14786 - Progenitor Masses for Every Nearby Historic Core-Collapse Supernova

Cycle: 24, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

Name	*Institution*	*E-Mail*
Dr. Benjamin F. Williams (PI) (Contact)	**University of Washington**	**ben@astro.washington.edu**
Dr. Julianne Dalcanton (CoI)	University of Washington	jd@astro.washington.edu
Dr. Jeremiah Murphy (CoI)	Florida State University	jeremiah@physics.fsu.edu
Dr. Karoline Gilbert (CoI)	Space Telescope Science Institute	kgilbert@stsci.edu
Dr. Andrew Eugene Dolphin (CoI)	Raytheon Company	adolphin@raytheon.com

VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) NGC6946-1 ANY	ACS/WFC WFC3/UVIS	4	08-Sep-2016 12:08:05.0	yes
02	(2) NGC6946-2 ANY	ACS/WFC WFC3/UVIS	4	08-Sep-2016 12:08:10.0	yes
03	(3) NGC6946-3 ANY	ACS/WFC WFC3/UVIS	2	08-Sep-2016 12:08:14.0	yes
04	(5) SN2005AF ANY	ACS/WFC WFC3/UVIS	1	08-Sep-2016 12:08:16.0	yes
05	(6) SN1978K ANY	ACS/WFC WFC3/UVIS	1	08-Sep-2016 12:08:17.0	yes
06	(8) SN1954A ANY	ACS/WFC WFC3/UVIS	1	08-Sep-2016 12:08:18.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
07	(9) SN2002AP (10) SN2003GD	ACS/WFC WFC3/UVIS	2	08-Sep-2016 12:08:20.0	yes
08	(11) SN1985F ANY	ACS/WFC WFC3/UVIS	2	08-Sep-2016 12:08:22.0	yes
09	(12) SN2002BU ANY	ACS/WFC WFC3/UVIS	2	08-Sep-2016 12:08:24.0	yes

19 Total Orbits Used

ABSTRACT

Some of the most energetic explosions in the Universe are the core-collapse supernovae (CCSNe) that arise from the death of massive stars. They herald the birth of neutron stars and black holes, are prodigious emitters of neutrinos and gravitational waves, influence galactic hydrodynamics, trigger further star formation, and are a major site for nucleosynthesis, yet even the most basic elements of CCSN theory are poorly constrained by observations. Specifically, there are too few observations to constrain the progenitor mass distribution and fewer observations still to constrain the mapping between progenitor mass and explosion type (e.g. IIP IIL, IIb, Ib/c, etc.). Combining previous measurements with 9 proposed HST pointings covering 13 historic CCSNe, we plan to obtain progenitor mass measurements for all cataloged historic CCSNe within 8 Mpc, optimizing observational mass constraints for CCSN theory.

OBSERVING DESCRIPTION

This program will observe 9 pointings covering 13 SNe locations. The NGC6946 pointings cover 2 SNe per pointing, and the SN2002AP will be in the parallel pointing for SN2003GD. All other pointings cover one SNe each. Each observation has 4 exposures in each camera per orbit, with a dither pattern designed to get approximately 0.5 pixel sampling in both cameras.

Visit

Proposal 14786, Visit 01, implementation

Thu Sep 08 16:08:26 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: ORIENT 97D TO 100 D

Fixed Targets

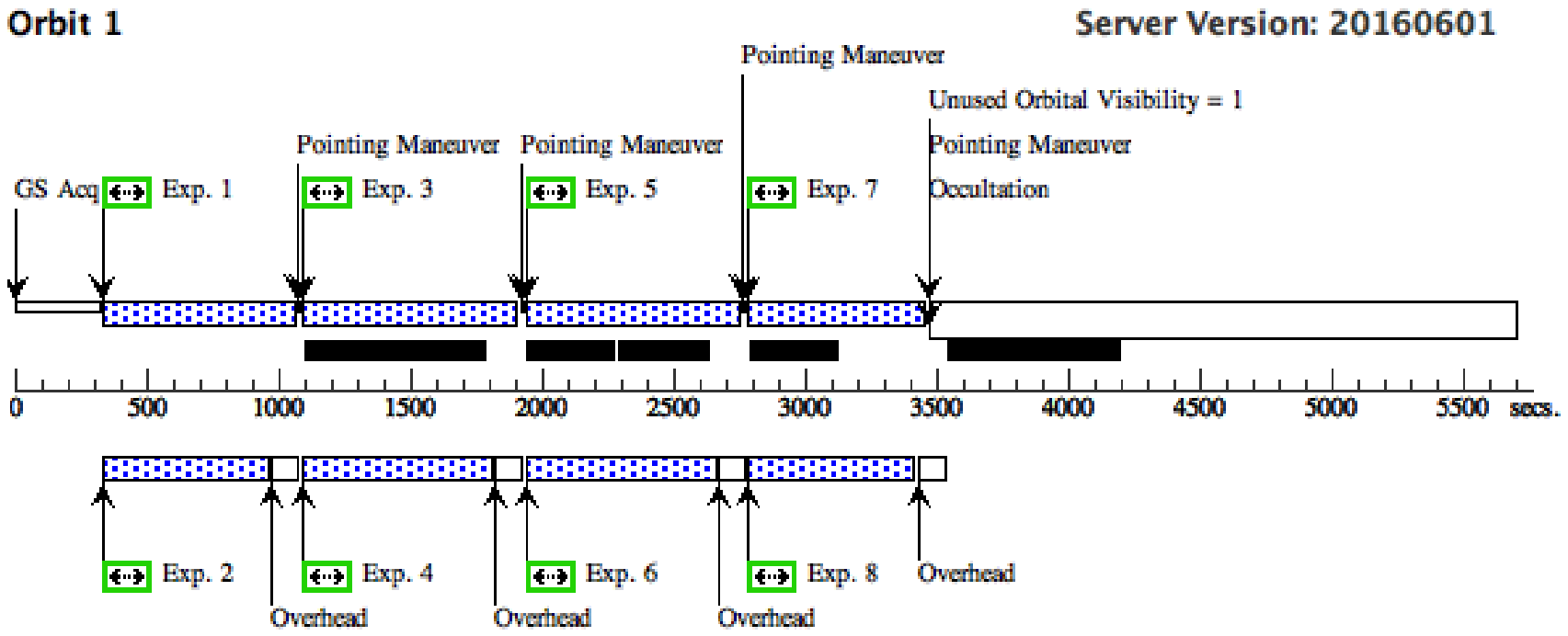
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	NGC6946-1	RA: 20 35 12.4643 (308.8019346d) Dec: +60 10 16.46 (60.17124d) Equinox: J2000		V=28.5	Reference Frame: ICRS

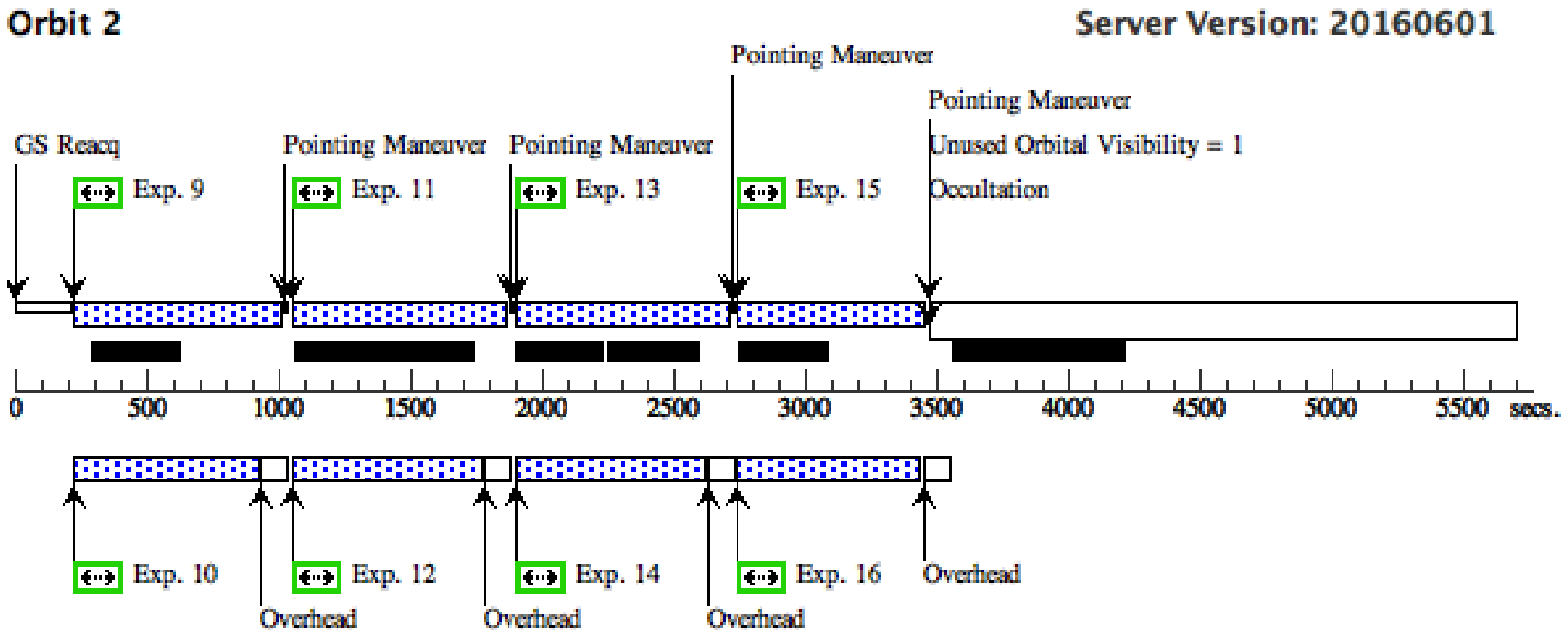
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACS F435W 1	(1) NGC6946-1	ACS/WFC, ACCUM, WFC	F435W		GS ACQ SCENARIO BASE1B3	Prime + Parallel Group 1-2 in Visit 01	520 Secs (520 Secs)	
								[==>]	***[1]***
2	WFC3 F606W 1	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 1-2 in Visit 01	600 Secs (600 Secs)	
								[==>]	***[1]***
3	ACS F435W 2	(1) NGC6946-1	ACS/WFC, ACCUM, WFC	F435W		POS TARG 0.125,null	Prime + Parallel Group 3-4 in Visit 01	690 Secs (690 Secs)	
								[==>]	***[1]***
4	WFC3 F606W 2	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 3-4 in Visit 01	720 Secs (720 Secs)	
								[==>]	***[1]***
5	ACS F435W 3	(1) NGC6946-1	ACS/WFC, ACCUM, WFC	F435W		POS TARG 0.125,-0.125	Prime + Parallel Group 5-6 in Visit 01	690 Secs (690 Secs)	
								[==>]	***[1]***
6	WFC3 F606W 3	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 5-6 in Visit 01	720 Secs (720 Secs)	
								[==>]	***[1]***
7	ACS F435W 4	(1) NGC6946-1	ACS/WFC, ACCUM, WFC	F435W		POS TARG 0.0 ,-0.125	Prime + Parallel Group 7-8 in Visit 01	550 Secs (550 Secs)	
								[==>]	***[1]***
8	WFC3 F606W 4	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 7-8 in Visit 01	630 Secs (630 Secs)	
								[==>]	***[1]***
9	ACS F606W 1	(1) NGC6946-1	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Group 9-10 in Visit 01	600 Secs (600 Secs)	
								[==>]	***[2]***
10	WFC3 F814W 1	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 9-10 in Visit 01	680 Secs (680 Secs)	
								[==>]	***[2]***
11	ACS F606W 2	(1) NGC6946-1	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.125,null	Prime + Parallel Group 11-12 in Visit 01	690 Secs (690 Secs)	
								[==>]	***[2]***
12	WFC3 F814W 2	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 11-12 in Visit 01	720 Secs (720 Secs)	
								[==>]	***[2]***
13	ACS F606W 3	(1) NGC6946-1	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.125,-0.125	Prime + Parallel Group 13-14 in Visit 01	690 Secs (690 Secs)	
								[==>]	***[2]***
14	WFC3 F814W 3	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 13-14 in Visit 01	720 Secs (720 Secs)	
								[==>]	***[2]***
15	ACS F606W 4	(1) NGC6946-1	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.0 ,-0.125	Prime + Parallel Group 15-16 in Visit 01	590 Secs (590 Secs)	
								[==>]	***[2]***
16	WFC3 F814W 4	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 15-16 in Visit 01	690 Secs (690 Secs)	
								[==>]	***[2]***
17	ACS F435W 1	(1) NGC6946-1	ACS/WFC, ACCUM, WFC	F435W			Prime + Parallel Group 17-18 in Visit 01	600 Secs (600 Secs)	
								[==>]	***[3]***
18	WFC3 F606W 1	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 17-18 in Visit 01	680 Secs (680 Secs)	
								[==>]	***[3]***
19	ACS F435W 2	(1) NGC6946-1	ACS/WFC, ACCUM, WFC	F435W		POS TARG 0.125,null	Prime + Parallel Group 19-20 in Visit 01	690 Secs (690 Secs)	
								[==>]	***[3]***
20	WFC3 F606W 2	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 19-20 in Visit 01	720 Secs (720 Secs)	
								[==>]	***[3]***
21	ACS F435W 3	(1) NGC6946-1	ACS/WFC, ACCUM, WFC	F435W		POS TARG 0.125,-0.125	Prime + Parallel Group 21-22 in Visit 01	690 Secs (690 Secs)	
								[==>]	***[3]***
22	WFC3 F606W 3	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 21-22 in Visit 01	720 Secs (720 Secs)	
								[==>]	***[3]***

