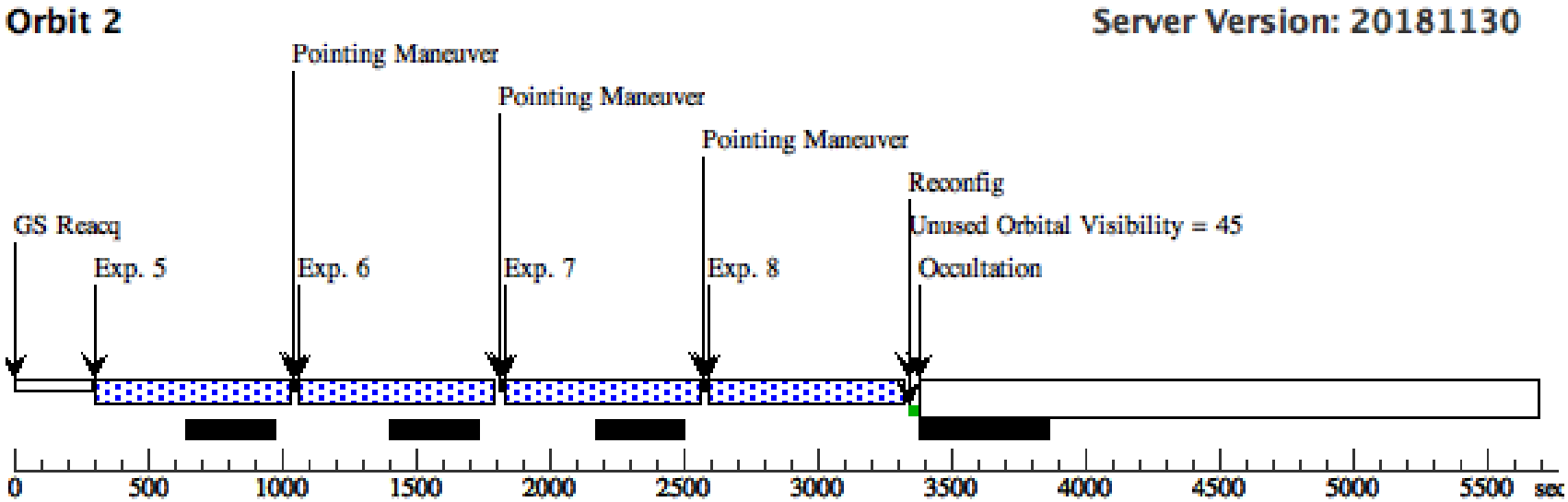
Comments:
Category=CLUSTER OF GALAXIES
Description=[HIGH REDSHIFT CLUSTER]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(17) SPARCS-J1034	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG null,55.25		702.938605 Secs (702.939 Secs) *[==>]*	*[1]*
2		(17) SPARCS-J1034	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 1.355,55.674		702.938605 Secs (702.939 Secs) *[==>]*	*[1]*
3		(17) SPARCS-J1034	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 0.881,56.462		702.938605 Secs (702.939 Secs) *[==>]*	*[1]*
4		(17) SPARCS-J1034	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG -0.474,56.0380		702.938605 Secs (702.939 Secs) *[==>]*	*[1]*
5		(17) SPARCS-J1034	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG null,-55.25		702.938605 Secs (702.939 Secs) *[==>]*	*[2]*
6		(17) SPARCS-J1034	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 1.355,-54.826		702.938605 Secs (702.939 Secs) *[==>]*	*[2]*
7		(17) SPARCS-J1034	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 0.881,-54.038		702.938605 Secs (702.939 Secs) *[==>]*	*[2]*
8		(17) SPARCS-J1034	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG -0.474,-54.462		702.938605 Secs (702.939 Secs) *[==>]*	*[2]*

Orbit Structure





Visit

Proposal 15294, J1033 Visit B (22), completed Tue Dec 18 20:01:35 GMT 2018

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ORIENT 115D TO 155 D; ORIENT 295D TO 335 D

Comments: Exposure 1-8 are for pointing A (POS TARG Y-offset: +55.25) (8 dithers)
Exposure 9-16 are for pointing B (POS TARG Y-offset: -55.25) (8 dithers)
Exposure 1-8 used NSAMP=15 instead 14 to fill in the unused orbital visibility.

