



15889 - Supernovae in the Infrared avec Hubble

Cycle: 27, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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Proposal 15889 (STScI Edit Number: 15, Created: Tuesday, September 22, 2020 at 9:02:25 AM Eastern Standard Time) - Overview

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(35) SN2001EL-FIELD	WFC3/IR	1	22-Sep-2020 10:00:53.0	yes
02	(36) SN2002FK-FIELD	WFC3/IR	1	22-Sep-2020 10:00:55.0	yes
03	(37) SN2003DU-FIELD	WFC3/IR	1	22-Sep-2020 10:00:57.0	yes
04	(38) SN2005CF-FIELD	WFC3/IR	1	22-Sep-2020 10:00:59.0	yes
05	(39) SN2005DF-FIELD	WFC3/IR	1	22-Sep-2020 10:01:01.0	yes
06	(40) SN2007AF-FIELD	WFC3/IR	1	22-Sep-2020 10:01:02.0	yes
07	(41) SN2007SR-FIELD	WFC3/IR	1	22-Sep-2020 10:01:04.0	yes
08	(42) SN2009IG-FIELD	WFC3/IR	1	22-Sep-2020 10:01:07.0	yes
09	(43) SN2011BY-FIELD	WFC3/IR	1	22-Sep-2020 10:01:08.0	yes
10	(44) SN2011FE-FIELD	WFC3/IR	1	22-Sep-2020 10:01:10.0	yes
11	(45) SN2012CG-FIELD	WFC3/IR	1	22-Sep-2020 10:01:12.0	yes
12	(46) SN2012FR-FIELD	WFC3/IR	1	22-Sep-2020 10:01:13.0	yes
13	(47) SN2012HT-FIELD	WFC3/IR	1	22-Sep-2020 10:01:15.0	yes

Proposal 15889 (STScI Edit Number: 15, Created: Tuesday, September 22, 2020 at 9:02:25 AM Eastern Standard Time) - Overview

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
14	(48) SN2013AA-2017CBV-SOUTH-FIELD (55) SN2013AA-2017CBV-NORTH-FIELD	WFC3/IR	1	22-Sep-2020 10:01:17.0	yes
15	(49) SN2013DY-FIELD	WFC3/IR	1	22-Sep-2020 10:01:18.0	yes
16	(50) SN2015F-FIELD	WFC3/IR	1	22-Sep-2020 10:01:20.0	yes
17	(51) SN2017ERP-FIELD	WFC3/IR	1	22-Sep-2020 10:01:22.0	yes
18	(52) SN2018GV-FIELD	WFC3/IR	1	22-Sep-2020 10:01:24.0	yes
19	(53) SN2019NP-FIELD	WFC3/IR	1	22-Sep-2020 10:01:25.0	yes
59	(53) SN2019NP-FIELD	WFC3/IR	1	22-Sep-2020 10:01:27.0	yes
20	(72) SN2020BPI	WFC3/IR	1	22-Sep-2020 10:01:29.0	yes
21	(72) SN2020BPI	WFC3/IR	1	22-Sep-2020 10:01:30.0	yes
22	(73) SN2020DHJ	WFC3/IR	1	22-Sep-2020 10:01:32.0	yes
23	(73) SN2020DHJ	WFC3/IR	1	22-Sep-2020 10:01:34.0	yes
24	(74) SN2020EES	WFC3/IR	1	22-Sep-2020 10:01:36.0	yes
25	(74) SN2020EES	WFC3/IR	1	22-Sep-2020 10:01:37.0	yes
26	(75) SN2020FXA	WFC3/IR	1	22-Sep-2020 10:01:39.0	yes
27	(75) SN2020FXA	WFC3/IR	1	22-Sep-2020 10:01:40.0	yes
28	(76) SN2020JDO	WFC3/IR	1	22-Sep-2020 10:01:42.0	yes
30	(77) SN2020JGL	WFC3/IR	1	22-Sep-2020 10:01:44.0	yes
31	(77) SN2020JGL	WFC3/IR	1	22-Sep-2020 10:01:46.0	yes
32	(78) SN2020KPX	WFC3/IR	1	22-Sep-2020 10:01:47.0	yes
33	(78) SN2020KPX	WFC3/IR	1	22-Sep-2020 10:01:49.0	yes
34	(79) SN2020KYX	WFC3/IR	1	22-Sep-2020 10:01:50.0	yes
35	(79) SN2020KYX	WFC3/IR	1	22-Sep-2020 10:01:52.0	yes
36	(81) SN2020LIL	WFC3/IR	1	22-Sep-2020 10:01:53.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
37	(81) SN2020LIL	WFC3/IR	1	22-Sep-2020 10:01:55.0	yes
38	(82) SN2020NTA	WFC3/IR	1	22-Sep-2020 10:01:57.0	yes
39	(82) SN2020NTA	WFC3/IR	1	22-Sep-2020 10:01:58.0	yes
40	(83) SN2020OYD	WFC3/IR	1	22-Sep-2020 10:02:00.0	yes
41	(83) SN2020OYD	WFC3/IR	1	22-Sep-2020 10:02:01.0	yes
42	(84) SN2020PST	WFC3/IR	1	22-Sep-2020 10:02:03.0	yes
43	(84) SN2020PST	WFC3/IR	1	22-Sep-2020 10:02:04.0	yes
44	(85) SN2020QIC	WFC3/IR	1	22-Sep-2020 10:02:06.0	yes
45	(85) SN2020QIC	WFC3/IR	1	22-Sep-2020 10:02:08.0	yes
46	(86) SN2020RGZ	WFC3/IR	1	22-Sep-2020 10:02:10.0	yes
47	(86) SN2020RGZ	WFC3/IR	1	22-Sep-2020 10:02:11.0	yes
48	(87) SN2020RLJ	WFC3/IR	1	22-Sep-2020 10:02:13.0	yes
49	(87) SN2020RLJ	WFC3/IR	1	22-Sep-2020 10:02:14.0	yes
50	(88) SN2020SZR	WFC3/IR	1	22-Sep-2020 10:02:16.0	yes
51	(88) SN2020SZR	WFC3/IR	1	22-Sep-2020 10:02:18.0	yes
60	(89) SN2020TKP	WFC3/IR	1	22-Sep-2020 10:02:19.0	yes
29	(89) SN2020TKP	WFC3/IR	1	22-Sep-2020 10:02:21.0	yes
61	(90) SN2020TUG	WFC3/IR	1	22-Sep-2020 10:02:23.0	yes
62	(90) SN2020TUG	WFC3/IR	1	22-Sep-2020 10:02:24.0	yes

55 Total Orbits Used

ABSTRACT

Near-infrared observations of type-Ia supernovae (SN Ia) significantly improve their cosmological utility. Unlike in the optical, where they must be standardized via light-curve shape and color, SN Ia are nearly standard candles in the infrared, showing little intrinsic luminosity variation with reduced sensitivity to dust extinction. However, because of strong and variable atmospheric absorption, ground-based near-infrared data are difficult to calibrate with the precision required at the forefront of cosmological measurements today. Here we propose HST WFC3/IR photometry and

Proposal 15889 (STScI Edit Number: 15, Created: Tuesday, September 22, 2020 at 9:02:25 AM Eastern Standard Time) - Overview spectrophotometry of a sample of 24 Hubble-flow ($0.02 < z < 0.07$) SN Ia, efficiently obtained with non-disruptive target of opportunity observations. Hubble-flow SN Ia are critical to all cosmological uses of SN Ia, both at low redshift (e.g., measuring the Hubble constant) and high redshift (constraining the dark energy equation of state). Our program will: (1) establish a legacy sample of well-calibrated SN Ia spectrophotometry covering a continuous rest-frame wavelength range from 0.8 to 1.7 microns as a foundation for WFIRST, (2) yield a 2.7% measurement of H_0 with near-infrared only observations of SN Ia, and (3) constrain dark energy in concert with data from the RAISINs surveys, producing a WFC3/IR-only Hubble diagram from $z = 0.02$ to $z = 0.6$.

OBSERVING DESCRIPTION

We will trigger on newly discovered and classified SN Ia in the Hubble flow ($0.02 \leq z \leq 0.7$), and any good SN Ia close enough for a Cepheid distance in the future. We will obtain HST WFC3/IR photometry and grism spectroscopy in two epochs for each object (one orbit each epoch). We will choose targets discovered and classified early (well before maximum light), and expect an average of 2 triggers per month, starting in February 2020 (to coordinate with allocated Gemini time). Though the nominal turnaround time for non-disruptive TOOs is 21 days, we will coordinate with STScI and the schedule-building process to aim for a shorter turnaround time (~ 15 days). We will schedule the second epoch within 5 to 20 days of the first epoch.

We will also recalibrate reference stars in 19 fields with 20 Cepheid-calibrated SN Ia to place the ground-based IR data for those objects on the WFC3/IR photometric system.

We will use 2 dither positions for all observations, comprising imaging in 5 filters: F098M, F105W, F125W, F140W, and F160W, and spectroscopy with both grisms: G102 and G141. With suitable ordering of the observations so that buffer dumps are done during the long grism observations, all of these can be full-frame 1024x1024 images and this all fits in one orbit with high SNR.

In cycle 27 our observations will use 51 orbits: 32 from the TOOs (16 objects x 2 epochs each) and 19 from the recalibration fields.

Proposal 15889 - SN2001EL-FIELD (01) - Supernovae in the Infrared avec Hubble

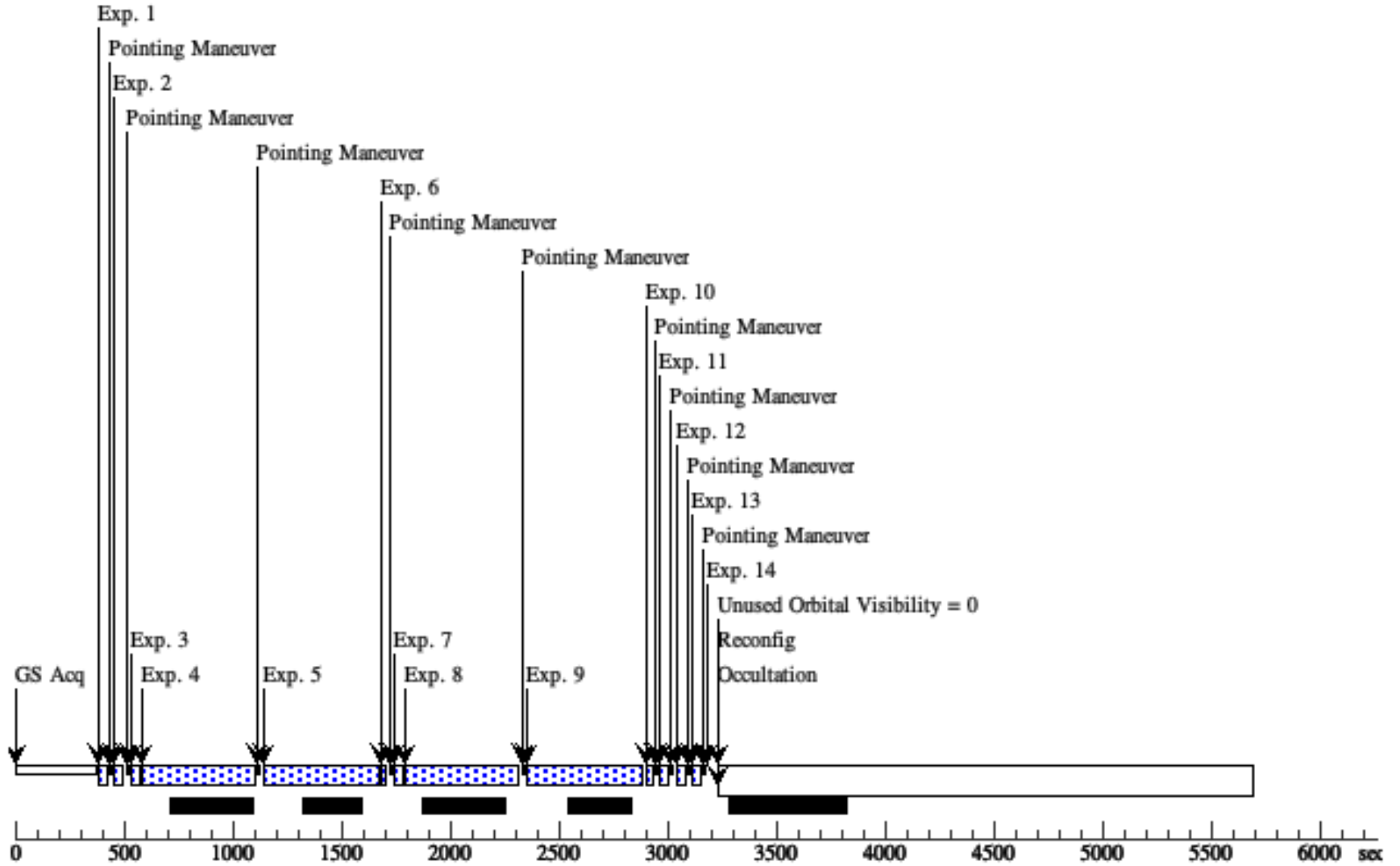
Visit	Proposal 15889, SN2001EL-FIELD (01), completed Tue Sep 22 14:02:25 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 144D TO 189 D; ORIENT 220D TO 245 D					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(35)		SN2001EL-FIELD	RA: 03 44 24.8924 (56.1037183d) Dec: -44 37 48.89 (-44.63025d) Equinox: J2000		V=15.0+/-1.0	Reference Frame: ICRS
Comments: Category=STAR Description=[UNDESIGNATED]						

Proposal 15889 - SN2001EL-FIELD (01) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(35) SN2001EL-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=4; SAMP-SEQ=RAPI D	POS TARG -5.688,- 5.088			11.729164 Secs (11.729 Secs) [==>]	[1]
	2	(35) SN2001EL-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=4; SAMP-SEQ=RAPI D	POS TARG -4.266,- 3.816			11.729164 Secs (11.729 Secs) [==>]	[1]
	3	(35) SN2001EL-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPI D	POS TARG -2.844,- 2.544			11.729164 Secs (11.729 Secs) [==>]	[1]
	4	(35) SN2001EL-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544			502.936801 Secs (502.937 Secs) [==>]	[1]
	5	(35) SN2001EL-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272			502.936801 Secs (502.937 Secs) [==>]	[1]
	6	(35) SN2001EL-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPI D	POS TARG -1.422,- 1.272			11.729164 Secs (11.729 Secs) [==>]	[1]
	7	(35) SN2001EL-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPI D	POS TARG 0.000,0. 000			8.796873 Secs (8.797 Secs) [==>]	[1]
	8	(35) SN2001EL-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=11; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000			502.936801 Secs (502.937 Secs) [==>]	[1]
	9	(35) SN2001EL-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=11; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272			502.936801 Secs (502.937 Secs) [==>]	[1]
	10	(35) SN2001EL-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPI D	POS TARG +1.422, +1.272			8.796873 Secs (8.797 Secs) [==>]	[1]
	11	(35) SN2001EL-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPI D	POS TARG +2.844, +2.544			8.796873 Secs (8.797 Secs) [==>]	[1]
	12	(35) SN2001EL-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPI D	POS TARG +4.266, +3.816			8.796873 Secs (8.797 Secs) [==>]	[1]
	13	(35) SN2001EL-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPI D	POS TARG +5.688, +5.088			8.796873 Secs (8.797 Secs) [==>]	[1]
14	(35) SN2001EL-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPI D	POS TARG +7.110, +6.360			8.796873 Secs (8.797 Secs) [==>]	[1]	

Orbit Structure

Orbit 1



Proposal 15889 - SN2002FK-FIELD (02) - Supernovae in the Infrared avec Hubble

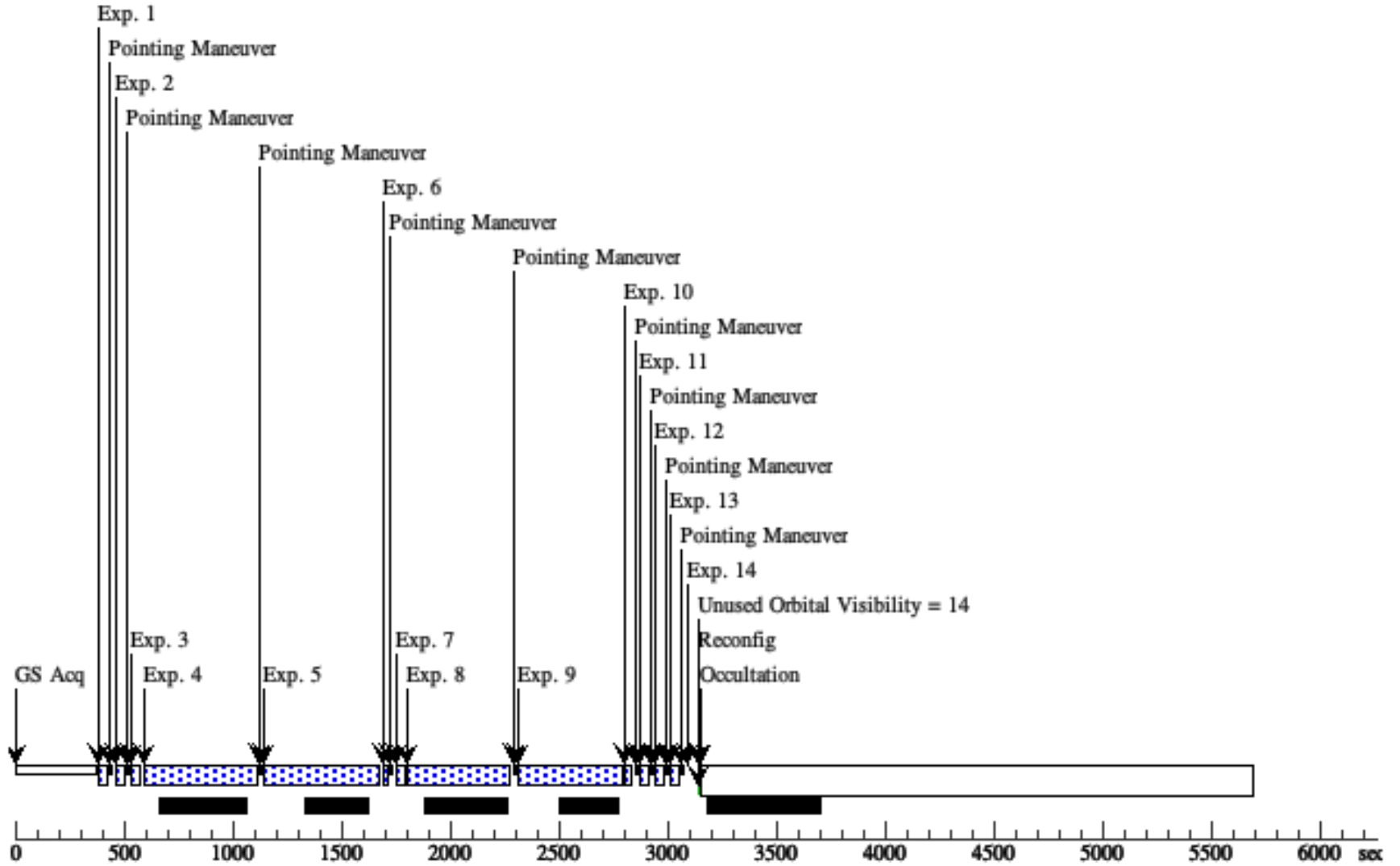
Visit	Proposal 15889, SN2002FK-FIELD (02), completed Tue Sep 22 14:02:26 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 215D TO 255 D					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(36)		SN2002FK-FIELD	RA: 03 22 6.6795 (50.5278313d) Dec: -15 21 51.28 (-15.36424d) Equinox: J2000		V=16.3+/-0.6	Reference Frame: ICRS
	Comments: Category=STAR Description=[UNDESIGNATED]					

Proposal 15889 - SN2002FK-FIELD (02) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(36) SN2002FK-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPI D	POS TARG -5.688,- 5.088	14.661455 Secs (14.661 Secs)	[==>]	[1]	
	2	(36) SN2002FK-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPI D	POS TARG -4.266,- 3.816	14.661455 Secs (14.661 Secs)	[==>]	[1]	
	3	(36) SN2002FK-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPI D	POS TARG -2.844,- 2.544	11.729164 Secs (11.729 Secs)	[==>]	[1]	
	4	(36) SN2002FK-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544	502.936801 Secs (502.937 Secs)	[==>]	[1]	
	5	(36) SN2002FK-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272	502.936801 Secs (502.937 Secs)	[==>]	[1]	
	6	(36) SN2002FK-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPI D	POS TARG -1.422,- 1.272	11.729164 Secs (11.729 Secs)	[==>]	[1]	
	7	(36) SN2002FK-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPI D	POS TARG 0.000,0. 000	8.796873 Secs (8.797 Secs)	[==>]	[1]	
	8	(36) SN2002FK-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000	452.93635 Secs (452.936 Secs)	[==>]	[1]	
	9	(36) SN2002FK-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272	452.93635 Secs (452.936 Secs)	[==>]	[1]	
	10	(36) SN2002FK-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPI D	POS TARG +1.422, +1.272	8.796873 Secs (8.797 Secs)	[==>]	[1]	
	11	(36) SN2002FK-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPI D	POS TARG +2.844, +2.544	8.796873 Secs (8.797 Secs)	[==>]	[1]	
	12	(36) SN2002FK-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPI D	POS TARG +4.266, +3.816	8.796873 Secs (8.797 Secs)	[==>]	[1]	
	13	(36) SN2002FK-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPI D	POS TARG +5.688, +5.088	8.796873 Secs (8.797 Secs)	[==>]	[1]	
14	(36) SN2002FK-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPI D	POS TARG +7.110, +6.360	8.796873 Secs (8.797 Secs)	[==>]	[1]		

Orbit Structure

Orbit 1



Proposal 15889 - SN2003DU-FIELD (03) - Supernovae in the Infrared avec Hubble

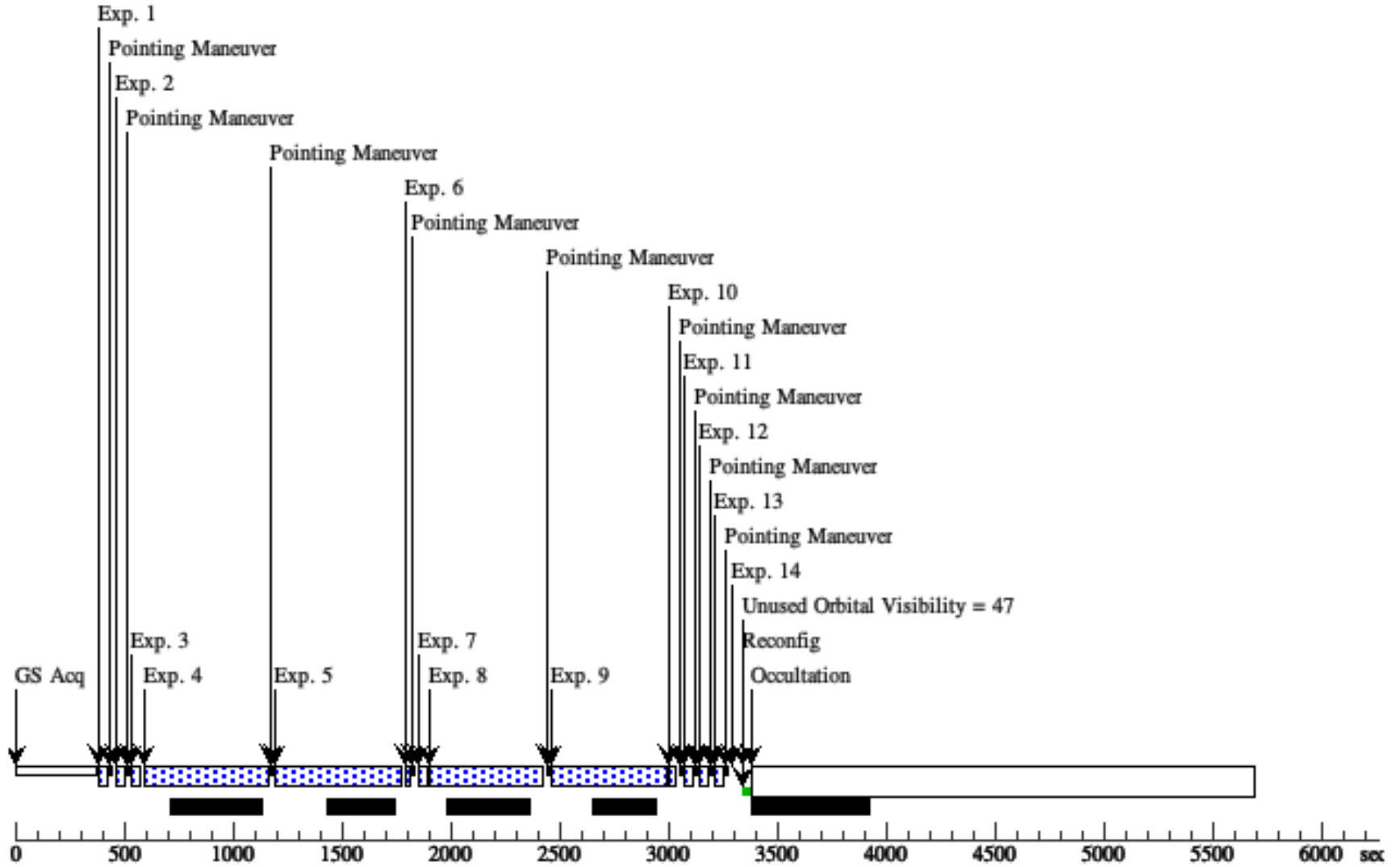
Visit	Proposal 15889, SN2003DU-FIELD (03), completed Tue Sep 22 14:02:26 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 70D TO 110 D					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(37)		SN2003DU-FIELD	RA: 14 34 28.4363 (218.6184846d) Dec: +59 19 22.80 (59.32300d) Equinox: J2000		V=15.8+/-0.1	Reference Frame: ICRS
	<i>Comments:</i> Category=STAR Description=[UNDESIGNATED]					

Proposal 15889 - SN2003DU-FIELD (03) - Supernovae in the Infrared avec Hubble

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(37) SN2003DU-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -5.688,- 5.088; GS ACQ SCENARI O BASE1B3		14.661455 Secs (14.661 Secs) [==>]	[1]
	2	(37) SN2003DU-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -4.266,- 3.816		14.661455 Secs (14.661 Secs) [==>]	[1]
	3	(37) SN2003DU-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -2.844,- 2.544		11.729164 Secs (11.729 Secs) [==>]	[1]
	4	(37) SN2003DU-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=12; SAMP-SEQ=SPARS50	POS TARG -2.844,- 2.544		552.937252 Secs (552.937 Secs) [==>]	[1]
	5	(37) SN2003DU-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=12; SAMP-SEQ=SPARS50	POS TARG -1.422,- 1.272		552.937252 Secs (552.937 Secs) [==>]	[1]
	6	(37) SN2003DU-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -1.422,- 1.272		11.729164 Secs (11.729 Secs) [==>]	[1]
	7	(37) SN2003DU-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG 0.000,0. 000		8.796873 Secs (8.797 Secs) [==>]	[1]
	8	(37) SN2003DU-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG 0.000,0. 000		502.936801 Secs (502.937 Secs) [==>]	[1]
	9	(37) SN2003DU-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG +1.422, +1.272		502.936801 Secs (502.937 Secs) [==>]	[1]
	10	(37) SN2003DU-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +1.422, +1.272		8.796873 Secs (8.797 Secs) [==>]	[1]
	11	(37) SN2003DU-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +2.844, +2.544		8.796873 Secs (8.797 Secs) [==>]	[1]
	12	(37) SN2003DU-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +4.266, +3.816		8.796873 Secs (8.797 Secs) [==>]	[1]
	13	(37) SN2003DU-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +5.688, +5.088		8.796873 Secs (8.797 Secs) [==>]	[1]
	14	(37) SN2003DU-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +7.110, +6.360		8.796873 Secs (8.797 Secs) [==>]	[1]