	23	ACS F435W 14	(1) NGC6946-1	ACS/WFC, ACCUM, WFC	F435W	POS TARG 0.0 ,-0.125	Prime + Parallel Group 23-24 in Visit 01	590 Secs (590 Secs) *[==>]*	 ***[3]***
	24	WFC3 F606W 4	ANY	WFC3/UVIS, ACCUM, UVIS	F606W		Prime + Parallel Group 23-24 in Visit 01	680 Secs (680 Secs) *[==>]*	 ***[3]***
	25	ACS F606W 1	(1) NGC6946-1	ACS/WFC, ACCUM, WFC	F606W		Prime + Parallel Group 25-26 in Visit 01	528 Secs (528 Secs) *[==>]*	 ***[4]***
	26	WFC3 F814W 1	ANY	WFC3/UVIS, ACCUM, UVIS	F814W		Prime + Parallel Group 25-26 in Visit 01	618 Secs (618 Secs) *[==>]*	 ***[4]***
	27	ACS F606W 2	(1) NGC6946-1	ACS/WFC, ACCUM, WFC	F606W	POS TARG 0.125,null	Prime + Parallel Group 27-28 in Visit 01	690 Secs (690 Secs) *[==>]*	 ***[4]***
	28	WFC3 F814W 2	ANY	WFC3/UVIS, ACCUM, UVIS	F814W		Prime + Parallel Group 27-28 in Visit 01	720 Secs (720 Secs) *[==>]*	 ***[4]***
	29	ACS F606W 3	(1) NGC6946-1	ACS/WFC, ACCUM, WFC	F606W	POS TARG 0.125,-0.125	Prime + Parallel Group 29-30 in Visit 01	690 Secs (690 Secs) *[==>]*	 ***[4]***
	30	WFC3 F814W 3	ANY	WFC3/UVIS, ACCUM, UVIS	F814W		Prime + Parallel Group 29-30 in Visit 01	720 Secs (720 Secs) *[==>]*	 ***[4]***
	31	ACS F435W 14	(1) NGC6946-1	ACS/WFC, ACCUM, WFC	F435W	POS TARG 0.0 ,-0.125	Prime + Parallel Group 31-32 in Visit 01	590 Secs (590 Secs) *[==>]*	 ***[4]***
	32	WFC3 F814W 4	ANY	WFC3/UVIS, ACCUM, UVIS	F814W		Prime + Parallel Group 31-32 in Visit 01	680 Secs (680 Secs) *[==>]*	 ***[4]***

Orbit Structure

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Pointing Maneuver
Pointing Maneuver
GS Reacq
Pointing Maneuver
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Exp. 9
Exp. 11
Exp. 13
Exp. 15
Occultation
0
500
1000
1500
2000
2500
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5000
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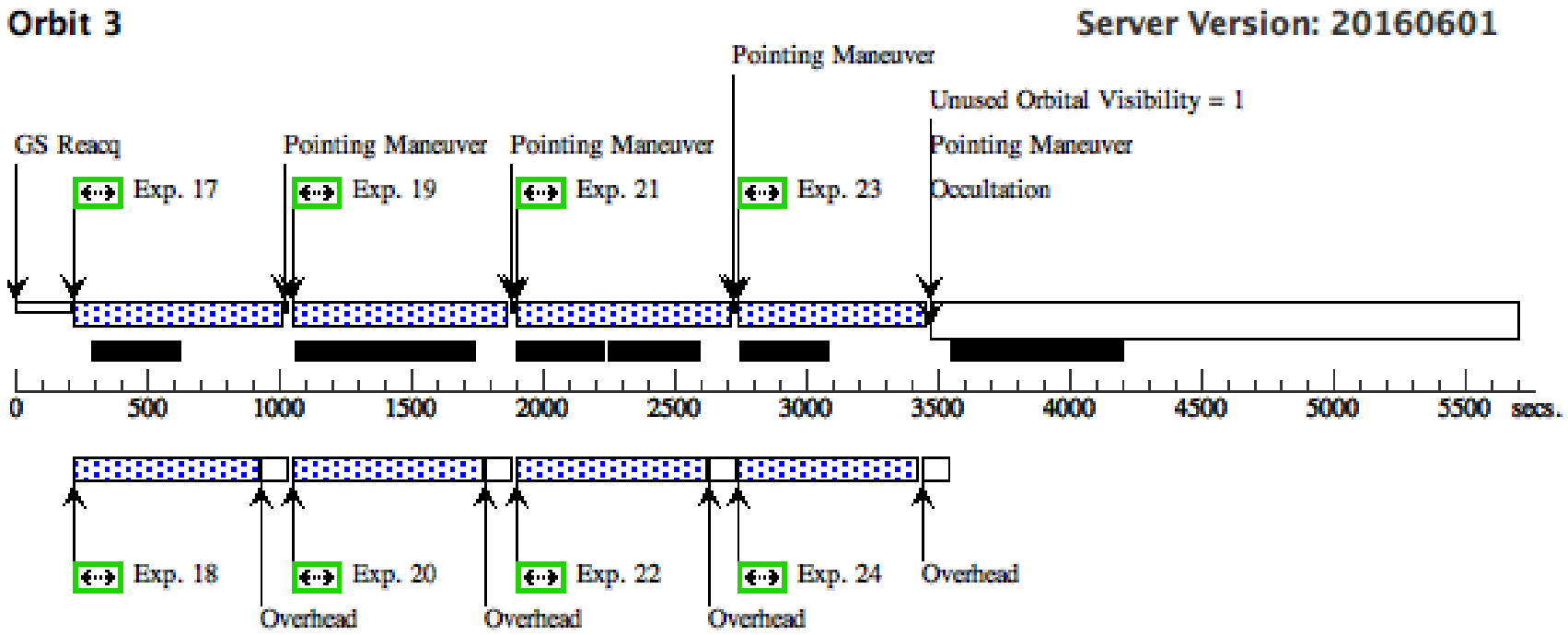
secs.
Exp. 10
Exp. 12
Exp. 14
Exp. 16
Overhead
Overhead
Overhead
Overhead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Pointing Maneuver
Unused Orbital Visibility = 1
GS Reacq
Pointing Maneuver
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Pointing Maneuver
Exp. 17
Exp. 19
Exp. 21
Exp. 23
Occultation
0
500
1000
1500
2000
2500
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secs.
Exp. 18
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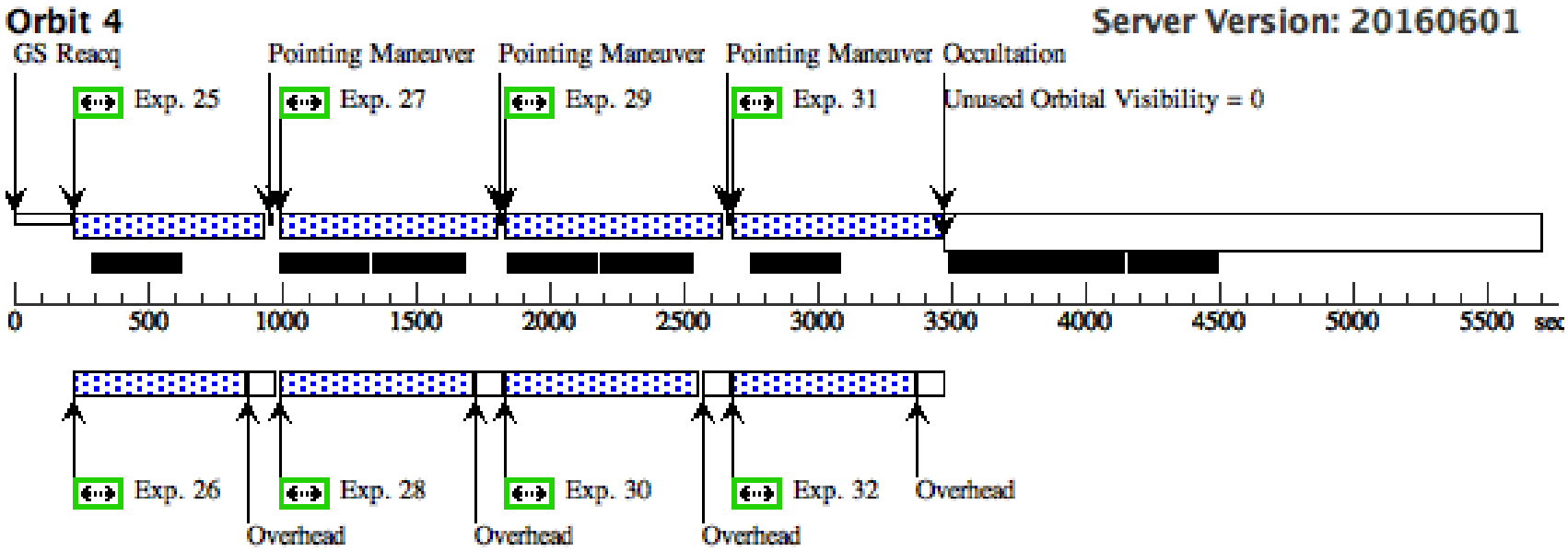
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Server Version: 20160601
GS Reacq
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Occultation
Exp. 25
Exp. 27
Exp. 29
Exp. 31
Unused Orbital Visibility = 0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec
Exp. 26
Exp. 28
Exp. 30
Exp. 32
Overhead
Overhead
Overhead
Overhead

Visit

Proposal 14786, Visit 02, implementation

Thu Sep 08 16:08:26 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: ORIENT 97D TO 100 D

Fixed Targets

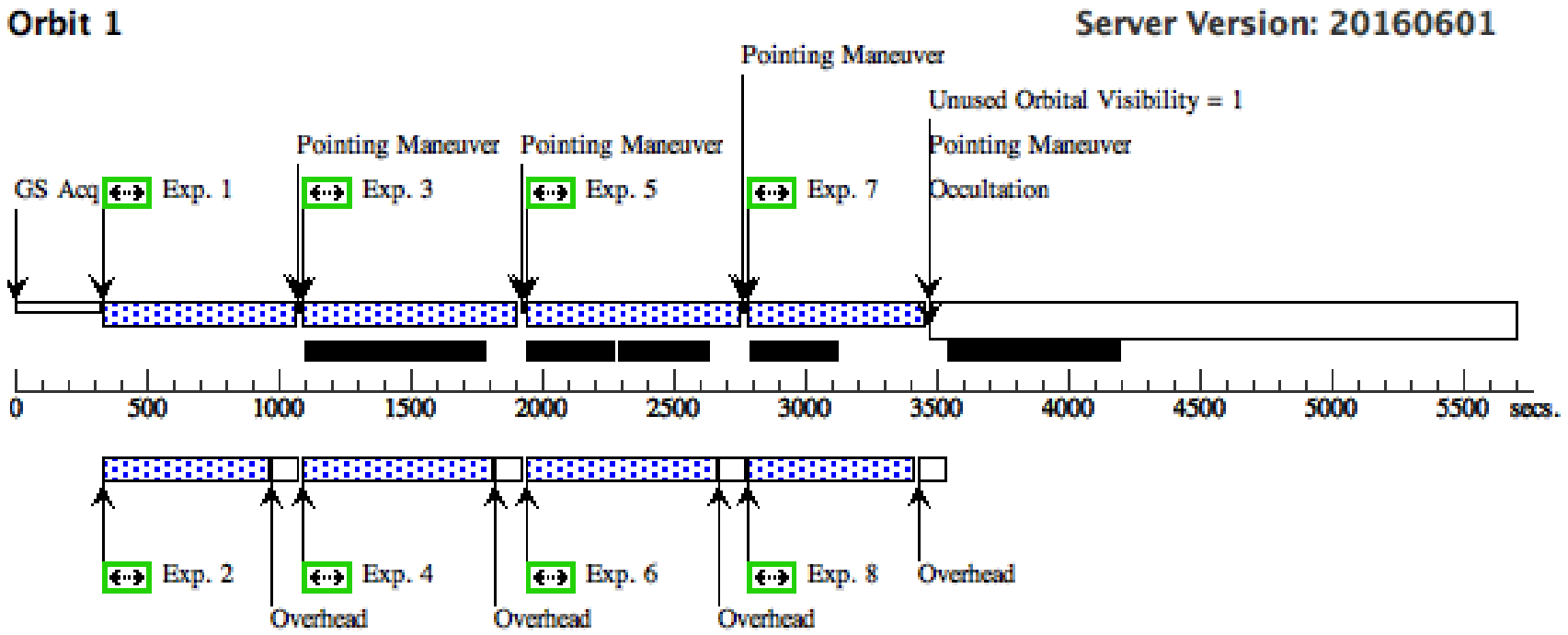
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	NGC6946-2	RA: 20 34 57.6382 (308.7401592d) Dec: +60 07 6.67 (60.11852d) Equinox: J2000		V=28.5	Reference Frame: ICRS