Fixed Targets

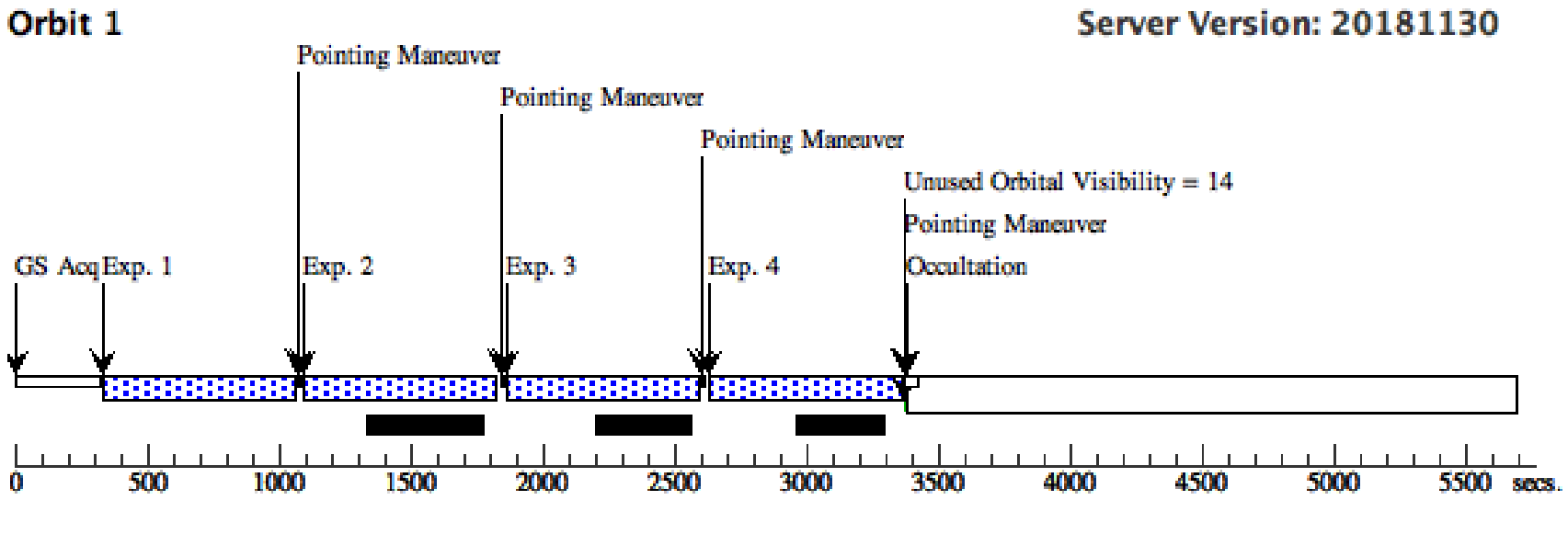
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(18)	SPARCS-J1033	RA: 10 33 25.5600 (158.3565000d) Dec: +57 53 24.00 (57.89000d) Equinox: J2000		V=20.0	Reference Frame: ICRS