Orbit Structure

Orbit 1



Proposal 15889 - SN2005CF-FIELD (04) - Supernovae in the Infrared avec Hubble

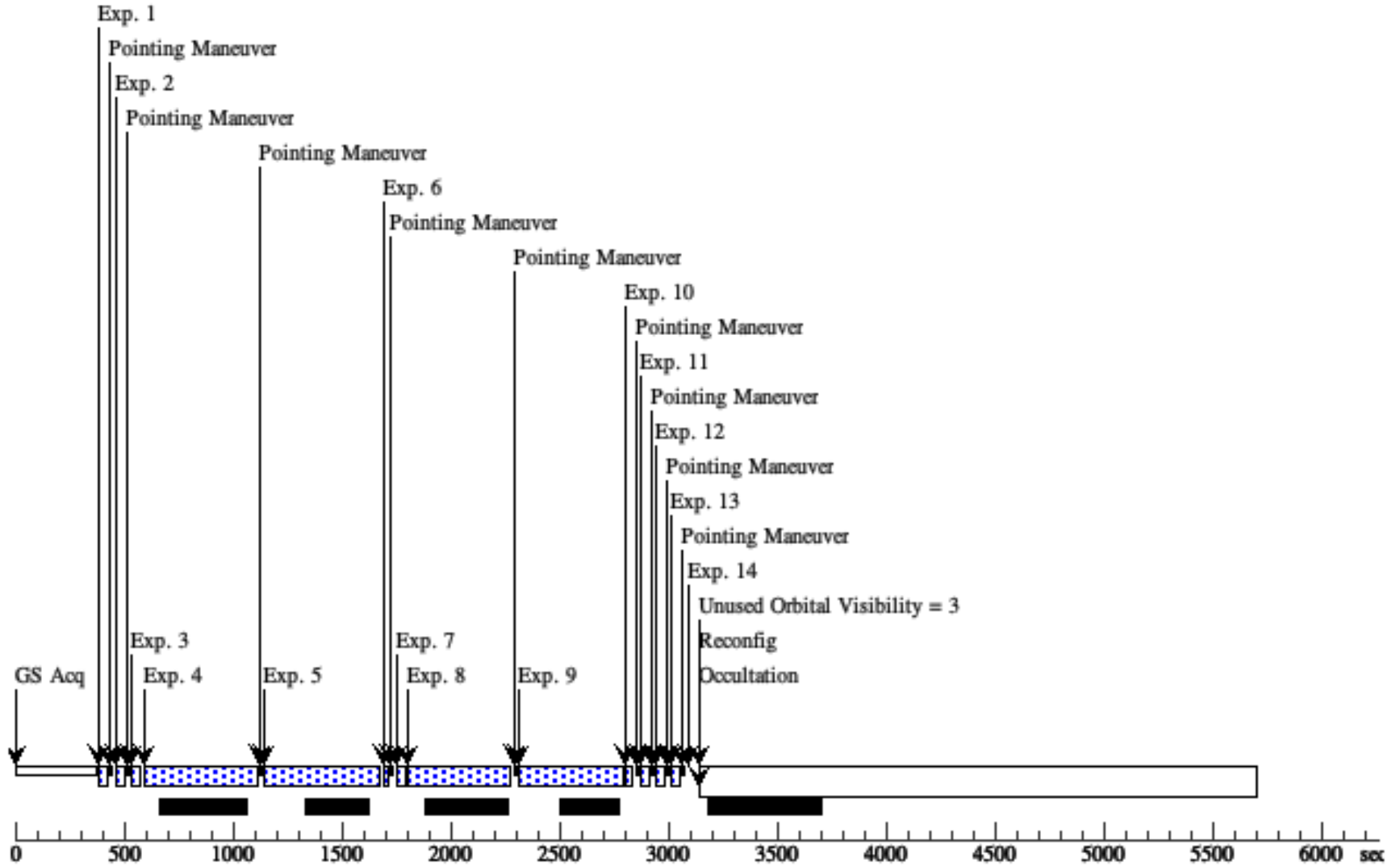
Visit	Proposal 15889, SN2005CF-FIELD (04), completed Tue Sep 22 14:02:26 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 130D TO 150 D; ORIENT 175D TO 185 D; ORIENT 220D TO 230 D					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(38)		SN2005CF-FIELD	RA: 15 21 28.2765 (230.3678187d) Dec: -07 24 40.41 (-7.41123d) Equinox: J2000		V=17.0+/-0.3	Reference Frame: ICRS
Comments: Category=STAR Description=[UNDESIGNATED]						

Proposal 15889 - SN2005CF-FIELD (04) - Supernovae in the Infrared avec Hubble

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(38) SN2005CF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -5.688,- 5.088		14.661455 Secs (14.661 Secs) [==>]	[1]
	2	(38) SN2005CF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -4.266,- 3.816		14.661455 Secs (14.661 Secs) [==>]	[1]
	3	(38) SN2005CF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -2.844,- 2.544		11.729164 Secs (11.729 Secs) [==>]	[1]
	4	(38) SN2005CF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG -2.844,- 2.544		502.936801 Secs (502.937 Secs) [==>]	[1]
	5	(38) SN2005CF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG -1.422,- 1.272		502.936801 Secs (502.937 Secs) [==>]	[1]
	6	(38) SN2005CF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -1.422,- 1.272		11.729164 Secs (11.729 Secs) [==>]	[1]
	7	(38) SN2005CF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG 0.000,0. 000		8.796873 Secs (8.797 Secs) [==>]	[1]
	8	(38) SN2005CF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPARS50	POS TARG 0.000,0. 000		452.93635 Secs (452.936 Secs) [==>]	[1]
	9	(38) SN2005CF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPARS50	POS TARG +1.422, +1.272		452.93635 Secs (452.936 Secs) [==>]	[1]
	10	(38) SN2005CF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +1.422, +1.272		8.796873 Secs (8.797 Secs) [==>]	[1]
	11	(38) SN2005CF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +2.844, +2.544		8.796873 Secs (8.797 Secs) [==>]	[1]
	12	(38) SN2005CF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +4.266, +3.816		8.796873 Secs (8.797 Secs) [==>]	[1]
	13	(38) SN2005CF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +5.688, +5.088		8.796873 Secs (8.797 Secs) [==>]	[1]
	14	(38) SN2005CF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +7.110, +6.360		8.796873 Secs (8.797 Secs) [==>]	[1]

Orbit Structure

Orbit 1

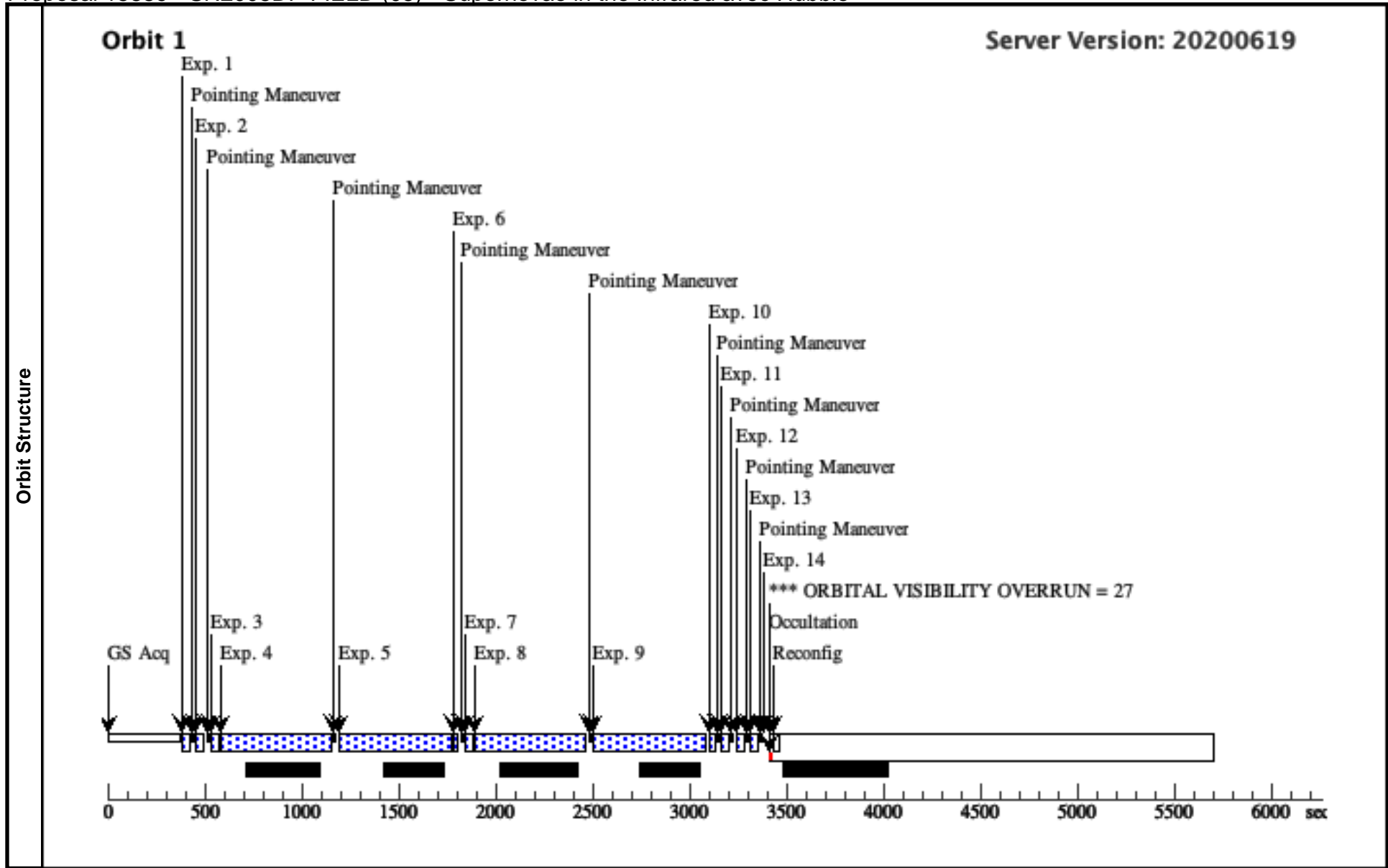


Proposal 15889 - SN2005DF-FIELD (05) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, SN2005DF-FIELD (05), completed Tue Sep 22 14:02:26 GMT 2020 Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ORIENT 325D TO 360 D; ORIENT 10D TO 25 D					
	Diagnostics	(SN2005DF-FIELD (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN				
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(39)	SN2005DF-FIELD	RA: 04 17 40.5897 (64.4191237d) Dec: -62 48 5.85 (-62.80163d) Equinox: J2000		V=15.5+/-0.1	Reference Frame: ICRS
Comments: Category=STAR Description=[UNDESIGNATED]						

Proposal 15889 - SN2005DF-FIELD (05) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(39) SN2005DF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=4; SAMP-SEQ=RAPI D	POS TARG -5.688,- 5.088			11.729164 Secs (11.729 Secs) [==>]	[1]
	2	(39) SN2005DF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=4; SAMP-SEQ=RAPI D	POS TARG -4.266,- 3.816			11.729164 Secs (11.729 Secs) [==>]	[1]
	3	(39) SN2005DF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPI D	POS TARG -2.844,- 2.544			11.729164 Secs (11.729 Secs) [==>]	[1]
	4	(39) SN2005DF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=12; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544			552.937252 Secs (552.937 Secs) [==>]	[1]
	5	(39) SN2005DF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=12; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272			552.937252 Secs (552.937 Secs) [==>]	[1]
	6	(39) SN2005DF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPI D	POS TARG -1.422,- 1.272			11.729164 Secs (11.729 Secs) [==>]	[1]
	7	(39) SN2005DF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPI D	POS TARG 0.000,0. 000			8.796873 Secs (8.797 Secs) [==>]	[1]
	8	(39) SN2005DF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000			552.937252 Secs (552.937 Secs) [==>]	[1]
	9	(39) SN2005DF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272			552.937252 Secs (552.937 Secs) [==>]	[1]
	10	(39) SN2005DF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPI D	POS TARG +1.422, +1.272			8.796873 Secs (8.797 Secs) [==>]	[1]
	11	(39) SN2005DF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPI D	POS TARG +2.844, +2.544			8.796873 Secs (8.797 Secs) [==>]	[1]
	12	(39) SN2005DF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPI D	POS TARG +4.266, +3.816			8.796873 Secs (8.797 Secs) [==>]	[1]
	13	(39) SN2005DF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPI D	POS TARG +5.688, +5.088			8.796873 Secs (8.797 Secs) [==>]	[1]
14	(39) SN2005DF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPI D	POS TARG +7.110, +6.360			8.796873 Secs (8.797 Secs) [==>]	[1]	



Proposal 15889 - SN2007AF-FIELD (06) - Supernovae in the Infrared avec Hubble

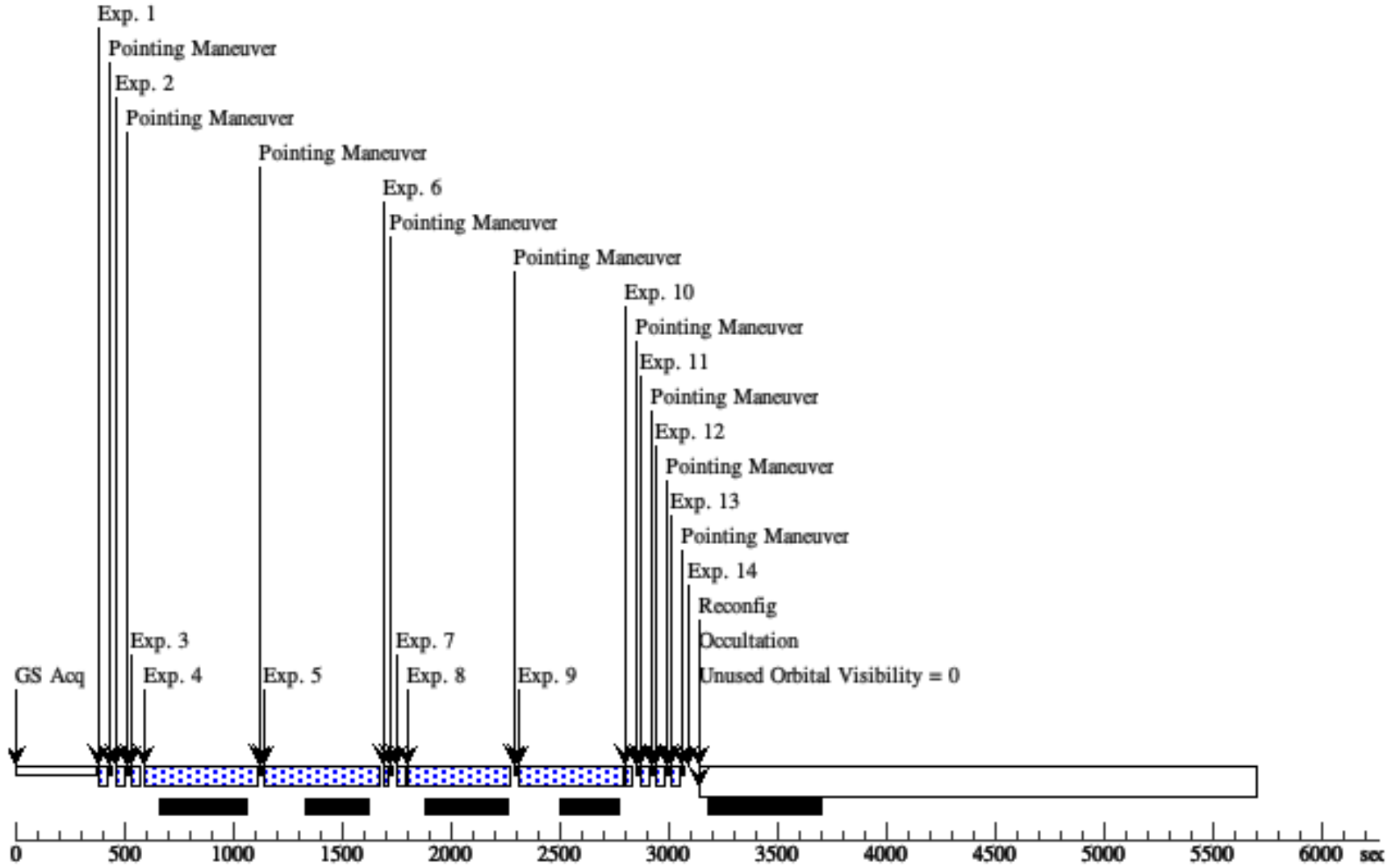
Visit	Proposal 15889, SN2007AF-FIELD (06), completed Tue Sep 22 14:02:26 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 137D TO 192 D					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(40)		SN2007AF-FIELD	RA: 14 22 18.7694 (215.5782058d) Dec: -00 22 40.34 (-.37787d) Equinox: J2000		V=16.0+/-1.0	Reference Frame: ICRS
Comments: Category=STAR Description=[UNDESIGNATED]						

Proposal 15889 - SN2007AF-FIELD (06) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(40) SN2007AF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPI D	POS TARG -5.688,- 5.088; GS ACQ SCENARI O BASE1B3	14.661455 Secs (14.661 Secs)	[==>]	[1]	
	2	(40) SN2007AF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPI D	POS TARG -4.266,- 3.816	14.661455 Secs (14.661 Secs)	[==>]	[1]	
	3	(40) SN2007AF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPI D	POS TARG -2.844,- 2.544	11.729164 Secs (11.729 Secs)	[==>]	[1]	
	4	(40) SN2007AF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544	502.936801 Secs (502.937 Secs)	[==>]	[1]	
	5	(40) SN2007AF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272	502.936801 Secs (502.937 Secs)	[==>]	[1]	
	6	(40) SN2007AF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPI D	POS TARG -1.422,- 1.272	11.729164 Secs (11.729 Secs)	[==>]	[1]	
	7	(40) SN2007AF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPI D	POS TARG 0.000,0. 000	8.796873 Secs (8.797 Secs)	[==>]	[1]	
	8	(40) SN2007AF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000	452.93635 Secs (452.936 Secs)	[==>]	[1]	
	9	(40) SN2007AF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272	452.93635 Secs (452.936 Secs)	[==>]	[1]	
	10	(40) SN2007AF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPI D	POS TARG +1.422, +1.272	8.796873 Secs (8.797 Secs)	[==>]	[1]	
	11	(40) SN2007AF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPI D	POS TARG +2.844, +2.544	8.796873 Secs (8.797 Secs)	[==>]	[1]	
	12	(40) SN2007AF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPI D	POS TARG +4.266, +3.816	8.796873 Secs (8.797 Secs)	[==>]	[1]	
	13	(40) SN2007AF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPI D	POS TARG +5.688, +5.088	8.796873 Secs (8.797 Secs)	[==>]	[1]	
14	(40) SN2007AF-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPI D	POS TARG +7.110, +6.360	8.796873 Secs (8.797 Secs)	[==>]	[1]		

Orbit Structure

Orbit 1



Proposal 15889 - SN2007SR-FIELD (07) - Supernovae in the Infrared avec Hubble

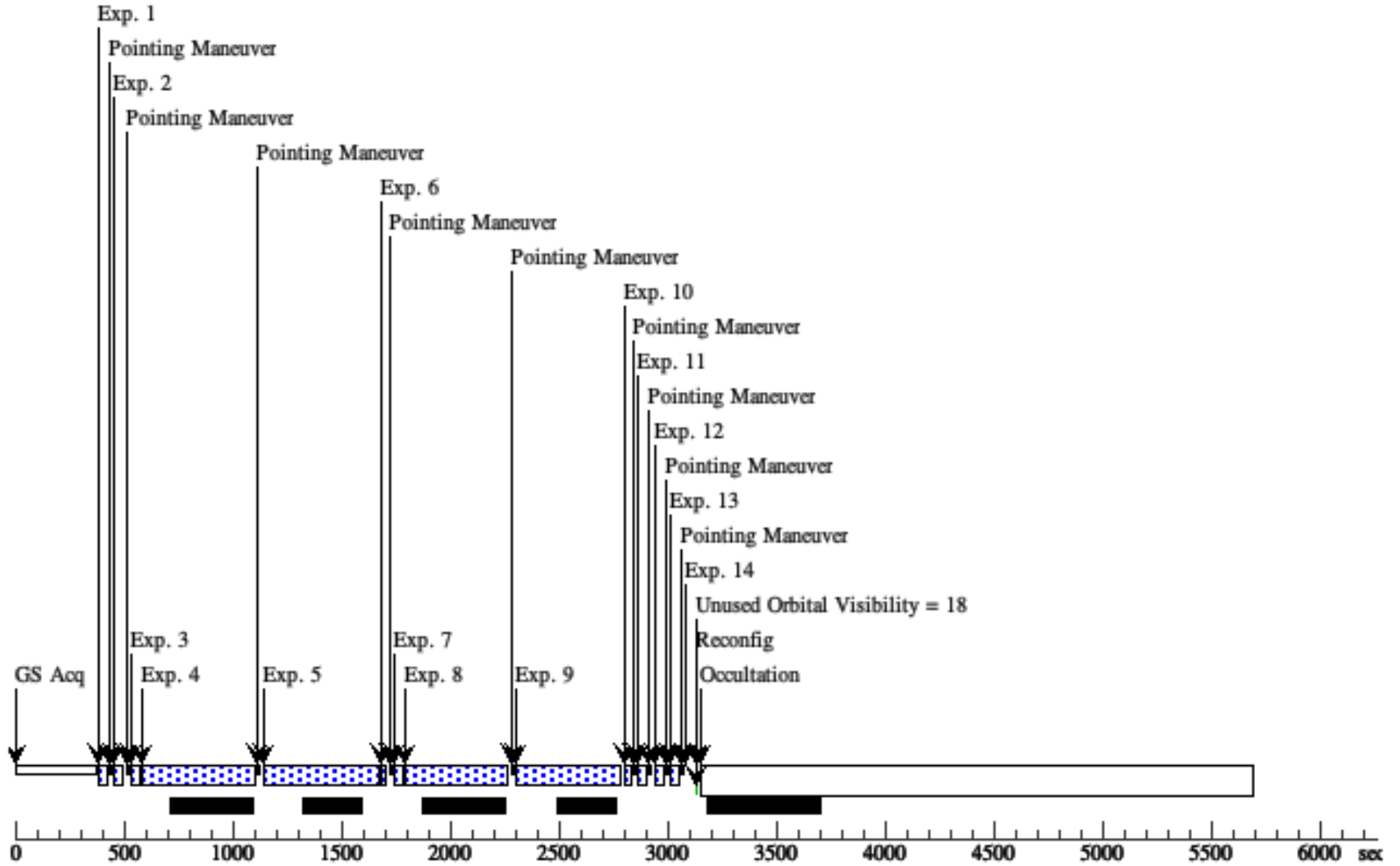
Visit	Proposal 15889, SN2007SR-FIELD (07), completed Tue Sep 22 14:02:26 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 82D TO 152 D					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(41)		SN2007SR-FIELD	RA: 12 01 52.1131 (180.4671379d) Dec: -18 57 48.99 (-18.96361d) Equinox: J2000		V=15.0+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category=STAR Description=[UNDESIGNATED]						

Proposal 15889 - SN2007SR-FIELD (07) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(41) SN2007SR-FIE LD	(41) SN2007SR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -5.688,-5.088		11.729164 Secs (11.729 Secs) [==>]	[1]
	2	(41) SN2007SR-FIE LD	(41) SN2007SR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -4.266,-3.816		11.729164 Secs (11.729 Secs) [==>]	[1]
	3	(41) SN2007SR-FIE LD	(41) SN2007SR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -2.844,-2.544		11.729164 Secs (11.729 Secs) [==>]	[1]
	4	(41) SN2007SR-FIE LD	(41) SN2007SR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG -2.844,-2.544		502.936801 Secs (502.937 Secs) [==>]	[1]
	5	(41) SN2007SR-FIE LD	(41) SN2007SR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG -1.422,-1.272		502.936801 Secs (502.937 Secs) [==>]	[1]
	6	(41) SN2007SR-FIE LD	(41) SN2007SR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -1.422,-1.272		11.729164 Secs (11.729 Secs) [==>]	[1]
	7	(41) SN2007SR-FIE LD	(41) SN2007SR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG 0.000,0.000		8.796873 Secs (8.797 Secs) [==>]	[1]
	8	(41) SN2007SR-FIE LD	(41) SN2007SR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPARS50	POS TARG 0.000,0.000		452.93635 Secs (452.936 Secs) [==>]	[1]
	9	(41) SN2007SR-FIE LD	(41) SN2007SR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPARS50	POS TARG +1.422,+1.272		452.93635 Secs (452.936 Secs) [==>]	[1]
	10	(41) SN2007SR-FIE LD	(41) SN2007SR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +1.422,+1.272		8.796873 Secs (8.797 Secs) [==>]	[1]
	11	(41) SN2007SR-FIE LD	(41) SN2007SR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +2.844,+2.544		8.796873 Secs (8.797 Secs) [==>]	[1]
	12	(41) SN2007SR-FIE LD	(41) SN2007SR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +4.266,+3.816		8.796873 Secs (8.797 Secs) [==>]	[1]
	13	(41) SN2007SR-FIE LD	(41) SN2007SR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +5.688,+5.088		8.796873 Secs (8.797 Secs) [==>]	[1]
14	(41) SN2007SR-FIE LD	(41) SN2007SR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +7.110,+6.360		8.796873 Secs (8.797 Secs) [==>]	[1]	