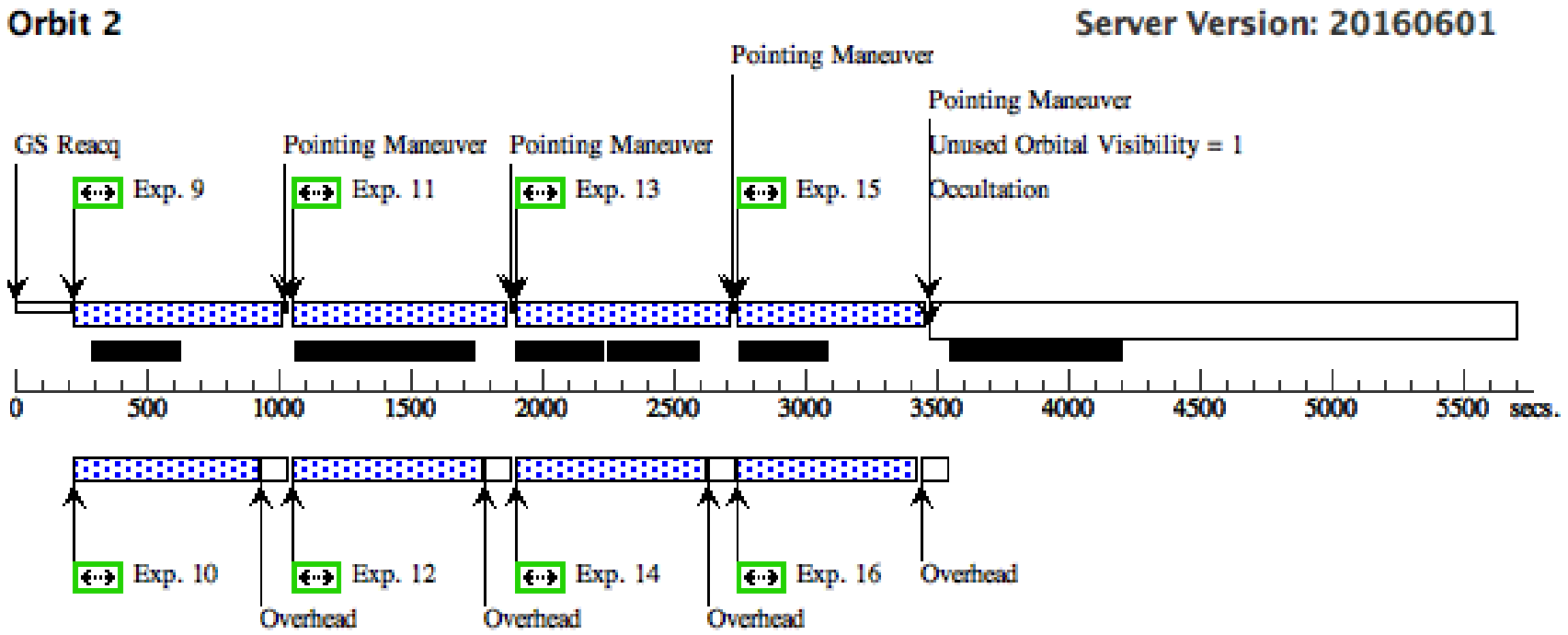
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACS F435W 1	(2) NGC6946-2	ACS/WFC, ACCUM, WFC	F435W		GS ACQ SCENARIO BASE1B3	Prime + Parallel Group 1-2 in Visit 02	520 Secs (520 Secs)	
								[==>]	***[1]***
2	WFC3 F606W 1	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 1-2 in Visit 02	600 Secs (600 Secs)	
								[==>]	***[1]***
3	ACS F435W 2	(2) NGC6946-2	ACS/WFC, ACCUM, WFC	F435W		POS TARG 0.125,null	Prime + Parallel Group 3-4 in Visit 02	690 Secs (690 Secs)	
								[==>]	***[1]***
4	WFC3 F606W 2	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 3-4 in Visit 02	720 Secs (720 Secs)	
								[==>]	***[1]***
5	ACS F435W 3	(2) NGC6946-2	ACS/WFC, ACCUM, WFC	F435W		POS TARG 0.125,-0.125	Prime + Parallel Group 5-6 in Visit 02	690 Secs (690 Secs)	
								[==>]	***[1]***
6	WFC3 F606W 3	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 5-6 in Visit 02	720 Secs (720 Secs)	
								[==>]	***[1]***
7	ACS F435W 4	(2) NGC6946-2	ACS/WFC, ACCUM, WFC	F435W		POS TARG 0.0 ,-0.125	Prime + Parallel Group 7-8 in Visit 02	550 Secs (550 Secs)	
								[==>]	***[1]***
8	WFC3 F606W 4	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 7-8 in Visit 02	630 Secs (630 Secs)	
								[==>]	***[1]***
9	ACS F606W 1	(2) NGC6946-2	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Group 9-10 in Visit 02	600 Secs (600 Secs)	
								[==>]	***[2]***
10	WFC3 F814W 1	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 9-10 in Visit 02	680 Secs (680 Secs)	
								[==>]	***[2]***
11	ACS F606W 2	(2) NGC6946-2	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.125,null	Prime + Parallel Group 11-12 in Visit 02	690 Secs (690 Secs)	
								[==>]	***[2]***
12	WFC3 F814W 2	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 11-12 in Visit 02	720 Secs (720 Secs)	
								[==>]	***[2]***
13	ACS F606W 3	(2) NGC6946-2	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.125,-0.125	Prime + Parallel Group 13-14 in Visit 02	690 Secs (690 Secs)	
								[==>]	***[2]***
14	WFC3 F814W 3	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 13-14 in Visit 02	720 Secs (720 Secs)	
								[==>]	***[2]***
15	ACS F606W 4	(2) NGC6946-2	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.0 ,-0.125	Prime + Parallel Group 15-16 in Visit 02	590 Secs (590 Secs)	
								[==>]	***[2]***
16	WFC3 F814W 4	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 15-16 in Visit 02	680 Secs (680 Secs)	
								[==>]	***[2]***
17	ACS F435W 1	(2) NGC6946-2	ACS/WFC, ACCUM, WFC	F435W			Prime + Parallel Group 17-18 in Visit 02	600 Secs (600 Secs)	
								[==>]	***[3]***
18	WFC3 F606W 1	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 17-18 in Visit 02	680 Secs (680 Secs)	
								[==>]	***[3]***
19	ACS F435W 2	(2) NGC6946-2	ACS/WFC, ACCUM, WFC	F435W		POS TARG 0.125,null	Prime + Parallel Group 19-20 in Visit 02	690 Secs (690 Secs)	
								[==>]	***[3]***
20	WFC3 F606W 2	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 19-20 in Visit 02	720 Secs (720 Secs)	
								[==>]	***[3]***
21	ACS F435W 3	(2) NGC6946-2	ACS/WFC, ACCUM, WFC	F435W		POS TARG 0.125,-0.125	Prime + Parallel Group 21-22 in Visit 02	690 Secs (690 Secs)	
								[==>]	***[3]***
22	WFC3 F606W 3	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 21-22 in Visit 02	720 Secs (720 Secs)	
								[==>]	***[3]***

	23	ACS F435W 4	(2) NGC6946-2	ACS/WFC, ACCUM, WFC	F435W	POS TARG 0.0 ,-0.125	Prime + Parallel Group 23-24 in Visit 02	590 Secs (590 Secs) *[==>]*	 ***[3]***
	24	WFC3 F606W 4	ANY	WFC3/UVIS, ACCUM, UVIS	F606W		Prime + Parallel Group 23-24 in Visit 02	680 Secs (680 Secs) *[==>]*	 ***[3]***
	25	ACS F606W 1	(2) NGC6946-2	ACS/WFC, ACCUM, WFC	F606W		Prime + Parallel Group 25-26 in Visit 02	538 Secs (538 Secs) *[==>]*	 ***[4]***
	26	WFC3 F814W 1	ANY	WFC3/UVIS, ACCUM, UVIS	F814W		Prime + Parallel Group 25-26 in Visit 02	618 Secs (618 Secs) *[==>]*	 ***[4]***
	27	ACS F606W 2	(2) NGC6946-2	ACS/WFC, ACCUM, WFC	F606W	POS TARG 0.125,null	Prime + Parallel Group 27-28 in Visit 02	690 Secs (690 Secs) *[==>]*	 ***[4]***
	28	WFC3 F814W 2	ANY	WFC3/UVIS, ACCUM, UVIS	F814W		Prime + Parallel Group 27-28 in Visit 02	720 Secs (720 Secs) *[==>]*	 ***[4]***
	29	ACS F606W 3	(2) NGC6946-2	ACS/WFC, ACCUM, WFC	F606W	POS TARG 0.125,-0.125	Prime + Parallel Group 29-30 in Visit 02	690 Secs (690 Secs) *[==>]*	 ***[4]***
	30	WFC3 F814W 3	ANY	WFC3/UVIS, ACCUM, UVIS	F814W		Prime + Parallel Group 29-30 in Visit 02	720 Secs (720 Secs) *[==>]*	 ***[4]***
	31	ACS F435W 4	(2) NGC6946-2	ACS/WFC, ACCUM, WFC	F435W	POS TARG 0.0 ,-0.125	Prime + Parallel Group 31-32 in Visit 02	590 Secs (590 Secs) *[==>]*	 ***[4]***
	32	WFC3 F814W 4	ANY	WFC3/UVIS, ACCUM, UVIS	F814W		Prime + Parallel Group 31-32 in Visit 02	680 Secs (680 Secs) *[==>]*	 ***[4]***