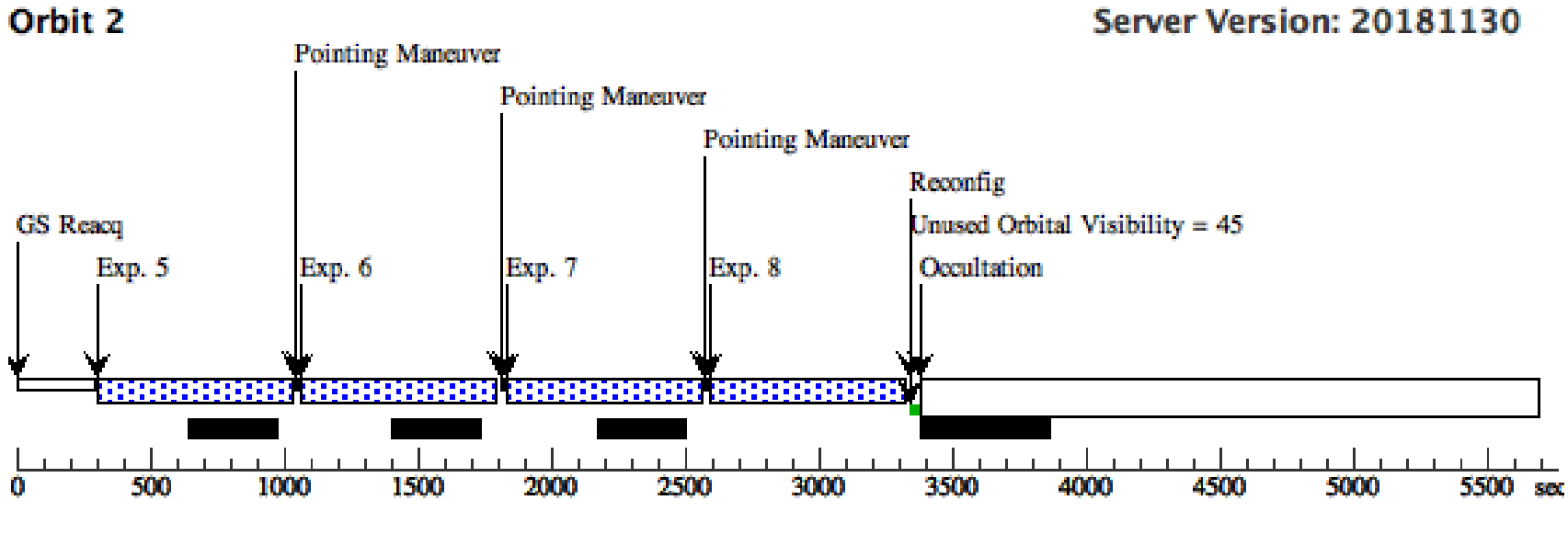
Comments:
Category=CLUSTER OF GALAXIES
Description=[HIGH REDSHIFT CLUSTER]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(18) SPARCS-J1033	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG null,55.25		702.938605 Secs (702.939 Secs) *[==>]*	*[1]*
2		(18) SPARCS-J1033	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 1.355,55.674		702.938605 Secs (702.939 Secs) *[==>]*	*[1]*
3		(18) SPARCS-J1033	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 0.881,56.462		702.938605 Secs (702.939 Secs) *[==>]*	*[1]*
4		(18) SPARCS-J1033	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG -0.474,56.0380		702.938605 Secs (702.939 Secs) *[==>]*	*[1]*
5		(18) SPARCS-J1033	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG null,-55.25		702.938605 Secs (702.939 Secs) *[==>]*	*[2]*
6		(18) SPARCS-J1033	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 1.355,-54.826		702.938605 Secs (702.939 Secs) *[==>]*	*[2]*
7		(18) SPARCS-J1033	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 0.881,-54.038		702.938605 Secs (702.939 Secs) *[==>]*	*[2]*
8		(18) SPARCS-J1033	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG -0.474,-54.462		702.938605 Secs (702.939 Secs) *[==>]*	*[2]*

Orbit Structure





Visit

Proposal 15294, SPT0546 Visit B (23), scheduling Tue Dec 18 20:01:35 GMT 2018

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: ORIENT 115D TO 155 D; ORIENT 295D TO 335 D

Comments: Exposure 1-8 are for pointing A (POS TARG Y-offset: +55.25) (8 dithers)
Exposure 9-16 are for pointing B (POS TARG Y-offset: -55.25) (8 dithers)
Exposure 1-8 used NSAMP=15 instead 14 to fill in the unused orbital visibility.

Diagnostics

(SPT0546 Visit B (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(SPT0546 Visit B (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