Orbit Structure

Orbit 1



Proposal 15889 - SN2009IG-FIELD (08) - Supernovae in the Infrared avec Hubble

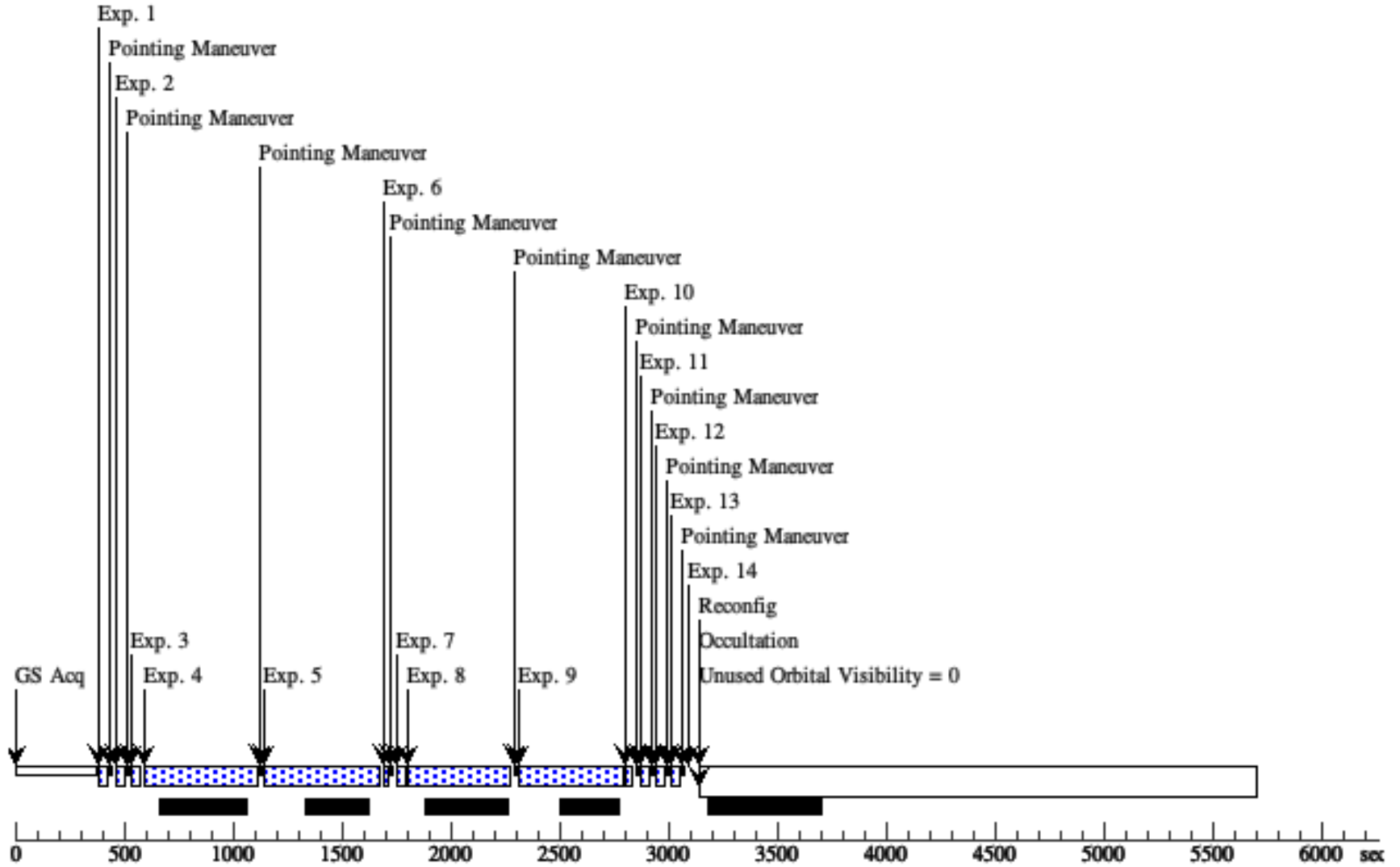
Visit	Proposal 15889, SN2009IG-FIELD (08), completed Tue Sep 22 14:02:26 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 270D TO 335 D					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(42)		SN2009IG-FIELD	RA: 02 38 19.9862 (39.5832758d) Dec: -01 18 40.74 (-1.31132d) Equinox: J2000		V=15.0+/-1.0	Reference Frame: ICRS
Comments: Category=STAR Description=[UNDESIGNATED]						

Proposal 15889 - SN2009IG-FIELD (08) - Supernovae in the Infrared avec Hubble

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(42) SN2009IG-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -5.688,-5.088		14.661455 Secs (14.661 Secs) [==>]	[1]
	2	(42) SN2009IG-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -4.266,-3.816		14.661455 Secs (14.661 Secs) [==>]	[1]
	3	(42) SN2009IG-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -2.844,-2.544		11.729164 Secs (11.729 Secs) [==>]	[1]
	4	(42) SN2009IG-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG -2.844,-2.544		502.936801 Secs (502.937 Secs) [==>]	[1]
	5	(42) SN2009IG-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG -1.422,-1.272		502.936801 Secs (502.937 Secs) [==>]	[1]
	6	(42) SN2009IG-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -1.422,-1.272		11.729164 Secs (11.729 Secs) [==>]	[1]
	7	(42) SN2009IG-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG 0.000,0.000		8.796873 Secs (8.797 Secs) [==>]	[1]
	8	(42) SN2009IG-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPARS50	POS TARG 0.000,0.000		452.93635 Secs (452.936 Secs) [==>]	[1]
	9	(42) SN2009IG-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPARS50	POS TARG +1.422,+1.272		452.93635 Secs (452.936 Secs) [==>]	[1]
	10	(42) SN2009IG-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +1.422,+1.272		8.796873 Secs (8.797 Secs) [==>]	[1]
	11	(42) SN2009IG-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +2.844,+2.544		8.796873 Secs (8.797 Secs) [==>]	[1]
	12	(42) SN2009IG-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +4.266,+3.816		8.796873 Secs (8.797 Secs) [==>]	[1]
	13	(42) SN2009IG-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +5.688,+5.088		8.796873 Secs (8.797 Secs) [==>]	[1]
	14	(42) SN2009IG-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +7.110,+6.360		8.796873 Secs (8.797 Secs) [==>]	[1]

Orbit Structure

Orbit 1

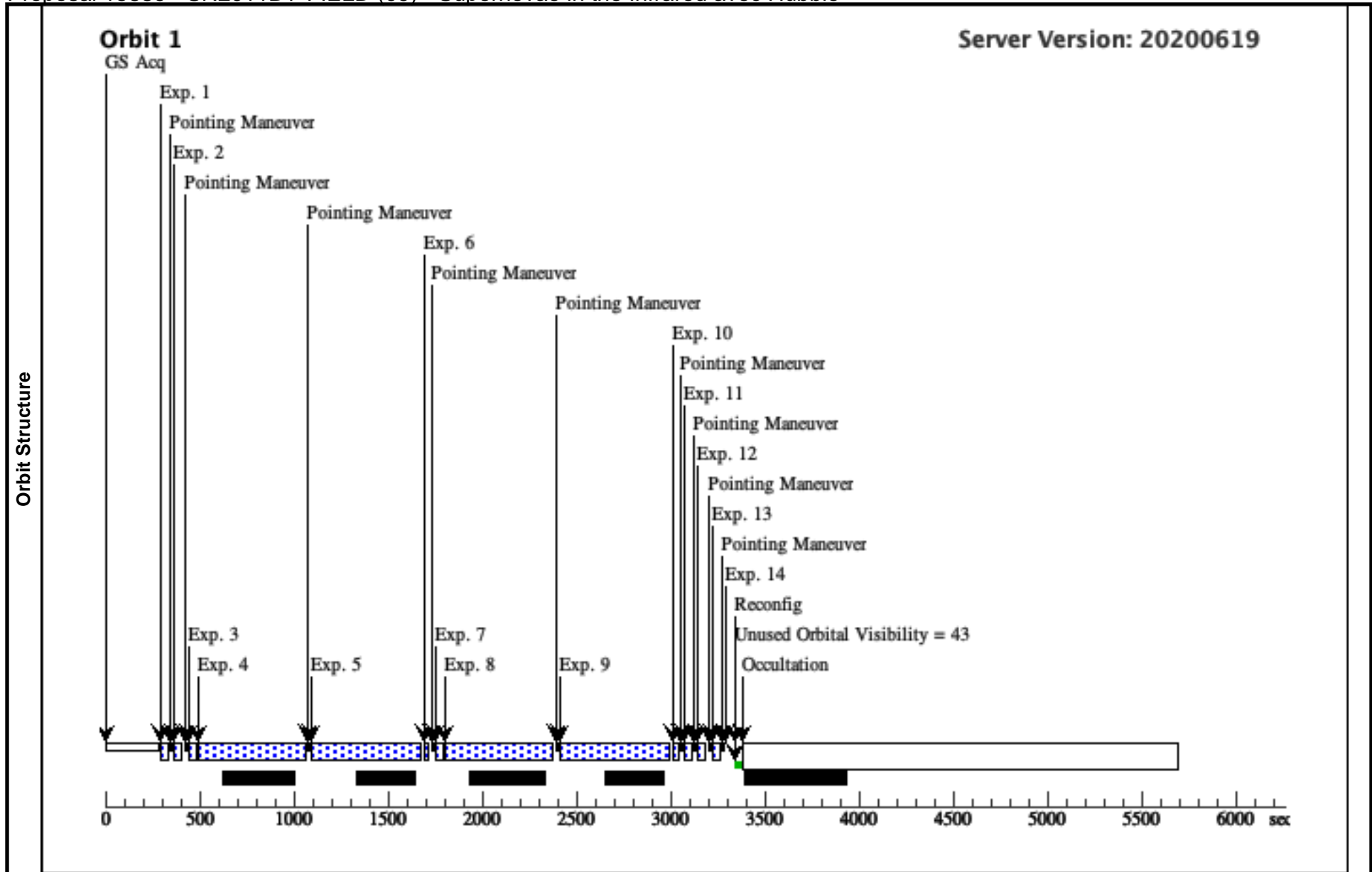


Proposal 15889 - SN2011BY-FIELD (09) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, SN2011BY-FIELD (09), scheduling Tue Sep 22 14:02:26 GMT 2020					
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 289D TO 345 D					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(43)	SN2011BY-FIELD	RA: 11 55 55.3067 (178.9804446d) Dec: +55 19 48.19 (55.33005d) Equinox: J2000		V=15.0+/-1.0	Reference Frame: ICRS
Comments: Category=STAR Description=[UNDESIGNATED]						

Proposal 15889 - SN2011BY-FIELD (09) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(43) SN2011BY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -5.688,- 5.088; GS ACQ SCENARI O SINGLE	11.729164 Secs (11.729 Secs)	[==>]	[1]	
	2	(43) SN2011BY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -4.266,- 3.816	11.729164 Secs (11.729 Secs)	[==>]	[1]	
	3	(43) SN2011BY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -2.844,- 2.544	11.729164 Secs (11.729 Secs)	[==>]	[1]	
	4	(43) SN2011BY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=12; SAMP-SEQ=SPARS50	POS TARG -2.844,- 2.544	552.937252 Secs (552.937 Secs)	[==>]	[1]	
	5	(43) SN2011BY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=12; SAMP-SEQ=SPARS50	POS TARG -1.422,- 1.272	552.937252 Secs (552.937 Secs)	[==>]	[1]	
	6	(43) SN2011BY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -1.422,- 1.272	11.729164 Secs (11.729 Secs)	[==>]	[1]	
	7	(43) SN2011BY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG 0.000,0. 000	8.796873 Secs (8.797 Secs)	[==>]	[1]	
	8	(43) SN2011BY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPARS50	POS TARG 0.000,0. 000	552.937252 Secs (552.937 Secs)	[==>]	[1]	
	9	(43) SN2011BY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPARS50	POS TARG +1.422, +1.272	552.937252 Secs (552.937 Secs)	[==>]	[1]	
	10	(43) SN2011BY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +1.422, +1.272	8.796873 Secs (8.797 Secs)	[==>]	[1]	
	11	(43) SN2011BY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +2.844, +2.544	8.796873 Secs (8.797 Secs)	[==>]	[1]	
	12	(43) SN2011BY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +4.266, +3.816	8.796873 Secs (8.797 Secs)	[==>]	[1]	
	13	(43) SN2011BY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +5.688, +5.088	8.796873 Secs (8.797 Secs)	[==>]	[1]	
14	(43) SN2011BY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +7.110, +6.360	8.796873 Secs (8.797 Secs)	[==>]	[1]		



Proposal 15889 - SN2011FE-FIELD (10) - Supernovae in the Infrared avec Hubble

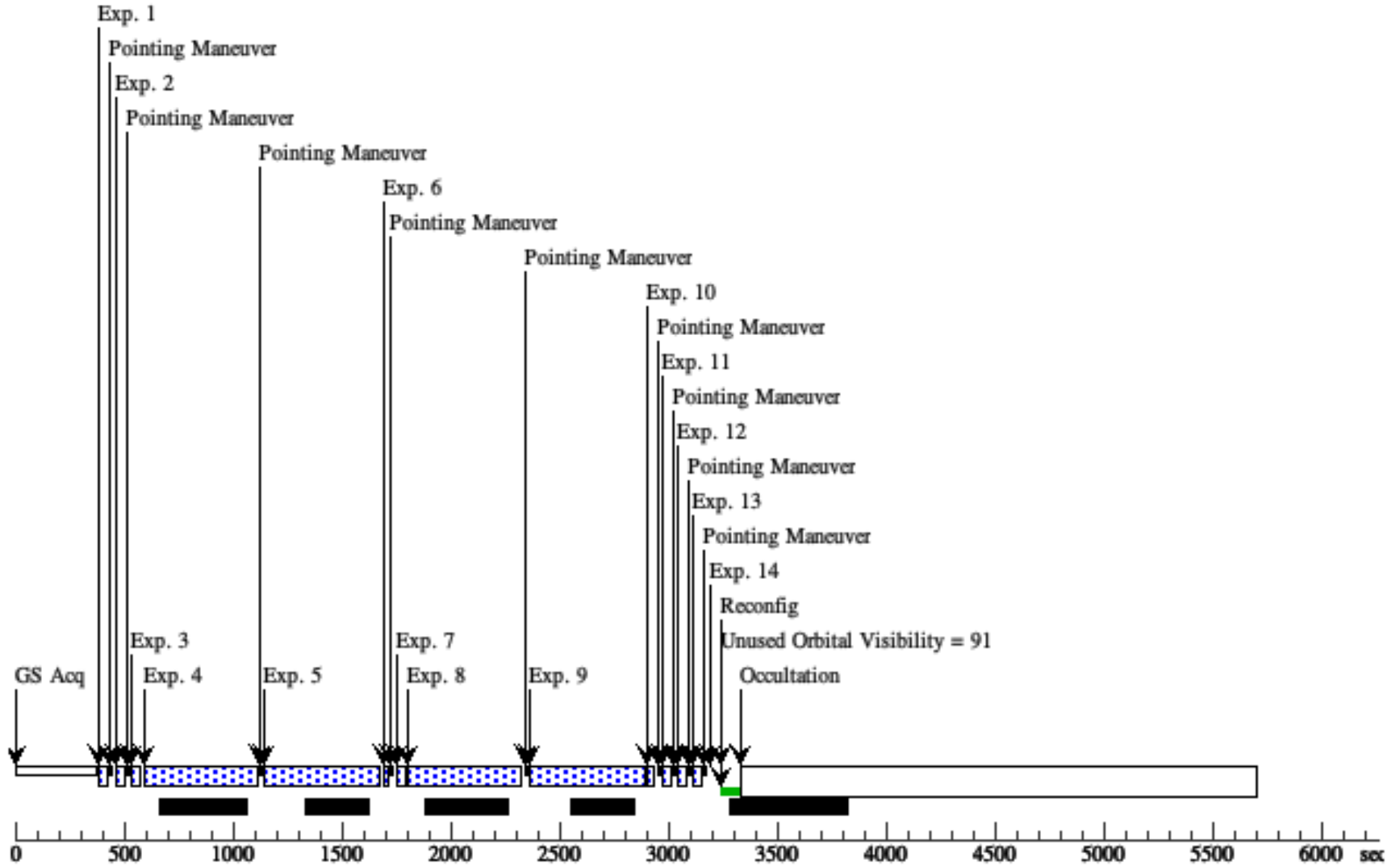
Visit	Proposal 15889, SN2011FE-FIELD (10), completed Tue Sep 22 14:02:26 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 354D TO 104 D					
	Fixed Targets	# (44)	Name SN2011FE-FIELD	Target Coordinates RA: 14 03 9.3425 (210.7889271d) Dec: +54 15 24.19 (54.25672d) Equinox: J2000	Targ. Coord. Corrections	Fluxes V=14.0+/-1.0
Comments: Category=STAR Description=[UNDESIGNATED]						

Proposal 15889 - SN2011FE-FIELD (10) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(44) SN2011FE-FIE LD	(44) SN2011FE-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -5.688,-5.088		14.661455 Secs (14.661 Secs) [==>]	[1]
	2	(44) SN2011FE-FIE LD	(44) SN2011FE-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -4.266,-3.816		14.661455 Secs (14.661 Secs) [==>]	[1]
	3	(44) SN2011FE-FIE LD	(44) SN2011FE-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -2.844,-2.544		11.729164 Secs (11.729 Secs) [==>]	[1]
	4	(44) SN2011FE-FIE LD	(44) SN2011FE-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG -2.844,-2.544		502.936801 Secs (502.937 Secs) [==>]	[1]
	5	(44) SN2011FE-FIE LD	(44) SN2011FE-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG -1.422,-1.272		502.936801 Secs (502.937 Secs) [==>]	[1]
	6	(44) SN2011FE-FIE LD	(44) SN2011FE-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -1.422,-1.272		11.729164 Secs (11.729 Secs) [==>]	[1]
	7	(44) SN2011FE-FIE LD	(44) SN2011FE-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG 0.000,0.000		8.796873 Secs (8.797 Secs) [==>]	[1]
	8	(44) SN2011FE-FIE LD	(44) SN2011FE-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG 0.000,0.000		502.936801 Secs (502.937 Secs) [==>]	[1]
	9	(44) SN2011FE-FIE LD	(44) SN2011FE-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG +1.422,+1.272		502.936801 Secs (502.937 Secs) [==>]	[1]
	10	(44) SN2011FE-FIE LD	(44) SN2011FE-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +1.422,+1.272		8.796873 Secs (8.797 Secs) [==>]	[1]
	11	(44) SN2011FE-FIE LD	(44) SN2011FE-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +2.844,+2.544		8.796873 Secs (8.797 Secs) [==>]	[1]
	12	(44) SN2011FE-FIE LD	(44) SN2011FE-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +4.266,+3.816		8.796873 Secs (8.797 Secs) [==>]	[1]
	13	(44) SN2011FE-FIE LD	(44) SN2011FE-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +5.688,+5.088		8.796873 Secs (8.797 Secs) [==>]	[1]
14	(44) SN2011FE-FIE LD	(44) SN2011FE-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +7.110,+6.360		8.796873 Secs (8.797 Secs) [==>]	[1]	

Orbit Structure

Orbit 1



Proposal 15889 - SN2012CG-FIELD (11) - Supernovae in the Infrared avec Hubble

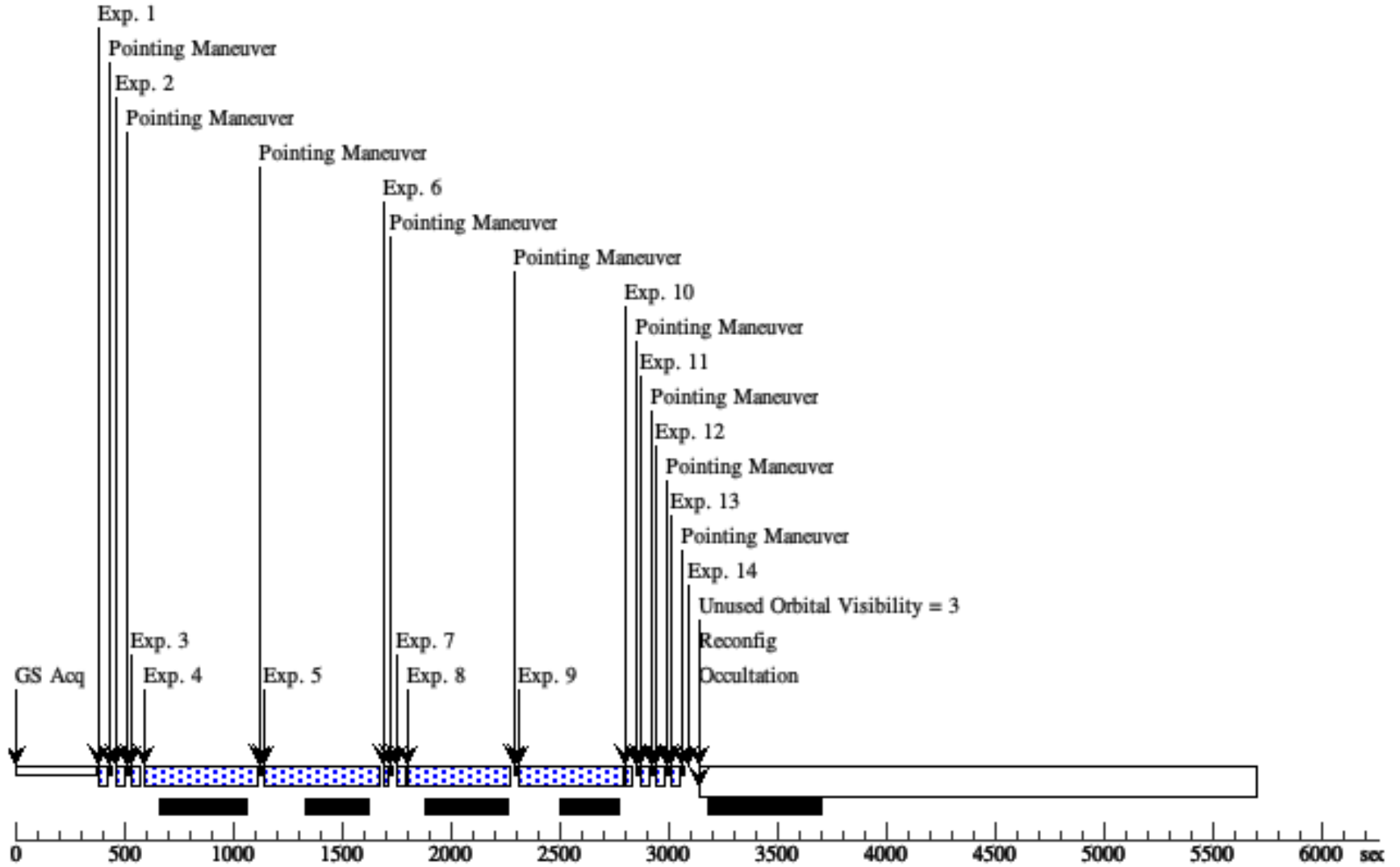
Visit	Proposal 15889, SN2012CG-FIELD (11), completed Tue Sep 22 14:02:26 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 233D TO 263 D					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(45)		SN2012CG-FIELD	RA: 12 27 17.3295 (186.8222062d) Dec: +09 25 11.07 (9.41974d) Equinox: J2000		V=15.5+/-0.5	Reference Frame: ICRS
	<i>Comments:</i> Category=STAR Description=[UNDESIGNATED]					

Proposal 15889 - SN2012CG-FIELD (11) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(45) SN2012CG-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -5.688,- 5.088; GS ACQ SCENARI O BASE1B3	14.661455 Secs (14.661 Secs)	[==>]	[1]	
	2	(45) SN2012CG-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -4.266,- 3.816	14.661455 Secs (14.661 Secs)	[==>]	[1]	
	3	(45) SN2012CG-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -2.844,- 2.544	11.729164 Secs (11.729 Secs)	[==>]	[1]	
	4	(45) SN2012CG-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG -2.844,- 2.544	502.936801 Secs (502.937 Secs)	[==>]	[1]	
	5	(45) SN2012CG-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG -1.422,- 1.272	502.936801 Secs (502.937 Secs)	[==>]	[1]	
	6	(45) SN2012CG-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -1.422,- 1.272	11.729164 Secs (11.729 Secs)	[==>]	[1]	
	7	(45) SN2012CG-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG 0.000,0. 000	8.796873 Secs (8.797 Secs)	[==>]	[1]	
	8	(45) SN2012CG-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPARS50	POS TARG 0.000,0. 000	452.93635 Secs (452.936 Secs)	[==>]	[1]	
	9	(45) SN2012CG-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPARS50	POS TARG +1.422, +1.272	452.93635 Secs (452.936 Secs)	[==>]	[1]	
	10	(45) SN2012CG-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +1.422, +1.272	8.796873 Secs (8.797 Secs)	[==>]	[1]	
	11	(45) SN2012CG-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +2.844, +2.544	8.796873 Secs (8.797 Secs)	[==>]	[1]	
	12	(45) SN2012CG-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +4.266, +3.816	8.796873 Secs (8.797 Secs)	[==>]	[1]	
	13	(45) SN2012CG-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +5.688, +5.088	8.796873 Secs (8.797 Secs)	[==>]	[1]	
14	(45) SN2012CG-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +7.110, +6.360	8.796873 Secs (8.797 Secs)	[==>]	[1]		

Orbit Structure

Orbit 1

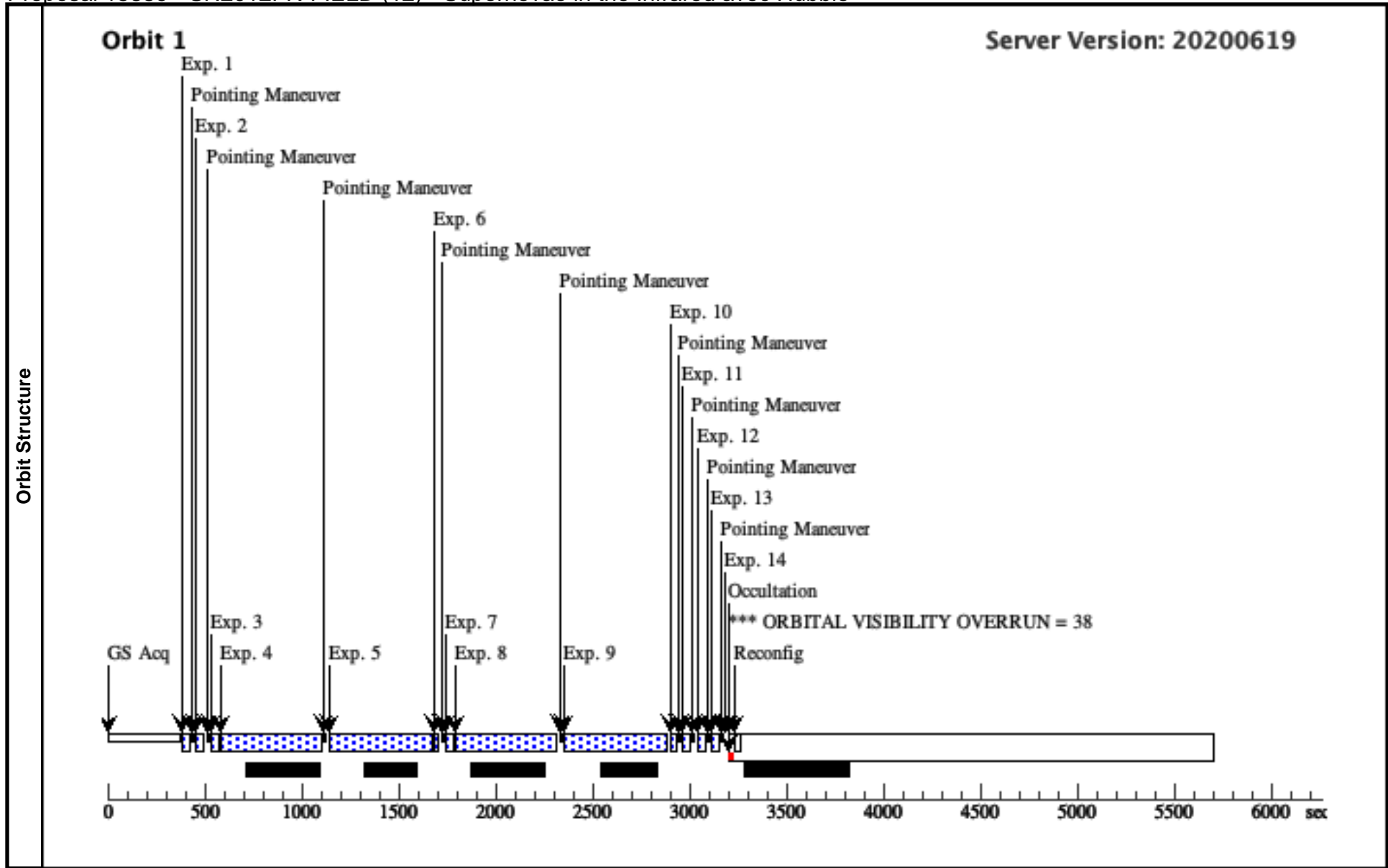


Proposal 15889 - SN2012FR-FIELD (12) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, SN2012FR-FIELD (12), completed Tue Sep 22 14:02:26 GMT 2020 Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ORIENT 180D TO 245 D																	
	Diagnostics	(SN2012FR-FIELD (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																
Fixed Targets	<table border="1"> <thead> <tr> <th data-bbox="142 391 247 423">#</th> <th data-bbox="247 391 478 423">Name</th> <th data-bbox="478 391 911 423">Target Coordinates</th> <th data-bbox="911 391 1318 423">Targ. Coord. Corrections</th> <th data-bbox="1318 391 1612 423">Fluxes</th> <th data-bbox="1612 391 2007 423">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td data-bbox="142 423 247 521">(46)</td> <td data-bbox="247 423 478 521">SN2012FR-FIELD</td> <td data-bbox="478 423 911 521"> RA: 03 33 31.2847 (53.3803529d) Dec: -36 07 28.43 (-36.12456d) Equinox: J2000 </td> <td data-bbox="911 423 1318 521"></td> <td data-bbox="1318 423 1612 521">V=15.3+/-0.3</td> <td data-bbox="1612 423 2007 521">Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(46)	SN2012FR-FIELD	RA: 03 33 31.2847 (53.3803529d) Dec: -36 07 28.43 (-36.12456d) Equinox: J2000		V=15.3+/-0.3	Reference Frame: ICRS	Comments: Category=STAR Description=[UNDESIGNATED]				
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(46)	SN2012FR-FIELD	RA: 03 33 31.2847 (53.3803529d) Dec: -36 07 28.43 (-36.12456d) Equinox: J2000		V=15.3+/-0.3	Reference Frame: ICRS													