Orbit Structure




Orbit 2
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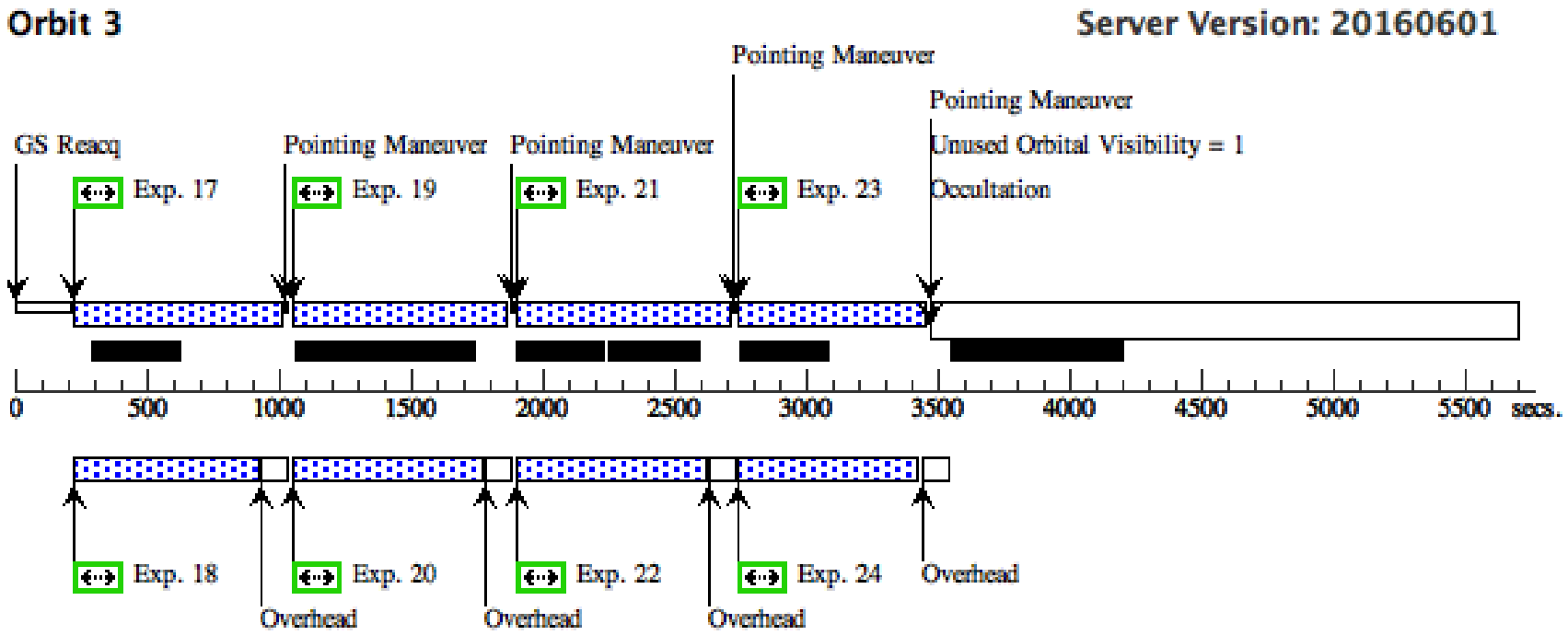
Pointing Maneuver
Pointing Maneuver
GS Reacq
Pointing Maneuver
Pointing Maneuver
Unused Orbital Visibility = 1
Exp. 9
Exp. 11
Exp. 13
Exp. 15
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.
Exp. 10
Exp. 12
Exp. 14
Exp. 16
Overhead
Overhead
Overhead
Overhead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Pointing Maneuver
Pointing Maneuver
GS Reacq
Pointing Maneuver
Pointing Maneuver
Unused Orbital Visibility = 1
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Exp. 19
Exp. 21
Exp. 23
Occultation
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2000
2500
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Exp. 24
Overhead
Overhead
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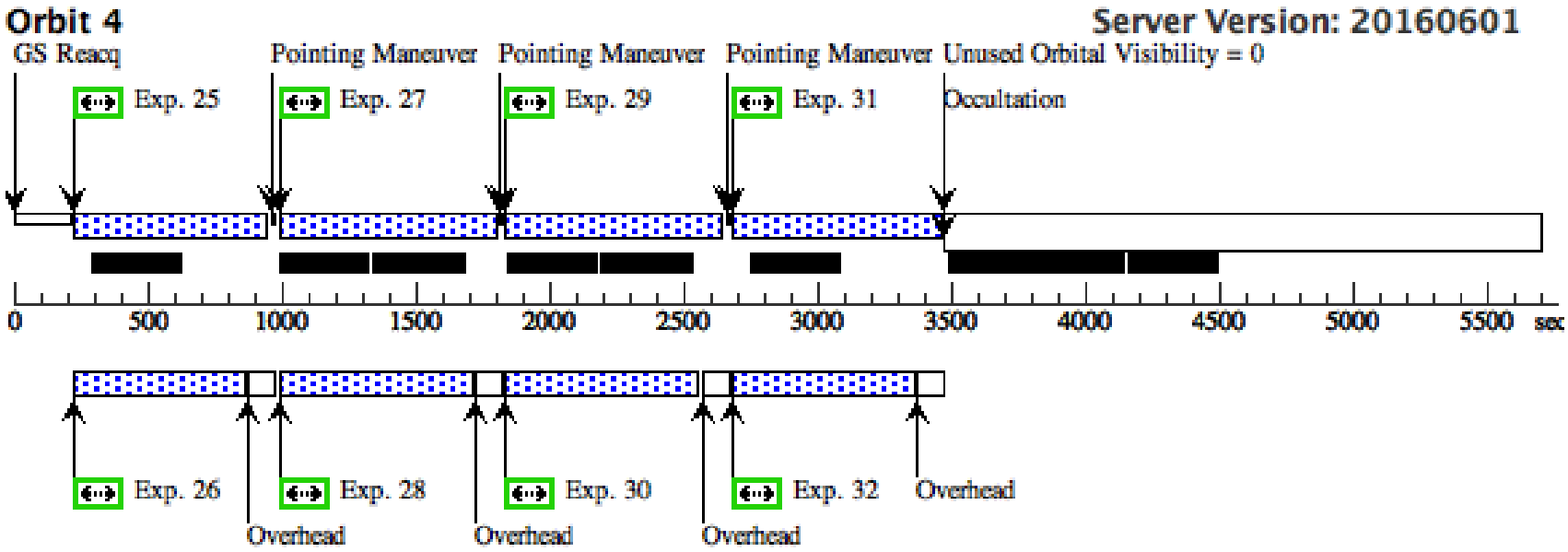
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GS Reacq
Pointing Maneuver
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Pointing Maneuver
Unused Orbital Visibility = 0
Exp. 25
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Exp. 29
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1000
1500
2000
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3000
3500
4000
4500
5000
5500
sec
Exp. 26
Exp. 28
Exp. 30
Exp. 32
Overhead
Overhead
Overhead
Overhead

Visit

Proposal 14786, Visit 03, implementation Thu Sep 08 16:08:26 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: ORIENT 87D TO 89 D