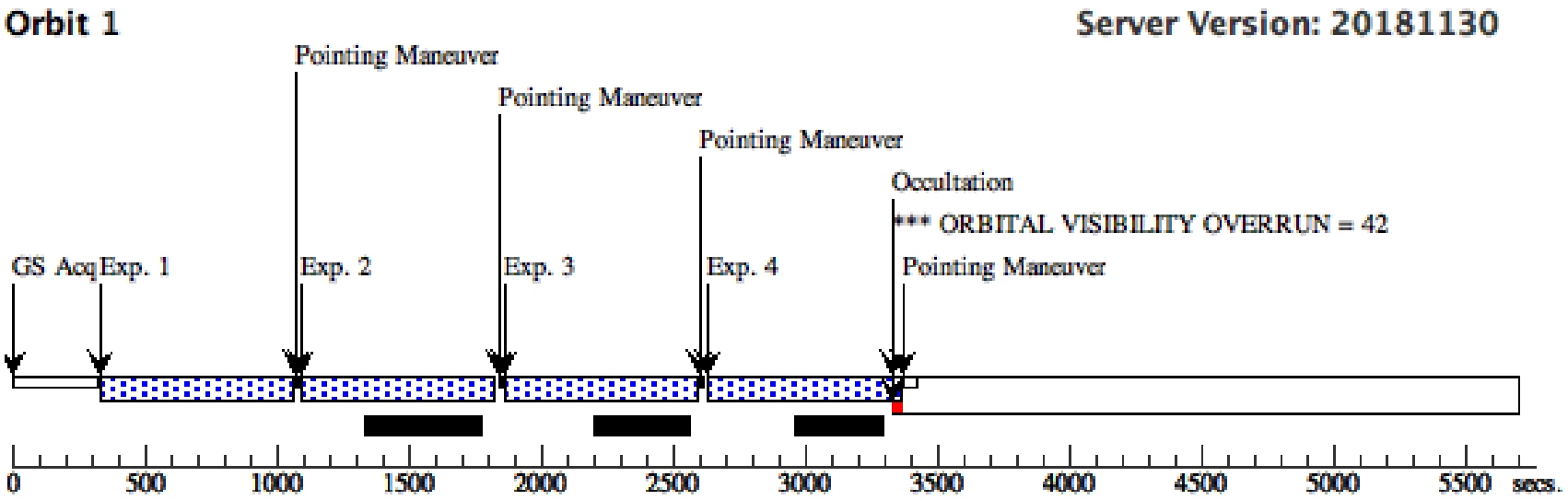
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(19)	SPT-CL-J0546-5345	RA: 05 46 37.4880 (86.6562000d) Dec: -53 45 28.80 (-53.75800d) Equinox: J2000		V=20.0	Reference Frame: ICRS

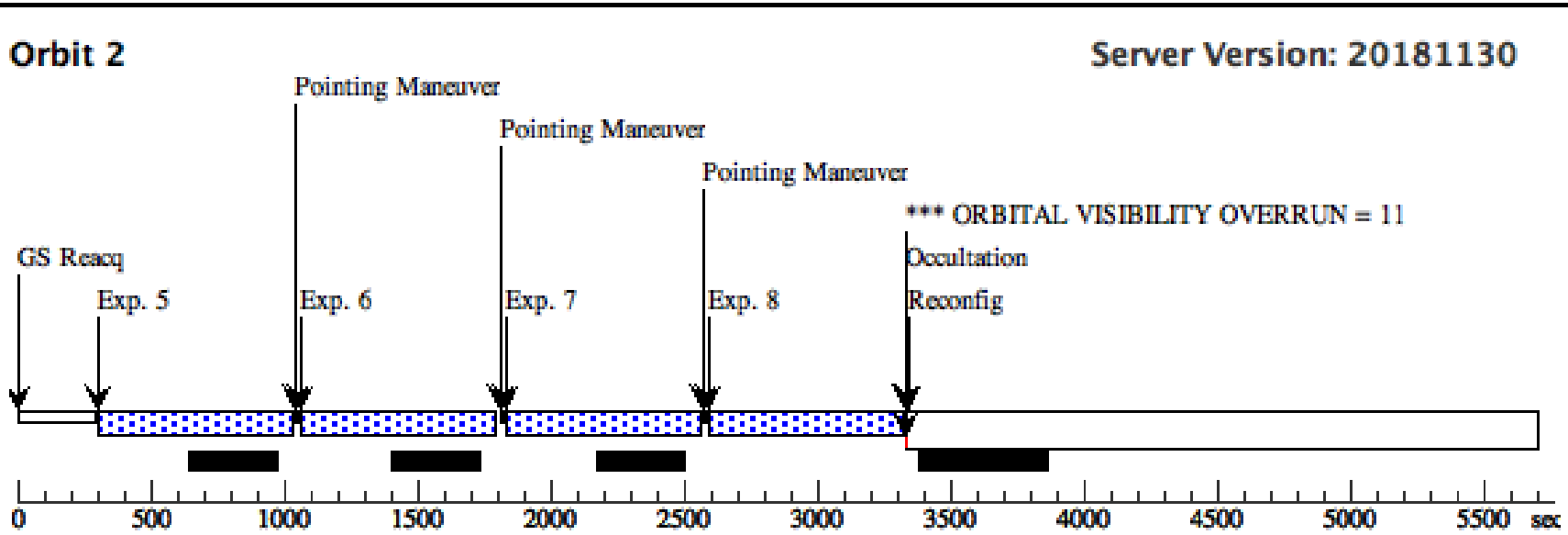
Comments:
Category=CLUSTER OF GALAXIES
Description=[HIGH REDSHIFT CLUSTER]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(19) SPT-CL-J0546-5345	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG null,55.25		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
2		(19) SPT-CL-J0546-5345	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 1.355,55.674		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
3		(19) SPT-CL-J0546-5345	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 0.881,56.462		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
4		(19) SPT-CL-J0546-5345	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG -0.474,56.0380		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
5		(19) SPT-CL-J0546-5345	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG null,-55.25		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***
6		(19) SPT-CL-J0546-5345	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 1.355,-54.826		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***
7		(19) SPT-CL-J0546-5345	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 0.881,-54.038		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***
8		(19) SPT-CL-J0546-5345	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG -0.474,-54.462		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***