Proposal 15889 - SN2012FR-FIELD (12) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(46) SN2012FR-FIE LD	(46) SN2012FR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -5.688,-5.088		11.729164 Secs (11.729 Secs) [==>]	[1]
	2	(46) SN2012FR-FIE LD	(46) SN2012FR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -4.266,-3.816		11.729164 Secs (11.729 Secs) [==>]	[1]
	3	(46) SN2012FR-FIE LD	(46) SN2012FR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -2.844,-2.544		11.729164 Secs (11.729 Secs) [==>]	[1]
	4	(46) SN2012FR-FIE LD	(46) SN2012FR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG -2.844,-2.544		502.936801 Secs (502.937 Secs) [==>]	[1]
	5	(46) SN2012FR-FIE LD	(46) SN2012FR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG -1.422,-1.272		502.936801 Secs (502.937 Secs) [==>]	[1]
	6	(46) SN2012FR-FIE LD	(46) SN2012FR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -1.422,-1.272		11.729164 Secs (11.729 Secs) [==>]	[1]
	7	(46) SN2012FR-FIE LD	(46) SN2012FR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG 0.000,0.000		8.796873 Secs (8.797 Secs) [==>]	[1]
	8	(46) SN2012FR-FIE LD	(46) SN2012FR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG 0.000,0.000		502.936801 Secs (502.937 Secs) [==>]	[1]
	9	(46) SN2012FR-FIE LD	(46) SN2012FR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG +1.422,+1.272		502.936801 Secs (502.937 Secs) [==>]	[1]
	10	(46) SN2012FR-FIE LD	(46) SN2012FR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +1.422,+1.272		8.796873 Secs (8.797 Secs) [==>]	[1]
	11	(46) SN2012FR-FIE LD	(46) SN2012FR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +2.844,+2.544		8.796873 Secs (8.797 Secs) [==>]	[1]
	12	(46) SN2012FR-FIE LD	(46) SN2012FR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +4.266,+3.816		8.796873 Secs (8.797 Secs) [==>]	[1]
	13	(46) SN2012FR-FIE LD	(46) SN2012FR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +5.688,+5.088		8.796873 Secs (8.797 Secs) [==>]	[1]
14	(46) SN2012FR-FIE LD	(46) SN2012FR-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +7.110,+6.360		8.796873 Secs (8.797 Secs) [==>]	[1]	

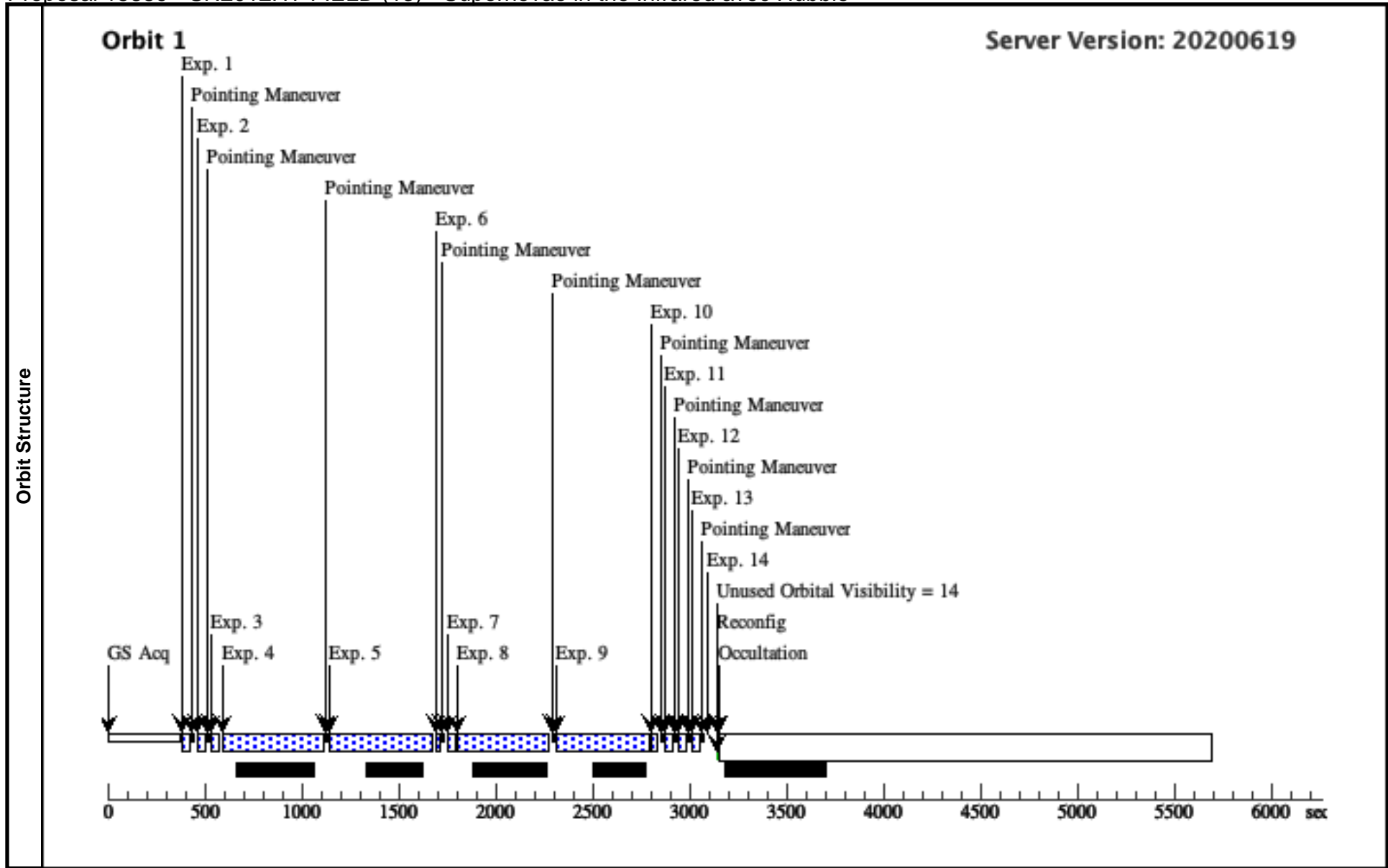


Proposal 15889 - SN2012HT-FIELD (13) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, SN2012HT-FIELD (13), completed Tue Sep 22 14:02:26 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 295D TO 7 D					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(47)		SN2012HT-FIELD	RA: 10 53 24.5444 (163.3522683d) Dec: +16 47 23.48 (16.78986d) Equinox: J2000		V=16.0+/-0.5	Reference Frame: ICRS
	<i>Comments:</i> Category=STAR Description=[UNDESIGNATED]					

Proposal 15889 - SN2012HT-FIELD (13) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(47) SN2012HT-FIE LD	(47) SN2012HT-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -5.688,-5.088		14.661455 Secs (14.661 Secs)	[1]
	2	(47) SN2012HT-FIE LD	(47) SN2012HT-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -4.266,-3.816		14.661455 Secs (14.661 Secs)	[1]
	3	(47) SN2012HT-FIE LD	(47) SN2012HT-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -2.844,-2.544		11.729164 Secs (11.729 Secs)	[1]
	4	(47) SN2012HT-FIE LD	(47) SN2012HT-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG -2.844,-2.544		502.936801 Secs (502.937 Secs)	[1]
	5	(47) SN2012HT-FIE LD	(47) SN2012HT-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG -1.422,-1.272		502.936801 Secs (502.937 Secs)	[1]
	6	(47) SN2012HT-FIE LD	(47) SN2012HT-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -1.422,-1.272		11.729164 Secs (11.729 Secs)	[1]
	7	(47) SN2012HT-FIE LD	(47) SN2012HT-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG 0.000,0.000		8.796873 Secs (8.797 Secs)	[1]
	8	(47) SN2012HT-FIE LD	(47) SN2012HT-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPARS50	POS TARG 0.000,0.000		452.93635 Secs (452.936 Secs)	[1]
	9	(47) SN2012HT-FIE LD	(47) SN2012HT-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPARS50	POS TARG +1.422,+1.272		452.93635 Secs (452.936 Secs)	[1]
	10	(47) SN2012HT-FIE LD	(47) SN2012HT-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +1.422,+1.272		8.796873 Secs (8.797 Secs)	[1]
	11	(47) SN2012HT-FIE LD	(47) SN2012HT-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +2.844,+2.544		8.796873 Secs (8.797 Secs)	[1]
	12	(47) SN2012HT-FIE LD	(47) SN2012HT-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +4.266,+3.816		8.796873 Secs (8.797 Secs)	[1]
	13	(47) SN2012HT-FIE LD	(47) SN2012HT-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +5.688,+5.088		8.796873 Secs (8.797 Secs)	[1]
14	(47) SN2012HT-FIE LD	(47) SN2012HT-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +7.110,+6.360		8.796873 Secs (8.797 Secs)	[1]	



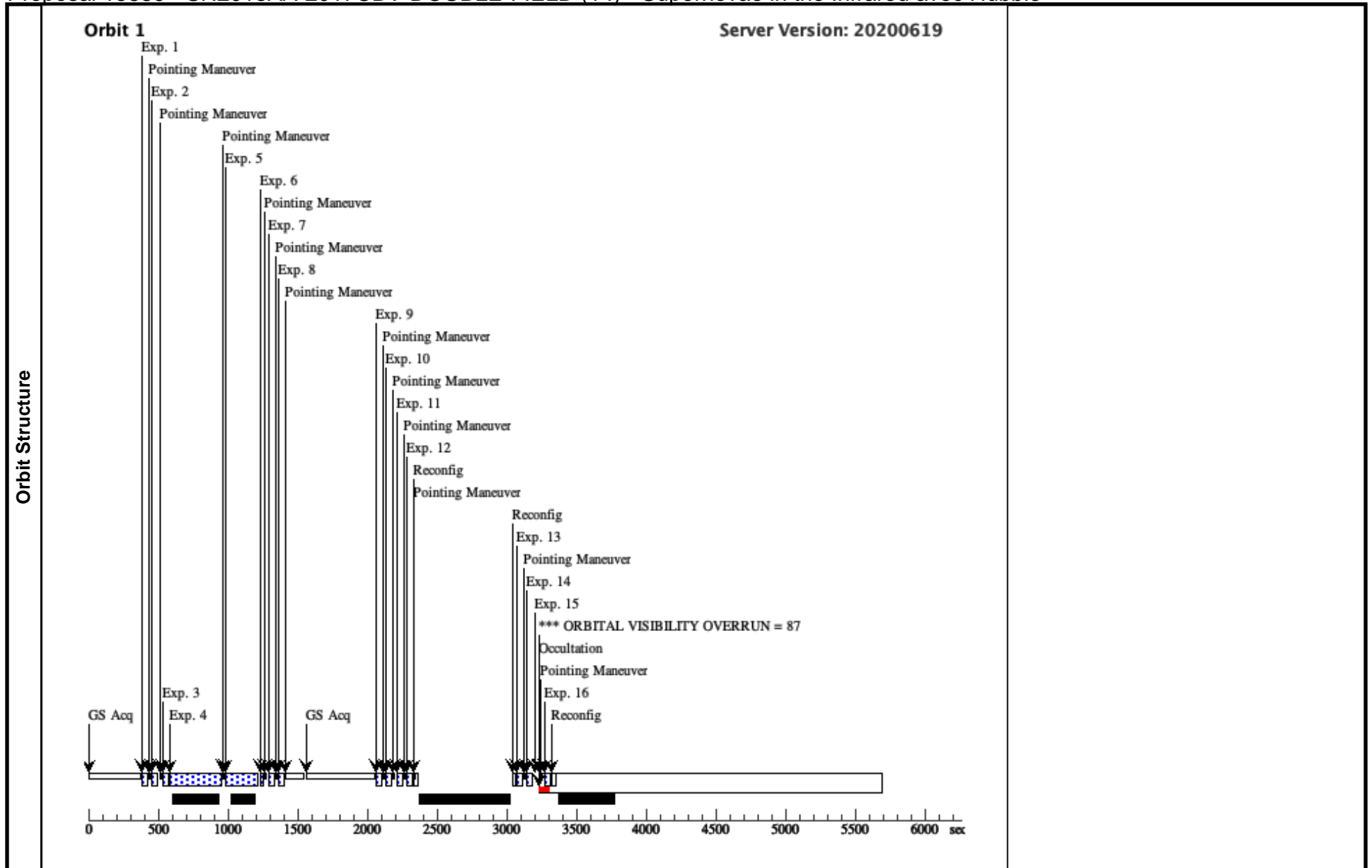
Proposal 15889 - SN2013AA-2017CBV-DOUBLE-FIELD (14) - Supernovae in the Infrared avec Hubble

Tue Sep 22 14:02:26 GMT 2020

Visit	Proposal 15889, SN2013AA-2017CBV-DOUBLE-FIELD (14), completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ORIENT 195D TO 25 D																																			
	(SN2013AA-2017CBV-DOUBLE-FIELD (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (SN2013AA-2017CBV-DOUBLE-FIELD (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																			
Diagnosics																																				
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(48)</td> <td>SN2013AA-2017CBV-SOUTH-FIELD</td> <td> RA: 14 32 35.9997 (218.1499988d) Dec: -44 12 44.28 (-44.21230d) Equinox: J2000 </td> <td></td> <td>V=15.5+/-1.0</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"> <i>Comments:</i> Category=STAR Description=[UNDESIGNATED] </td> </tr> <tr> <td>(55)</td> <td>SN2013AA-2017CBV-NORTH-FIELD</td> <td> RA: 14 32 34.4200 (218.1434167d) Dec: -44 08 2.74 (-44.13409d) Equinox: J2000 </td> <td></td> <td>V=15.5+/-1.0</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"> <i>Comments:</i> Category=STAR Description=[UNDESIGNATED] </td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(48)	SN2013AA-2017CBV-SOUTH-FIELD	RA: 14 32 35.9997 (218.1499988d) Dec: -44 12 44.28 (-44.21230d) Equinox: J2000		V=15.5+/-1.0	Reference Frame: ICRS	<i>Comments:</i> Category=STAR Description=[UNDESIGNATED]						(55)	SN2013AA-2017CBV-NORTH-FIELD	RA: 14 32 34.4200 (218.1434167d) Dec: -44 08 2.74 (-44.13409d) Equinox: J2000		V=15.5+/-1.0	Reference Frame: ICRS	<i>Comments:</i> Category=STAR Description=[UNDESIGNATED]										
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																														
(48)	SN2013AA-2017CBV-SOUTH-FIELD	RA: 14 32 35.9997 (218.1499988d) Dec: -44 12 44.28 (-44.21230d) Equinox: J2000		V=15.5+/-1.0	Reference Frame: ICRS																															
<i>Comments:</i> Category=STAR Description=[UNDESIGNATED]																																				
(55)	SN2013AA-2017CBV-NORTH-FIELD	RA: 14 32 34.4200 (218.1434167d) Dec: -44 08 2.74 (-44.13409d) Equinox: J2000		V=15.5+/-1.0	Reference Frame: ICRS																															
<i>Comments:</i> Category=STAR Description=[UNDESIGNATED]																																				

Proposal 15889 - SN2013AA-2017CBV-DOUBLE-FIELD (14) - Supernovae in the Infrared avec Hubble

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(48) SN2013AA-2017CBV-SOUTH-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -2.844,-2.544		11.729164 Secs (11.729 Secs) [==>]	[1]
	2	(48) SN2013AA-2017CBV-SOUTH-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -1.422,-1.272		11.729164 Secs (11.729 Secs) [==>]	[1]
	3	(48) SN2013AA-2017CBV-SOUTH-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=3; SAMP-SEQ=RAPID	POS TARG 0.000,0.000		8.796873 Secs (8.797 Secs) [==>]	[1]
	4	(48) SN2013AA-2017CBV-SOUTH-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=8; SAMP-SEQ=SPARS50	POS TARG 0.000,0.000		352.935448 Secs (352.935 Secs) [==>]	[1]
	5	(48) SN2013AA-2017CBV-SOUTH-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG +1.422,+1.272		202.934095 Secs (202.934 Secs) [==>]	[1]
	6	(48) SN2013AA-2017CBV-SOUTH-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +1.422,+1.272		8.796873 Secs (8.797 Secs) [==>]	[1]
	7	(48) SN2013AA-2017CBV-SOUTH-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +2.844,+2.544		8.796873 Secs (8.797 Secs) [==>]	[1]
	8	(48) SN2013AA-2017CBV-SOUTH-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +4.266,+3.816		8.796873 Secs (8.797 Secs) [==>]	[1]
	9	(55) SN2013AA-2017CBV-NORTH-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG 0.000,0.000		8.796873 Secs (8.797 Secs) [==>]	[1]
	10	(55) SN2013AA-2017CBV-NORTH-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +1.422,+1.272		8.796873 Secs (8.797 Secs) [==>]	[1]
	11	(55) SN2013AA-2017CBV-NORTH-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +2.844,+2.544		8.796873 Secs (8.797 Secs) [==>]	[1]
	12	(55) SN2013AA-2017CBV-NORTH-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +4.266,+3.816		8.796873 Secs (8.797 Secs) [==>]	[1]
	13	(55) SN2013AA-2017CBV-NORTH-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=4; SAMP-SEQ=RAPID	POS TARG +5.688,+5.088		11.729164 Secs (11.729 Secs) [==>]	[1]
	14	(55) SN2013AA-2017CBV-NORTH-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=4; SAMP-SEQ=RAPID	POS TARG +7.110,+6.360		11.729164 Secs (11.729 Secs) [==>]	[1]
	15	(55) SN2013AA-2017CBV-NORTH-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG +7.110,+6.360		11.729164 Secs (11.729 Secs) [==>]	[1]
	16	(55) SN2013AA-2017CBV-NORTH-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG +8.532,+7.632		11.729164 Secs (11.729 Secs) [==>]	[1]

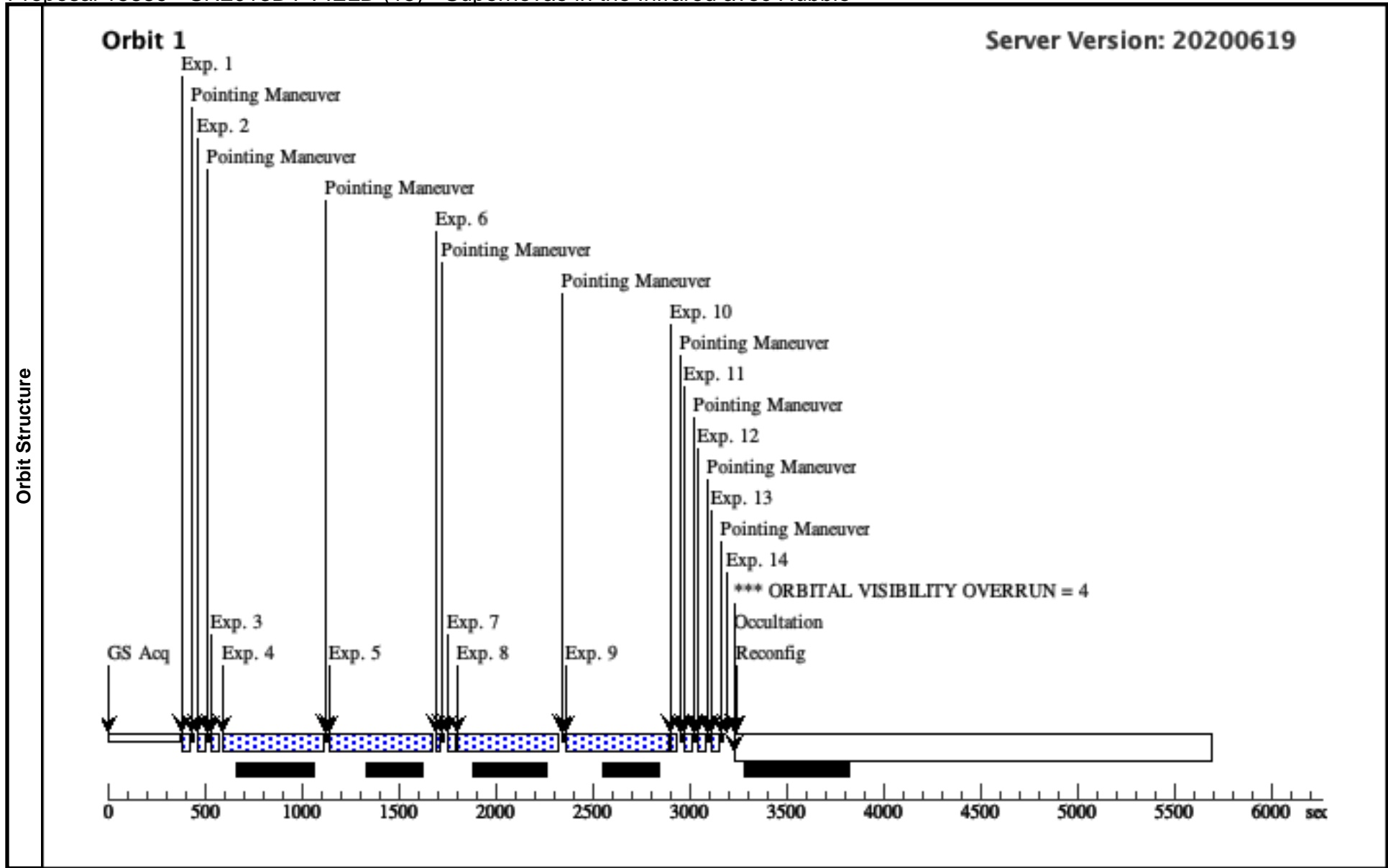


Proposal 15889 - SN2013DY-FIELD (15) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, SN2013DY-FIELD (15), completed Tue Sep 22 14:02:27 GMT 2020 Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ORIENT 60D TO 203 D																								
	Diagnostics	(SN2013DY-FIELD (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																							
Fixed Targets	<table border="1"> <thead> <tr> <th data-bbox="142 391 247 423">#</th> <th data-bbox="247 391 478 423">Name</th> <th data-bbox="478 391 919 423">Target Coordinates</th> <th data-bbox="919 391 1318 423">Targ. Coord. Corrections</th> <th data-bbox="1318 391 1612 423">Fluxes</th> <th data-bbox="1612 391 2007 423">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td data-bbox="142 423 247 521">(49)</td> <td data-bbox="247 423 478 521">SN2013DY-FIELD</td> <td data-bbox="478 423 919 521"> RA: 22 18 17.6288 (334.5734533d) Dec: +40 34 52.39 (40.58122d) Equinox: J2000 </td> <td data-bbox="919 423 1318 521"></td> <td data-bbox="1318 423 1612 521">V=15.0+/-1.0</td> <td data-bbox="1612 423 2007 521">Reference Frame: ICRS</td> </tr> <tr> <td colspan="6" data-bbox="142 521 2007 591"> Comments: Category=STAR Description=[UNDESIGNATED] </td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(49)	SN2013DY-FIELD	RA: 22 18 17.6288 (334.5734533d) Dec: +40 34 52.39 (40.58122d) Equinox: J2000		V=15.0+/-1.0	Reference Frame: ICRS	Comments: Category=STAR Description=[UNDESIGNATED]											
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																			
(49)	SN2013DY-FIELD	RA: 22 18 17.6288 (334.5734533d) Dec: +40 34 52.39 (40.58122d) Equinox: J2000		V=15.0+/-1.0	Reference Frame: ICRS																				
Comments: Category=STAR Description=[UNDESIGNATED]																									

Proposal 15889 - SN2013DY-FIELD (15) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(49) SN2013DY-FIE LD	SN2013DY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -5.688,-5.088		14.661455 Secs (14.661 Secs) [==>]	[1]
	2	(49) SN2013DY-FIE LD	SN2013DY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -4.266,-3.816		14.661455 Secs (14.661 Secs) [==>]	[1]
	3	(49) SN2013DY-FIE LD	SN2013DY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -2.844,-2.544		11.729164 Secs (11.729 Secs) [==>]	[1]
	4	(49) SN2013DY-FIE LD	SN2013DY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG -2.844,-2.544		502.936801 Secs (502.937 Secs) [==>]	[1]
	5	(49) SN2013DY-FIE LD	SN2013DY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG -1.422,-1.272		502.936801 Secs (502.937 Secs) [==>]	[1]
	6	(49) SN2013DY-FIE LD	SN2013DY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -1.422,-1.272		11.729164 Secs (11.729 Secs) [==>]	[1]
	7	(49) SN2013DY-FIE LD	SN2013DY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG 0.000,0.000		8.796873 Secs (8.797 Secs) [==>]	[1]
	8	(49) SN2013DY-FIE LD	SN2013DY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG 0.000,0.000		502.936801 Secs (502.937 Secs) [==>]	[1]
	9	(49) SN2013DY-FIE LD	SN2013DY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG +1.422,+1.272		502.936801 Secs (502.937 Secs) [==>]	[1]
	10	(49) SN2013DY-FIE LD	SN2013DY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +1.422,+1.272		8.796873 Secs (8.797 Secs) [==>]	[1]
	11	(49) SN2013DY-FIE LD	SN2013DY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +2.844,+2.544		8.796873 Secs (8.797 Secs) [==>]	[1]
	12	(49) SN2013DY-FIE LD	SN2013DY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +4.266,+3.816		8.796873 Secs (8.797 Secs) [==>]	[1]
	13	(49) SN2013DY-FIE LD	SN2013DY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +5.688,+5.088		8.796873 Secs (8.797 Secs) [==>]	[1]
	14	(49) SN2013DY-FIE LD	SN2013DY-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +7.110,+6.360		8.796873 Secs (8.797 Secs) [==>]	[1]