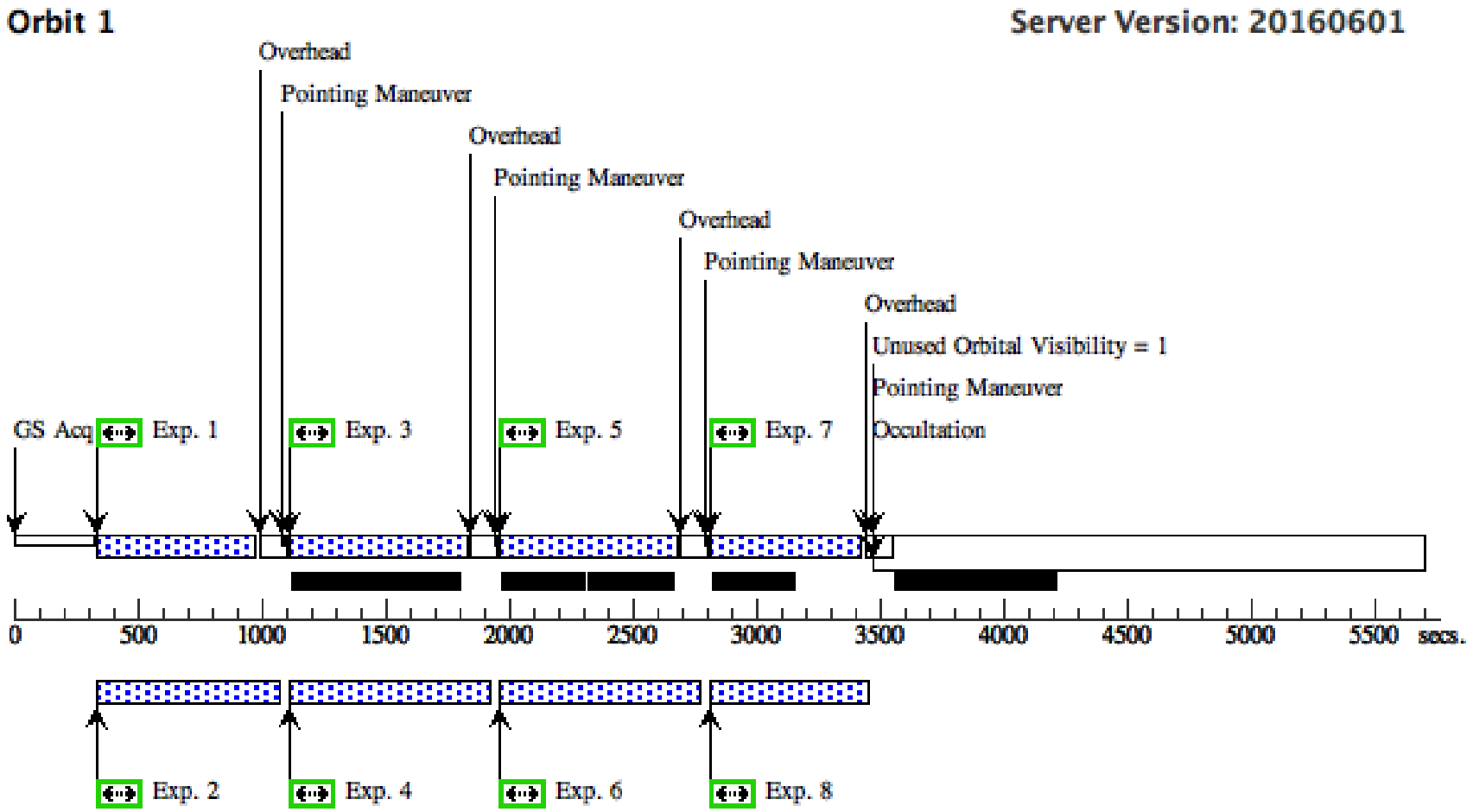
Fixed Targets

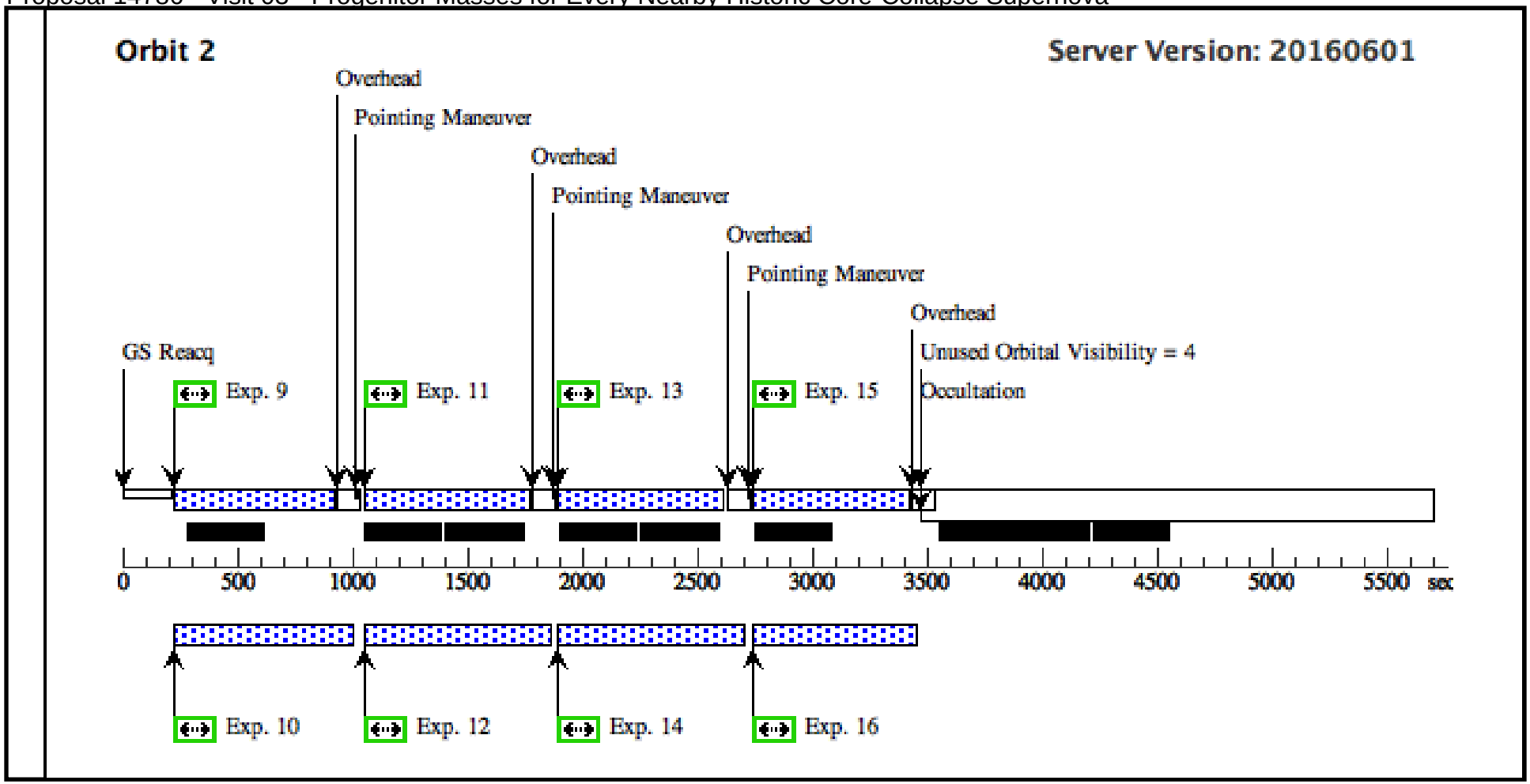
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	NGC6946-3	RA: 20 35 25.7137 (308.8571404d) Dec: +60 06 55.08 (60.11530d) Equinox: J2000		V=28.5	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WFC3 F438W 1	(3) NGC6946-3	WFC3/UVIS, ACCUM, UVIS	F438W	FLASH=7	GS ACQ SCENARIO BASE1B3	Prime + Parallel Group 1-2 in Visit 03	615 Secs (615 Secs) *[==>]*	 ***[1]***
2	ACS F606W 1	ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Group 1-2 in Visit 03	530 Secs (530 Secs) *[==>]*	 ***[1]***
3	WFC3 F438W 2	(3) NGC6946-3	WFC3/UVIS, ACCUM, UVIS	F438W	FLASH=7.0	POS TARG 0.125,null	Prime + Parallel Group 3-4 in Visit 03	720 Secs (720 Secs) *[==>]*	 ***[1]***
4	ACS F606W 2	ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Group 3-4 in Visit 03	690 Secs (690 Secs) *[==>]*	 ***[1]***
5	WFC3 F438W 3	(3) NGC6946-3	WFC3/UVIS, ACCUM, UVIS	F438W	FLASH=7	POS TARG 0.125,-0.125	Prime + Parallel Group 5-6 in Visit 03	720 Secs (720 Secs) *[==>]*	 ***[1]***
6	ACS F606W 3	ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Group 5-6 in Visit 03	690 Secs (690 Secs) *[==>]*	 ***[1]***
7	WFC3 F438W 4	(3) NGC6946-3	WFC3/UVIS, ACCUM, UVIS	F438W	FLASH=7	POS TARG 0.0 ,-0.125	Prime + Parallel Group 7-8 in Visit 03	615 Secs (615 Secs) *[==>]*	 ***[1]***
8	ACS F606W 4	ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Group 7-8 in Visit 03	520 Secs (520 Secs) *[==>]*	 ***[1]***
9	WFC3 F606W 1	(3) NGC6946-3	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 9-10 in Visit 03	680 Secs (680 Secs) *[==>]*	 ***[2]***
10	ACS F814W 1	ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 9-10 in Visit 03	600 Secs (600 Secs) *[==>]*	 ***[2]***
11	WFC3 F606W 2	(3) NGC6946-3	WFC3/UVIS, ACCUM, UVIS	F606W		POS TARG 0.125,null	Prime + Parallel Group 11-12 in Visit 03	720 Secs (720 Secs) *[==>]*	 ***[2]***
12	ACS F814W 2	ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 11-12 in Visit 03	690 Secs (690 Secs) *[==>]*	 ***[2]***
13	WFC3 F606W 3	(3) NGC6946-3	WFC3/UVIS, ACCUM, UVIS	F606W		POS TARG 0.125,-0.125	Prime + Parallel Group 13-14 in Visit 03	720 Secs (720 Secs) *[==>]*	 ***[2]***
14	ACS F814W 3	ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 13-14 in Visit 03	690 Secs (690 Secs) *[==>]*	 ***[2]***
15	WFC3 F606W 4	(3) NGC6946-3	WFC3/UVIS, ACCUM, UVIS	F606W		POS TARG 0.0 ,-0.125	Prime + Parallel Group 15-16 in Visit 03	680 Secs (680 Secs) *[==>]*	 ***[2]***
16	ACS F814W 4	ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 15-16 in Visit 03	590 Secs (590 Secs) *[==>]*	 ***[2]***

Orbit Structure




Orbit 2
Server Version: 20160601
Overhead
Pointing Maneuver
Overhead
Pointing Maneuver
Overhead
Pointing Maneuver
Overhead
Unused Orbital Visibility = 4
Occultation
GS Reacq
Exp. 9
Exp. 11
Exp. 13
Exp. 15
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec
Exp. 10
Exp. 12
Exp. 14
Exp. 16

Visit

Proposal 14786, Visit 04, implementation Thu Sep 08 16:08:26 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: ORIENT 280D TO 80 D

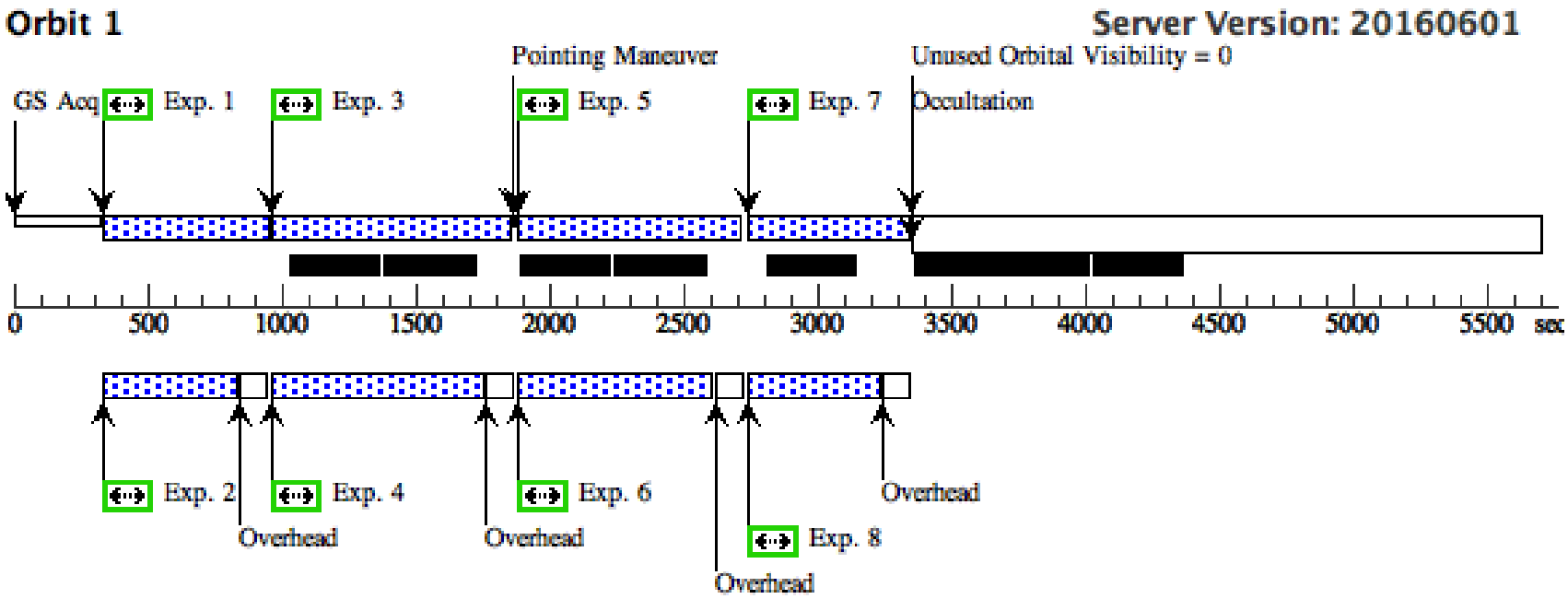
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	SN2005AF	RA: 13 04 43.8671 (196.1827796d) Dec: -49 34 13.92 (-49.57053d) Equinox: J2000		V=27.4	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACS F606W 1	(5) SN2005AF	ACS/WFC, ACCUM, WFC	F606W		GS ACQ SCENARIO BASE1B3	Prime + Parallel Group 1-2 in Visit 04	410 Secs (410 Secs) *[==>]*	 ***[1]***
2	WFC3 F606W 1	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 1-2 in Visit 04	470 Secs (470 Secs) *[==>]*	 ***[1]***
3	ACS F435W 1	(5) SN2005AF	ACS/WFC, ACCUM, WFC	F435W			Prime + Parallel Group 3-4 in Visit 04	705 Secs (705 Secs) *[==>]*	 ***[1]***
4	WFC3 F814W 1	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 3-4 in Visit 04	770 Secs (770 Secs) *[==>]*	 ***[1]***
5	ACS F435W 2	(5) SN2005AF	ACS/WFC, ACCUM, WFC	F435W		POS TARG 0.125,-0.125	Prime + Parallel Group 5-6 in Visit 04	705 Secs (705 Secs) *[==>]*	 ***[1]***
6	WFC3 F814W 2	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 5-6 in Visit 04	725 Secs (725 Secs) *[==>]*	 ***[1]***
7	ACS F606W 2	(5) SN2005AF	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.125,-0.125	Prime + Parallel Group 7-8 in Visit 04	409 Secs (409 Secs) *[==>]*	 ***[1]***
8	WFC3 F606W 2	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 7-8 in Visit 04	470 Secs (470 Secs) *[==>]*	 ***[1]***

Orbit Structure



Visit

Proposal 14786, Visit 05, implementation Thu Sep 08 16:08:26 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS, ACS/WFC

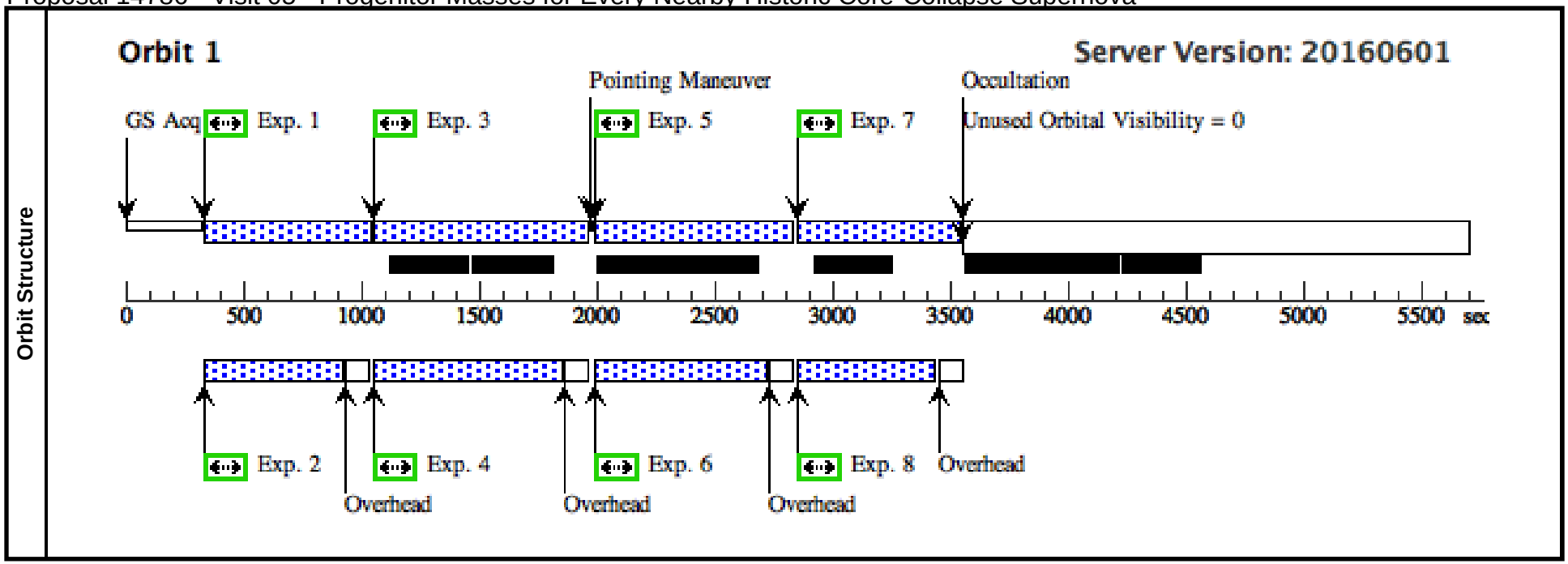
Special Requirements: ORIENT 280D TO 80 D