Orbit Structure





Visit

Proposal 15294, SPT2106 Visit B (24), completed Tue Dec 18 20:01:36 GMT 2018

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ORIENT 215D TO 255 D; ORIENT 35D TO 75 D

Comments: Exposure 1-8 are for pointing A (POS TARG Y-offset: +55.25) (8 dithers)
Exposure 9-16 are for pointing B (POS TARG Y-offset: -55.25) (8 dithers)
Exposure 1-8 used NSAMP=15 instead 14 to fill in the unused orbital visibility.

Fixed Targets

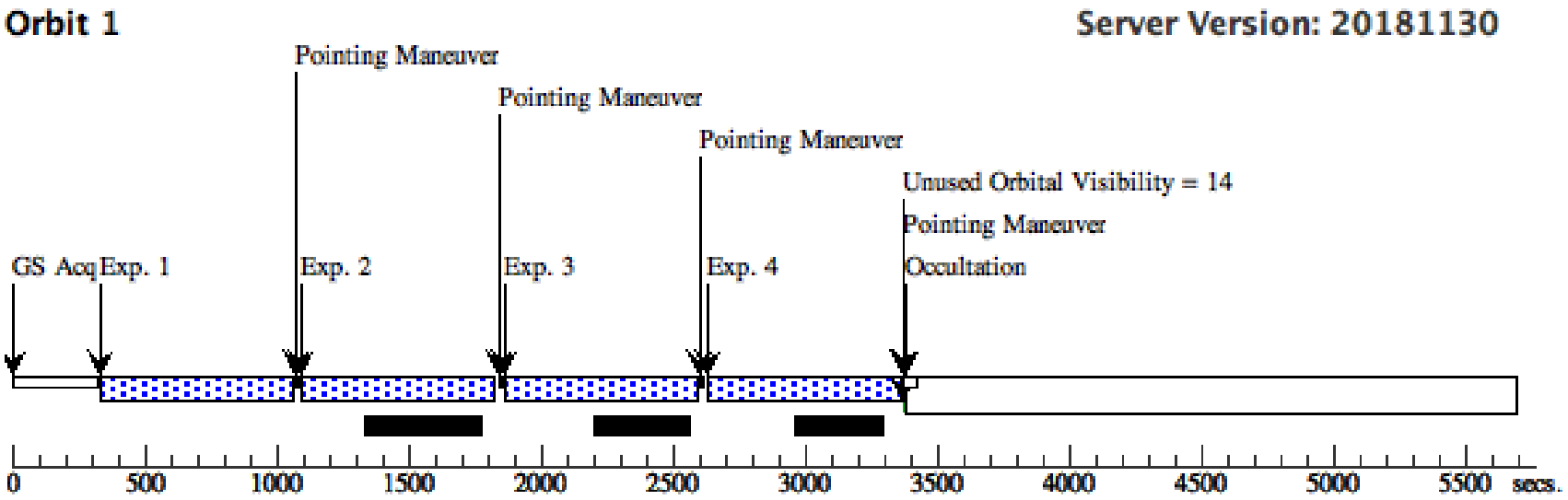
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(20)	SPT-CL-J2106-58	RA: 21 06 4.5890 (316.5191208d) Dec: -58 44 27.96 (-58.74110d) Equinox: J2000		V=20.0	Reference Frame: ICRS