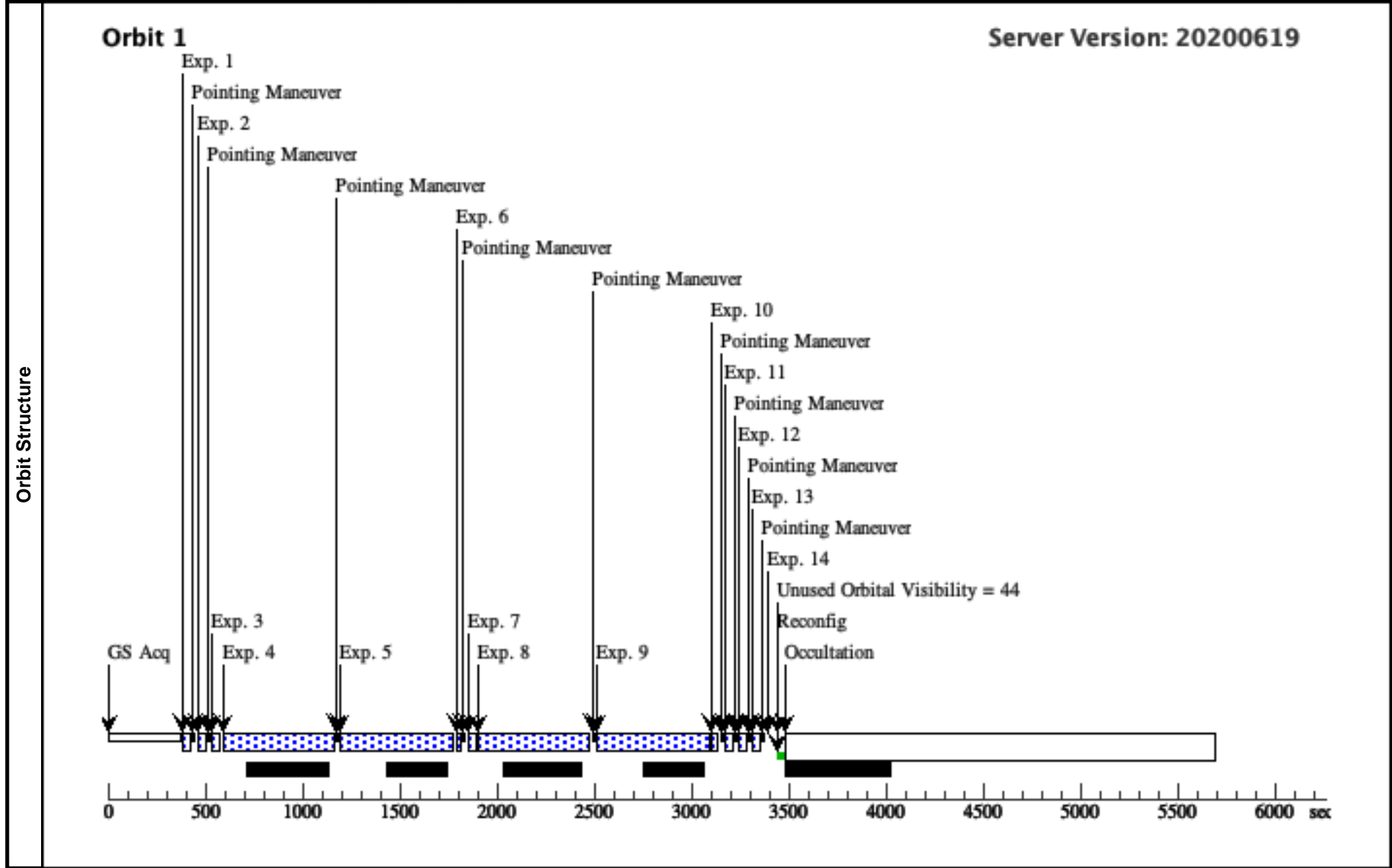


Proposal 15889 - SN2015F-FIELD (16) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, SN2015F-FIELD (16), completed Tue Sep 22 14:02:27 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 304D TO 37 D					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(50)		SN2015F-FIELD	RA: 07 36 14.3459 (114.0597746d) Dec: -69 29 27.68 (-69.49102d) Equinox: J2000		V=15.5+/-1.0	Reference Frame: ICRS
	Comments: Category=STAR Description=[UNDESIGNATED]					

Proposal 15889 - SN2015F-FIELD (16) - Supernovae in the Infrared avec Hubble

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(50) SN2015F-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -5.688,-5.088		14.661455 Secs (14.661 Secs) [==>]	[1]
	2	(50) SN2015F-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -4.266,-3.816		14.661455 Secs (14.661 Secs) [==>]	[1]
	3	(50) SN2015F-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -2.844,-2.544		11.729164 Secs (11.729 Secs) [==>]	[1]
	4	(50) SN2015F-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=12; SAMP-SEQ=SPARS50	POS TARG -2.844,-2.544		552.937252 Secs (552.937 Secs) [==>]	[1]
	5	(50) SN2015F-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=12; SAMP-SEQ=SPARS50	POS TARG -1.422,-1.272		552.937252 Secs (552.937 Secs) [==>]	[1]
	6	(50) SN2015F-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -1.422,-1.272		11.729164 Secs (11.729 Secs) [==>]	[1]
	7	(50) SN2015F-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG 0.000,0.000		8.796873 Secs (8.797 Secs) [==>]	[1]
	8	(50) SN2015F-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPARS50	POS TARG 0.000,0.000		552.937252 Secs (552.937 Secs) [==>]	[1]
	9	(50) SN2015F-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPARS50	POS TARG +1.422,+1.272		552.937252 Secs (552.937 Secs) [==>]	[1]
	10	(50) SN2015F-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +1.422,+1.272		8.796873 Secs (8.797 Secs) [==>]	[1]
	11	(50) SN2015F-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +2.844,+2.544		8.796873 Secs (8.797 Secs) [==>]	[1]
	12	(50) SN2015F-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +4.266,+3.816		8.796873 Secs (8.797 Secs) [==>]	[1]
	13	(50) SN2015F-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +5.688,+5.088		8.796873 Secs (8.797 Secs) [==>]	[1]
	14	(50) SN2015F-FIELD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +7.110,+6.360		8.796873 Secs (8.797 Secs) [==>]	[1]



Proposal 15889 - SN2017ERP-FIELD (17) - Supernovae in the Infrared avec Hubble

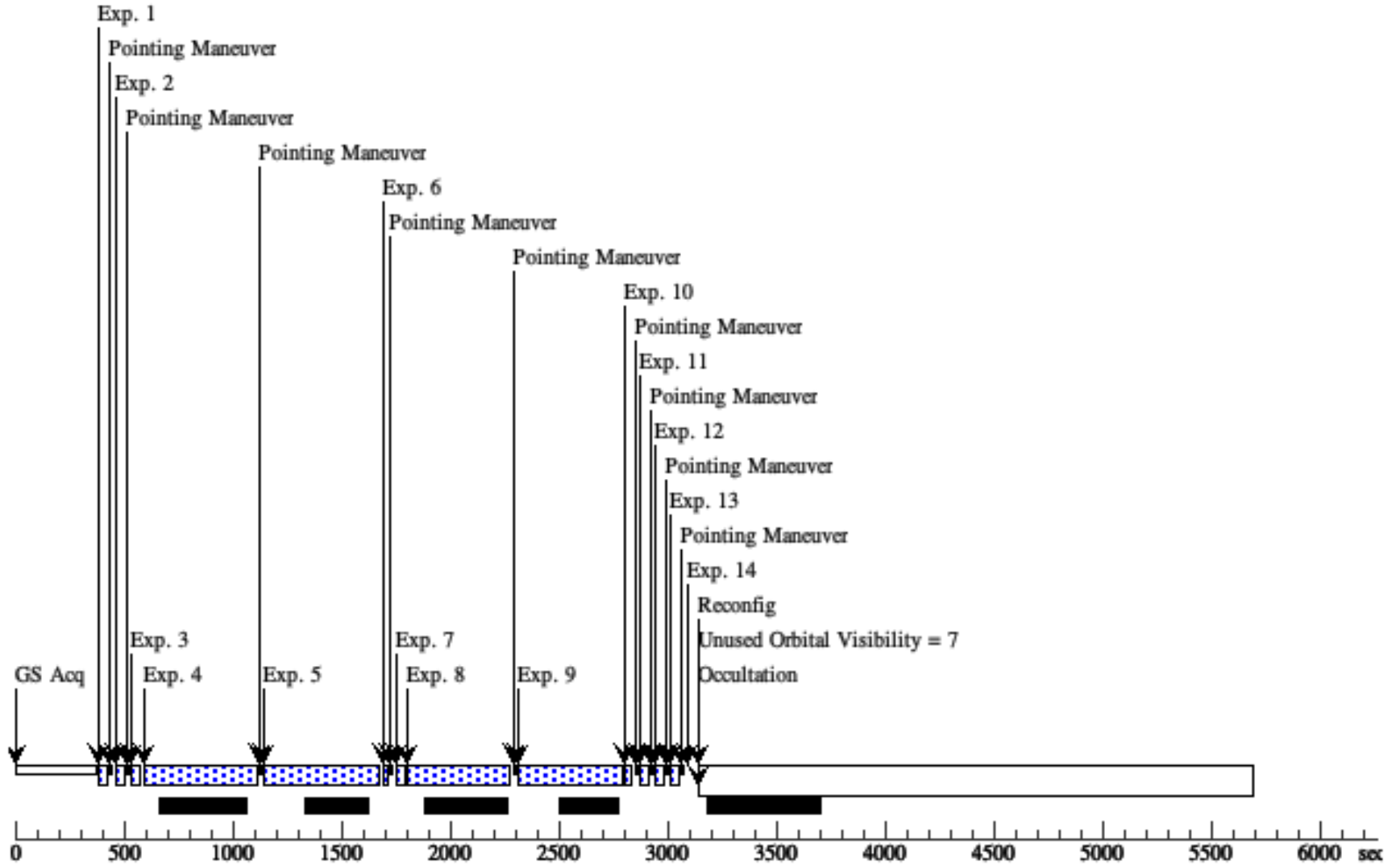
Visit	Proposal 15889, SN2017ERP-FIELD (17), completed Tue Sep 22 14:02:27 GMT 2020					
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 134D TO 242 D					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(51)	SN2017ERP-FIELD	RA: 15 09 16.3294 (227.3180392d) Dec: -11 20 31.29 (-11.34202d) Equinox: J2000		V=15.0+/-1.0	Reference Frame: ICRS
Comments: Category=STAR Description=[UNDESIGNATED]						

Proposal 15889 - SN2017ERP-FIELD (17) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(51) SN2017ERP-FI ELD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -5.688,- 5.088			14.661455 Secs (14.661 Secs)	[1]
	2	(51) SN2017ERP-FI ELD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -4.266,- 3.816			14.661455 Secs (14.661 Secs)	[1]
	3	(51) SN2017ERP-FI ELD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -2.844,- 2.544			11.729164 Secs (11.729 Secs)	[1]
	4	(51) SN2017ERP-FI ELD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG -2.844,- 2.544			502.936801 Secs (502.937 Secs)	[1]
	5	(51) SN2017ERP-FI ELD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG -1.422,- 1.272			502.936801 Secs (502.937 Secs)	[1]
	6	(51) SN2017ERP-FI ELD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -1.422,- 1.272			11.729164 Secs (11.729 Secs)	[1]
	7	(51) SN2017ERP-FI ELD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG 0.000,0. 000			8.796873 Secs (8.797 Secs)	[1]
	8	(51) SN2017ERP-FI ELD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPARS50	POS TARG 0.000,0. 000			452.93635 Secs (452.936 Secs)	[1]
	9	(51) SN2017ERP-FI ELD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPARS50	POS TARG +1.422, +1.272			452.93635 Secs (452.936 Secs)	[1]
	10	(51) SN2017ERP-FI ELD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +1.422, +1.272			8.796873 Secs (8.797 Secs)	[1]
	11	(51) SN2017ERP-FI ELD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +2.844, +2.544			8.796873 Secs (8.797 Secs)	[1]
	12	(51) SN2017ERP-FI ELD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +4.266, +3.816			8.796873 Secs (8.797 Secs)	[1]
	13	(51) SN2017ERP-FI ELD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +5.688, +5.088			8.796873 Secs (8.797 Secs)	[1]
	14	(51) SN2017ERP-FI ELD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +7.110, +6.360			8.796873 Secs (8.797 Secs)	[1]

Orbit Structure

Orbit 1

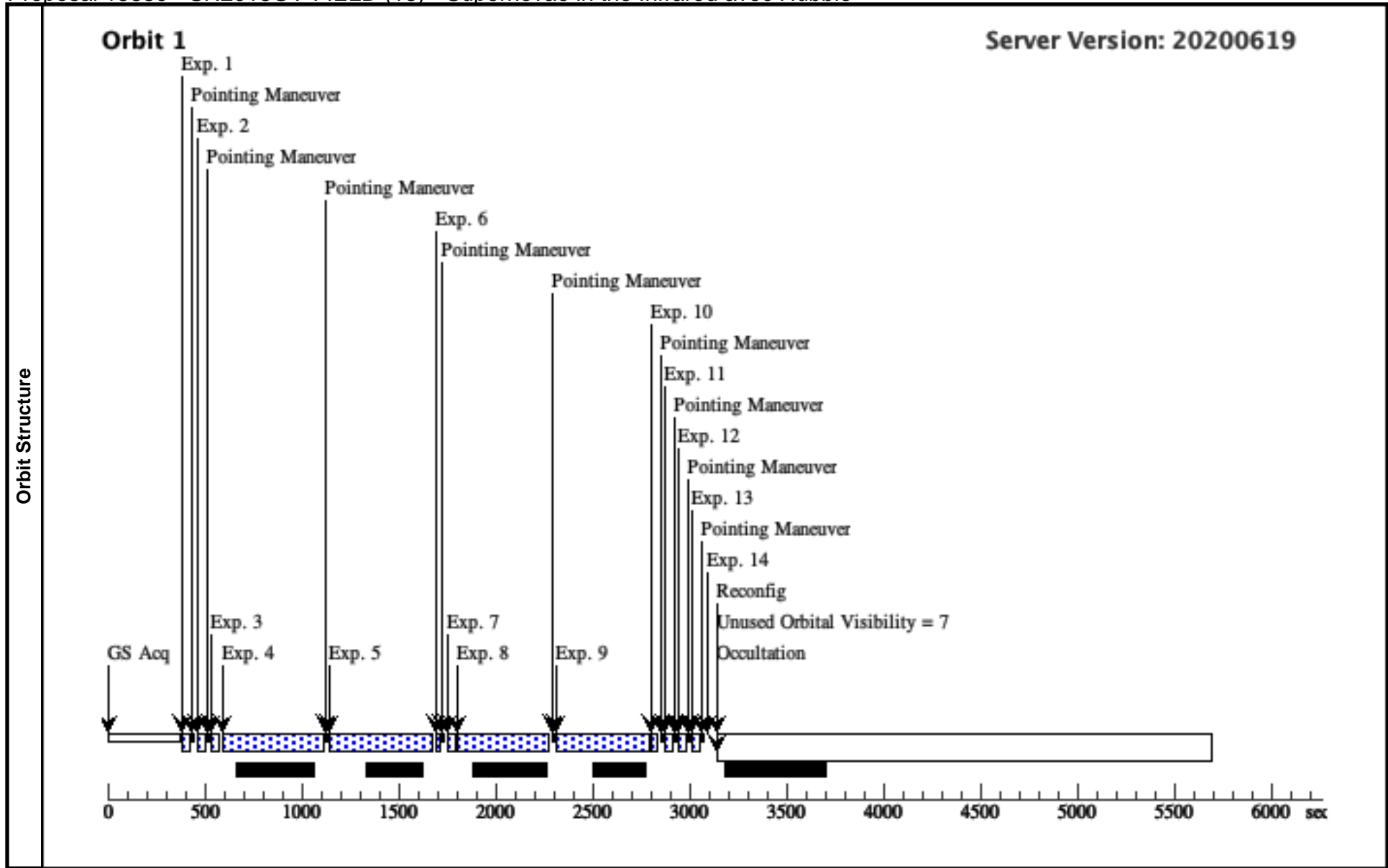


Proposal 15889 - SN2018GV-FIELD (18) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, SN2018GV-FIELD (18), completed Tue Sep 22 14:02:27 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 83D TO 123 D					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(52)		SN2018GV-FIELD	RA: 08 05 32.6048 (121.3858533d) Dec: -11 24 52.77 (-11.41466d) Equinox: J2000		V=15.5+/-1.0	Reference Frame: ICRS
	<i>Comments:</i> Category=STAR Description=[UNDESIGNATED]					

Proposal 15889 - SN2018GV-FIELD (18) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(52) SN2018GV-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -5.688,- 5.088			14.661455 Secs (14.661 Secs)	[1]
	2	(52) SN2018GV-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -4.266,- 3.816			14.661455 Secs (14.661 Secs)	[1]
	3	(52) SN2018GV-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -2.844,- 2.544			11.729164 Secs (11.729 Secs)	[1]
	4	(52) SN2018GV-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG -2.844,- 2.544			502.936801 Secs (502.937 Secs)	[1]
	5	(52) SN2018GV-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG -1.422,- 1.272			502.936801 Secs (502.937 Secs)	[1]
	6	(52) SN2018GV-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -1.422,- 1.272			11.729164 Secs (11.729 Secs)	[1]
	7	(52) SN2018GV-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG 0.000,0. 000			8.796873 Secs (8.797 Secs)	[1]
	8	(52) SN2018GV-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPARS50	POS TARG 0.000,0. 000			452.93635 Secs (452.936 Secs)	[1]
	9	(52) SN2018GV-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPARS50	POS TARG +1.422, +1.272			452.93635 Secs (452.936 Secs)	[1]
	10	(52) SN2018GV-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +1.422, +1.272			8.796873 Secs (8.797 Secs)	[1]
	11	(52) SN2018GV-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +2.844, +2.544			8.796873 Secs (8.797 Secs)	[1]
	12	(52) SN2018GV-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +4.266, +3.816			8.796873 Secs (8.797 Secs)	[1]
	13	(52) SN2018GV-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +5.688, +5.088			8.796873 Secs (8.797 Secs)	[1]
14	(52) SN2018GV-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +7.110, +6.360			8.796873 Secs (8.797 Secs)	[1]	

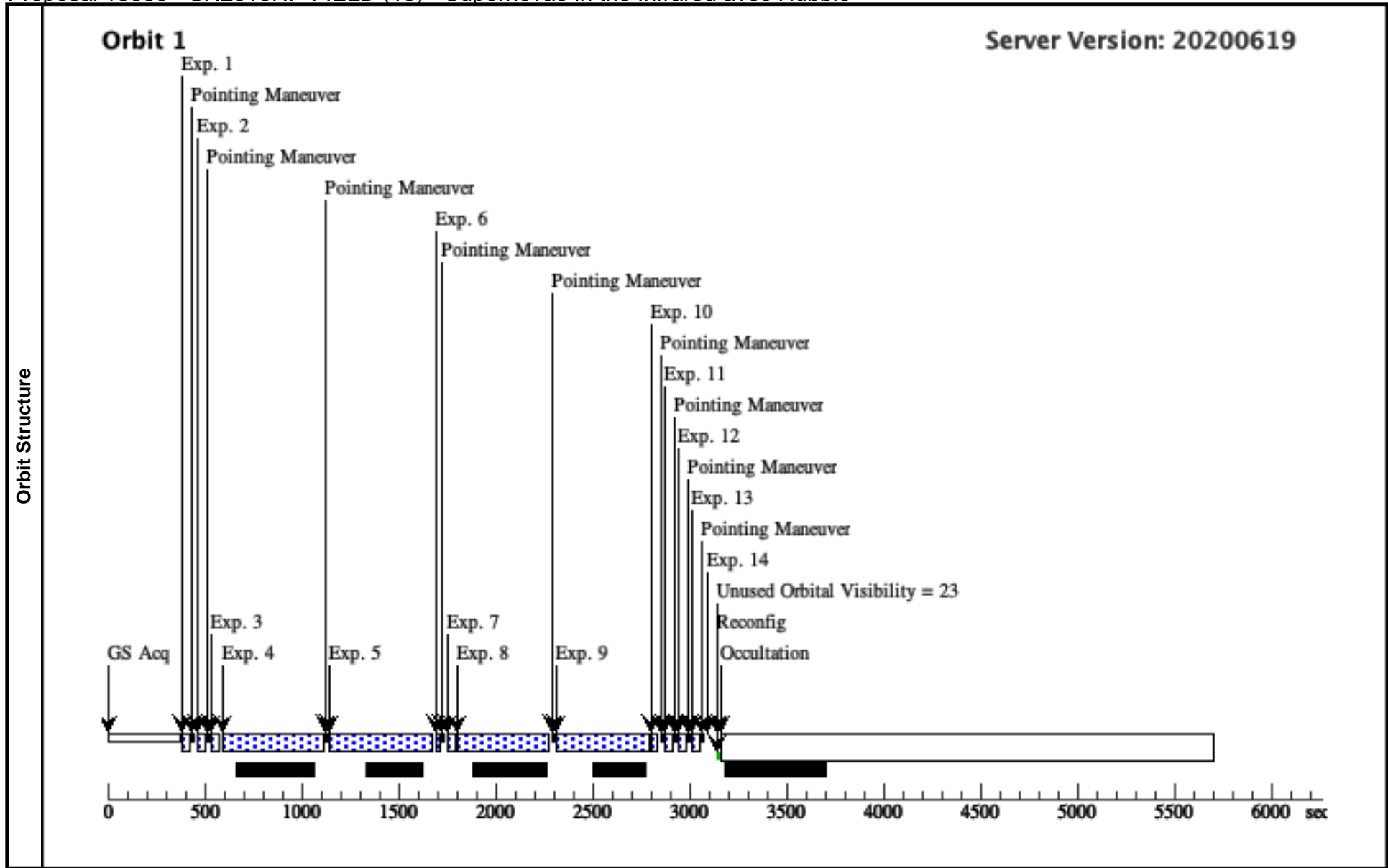


Proposal 15889 - SN2019NP-FIELD (19) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, SN2019NP-FIELD (19), failed Tue Sep 22 14:02:27 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 186D TO 236 D					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(53)		SN2019NP-FIELD	RA: 10 29 21.0401 (157.3376671d) Dec: +29 30 15.09 (29.50419d) Equinox: J2000		V=15.0+/-1.0	Reference Frame: ICRS
Comments: Category=STAR Description=[UNDESIGNATED]						

Proposal 15889 - SN2019NP-FIELD (19) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -5.688,-5.088			14.661455 Secs (14.661 Secs) [==>]	[1]
	2	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -4.266,-3.816			14.661455 Secs (14.661 Secs) [==>]	[1]
	3	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -2.844,-2.544			11.729164 Secs (11.729 Secs) [==>]	[1]
	4	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG -2.844,-2.544			502.936801 Secs (502.937 Secs) [==>]	[1]
	5	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG -1.422,-1.272			502.936801 Secs (502.937 Secs) [==>]	[1]
	6	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -1.422,-1.272			11.729164 Secs (11.729 Secs) [==>]	[1]
	7	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG 0.000,0.000			8.796873 Secs (8.797 Secs) [==>]	[1]
	8	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPARS50	POS TARG 0.000,0.000			452.93635 Secs (452.936 Secs) [==>]	[1]
	9	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPARS50	POS TARG +1.422,+1.272			452.93635 Secs (452.936 Secs) [==>]	[1]
	10	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +1.422,+1.272			8.796873 Secs (8.797 Secs) [==>]	[1]
	11	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +2.844,+2.544			8.796873 Secs (8.797 Secs) [==>]	[1]
	12	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +4.266,+3.816			8.796873 Secs (8.797 Secs) [==>]	[1]
	13	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +5.688,+5.088			8.796873 Secs (8.797 Secs) [==>]	[1]
14	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +7.110,+6.360			8.796873 Secs (8.797 Secs) [==>]	[1]	



Proposal 15889 - SN2019NP-FIELD (59) - Supernovae in the Infrared avec Hubble

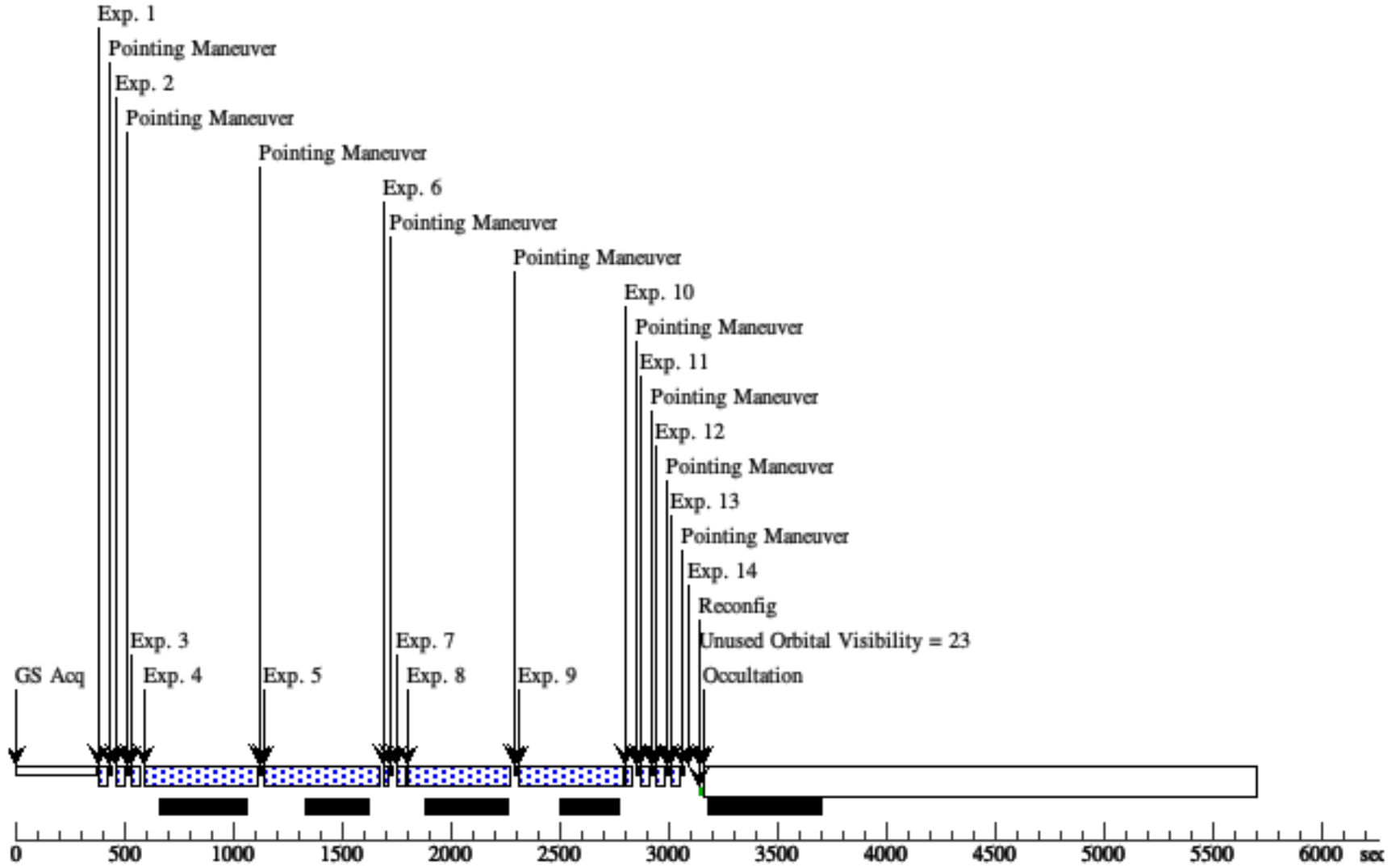
Visit	Proposal 15889, SN2019NP-FIELD (59), scheduling Tue Sep 22 14:02:27 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 186D TO 236 D					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(53)		SN2019NP-FIELD	RA: 10 29 21.0401 (157.3376671d) Dec: +29 30 15.09 (29.50419d) Equinox: J2000		V=15.0+/-1.0	Reference Frame: ICRS
Comments: Category=STAR Description=[UNDESIGNATED]						