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	SN1978K	RA: 03 17 38.1886 (49.4091192d) Dec: -66 33 24.00 (-66.55667d) Equinox: J2000		V=27.4	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACS F606W 1	(6) SN1978K	ACS/WFC, ACCUM, WFC	F606W		GS ACQ SCENARIO BASE1B3	Prime + Parallel Group 1-2 in Visit 05	500 Secs (500 Secs) *[==>]*	 ***[1]***
2	WFC3 F606W 1	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 1-2 in Visit 05	560 Secs (560 Secs) *[==>]*	 ***[1]***
3	ACS F435W 1	(6) SN1978K	ACS/WFC, ACCUM, WFC	F435W			Prime + Parallel Group 3-4 in Visit 05	720 Secs (720 Secs) *[==>]*	 ***[1]***
4	WFC3 F814W 1	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 3-4 in Visit 05	780 Secs (780 Secs) *[==>]*	 ***[1]***
5	ACS F435W 2	(6) SN1978K	ACS/WFC, ACCUM, WFC	F435W		POS TARG 0.125,-0.125	Prime + Parallel Group 5-6 in Visit 05	720 Secs (720 Secs) *[==>]*	 ***[1]***
6	WFC3 F814W 2	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 5-6 in Visit 05	733 Secs (733 Secs) *[==>]*	 ***[1]***
7	ACS F606W 2	(6) SN1978K	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.125,-0.125	Prime + Parallel Group 7-8 in Visit 05	500 Secs (500 Secs) *[==>]*	 ***[1]***
8	WFC3 F606W 2	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 7-8 in Visit 05	560 Secs (560 Secs) *[==>]*	 ***[1]***


Orbit Structure
Orbit 1
Server Version: 20160601
Pointing Maneuver
Occultation
GS Acq
Exp. 1
Exp. 3
Exp. 5
Exp. 7
Unused Orbital Visibility = 0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec
Exp. 2
Exp. 4
Exp. 6
Exp. 8
Overhead
Overhead
Overhead
Overhead

Visit

Proposal 14786, Visit 06, implementation Thu Sep 08 16:08:26 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: ORIENT 134D TO 270 D

Comments: Orient was 80-100 degrees.

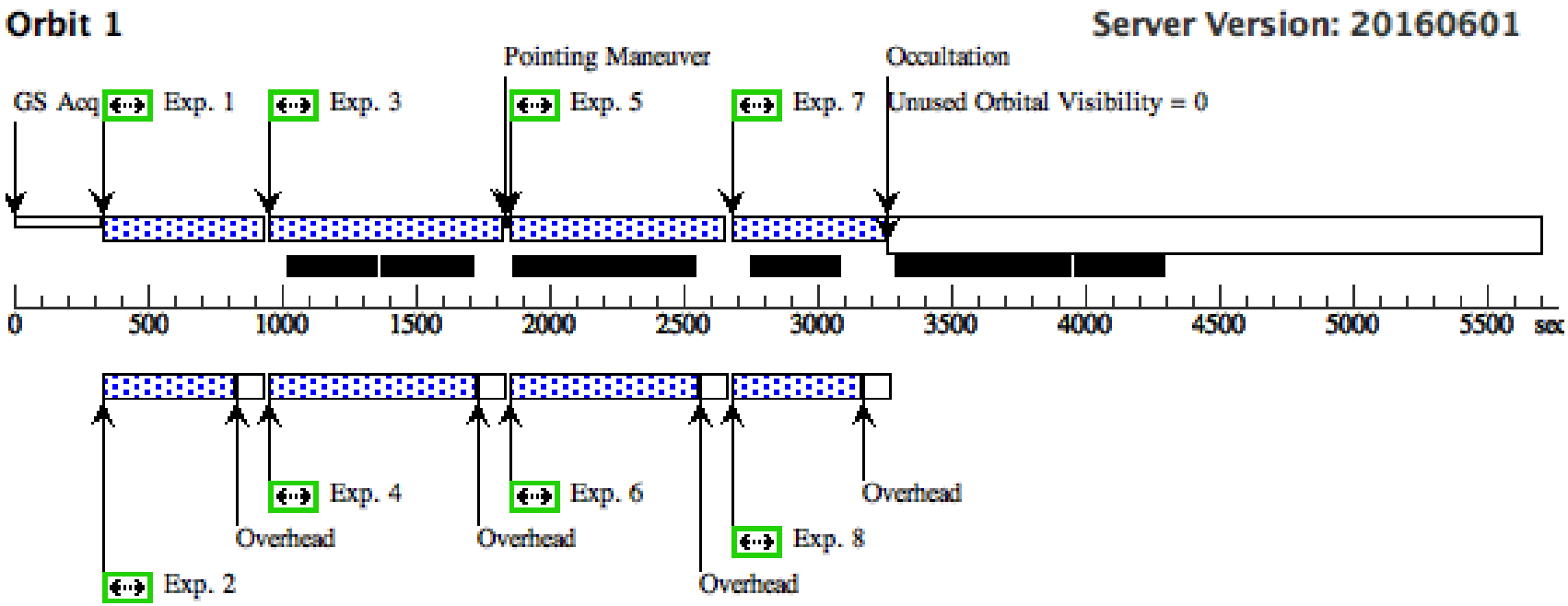
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	SN1954A	RA: 12 15 46.9863 (183.9457763d) Dec: +36 16 52.09 (36.28114d) Equinox: J2000		V=27.4	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACS F606W 1	(8) SN1954A	ACS/WFC, ACCUM, WFC	F606W		GS ACQ SCENARIO BASE1B3	Prime + Parallel Group 1-2 in Visit 06	390 Secs (390 Secs) *[==>]*	 ***[1]***
2	WFC3 F606W 1	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 1-2 in Visit 06	460 Secs (460 Secs) *[==>]*	 ***[1]***
3	ACS F435W 1	(8) SN1954A	ACS/WFC, ACCUM, WFC	F435W			Prime + Parallel Group 3-4 in Visit 06	680 Secs (680 Secs) *[==>]*	 ***[1]***
4	WFC3 F814W 1	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 3-4 in Visit 06	750 Secs (750 Secs) *[==>]*	 ***[1]***
5	ACS F435W 2	(8) SN1954A	ACS/WFC, ACCUM, WFC	F435W		POS TARG 0.125,-0.125	Prime + Parallel Group 5-6 in Visit 06	680 Secs (680 Secs) *[==>]*	 ***[1]***
6	WFC3 F814W 2	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 5-6 in Visit 06	700 Secs (700 Secs) *[==>]*	 ***[1]***
7	ACS F606W 2	(8) SN1954A	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.125,-0.125	Prime + Parallel Group 7-8 in Visit 06	384 Secs (384 Secs) *[==>]*	 ***[1]***
8	WFC3 F606W 2	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 7-8 in Visit 06	460 Secs (460 Secs) *[==>]*	 ***[1]***

Orbit Structure



Visit

Proposal 14786, Visit 07, implementation Thu Sep 08 16:08:26 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: ORIENT 48D TO 60 D