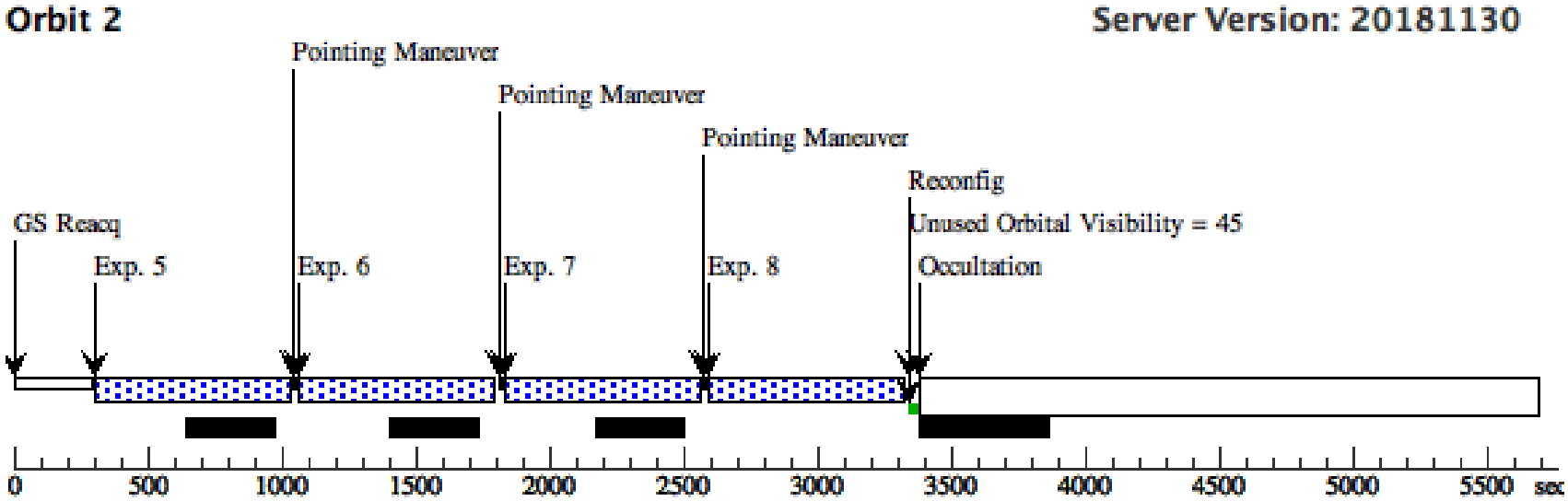
Comments:
Category=CLUSTER OF GALAXIES
Description=[HIGH REDSHIFT CLUSTER]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(20) SPT-CL-J2106-58	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG null,55.25		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
2		(20) SPT-CL-J2106-58	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 1.355,55.674		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
3		(20) SPT-CL-J2106-58	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 0.881,56.462		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
4		(20) SPT-CL-J2106-58	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG -0.474,56.0380		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
5		(20) SPT-CL-J2106-58	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG null,-55.25		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***
6		(20) SPT-CL-J2106-58	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 1.355,-54.826		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***
7		(20) SPT-CL-J2106-58	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 0.881,-54.038		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***
8		(20) SPT-CL-J2106-58	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG -0.474,-54.462		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***

Orbit Structure





Visit

Proposal 15294, SPT0205 Visit B (25), completed Tue Dec 18 20:01:36 GMT 2018

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ORIENT 205D TO 245 D; ORIENT 25D TO 65 D

Comments: Exposure 1-8 are for pointing A (POS TARG Y-offset: +55.25) (8 dithers)
Exposure 9-16 are for pointing B (POS TARG Y-offset: -55.25) (8 dithers)
Exposure 1-8 used NSAMP=15 instead 14 to fill in the unused orbital visibility.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(21)	SPTL-CL-J0205-5829	RA: 02 05 45.3500 (31.4389583d) Dec: -58 28 58.44 (-58.48290d) Equinox: J2000		V=20.0	Reference Frame: ICRS

Comments:
Category=CLUSTER OF GALAXIES
Description=[HIGH REDSHIFT CLUSTER]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(21) SPTL-CL-J0205-5829	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG null,55.25		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
2		(21) SPTL-CL-J0205-5829	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 1.355,55.674		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
3		(21) SPTL-CL-J0205-5829	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 0.881,56.462		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
4		(21) SPTL-CL-J0205-5829	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG -0.474,56.0380		702.938605 Secs (702.939 Secs) *[==>]*	 ***[1]***
5		(21) SPTL-CL-J0205-5829	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG null,-55.25		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***
6		(21) SPTL-CL-J0205-5829	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 1.355,-54.826		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***
7		(21) SPTL-CL-J0205-5829	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG 0.881,-54.038		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***
8		(21) SPTL-CL-J0205-5829	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPARS50	POS TARG -0.474,-54.462		702.938605 Secs (702.939 Secs) *[==>]*	 ***[2]***

Orbit Structure