Proposal 15889 - SN2019NP-FIELD (59) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -5.688,-5.088; GS ACQ SCENARIO BASE1B3	14.661455 Secs (14.661 Secs)	[1]		
	2	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -4.266,-3.816	14.661455 Secs (14.661 Secs)	[1]		
	3	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -2.844,-2.544	11.729164 Secs (11.729 Secs)	[1]		
	4	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG -2.844,-2.544	502.936801 Secs (502.937 Secs)	[1]		
	5	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPARS50	POS TARG -1.422,-1.272	502.936801 Secs (502.937 Secs)	[1]		
	6	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -1.422,-1.272	11.729164 Secs (11.729 Secs)	[1]		
	7	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG 0.000,0.000	8.796873 Secs (8.797 Secs)	[1]		
	8	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPARS50	POS TARG 0.000,0.000	452.93635 Secs (452.936 Secs)	[1]		
	9	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPARS50	POS TARG +1.422,+1.272	452.93635 Secs (452.936 Secs)	[1]		
	10	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +1.422,+1.272	8.796873 Secs (8.797 Secs)	[1]		
	11	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +2.844,+2.544	8.796873 Secs (8.797 Secs)	[1]		
	12	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +4.266,+3.816	8.796873 Secs (8.797 Secs)	[1]		
	13	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +5.688,+5.088	8.796873 Secs (8.797 Secs)	[1]		
14	(53) SN2019NP-FIE LD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +7.110,+6.360	8.796873 Secs (8.797 Secs)	[1]			

Orbit Structure

Orbit 1



Proposal 15889 - TOO-SN-01-EPOCH1 (20) - Supernovae in the Infrared avec Hubble

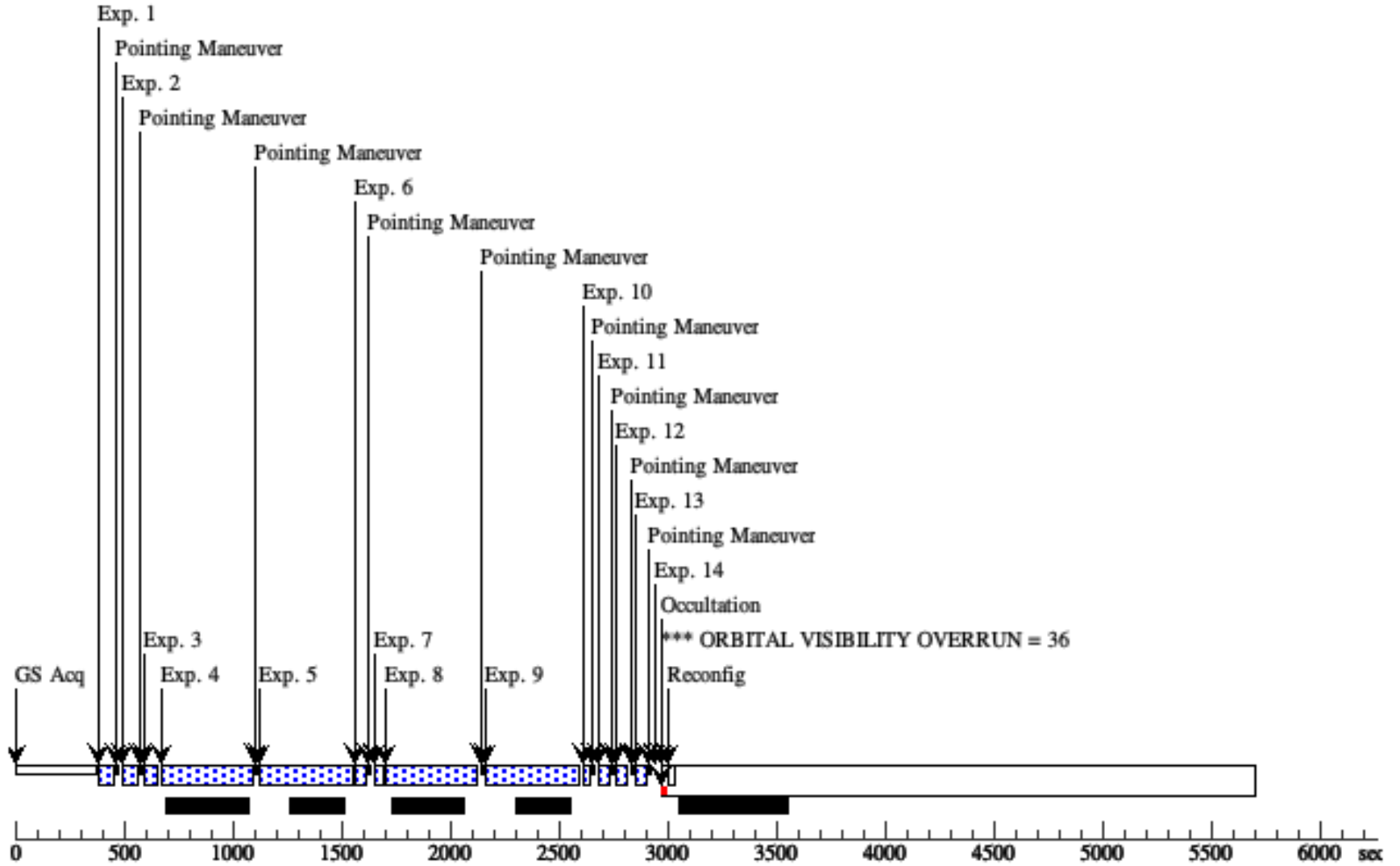
Visit	Proposal 15889, TOO-SN-01-EPOCH1 (20), completed Tue Sep 22 14:02:27 GMT 2020 Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: BEFORE 24-FEB-2020:00:00:00; ON HOLD ; TOO RESPONSE TIME 21.0D; VISIBILITY INTERVAL 49.5 M <i>On Hold Comments: Target of opportunity</i>																						
	Diagnosics (TOO-SN-01-EPOCH1 (20)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																						
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(72)</td> <td>SN2020BPI</td> <td>RA: 13 23 26.1940 (200.8591417d)</td> <td></td> <td>V=18.0+/-1.0</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: ZTF20AAKYOEZ</td> <td>Dec: +62 26 38.83 (62.44412d) Equinox: J2000</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(72)	SN2020BPI	RA: 13 23 26.1940 (200.8591417d)		V=18.0+/-1.0	Reference Frame: ICRS		Alt Name1: ZTF20AAKYOEZ	Dec: +62 26 38.83 (62.44412d) Equinox: J2000			
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																	
(72)	SN2020BPI	RA: 13 23 26.1940 (200.8591417d)		V=18.0+/-1.0	Reference Frame: ICRS																		
	Alt Name1: ZTF20AAKYOEZ	Dec: +62 26 38.83 (62.44412d) Equinox: J2000																					
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]																							

Proposal 15889 - TOO-SN-01-EPOCH1 (20) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH1 (20)	42.936143 Secs (42.936 Secs) [==>]	[1]
	2		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH1 (20)	42.936143 Secs (42.936 Secs) [==>]	[1]
	3		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH1 (20)	32.93518 Secs (32.935 Secs) [==>]	[1]
	4		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH1 (20)	402.935899 Secs (402.936 Secs) [==>]	[1]
	5		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH1 (20)	402.935899 Secs (402.936 Secs) [==>]	[1]
	6		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH1 (20)	32.93518 Secs (32.935 Secs) [==>]	[1]
	7		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=2; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH1 (20)	12.933254 Secs (12.933 Secs) [==>]	[1]
	8		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH1 (20)	402.935899 Secs (402.936 Secs) [==>]	[1]
	9		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH1 (20)	402.935899 Secs (402.936 Secs) [==>]	[1]
	10		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=2; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH1 (20)	12.933254 Secs (12.933 Secs) [==>]	[1]
	11		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH1 (20)	22.934217 Secs (22.934 Secs) [==>]	[1]
	12		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH1 (20)	22.934217 Secs (22.934 Secs) [==>]	[1]
	13		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH1 (20)	22.934217 Secs (22.934 Secs) [==>]	[1]
14		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH1 (20)	22.934217 Secs (22.934 Secs) [==>]	[1]	

Orbit Structure

Orbit 1



Proposal 15889 - TOO-SN-01-EPOCH2 (21) - Supernovae in the Infrared avec Hubble

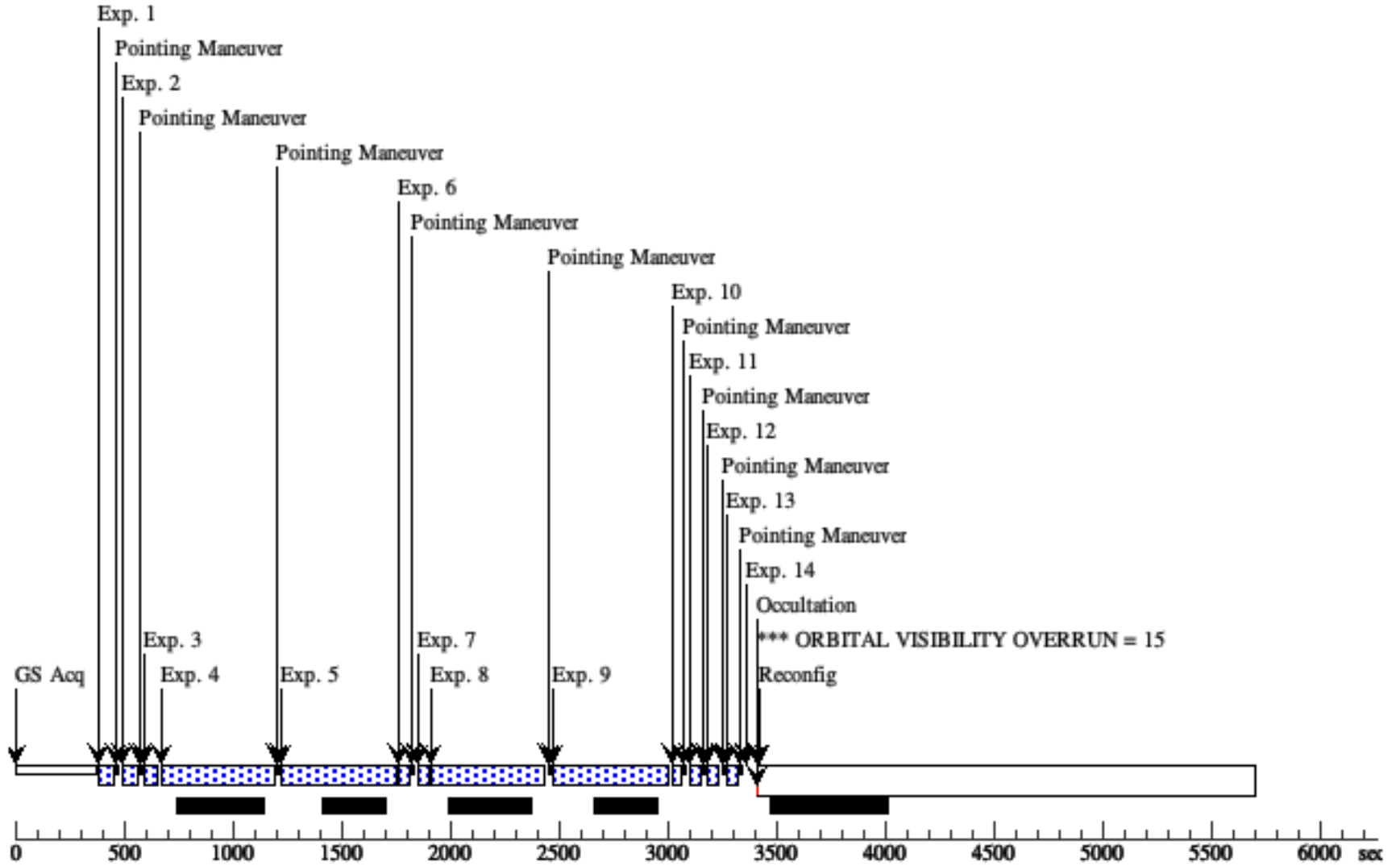
Visit	Proposal 15889, TOO-SN-01-EPOCH2 (21), completed Tue Sep 22 14:02:27 GMT 2020 Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ORIENT -13D TO 0D FROM 20; AFTER 20 BY 5.0 D TO 20.0 D; ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity 2nd epoch</i>																						
	Diagnosics (TOO-SN-01-EPOCH2 (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																						
Fixed Targets	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">#</th> <th style="width: 20%;">Name</th> <th style="width: 25%;">Target Coordinates</th> <th style="width: 20%;">Targ. Coord. Corrections</th> <th style="width: 10%;">Fluxes</th> <th style="width: 20%;">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(72)</td> <td>SN2020BPI</td> <td>RA: 13 23 26.1940 (200.8591417d)</td> <td></td> <td>V=18.0+/-1.0</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: ZTF20AAKYOEZ</td> <td>Dec: +62 26 38.83 (62.44412d) Equinox: J2000</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(72)	SN2020BPI	RA: 13 23 26.1940 (200.8591417d)		V=18.0+/-1.0	Reference Frame: ICRS		Alt Name1: ZTF20AAKYOEZ	Dec: +62 26 38.83 (62.44412d) Equinox: J2000			
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																	
(72)	SN2020BPI	RA: 13 23 26.1940 (200.8591417d)		V=18.0+/-1.0	Reference Frame: ICRS																		
	Alt Name1: ZTF20AAKYOEZ	Dec: +62 26 38.83 (62.44412d) Equinox: J2000																					
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]																							

Proposal 15889 - TOO-SN-01-EPOCH2 (21) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH2 (21)	42.936143 Secs (42.936 Secs) [==>]	[1]
	2		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH2 (21)	42.936143 Secs (42.936 Secs) [==>]	[1]
	3		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH2 (21)	32.93518 Secs (32.935 Secs) [==>]	[1]
	4		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH2 (21)	502.936801 Secs (502.937 Secs) [==>]	[1]
	5		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH2 (21)	502.936801 Secs (502.937 Secs) [==>]	[1]
	6		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH2 (21)	32.93518 Secs (32.935 Secs) [==>]	[1]
	7		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH2 (21)	22.934217 Secs (22.934 Secs) [==>]	[1]
	8		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=11; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH2 (21)	502.936801 Secs (502.937 Secs) [==>]	[1]
	9		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=11; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH2 (21)	502.936801 Secs (502.937 Secs) [==>]	[1]
	10		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH2 (21)	22.934217 Secs (22.934 Secs) [==>]	[1]
	11		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH2 (21)	22.934217 Secs (22.934 Secs) [==>]	[1]
	12		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH2 (21)	22.934217 Secs (22.934 Secs) [==>]	[1]
	13		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH2 (21)	22.934217 Secs (22.934 Secs) [==>]	[1]
14		(72) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360	Sequence 1-14 Non-Int in TOO-SN-01-EPOCH2 (21)	22.934217 Secs (22.934 Secs) [==>]	[1]	

Orbit Structure

Orbit 1

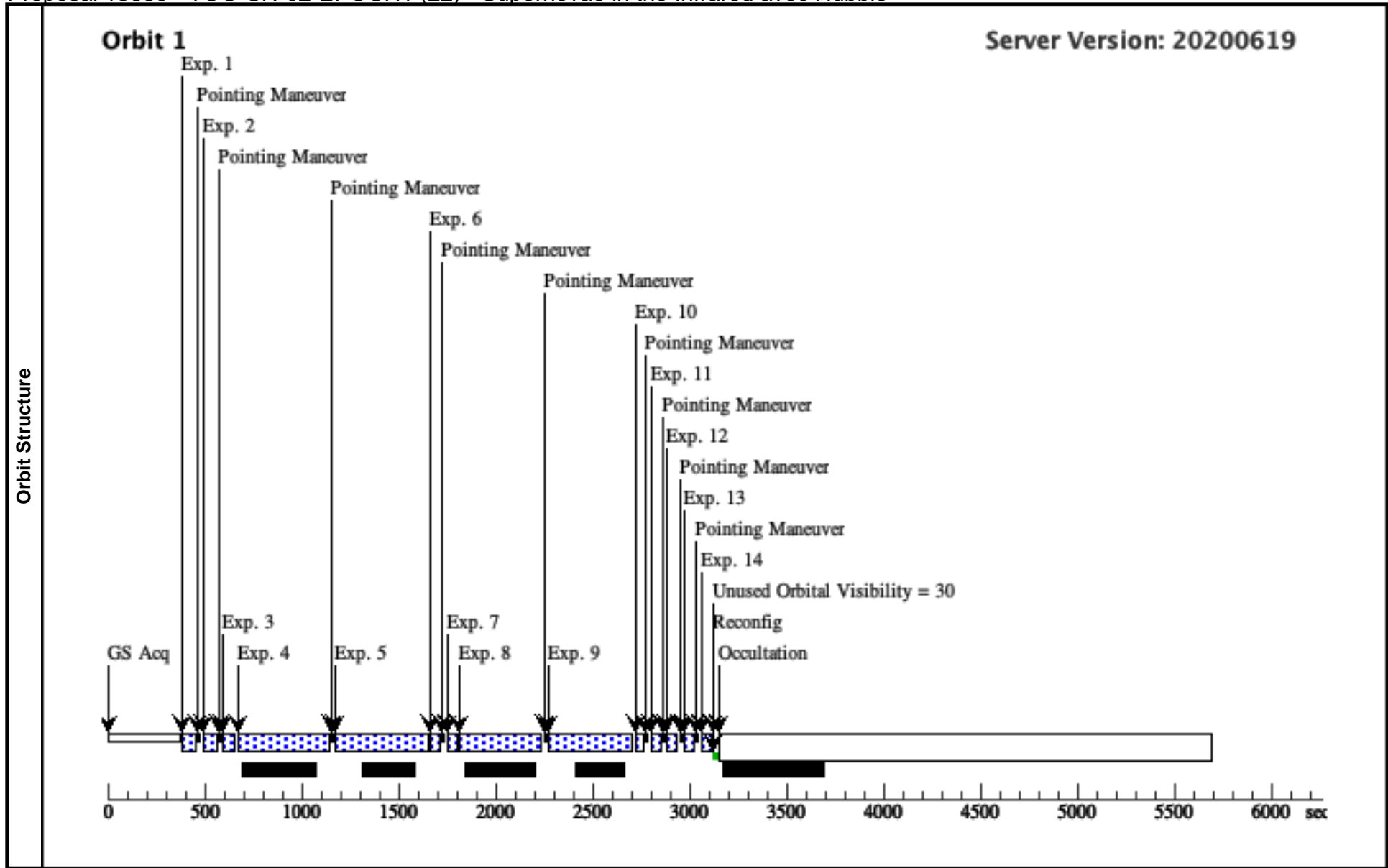


Proposal 15889 - TOO-SN-02-EPOCH1 (22) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, TOO-SN-02-EPOCH1 (22), completed Tue Sep 22 14:02:27 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(73)		SN2020DHJ Alt Name1: ZTF20AAQSHOZ	RA: 14 53 28.5408 (223.3689200d) Dec: +17 17 41.57 (17.29488d) Equinox: J2000		V=18.0+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]						

Proposal 15889 - TOO-SN-02-EPOCH1 (22) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088		42.936143 Secs (42.936 Secs) [==>]	[1]
	2		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816		42.936143 Secs (42.936 Secs) [==>]	[1]
	3		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544		32.93518 Secs (32.935 Secs) [==>]	[1]
	4		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544		452.93635 Secs (452.936 Secs) [==>]	[1]
	5		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272		452.93635 Secs (452.936 Secs) [==>]	[1]
	6		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272		32.93518 Secs (32.935 Secs) [==>]	[1]
	7		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000		22.934217 Secs (22.934 Secs) [==>]	[1]
	8		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000		402.935899 Secs (402.936 Secs) [==>]	[1]
	9		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272		402.935899 Secs (402.936 Secs) [==>]	[1]
	10		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272		22.934217 Secs (22.934 Secs) [==>]	[1]
	11		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544		22.934217 Secs (22.934 Secs) [==>]	[1]
	12		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816		22.934217 Secs (22.934 Secs) [==>]	[1]
	13		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088		22.934217 Secs (22.934 Secs) [==>]	[1]
14		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360		22.934217 Secs (22.934 Secs) [==>]	[1]	

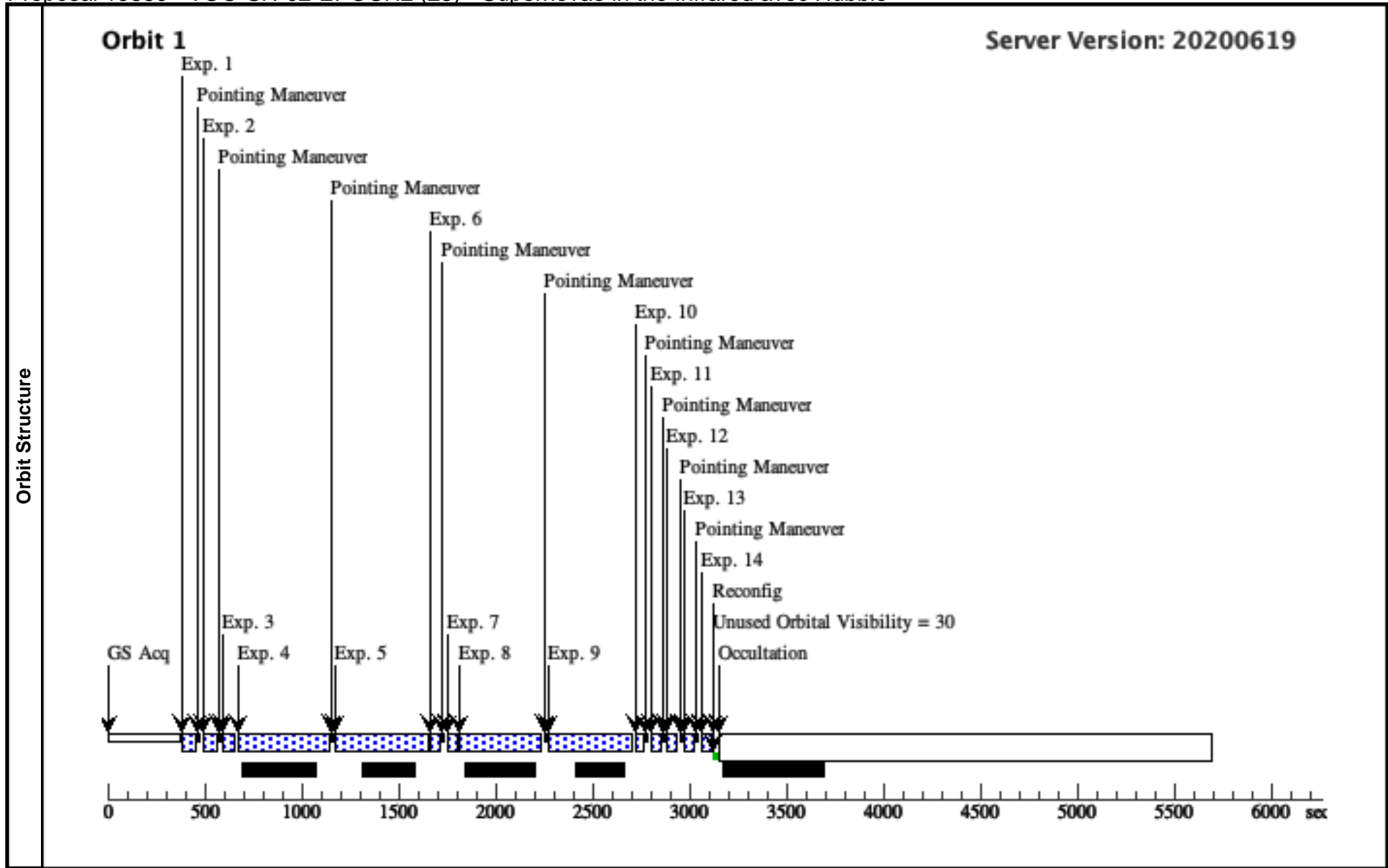


Proposal 15889 - TOO-SN-02-EPOCH2 (23) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, TOO-SN-02-EPOCH2 (23), completed Tue Sep 22 14:02:27 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 22; AFTER 22 BY 5.0 D TO 20.0 D; ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity 2nd epoch</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(73)		SN2020DHJ Alt Name1: ZTF20AAQSHOZ	RA: 14 53 28.5408 (223.3689200d) Dec: +17 17 41.57 (17.29488d) Equinox: J2000		V=18.0+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]						

Proposal 15889 - TOO-SN-02-EPOCH2 (23) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088		42.936143 Secs (42.936 Secs) [==>]	[1]
	2		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816		42.936143 Secs (42.936 Secs) [==>]	[1]
	3		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544		32.93518 Secs (32.935 Secs) [==>]	[1]
	4		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544		452.93635 Secs (452.936 Secs) [==>]	[1]
	5		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272		452.93635 Secs (452.936 Secs) [==>]	[1]
	6		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272		32.93518 Secs (32.935 Secs) [==>]	[1]
	7		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000		22.934217 Secs (22.934 Secs) [==>]	[1]
	8		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000		402.935899 Secs (402.936 Secs) [==>]	[1]
	9		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272		402.935899 Secs (402.936 Secs) [==>]	[1]
	10		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272		22.934217 Secs (22.934 Secs) [==>]	[1]
	11		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544		22.934217 Secs (22.934 Secs) [==>]	[1]
	12		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816		22.934217 Secs (22.934 Secs) [==>]	[1]
	13		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088		22.934217 Secs (22.934 Secs) [==>]	[1]
14		(73) SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360		22.934217 Secs (22.934 Secs) [==>]	[1]	