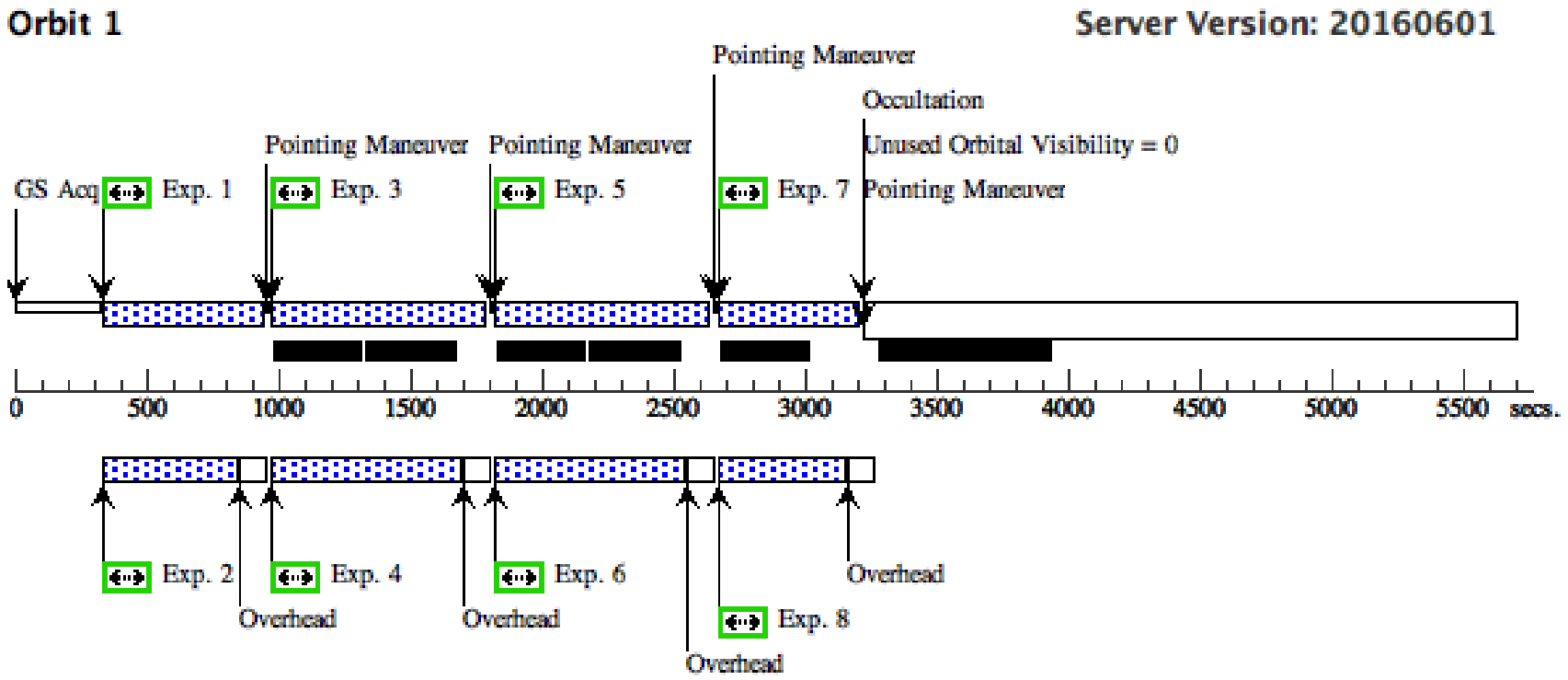
Fixed Targets

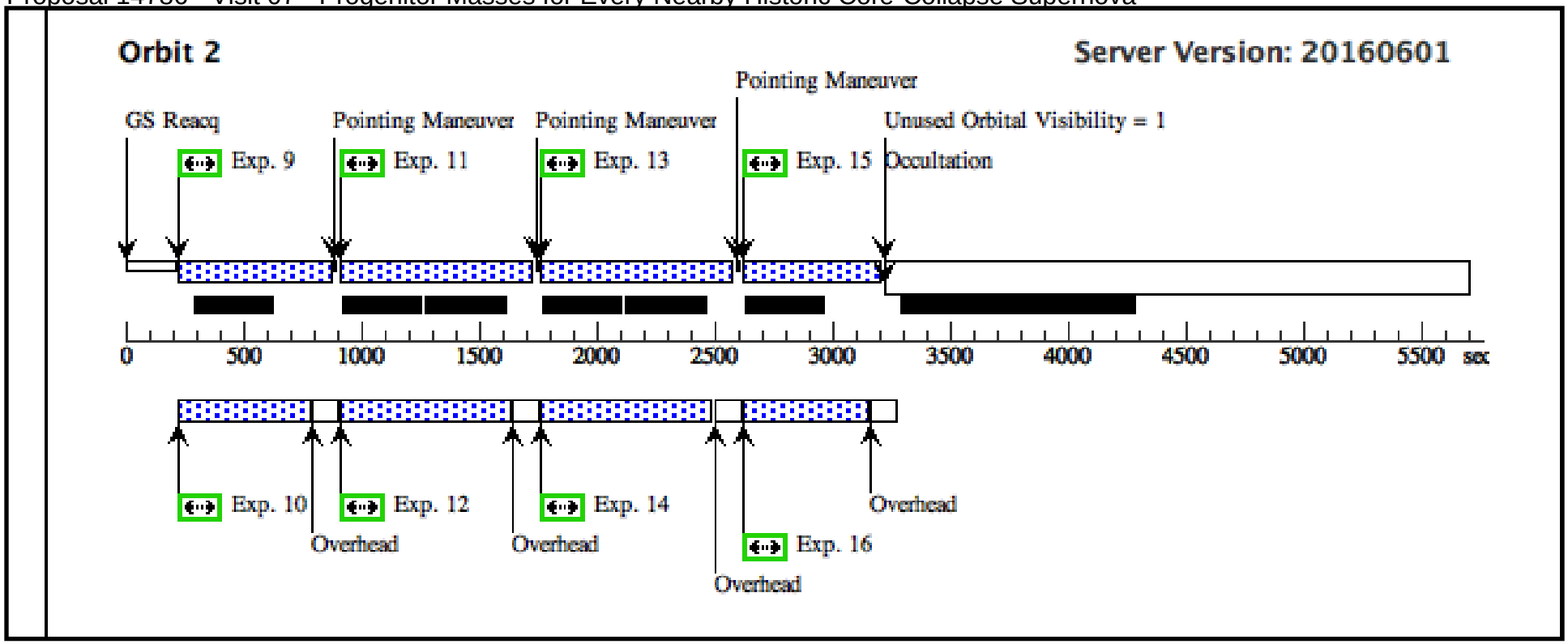
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(9)	SN2002AP	RA: 01 36 20.6776 (24.0861567d) Dec: +15 45 24.66 (15.75685d) Equinox: J2000		V=27.9	Reference Frame: ICRS
(10)	SN2003GD	RA: 01 36 32.6000 (24.1358333d) Dec: +15 44 20.00 (15.73889d) Equinox: J2000		V=27.9	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACS F606W 1	(9) SN2002AP	ACS/WFC, ACCUM, WFC	F606W		GS ACQ SCENARIO BASE1B3	Prime + Parallel Group 1-2 in Visit 07	404 Secs (404 Secs) *[==>]*	*[1]*
2	WFC3 F606W 1	(10) SN2003GD	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 1-2 in Visit 07	480 Secs (480 Secs) *[==>]*	*[1]*
3	ACS F606W 2	(9) SN2002AP	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.125,null	Prime + Parallel Group 3-4 in Visit 07	690 Secs (690 Secs) *[==>]*	*[1]*
4	WFC3 F606W 2	(10) SN2003GD	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 3-4 in Visit 07	720 Secs (720 Secs) *[==>]*	*[1]*
5	ACS F606W 3	(9) SN2002AP	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.125,-0.125	Prime + Parallel Group 5-6 in Visit 07	690 Secs (690 Secs) *[==>]*	*[1]*
6	WFC3 F606W 3	(10) SN2003GD	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 5-6 in Visit 07	720 Secs (720 Secs) *[==>]*	*[1]*
7	ACS F606W 4	(9) SN2002AP	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.0 ,-0.125	Prime + Parallel Group 7-8 in Visit 07	410 Secs (410 Secs) *[==>]*	*[1]*
8	WFC3 F606W 4	(10) SN2003GD	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 7-8 in Visit 07	480 Secs (480 Secs) *[==>]*	*[1]*
9	ACS F435W 1	(9) SN2002AP	ACS/WFC, ACCUM, WFC	F435W			Prime + Parallel Group 9-10 in Visit 07	460 Secs (460 Secs) *[==>]*	*[2]*
10	WFC3 F438W 1	(10) SN2003GD	WFC3/UVIS, ACCUM, UVIS	F438W	FLASH=7		Prime + Parallel Group 9-10 in Visit 07	535 Secs (535 Secs) *[==>]*	*[2]*
11	ACS F435W 2	(9) SN2002AP	ACS/WFC, ACCUM, WFC	F435W		POS TARG 0.125,null	Prime + Parallel Group 11-12 in Visit 07	690 Secs (690 Secs) *[==>]*	*[2]*
12	WFC3 F438W 2	(10) SN2003GD	WFC3/UVIS, ACCUM, UVIS	F438W	FLASH=6		Prime + Parallel Group 11-12 in Visit 07	720 Secs (720 Secs) *[==>]*	*[2]*
13	ACS F435W 3	(9) SN2002AP	ACS/WFC, ACCUM, WFC	F435W		POS TARG 0.125,-0.125	Prime + Parallel Group 13-14 in Visit 07	690 Secs (690 Secs) *[==>]*	*[2]*
14	WFC3 F438W 3	(10) SN2003GD	WFC3/UVIS, ACCUM, UVIS	F438W	FLASH=6		Prime + Parallel Group 13-14 in Visit 07	720 Secs (720 Secs) *[==>]*	*[2]*
15	ACS F435W 4	(9) SN2002AP	ACS/WFC, ACCUM, WFC	F435W		POS TARG 0.0 ,-0.125	Prime + Parallel Group 15-16 in Visit 07	460 Secs (460 Secs) *[==>]*	*[2]*
16	WFC3 F438W 4	(10) SN2003GD	WFC3/UVIS, ACCUM, UVIS	F438W	FLASH=7		Prime + Parallel Group 15-16 in Visit 07	535 Secs (535 Secs) *[==>]*	*[2]*

Orbit Structure




Orbit 2
Server Version: 20160601
GS Reacq
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Unused Orbital Visibility = 1
Exp. 9
Exp. 11
Exp. 13
Exp. 15
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec
Exp. 10
Exp. 12
Exp. 14
Overhead
Overhead
Overhead
Exp. 16
Overhead

Visit

Proposal 14786, Visit 08, implementation Thu Sep 08 16:08:26 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: ORIENT 300D TO 70 D

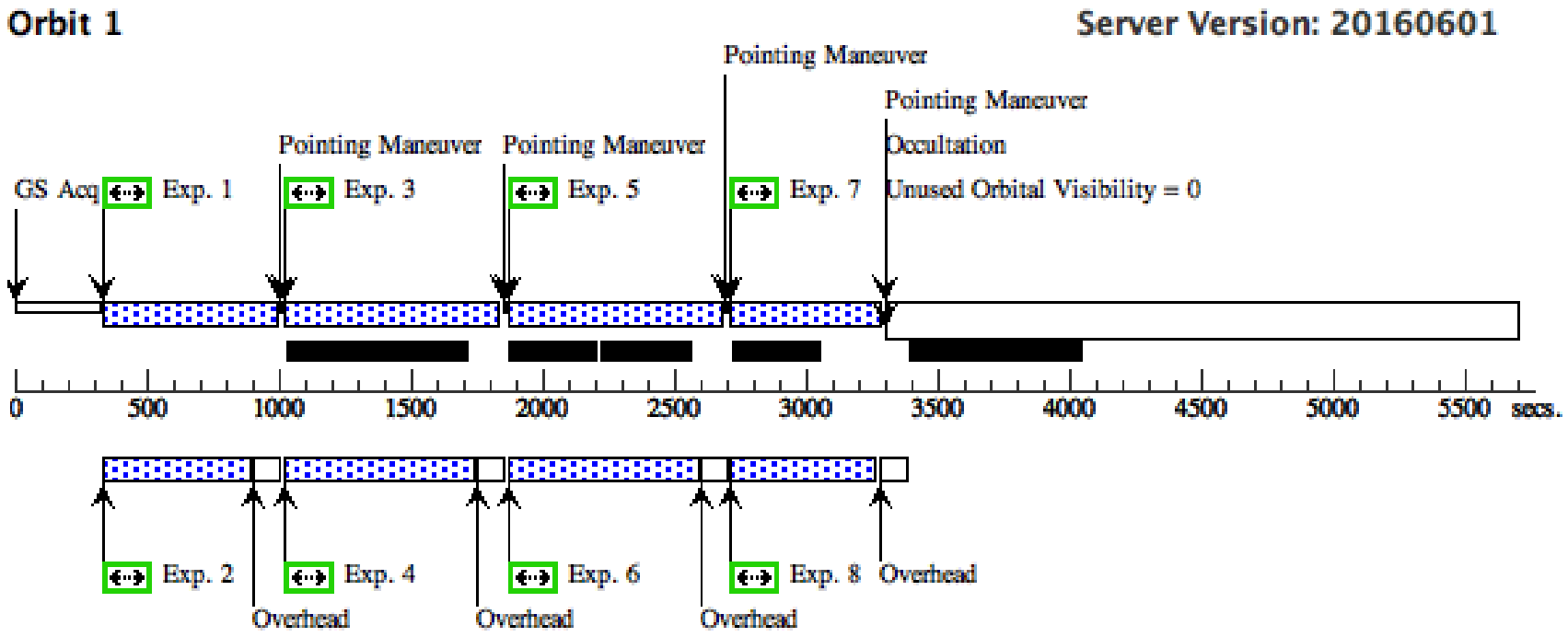
Fixed Targets

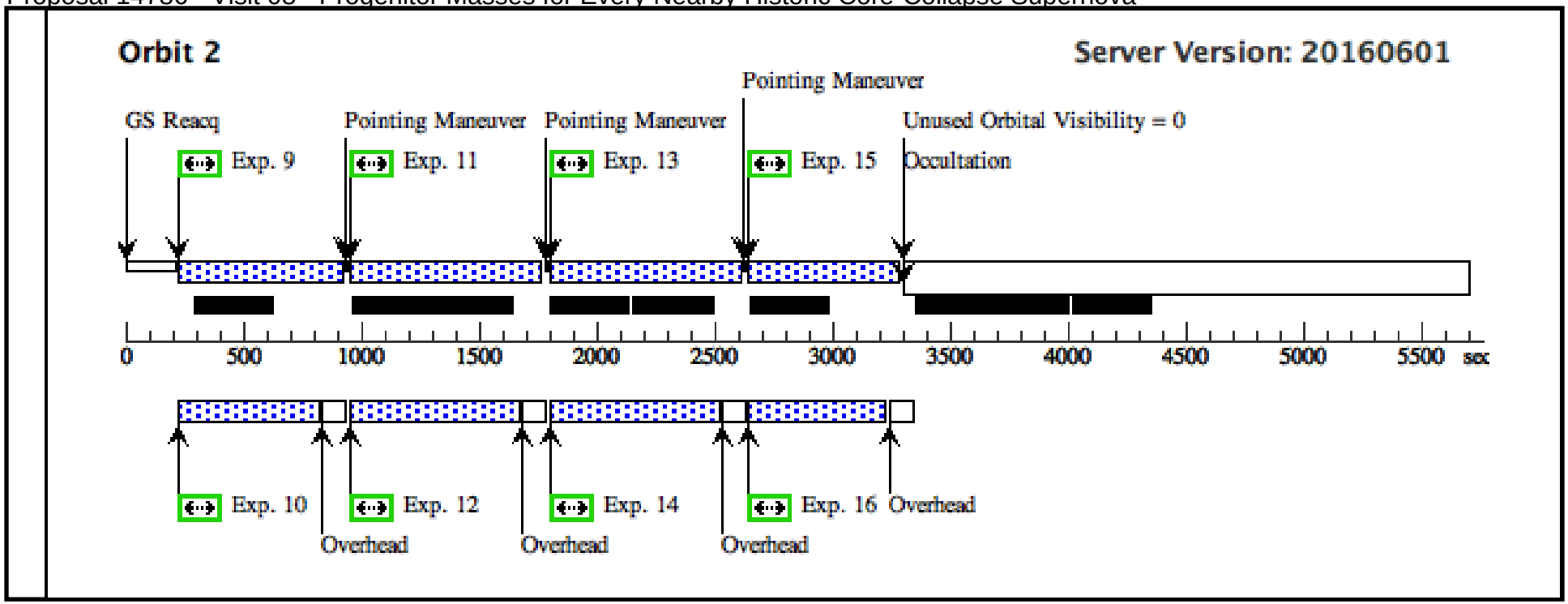
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(11)	SN1985F	RA: 12 41 32.6749 (190.3861454d) Dec: +41 08 48.22 (41.14673d) Equinox: J2000		V=27.9	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACS F606W 1	(11) SN1985F	ACS/WFC, ACCUM, WFC	F606W		GS ACQ SCENARIO BASE1B3	Prime + Parallel Group 1-2 in Visit 08	450 Secs (450 Secs) *[==>]*	 ***[1]***
2	WFC3 F606W 1	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 1-2 in Visit 08	530 Secs (530 Secs) *[==>]*	 ***[1]***
3	ACS F606W 2	(11) SN1985F	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.125,null	Prime + Parallel Group 3-4 in Visit 08	690 Secs (690 Secs) *[==>]*	 ***[1]***
4	WFC3 F606W 2	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 3-4 in Visit 08	720 Secs (720 Secs) *[==>]*	 ***[1]***
5	ACS F606W 3	(11) SN1985F	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.125,-0.125	Prime + Parallel Group 5-6 in Visit 08	690 Secs (690 Secs) *[==>]*	 ***[1]***
6	WFC3 F606W 3	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 5-6 in Visit 08	720 Secs (720 Secs) *[==>]*	 ***[1]***
7	ACS F606W 4	(11) SN1985F	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.0 ,-0.125	Prime + Parallel Group 7-8 in Visit 08	450 Secs (450 Secs) *[==>]*	 ***[1]***
8	WFC3 F606W 4	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 7-8 in Visit 08	550 Secs (550 Secs) *[==>]*	 ***[1]***
9	ACS F435W 1	(11) SN1985F	ACS/WFC, ACCUM, WFC	F435W			Prime + Parallel Group 9-10 in Visit 08	510 Secs (510 Secs) *[==>]*	 ***[2]***
10	WFC3 F814W 1	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 9-10 in Visit 08	580 Secs (580 Secs) *[==>]*	 ***[2]***
11	ACS F435W 2	(11) SN1985F	ACS/WFC, ACCUM, WFC	F435W		POS TARG 0.125,null	Prime + Parallel Group 11-12 in Visit 08	690 Secs (690 Secs) *[==>]*	 ***[2]***
12	WFC3 F814W 2	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 11-12 in Visit 08	720 Secs (720 Secs) *[==>]*	 ***[2]***
13	ACS F435W 3	(11) SN1985F	ACS/WFC, ACCUM, WFC	F435W		POS TARG 0.125,-0.125	Prime + Parallel Group 13-14 in Visit 08	690 Secs (690 Secs) *[==>]*	 ***[2]***
14	WFC3 F814W 3	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 13-14 in Visit 08	720 Secs (720 Secs) *[==>]*	 ***[2]***
15	ACS F435W 4	(11) SN1985F	ACS/WFC, ACCUM, WFC	F435W		POS TARG 0.0 ,-0.125	Prime + Parallel Group 15-16 in Visit 08	520 Secs (520 Secs) *[==>]*	 ***[2]***
16	WFC3 F814W 4	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 15-16 in Visit 08	580 Secs (580 Secs) *[==>]*	 ***[2]***

Orbit Structure




Orbit 2
Server Version: 20160601
Pointing Maneuver
GS Reacq
Pointing Maneuver
Pointing Maneuver
Unused Orbital Visibility = 0
Exp. 9
Exp. 11
Exp. 13
Exp. 15
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec
Exp. 10
Exp. 12
Exp. 14
Exp. 16
Overhead
Overhead
Overhead
Overhead

Visit

Proposal 14786, Visit 09, implementation Thu Sep 08 16:08:26 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: ORIENT 300D TO 60 D

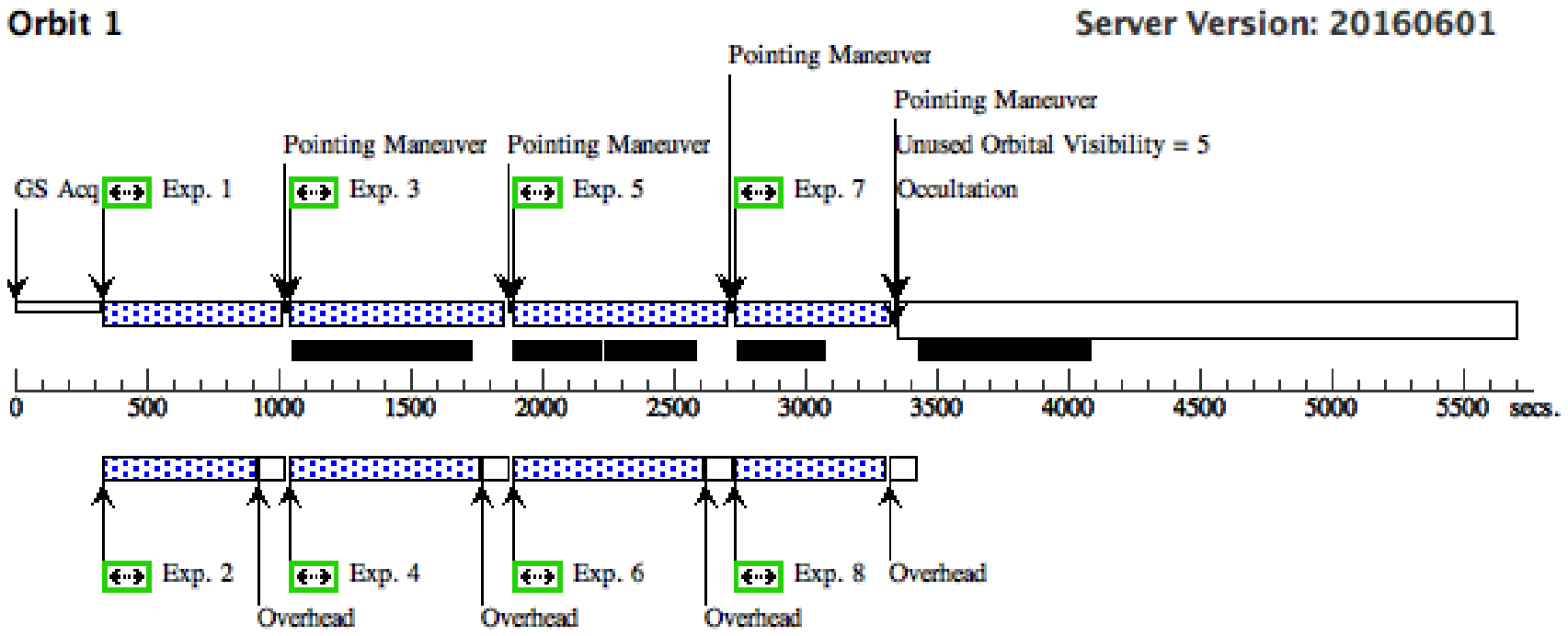
Fixed Targets

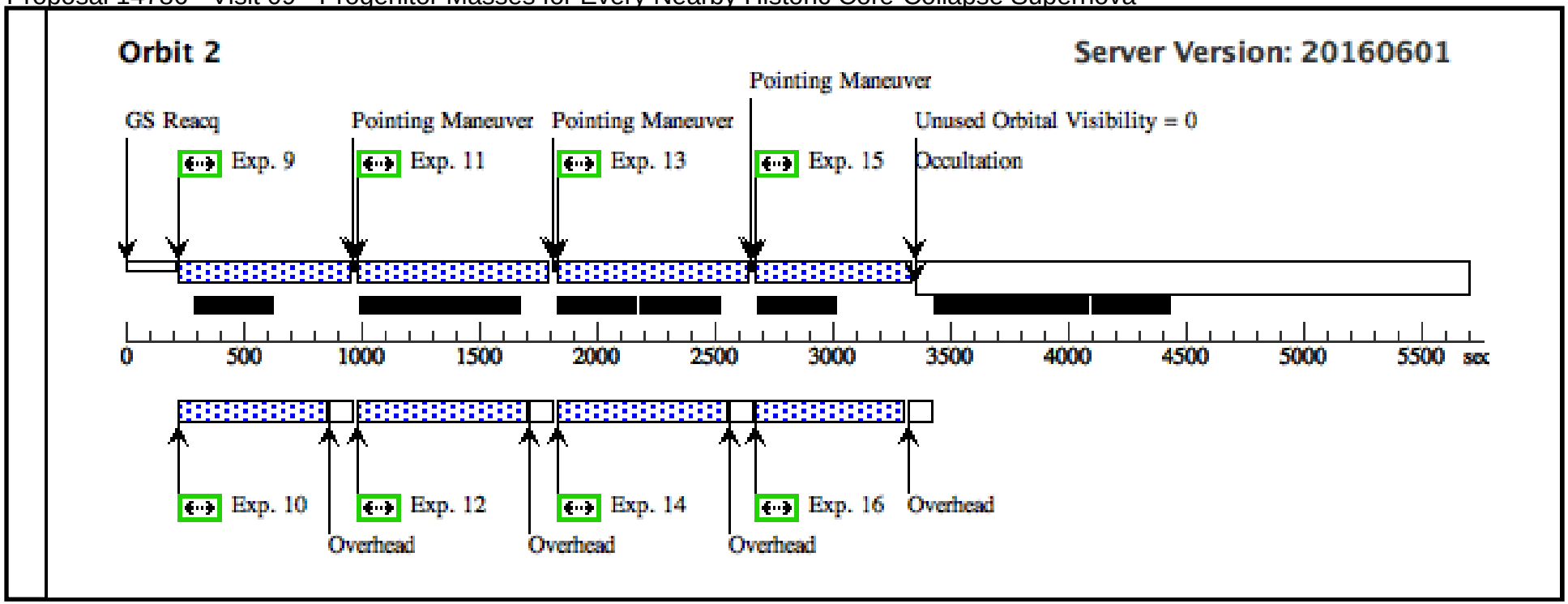
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(12)	SN2002BU	RA: 12 17 36.9796 (184.4040817d) Dec: +45 38 34.97 (45.64305d) Equinox: J2000		V=27.9	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACS F606W 1	(12) SN2002BU	ACS/WFC, ACCUM, WFC	F606W		GS ACQ SCENARIO BASE1B3	Prime + Parallel Group 1-2 in Visit 09	470 Secs (470 Secs) *[==>]*	 ***[1]***
2	WFC3 F606W 1	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 1-2 in Visit 09	550 Secs (550 Secs) *[==>]*	 ***[1]***
3	ACS F606W 2	(12) SN2002BU	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.125,null	Prime + Parallel Group 3-4 in Visit 09	690 Secs (690 Secs) *[==>]*	 ***[1]***
4	WFC3 F606W 2	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 3-4 in Visit 09	720 Secs (720 Secs) *[==>]*	 ***[1]***
5	ACS F606W 3	(12) SN2002BU	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.125,-0.125	Prime + Parallel Group 5-6 in Visit 09	690 Secs (690 Secs) *[==>]*	 ***[1]***
6	WFC3 F606W 3	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 5-6 in Visit 09	720 Secs (720 Secs) *[==>]*	 ***[1]***
7	ACS F606W 4	(12) SN2002BU	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0.0 ,-0.125	Prime + Parallel Group 7-8 in Visit 09	470 Secs (470 Secs) *[==>]*	 ***[1]***
8	WFC3 F606W 4	ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 7-8 in Visit 09	570 Secs (570 Secs) *[==>]*	 ***[1]***
9	ACS F435W 1	(12) SN2002BU	ACS/WFC, ACCUM, WFC	F435W			Prime + Parallel Group 9-10 in Visit 09	540 Secs (540 Secs) *[==>]*	 ***[2]***
10	WFC3 F814W 1	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 9-10 in Visit 09	610 Secs (610 Secs) *[==>]*	 ***[2]***
11	ACS F435W 2	(12) SN2002BU	ACS/WFC, ACCUM, WFC	F435W		POS TARG 0.125,null	Prime + Parallel Group 11-12 in Visit 09	690 Secs (690 Secs) *[==>]*	 ***[2]***
12	WFC3 F814W 2	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 11-12 in Visit 09	720 Secs (720 Secs) *[==>]*	 ***[2]***
13	ACS F435W 3	(12) SN2002BU	ACS/WFC, ACCUM, WFC	F435W		POS TARG 0.125,-0.125	Prime + Parallel Group 13-14 in Visit 09	690 Secs (690 Secs) *[==>]*	 ***[2]***
14	WFC3 F814W 3	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 13-14 in Visit 09	720 Secs (720 Secs) *[==>]*	 ***[2]***
15	ACS F435W 4	(12) SN2002BU	ACS/WFC, ACCUM, WFC	F435W		POS TARG 0.0 ,-0.125	Prime + Parallel Group 15-16 in Visit 09	535 Secs (535 Secs) *[==>]*	 ***[2]***
16	WFC3 F814W 4	ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 15-16 in Visit 09	630 Secs (630 Secs) *[==>]*	 ***[2]***

Orbit Structure




Orbit 2
Server Version: 20160601
Pointing Maneuver
GS Reacq
Pointing Maneuver
Pointing Maneuver
Unused Orbital Visibility = 0
Exp. 9
Exp. 11
Exp. 13
Exp. 15
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec
Exp. 10
Exp. 12
Exp. 14
Exp. 16
Overhead
Overhead
Overhead
Overhead