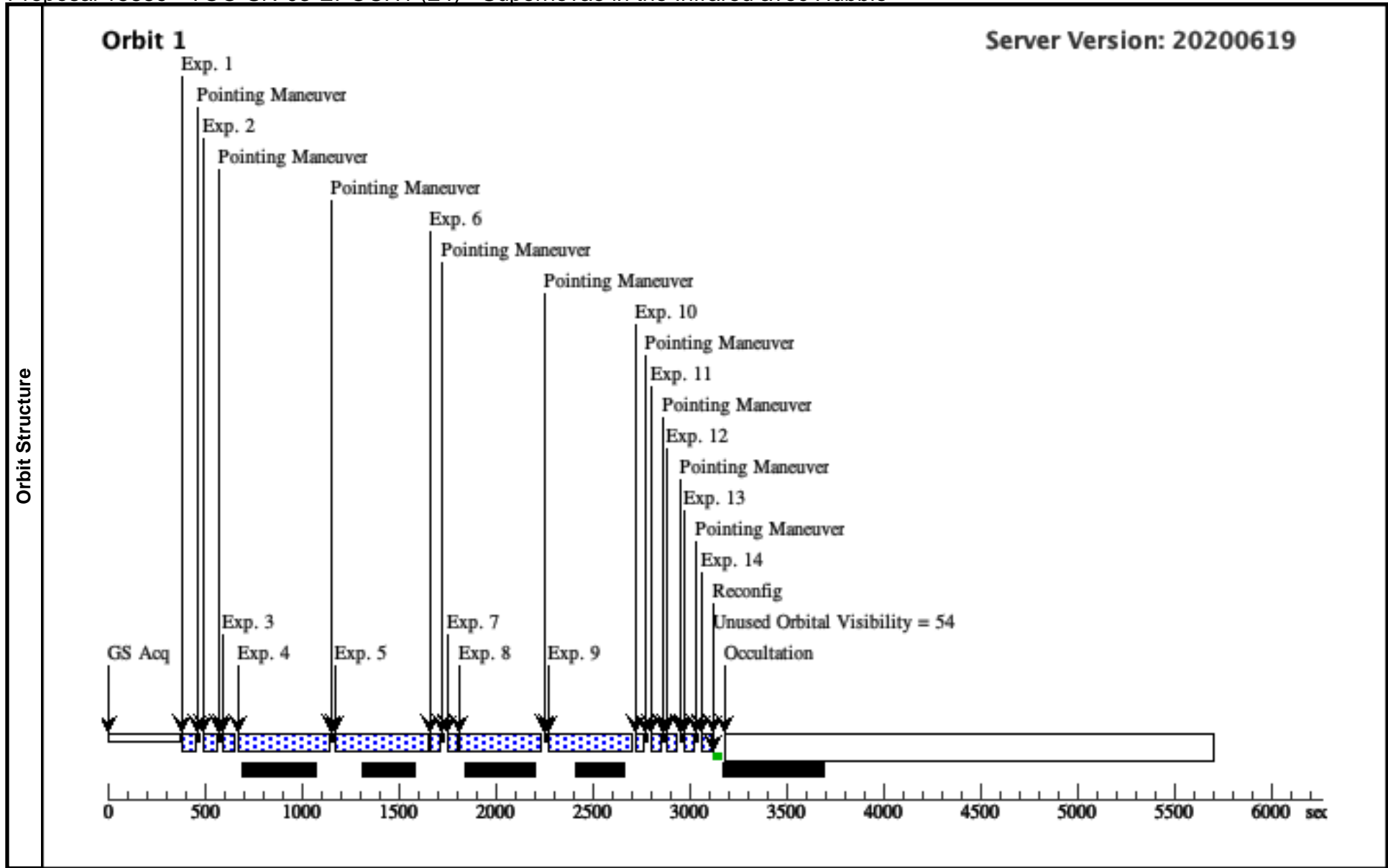


Proposal 15889 - TOO-SN-03-EPOCH1 (24) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, TOO-SN-03-EPOCH1 (24), completed Tue Sep 22 14:02:27 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(74)		SN2020EES Alt Name1: ATLAS20HMY	RA: 13 27 12.2917 (201.8012154d) Dec: +32 02 16.71 (32.03797d) Equinox: J2000		V=17.0+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]						

Proposal 15889 - TOO-SN-03-EPOCH1 (24) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088		42.936143 Secs (42.936 Secs) [==>]	[1]
	2		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816		42.936143 Secs (42.936 Secs) [==>]	[1]
	3		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544		32.93518 Secs (32.935 Secs) [==>]	[1]
	4		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544		452.93635 Secs (452.936 Secs) [==>]	[1]
	5		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272		452.93635 Secs (452.936 Secs) [==>]	[1]
	6		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272		32.93518 Secs (32.935 Secs) [==>]	[1]
	7		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000		22.934217 Secs (22.934 Secs) [==>]	[1]
	8		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000		402.935899 Secs (402.936 Secs) [==>]	[1]
	9		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272		402.935899 Secs (402.936 Secs) [==>]	[1]
	10		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272		22.934217 Secs (22.934 Secs) [==>]	[1]
	11		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544		22.934217 Secs (22.934 Secs) [==>]	[1]
	12		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816		22.934217 Secs (22.934 Secs) [==>]	[1]
	13		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088		22.934217 Secs (22.934 Secs) [==>]	[1]
14		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360		22.934217 Secs (22.934 Secs) [==>]	[1]	

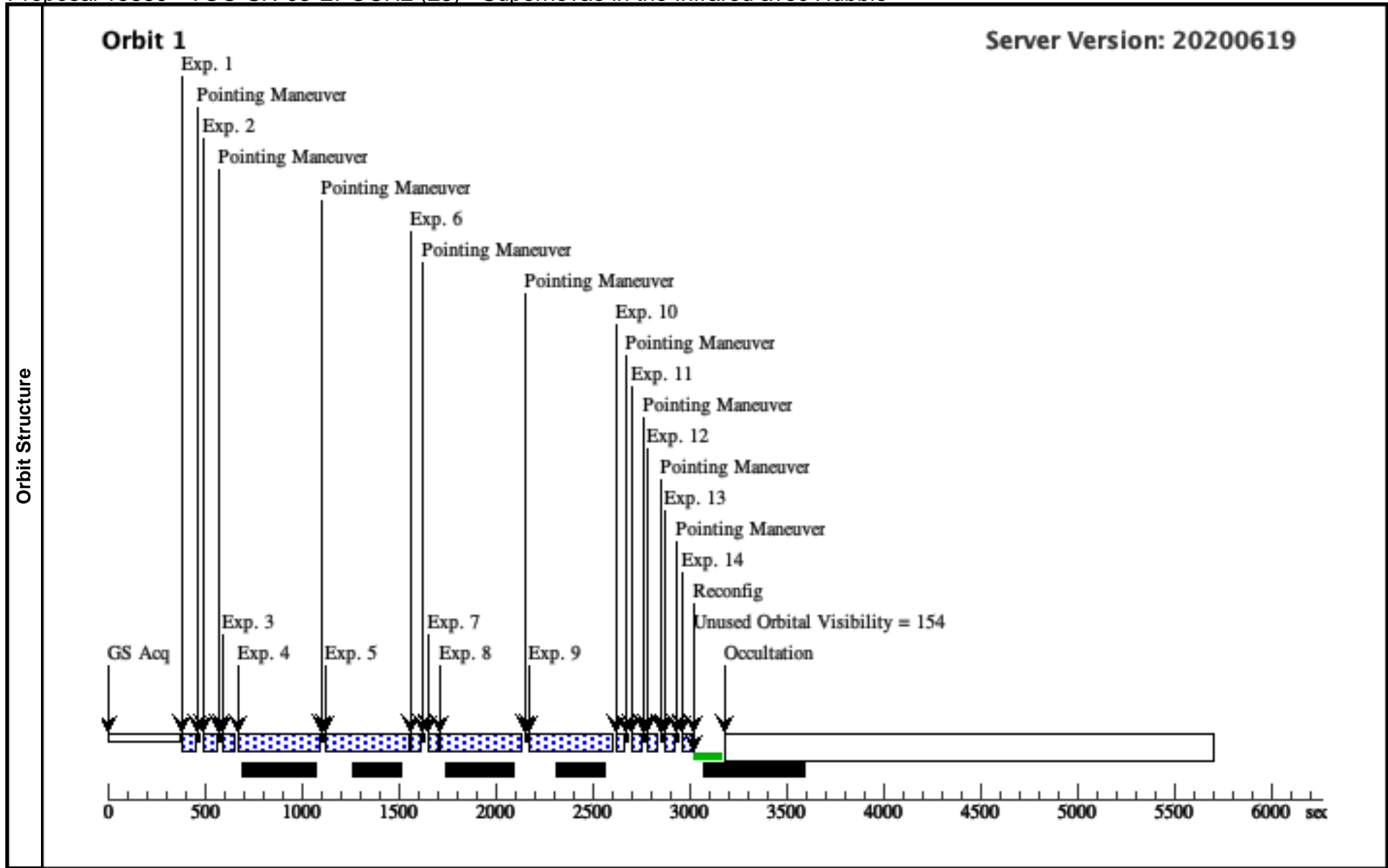


Proposal 15889 - TOO-SN-03-EPOCH2 (25) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, TOO-SN-03-EPOCH2 (25), completed Tue Sep 22 14:02:27 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 24; AFTER 24 BY 5.0 D TO 20.0 D; ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(74)		SN2020EES Alt Name1: ATLAS20HMY	RA: 13 27 12.2917 (201.8012154d) Dec: +32 02 16.71 (32.03797d) Equinox: J2000		V=17.0+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]						

Proposal 15889 - TOO-SN-03-EPOCH2 (25) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088		42.936143 Secs (42.936 Secs) [==>]	[1]
	2		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816		42.936143 Secs (42.936 Secs) [==>]	[1]
	3		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544		32.93518 Secs (32.935 Secs) [==>]	[1]
	4		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544		402.935899 Secs (402.936 Secs) [==>]	[1]
	5		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272		402.935899 Secs (402.936 Secs) [==>]	[1]
	6		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272		32.93518 Secs (32.935 Secs) [==>]	[1]
	7		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000		22.934217 Secs (22.934 Secs) [==>]	[1]
	8		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000		402.935899 Secs (402.936 Secs) [==>]	[1]
	9		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272		402.935899 Secs (402.936 Secs) [==>]	[1]
	10		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272		22.934217 Secs (22.934 Secs) [==>]	[1]
	11		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544		22.934217 Secs (22.934 Secs) [==>]	[1]
	12		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816		22.934217 Secs (22.934 Secs) [==>]	[1]
	13		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088		22.934217 Secs (22.934 Secs) [==>]	[1]
14		(74) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360		22.934217 Secs (22.934 Secs) [==>]	[1]	

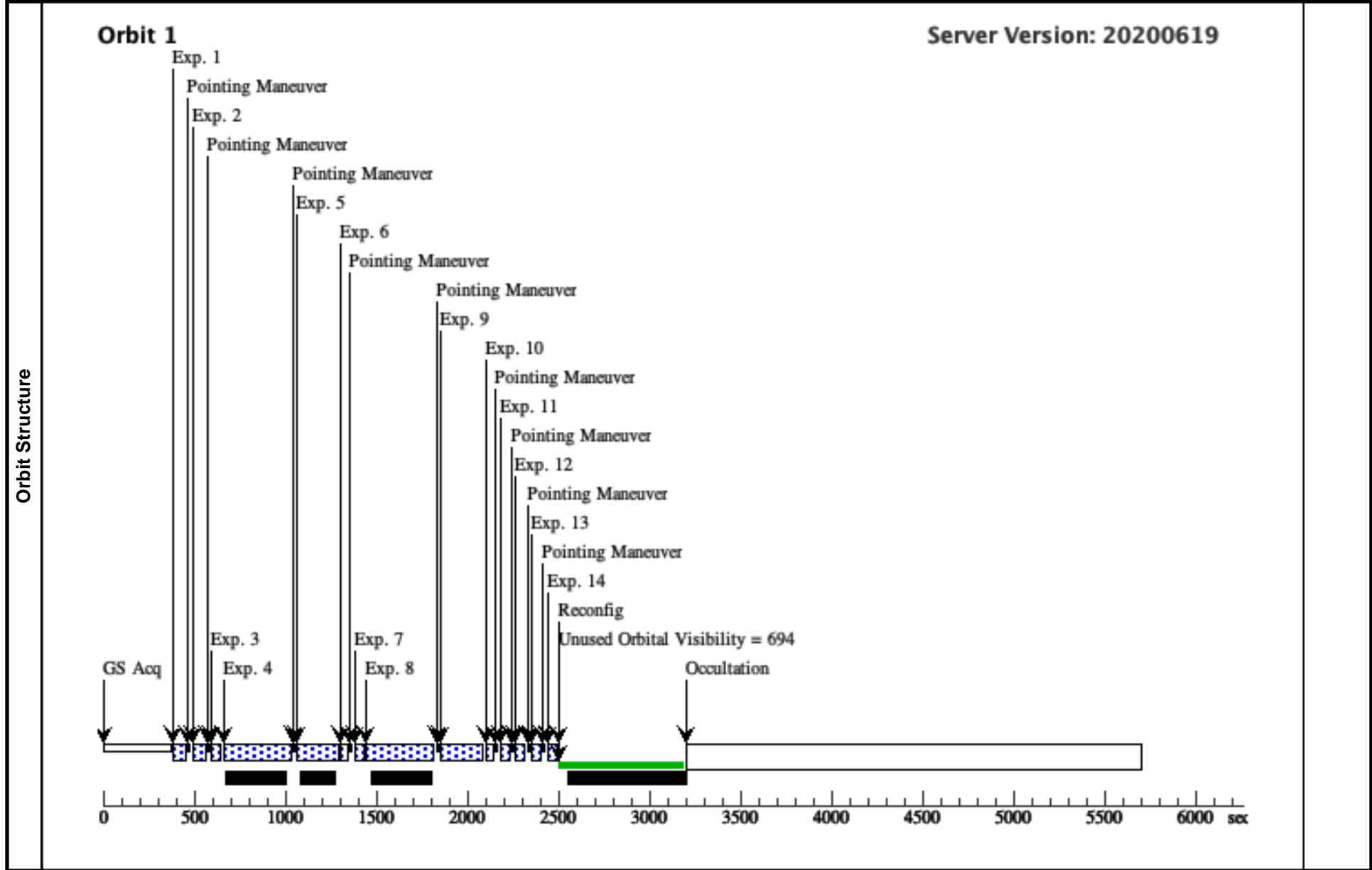


Proposal 15889 - TOO-SN-04-EPOCH1 (26) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, TOO-SN-04-EPOCH1 (26), completed Tue Sep 22 14:02:27 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(75)		SN2020FXA Alt Name1: ZTF20AAUOWAM	RA: 15 34 32.7491 (233.6364546d) Dec: +37 31 38.12 (37.52726d) Equinox: J2000		V=18.5+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category= <i>EXT-STAR</i> Description= <i>[SUPERNOVA TYPE IA]</i>						

Proposal 15889 - TOO-SN-04-EPOCH1 (26) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088	42.936143 Secs (42.936 Secs)	[==>]	[1]	
	2	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816	42.936143 Secs (42.936 Secs)	[==>]	[1]	
	3	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	4	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544	352.935448 Secs (352.935 Secs)	[==>]	[1]	
	5	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272	202.934095 Secs (202.934 Secs)	[==>]	[1]	
	6	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	7	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	8	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000	352.935448 Secs (352.935 Secs)	[==>]	[1]	
	9	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272	202.934095 Secs (202.934 Secs)	[==>]	[1]	
	10	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	11	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	12	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	13	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088	22.934217 Secs (22.934 Secs)	[==>]	[1]	
14	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360	22.934217 Secs (22.934 Secs)	[==>]	[1]		



Proposal 15889 - TOO-SN-04-EPOCH2 (27) - Supernovae in the Infrared avec Hubble

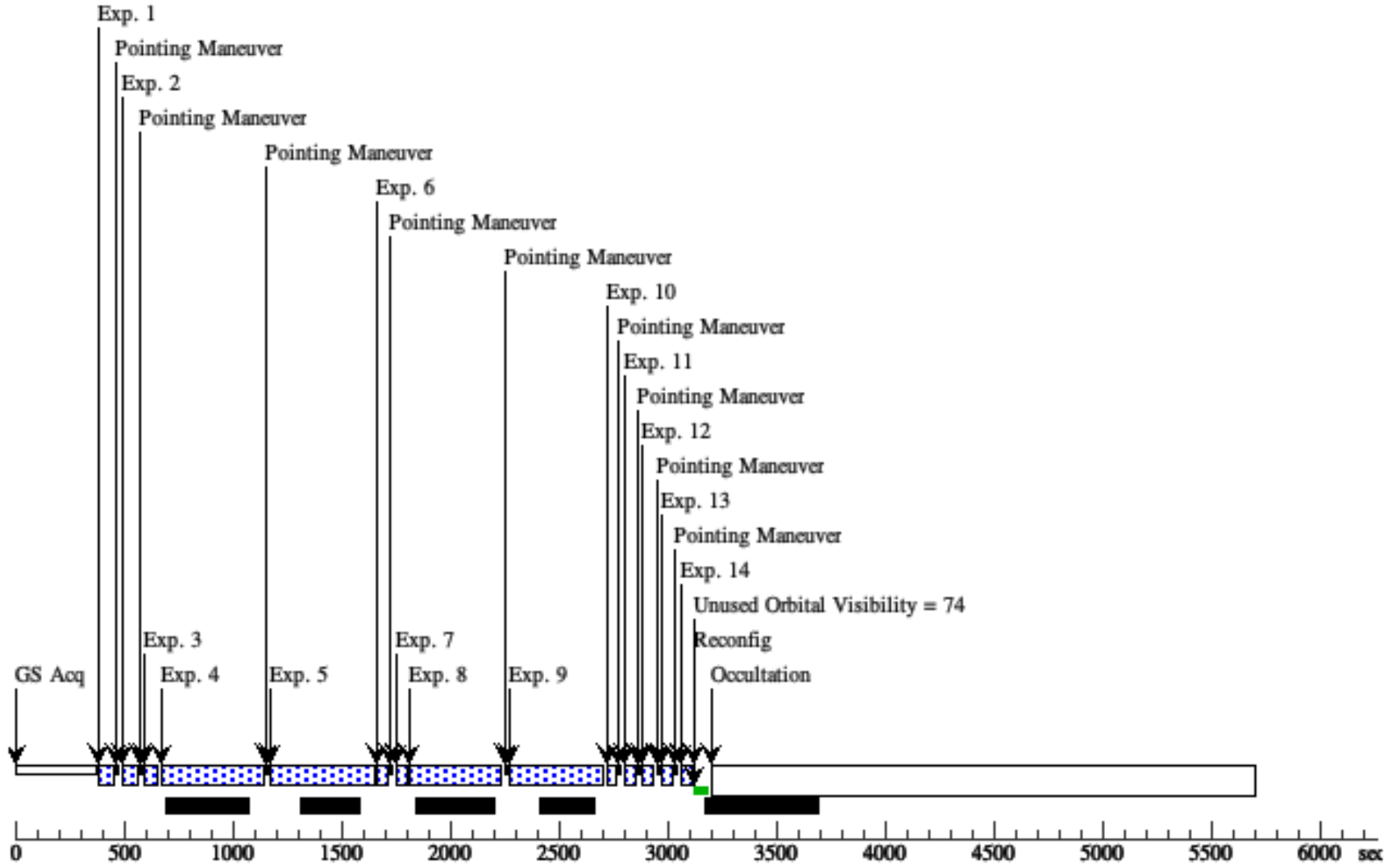
Visit	Proposal 15889, TOO-SN-04-EPOCH2 (27), completed Tue Sep 22 14:02:27 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 26; AFTER 26 BY 5.0 D TO 20.0 D; ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(75)		SN2020FXA Alt Name1: ZTF20AAUOWAM	RA: 15 34 32.7491 (233.6364546d) Dec: +37 31 38.12 (37.52726d) Equinox: J2000		V=18.5+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]						

Proposal 15889 - TOO-SN-04-EPOCH2 (27) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088	42.936143 Secs (42.936 Secs)	[==>]	[1]	
	2	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816	42.936143 Secs (42.936 Secs)	[==>]	[1]	
	3	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544	32.93518 Secs (32.935 Secs)	[==>]	[1]	
	4	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544	452.93635 Secs (452.936 Secs)	[==>]	[1]	
	5	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272	452.93635 Secs (452.936 Secs)	[==>]	[1]	
	6	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272	32.93518 Secs (32.935 Secs)	[==>]	[1]	
	7	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	8	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000	402.935899 Secs (402.936 Secs)	[==>]	[1]	
	9	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272	402.935899 Secs (402.936 Secs)	[==>]	[1]	
	10	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	11	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	12	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	13	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088	22.934217 Secs (22.934 Secs)	[==>]	[1]	
14	(75) SN2020FXA	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360	22.934217 Secs (22.934 Secs)	[==>]	[1]		

Orbit Structure

Orbit 1

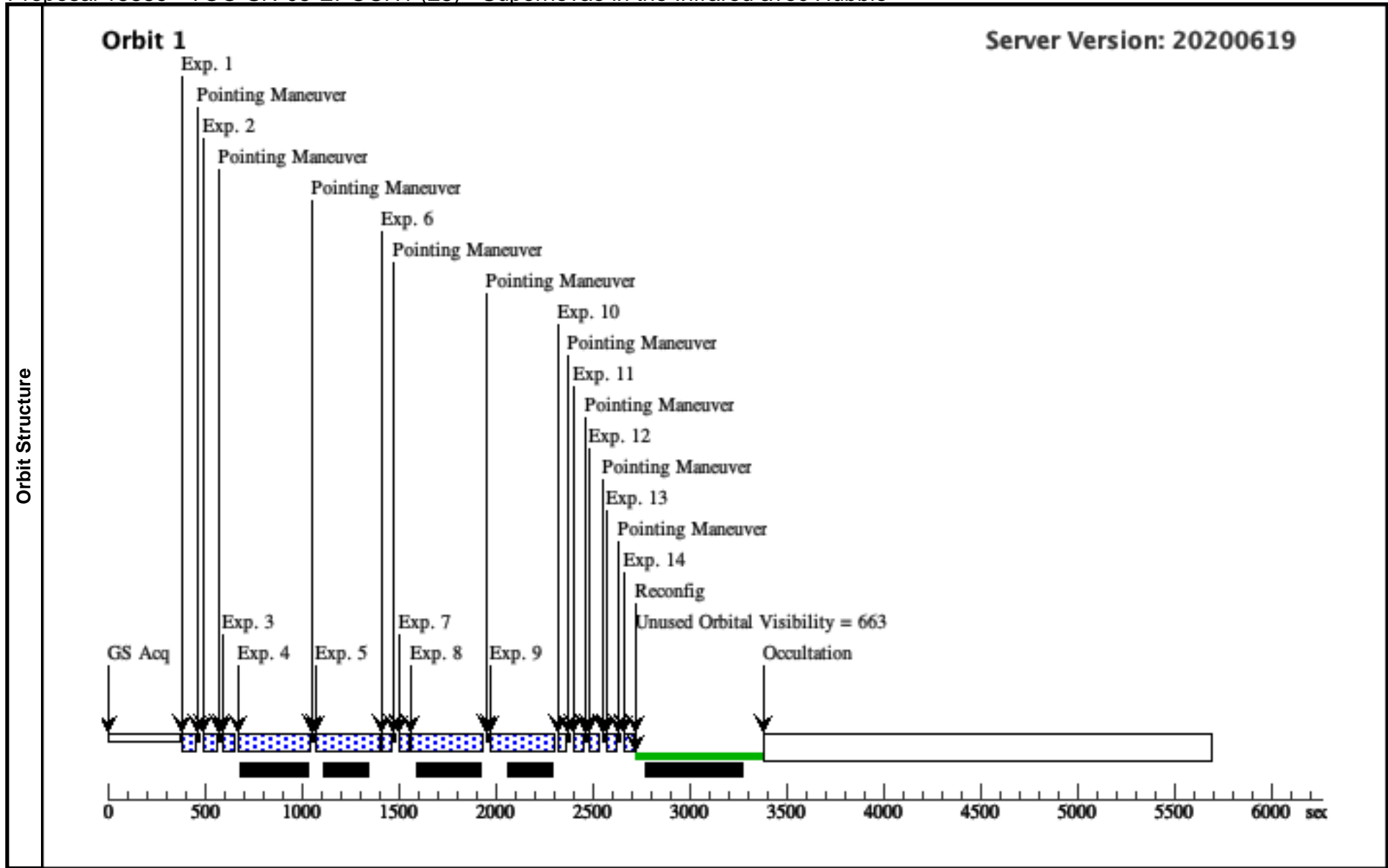


Proposal 15889 - TOO-SN-05-EPOCH1 (28) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, TOO-SN-05-EPOCH1 (28), failed Tue Sep 22 14:02:27 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(76)		SN2020JDO Alt Name1: ZTF20AAYJYHP	RA: 18 15 44.7622 (273.9365092d) Dec: +58 12 54.13 (58.21504d) Equinox: J2000		V=18.5+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA]						

Proposal 15889 - TOO-SN-05-EPOCH1 (28) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(76) SN2020JDO	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088		42.936143 Secs (42.936 Secs) [==>]	[1]
	2		(76) SN2020JDO	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816		42.936143 Secs (42.936 Secs) [==>]	[1]
	3		(76) SN2020JDO	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544		32.93518 Secs (32.935 Secs) [==>]	[1]
	4		(76) SN2020JDO	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544		352.935448 Secs (352.935 Secs) [==>]	[1]
	5		(76) SN2020JDO	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=7; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272		302.934997 Secs (302.935 Secs) [==>]	[1]
	6		(76) SN2020JDO	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272		32.93518 Secs (32.935 Secs) [==>]	[1]
	7		(76) SN2020JDO	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000		22.934217 Secs (22.934 Secs) [==>]	[1]
	8		(76) SN2020JDO	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000		352.935448 Secs (352.935 Secs) [==>]	[1]
	9		(76) SN2020JDO	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=7; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272		302.934997 Secs (302.935 Secs) [==>]	[1]
	10		(76) SN2020JDO	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272		22.934217 Secs (22.934 Secs) [==>]	[1]
	11		(76) SN2020JDO	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544		22.934217 Secs (22.934 Secs) [==>]	[1]
	12		(76) SN2020JDO	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816		22.934217 Secs (22.934 Secs) [==>]	[1]
	13		(76) SN2020JDO	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088		22.934217 Secs (22.934 Secs) [==>]	[1]
14		(76) SN2020JDO	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360		22.934217 Secs (22.934 Secs) [==>]	[1]	



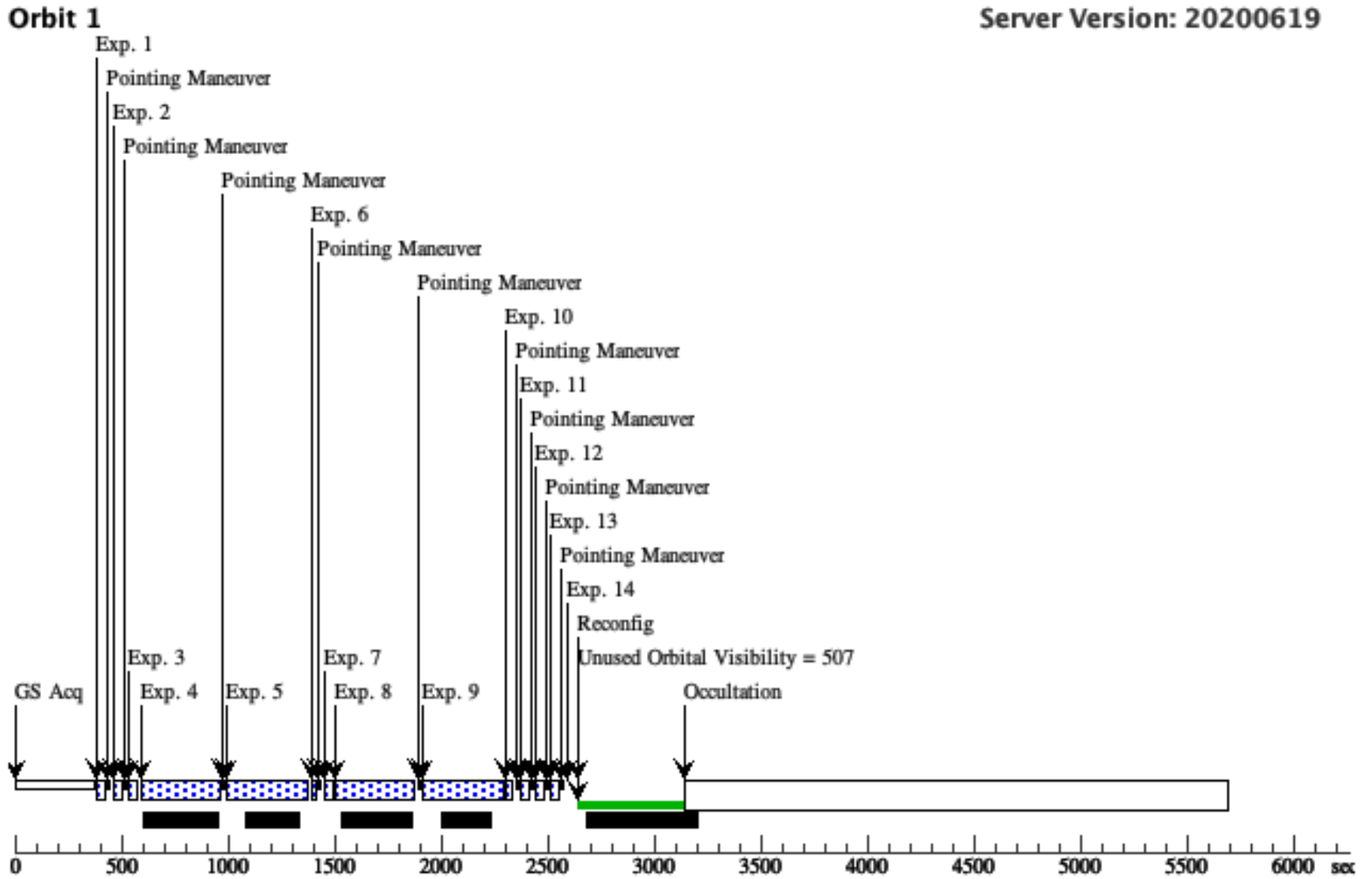
Proposal 15889 - TOO-SN-06-EPOCH1 (30) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, TOO-SN-06-EPOCH1 (30), completed Tue Sep 22 14:02:27 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(77)		SN2020JGL Alt Name1: ATLAS20LTI	RA: 09 28 58.5711 (142.2440462d) Dec: -14 48 16.04 (-14.80446d) Equinox: J2000		V=13.5+/-0.5	Reference Frame: ICRS
<i>Comments:</i> Category= <i>EXT-STAR</i> Description= <i>[SUPERNOVA TYPE IA]</i>						

Proposal 15889 - TOO-SN-06-EPOCH1 (30) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -5.688,-5.088		14.661455 Secs (14.661 Secs) [==>]	[1]
	2		(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -4.266,-3.816		14.661455 Secs (14.661 Secs) [==>]	[1]
	3		(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -2.844,-2.544		11.729164 Secs (11.729 Secs) [==>]	[1]
	4		(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=8; SAMP-SEQ=SPARS50	POS TARG -2.844,-2.544		352.935448 Secs (352.935 Secs) [==>]	[1]
	5		(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=8; SAMP-SEQ=SPARS50	POS TARG -1.422,-1.272		352.935448 Secs (352.935 Secs) [==>]	[1]
	6		(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -1.422,-1.272		11.729164 Secs (11.729 Secs) [==>]	[1]
	7		(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG 0.000,0.000		8.796873 Secs (8.797 Secs) [==>]	[1]
	8		(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=8; SAMP-SEQ=SPARS50	POS TARG 0.000,0.000		352.935448 Secs (352.935 Secs) [==>]	[1]
	9		(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=8; SAMP-SEQ=SPARS50	POS TARG +1.422,+1.272		352.935448 Secs (352.935 Secs) [==>]	[1]
	10		(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +1.422,+1.272		8.796873 Secs (8.797 Secs) [==>]	[1]
	11		(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +2.844,+2.544		8.796873 Secs (8.797 Secs) [==>]	[1]
	12		(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +4.266,+3.816		8.796873 Secs (8.797 Secs) [==>]	[1]
	13		(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +5.688,+5.088		8.796873 Secs (8.797 Secs) [==>]	[1]
14		(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +7.110,+6.360		8.796873 Secs (8.797 Secs) [==>]	[1]	

Orbit Structure



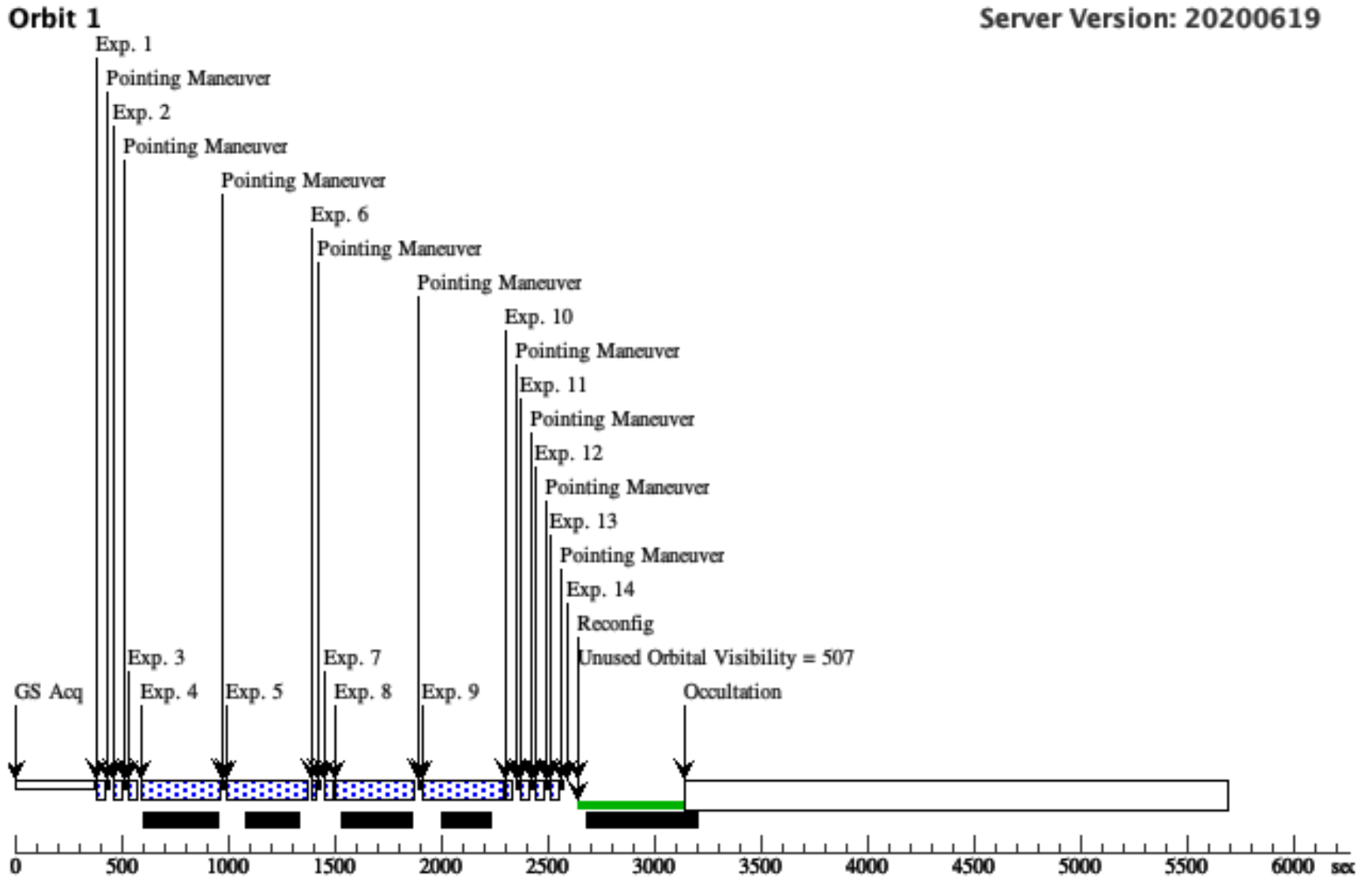
Proposal 15889 - TOO-SN-06-EPOCH2 (31) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, TOO-SN-06-EPOCH2 (31), completed Tue Sep 22 14:02:27 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 30; AFTER 30 BY 5.0 D TO 20.0 D; ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(77)		SN2020JGL Alt Name1: ATLAS20LTI	RA: 09 28 58.5711 (142.2440462d) Dec: -14 48 16.04 (-14.80446d) Equinox: J2000		V=13.5+/-0.5	Reference Frame: ICRS
<i>Comments:</i> Category= <i>EXT-STAR</i> Description= <i>[SUPERNOVA TYPE IA]</i>						

Proposal 15889 - TOO-SN-06-EPOCH2 (31) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -5.688,-5.088			14.661455 Secs (14.661 Secs)	[1]
	2	(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=RAPID	POS TARG -4.266,-3.816			14.661455 Secs (14.661 Secs)	[1]
	3	(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -2.844,-2.544			11.729164 Secs (11.729 Secs)	[1]
	4	(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=8; SAMP-SEQ=SPARS50	POS TARG -2.844,-2.544			352.935448 Secs (352.935 Secs)	[1]
	5	(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=8; SAMP-SEQ=SPARS50	POS TARG -1.422,-1.272			352.935448 Secs (352.935 Secs)	[1]
	6	(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=RAPID	POS TARG -1.422,-1.272			11.729164 Secs (11.729 Secs)	[1]
	7	(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG 0.000,0.000			8.796873 Secs (8.797 Secs)	[1]
	8	(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=8; SAMP-SEQ=SPARS50	POS TARG 0.000,0.000			352.935448 Secs (352.935 Secs)	[1]
	9	(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=8; SAMP-SEQ=SPARS50	POS TARG +1.422,+1.272			352.935448 Secs (352.935 Secs)	[1]
	10	(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +1.422,+1.272			8.796873 Secs (8.797 Secs)	[1]
	11	(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +2.844,+2.544			8.796873 Secs (8.797 Secs)	[1]
	12	(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +4.266,+3.816			8.796873 Secs (8.797 Secs)	[1]
	13	(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +5.688,+5.088			8.796873 Secs (8.797 Secs)	[1]
14	(77) SN2020JGL	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=RAPID	POS TARG +7.110,+6.360			8.796873 Secs (8.797 Secs)	[1]	

Orbit Structure

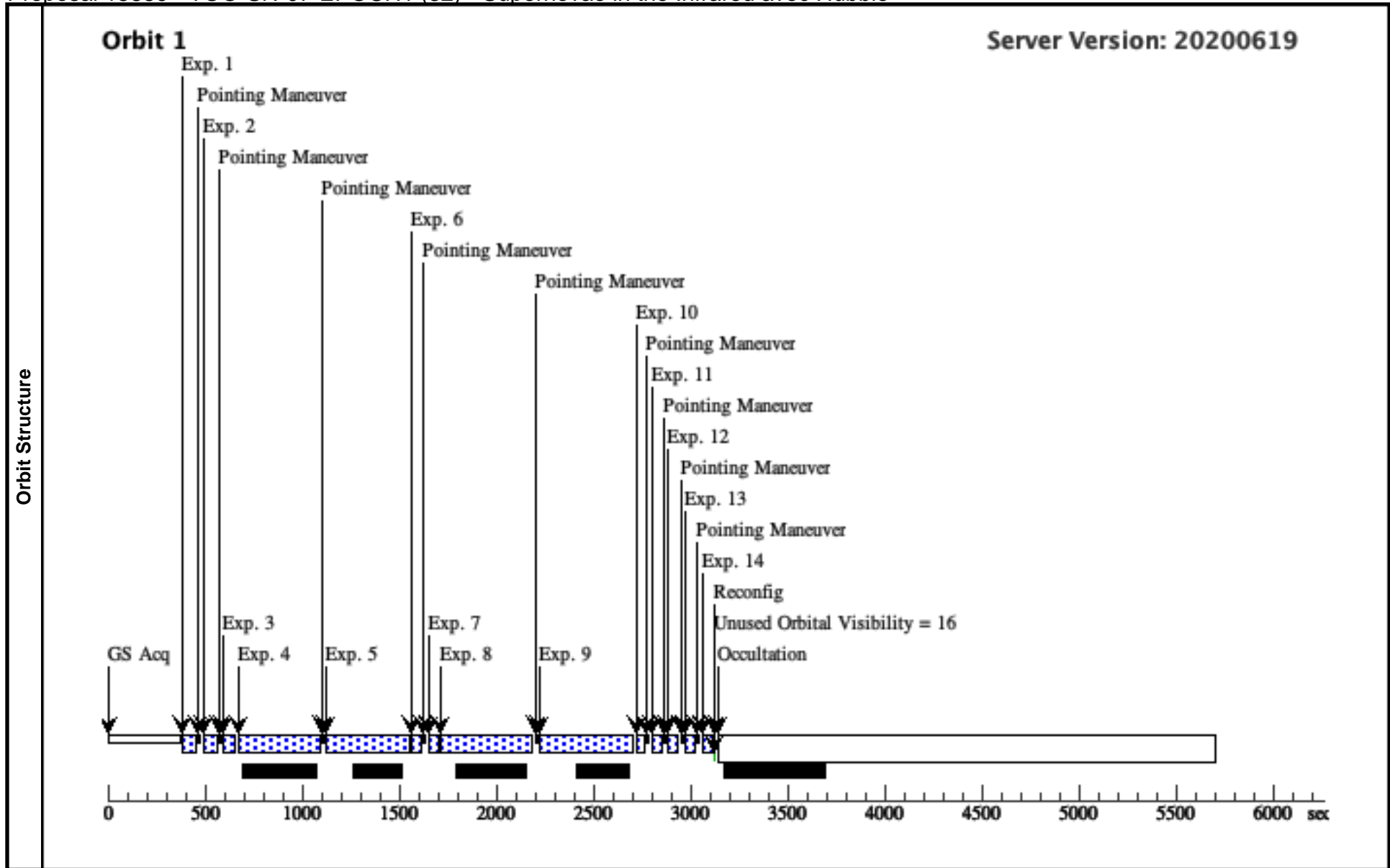


Proposal 15889 - TOO-SN-07-EPOCH1 (32) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, TOO-SN-07-EPOCH1 (32), completed Tue Sep 22 14:02:27 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(78)		SN2020KPX Alt Name1: ATLAS20NGG	RA: 15 38 9.4005 (234.5391687d) Dec: +04 47 0.21 (4.78339d) Equinox: J2000		V=16.0+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]						

Proposal 15889 - TOO-SN-07-EPOCH1 (32) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088		42.936143 Secs (42.936 Secs) [==>]	[1]
	2		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816		42.936143 Secs (42.936 Secs) [==>]	[1]
	3		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544		32.93518 Secs (32.935 Secs) [==>]	[1]
	4		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544		402.935899 Secs (402.936 Secs) [==>]	[1]
	5		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272		402.935899 Secs (402.936 Secs) [==>]	[1]
	6		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272		32.93518 Secs (32.935 Secs) [==>]	[1]
	7		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000		22.934217 Secs (22.934 Secs) [==>]	[1]
	8		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000		452.93635 Secs (452.936 Secs) [==>]	[1]
	9		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272		452.93635 Secs (452.936 Secs) [==>]	[1]
	10		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272		22.934217 Secs (22.934 Secs) [==>]	[1]
	11		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544		22.934217 Secs (22.934 Secs) [==>]	[1]
	12		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816		22.934217 Secs (22.934 Secs) [==>]	[1]
	13		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088		22.934217 Secs (22.934 Secs) [==>]	[1]
14		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360		22.934217 Secs (22.934 Secs) [==>]	[1]	



Proposal 15889 - TOO-SN-07-EPOCH2 (33) - Supernovae in the Infrared avec Hubble

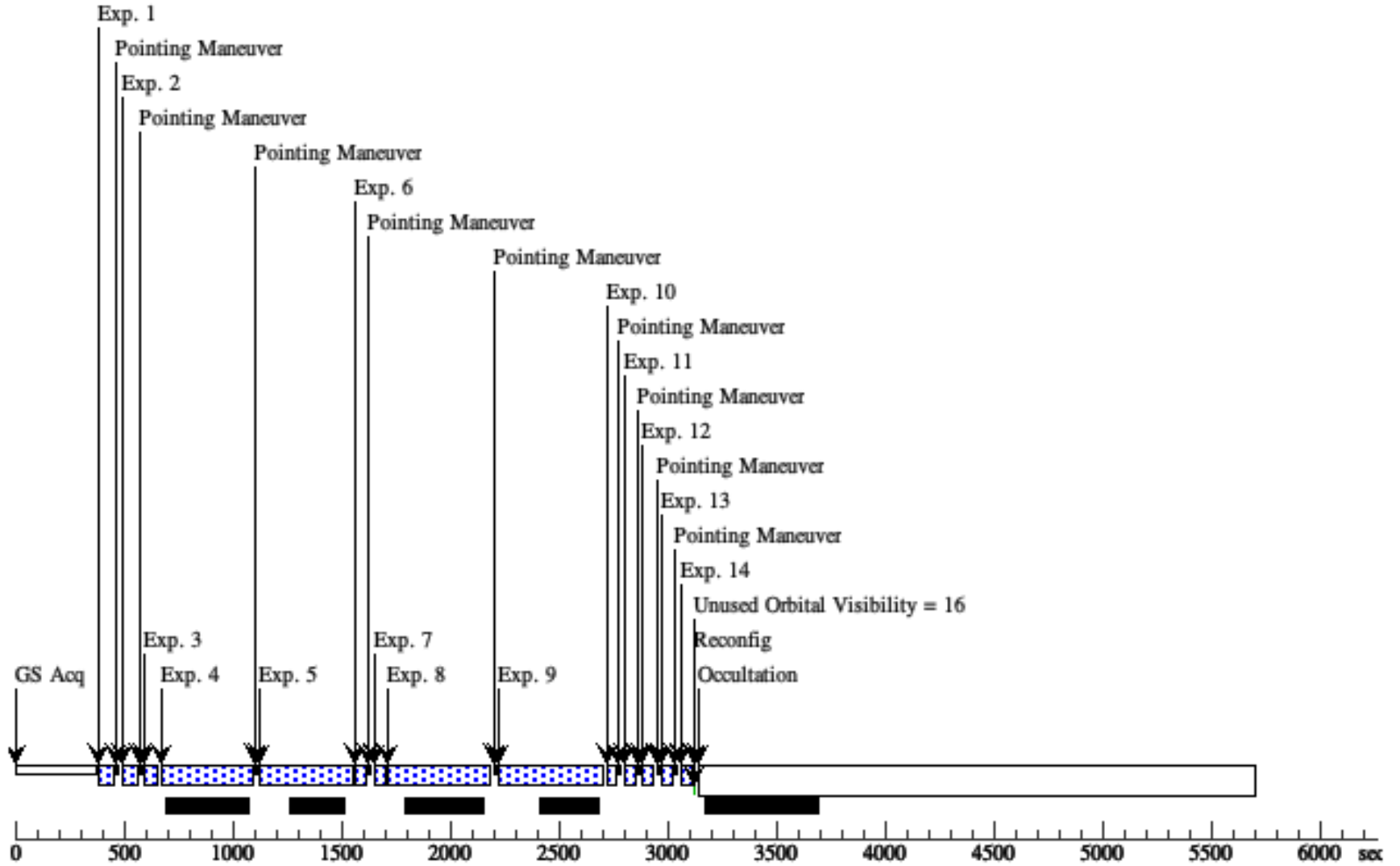
Visit	Proposal 15889, TOO-SN-07-EPOCH2 (33), completed Tue Sep 22 14:02:27 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 32; AFTER 32 BY 5.0 D TO 20.0 D; ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(78)		SN2020KPX Alt Name1: ATLAS20NGG	RA: 15 38 9.4005 (234.5391687d) Dec: +04 47 0.21 (4.78339d) Equinox: J2000		V=16.0+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]						

Proposal 15889 - TOO-SN-07-EPOCH2 (33) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088		42.936143 Secs (42.936 Secs) [==>]	[1]
	2		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816		42.936143 Secs (42.936 Secs) [==>]	[1]
	3		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544		32.93518 Secs (32.935 Secs) [==>]	[1]
	4		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544		402.935899 Secs (402.936 Secs) [==>]	[1]
	5		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272		402.935899 Secs (402.936 Secs) [==>]	[1]
	6		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272		32.93518 Secs (32.935 Secs) [==>]	[1]
	7		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000		22.934217 Secs (22.934 Secs) [==>]	[1]
	8		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000		452.93635 Secs (452.936 Secs) [==>]	[1]
	9		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272		452.93635 Secs (452.936 Secs) [==>]	[1]
	10		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272		22.934217 Secs (22.934 Secs) [==>]	[1]
	11		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544		22.934217 Secs (22.934 Secs) [==>]	[1]
	12		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816		22.934217 Secs (22.934 Secs) [==>]	[1]
	13		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088		22.934217 Secs (22.934 Secs) [==>]	[1]
14		(78) SN2020KPX	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360		22.934217 Secs (22.934 Secs) [==>]	[1]	

Orbit Structure

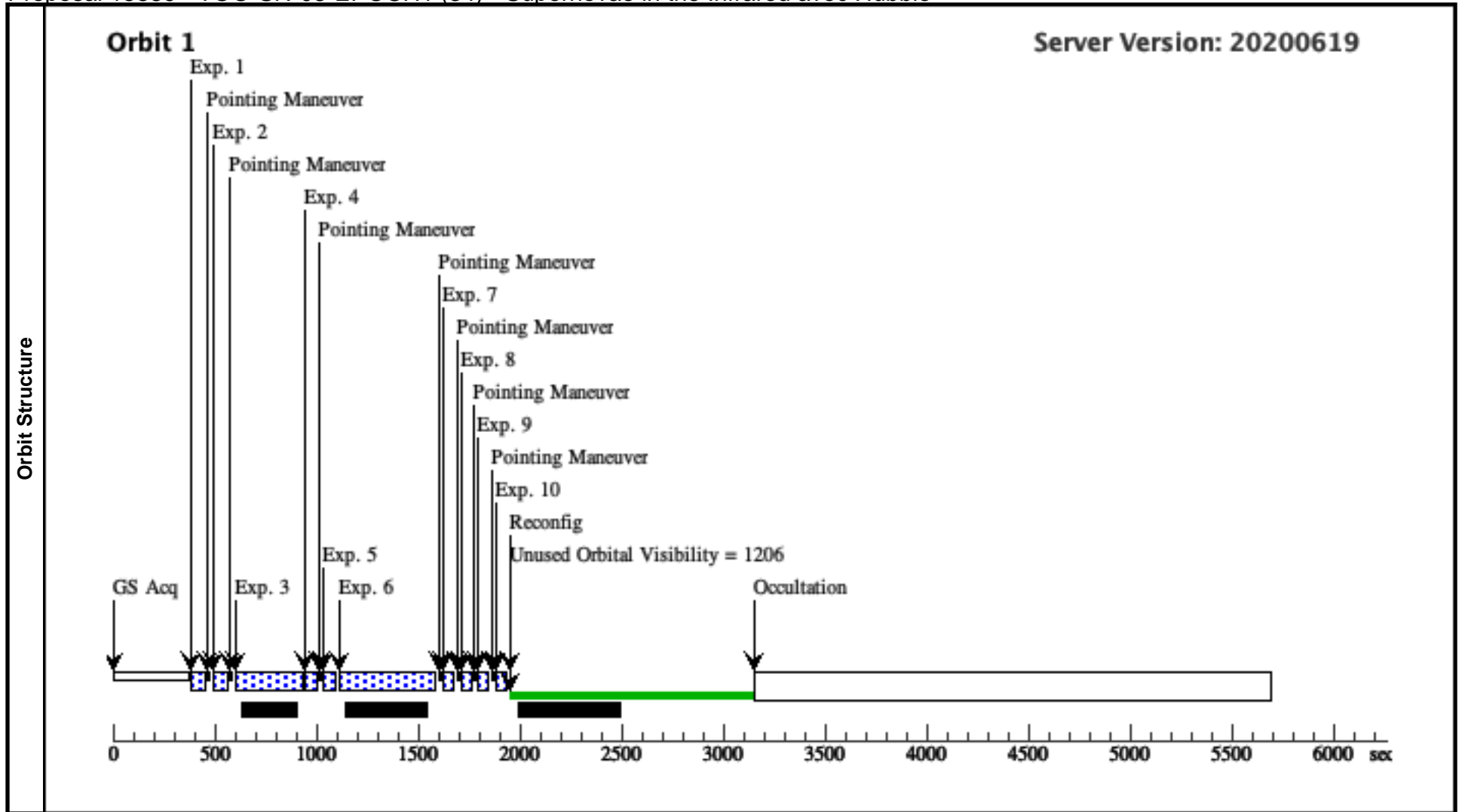
Orbit 1



Proposal 15889 - TOO-SN-08-EPOCH1 (34) - Supernovae in the Infrared avec Hubble

Tue Sep 22 14:02:28 GMT 2020

Visit	Proposal 15889, TOO-SN-08-EPOCH1 (34), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(79)	SN2020KYX	RA: 16 13 43.8468 (243.4326950d)			V=16.5+/-1.0	Reference Frame: ICRS			
		Alt Name1: ZTF20ABBHYXU	Dec: +22 55 31.97 (22.92555d)	Equinox: J2000						
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(79) SN2020KYX		WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,-5.088		42.936143 Secs (42.936 Secs) [==>]	[1]
	2	(79) SN2020KYX		WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,-3.816		42.936143 Secs (42.936 Secs) [==>]	[1]
	3	(79) SN2020KYX		WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=7; SAMP-SEQ=SPAR S50	POS TARG -1.422,-1.272		302.934997 Secs (302.935 Secs) [==>]	[1]
	4	(79) SN2020KYX		WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -1.422,-1.272		42.936143 Secs (42.936 Secs) [==>]	[1]
	5	(79) SN2020KYX		WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG 0.000,0.000		32.93518 Secs (32.935 Secs) [==>]	[1]
	6	(79) SN2020KYX		WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG 0.000,0.000		452.93635 Secs (452.936 Secs) [==>]	[1]
	7	(79) SN2020KYX		WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844,+2.544		22.934217 Secs (22.934 Secs) [==>]	[1]
	8	(79) SN2020KYX		WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266,+3.816		22.934217 Secs (22.934 Secs) [==>]	[1]
	9	(79) SN2020KYX		WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688,+5.088		22.934217 Secs (22.934 Secs) [==>]	[1]
10	(79) SN2020KYX		WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110,+6.360		22.934217 Secs (22.934 Secs) [==>]	[1]	

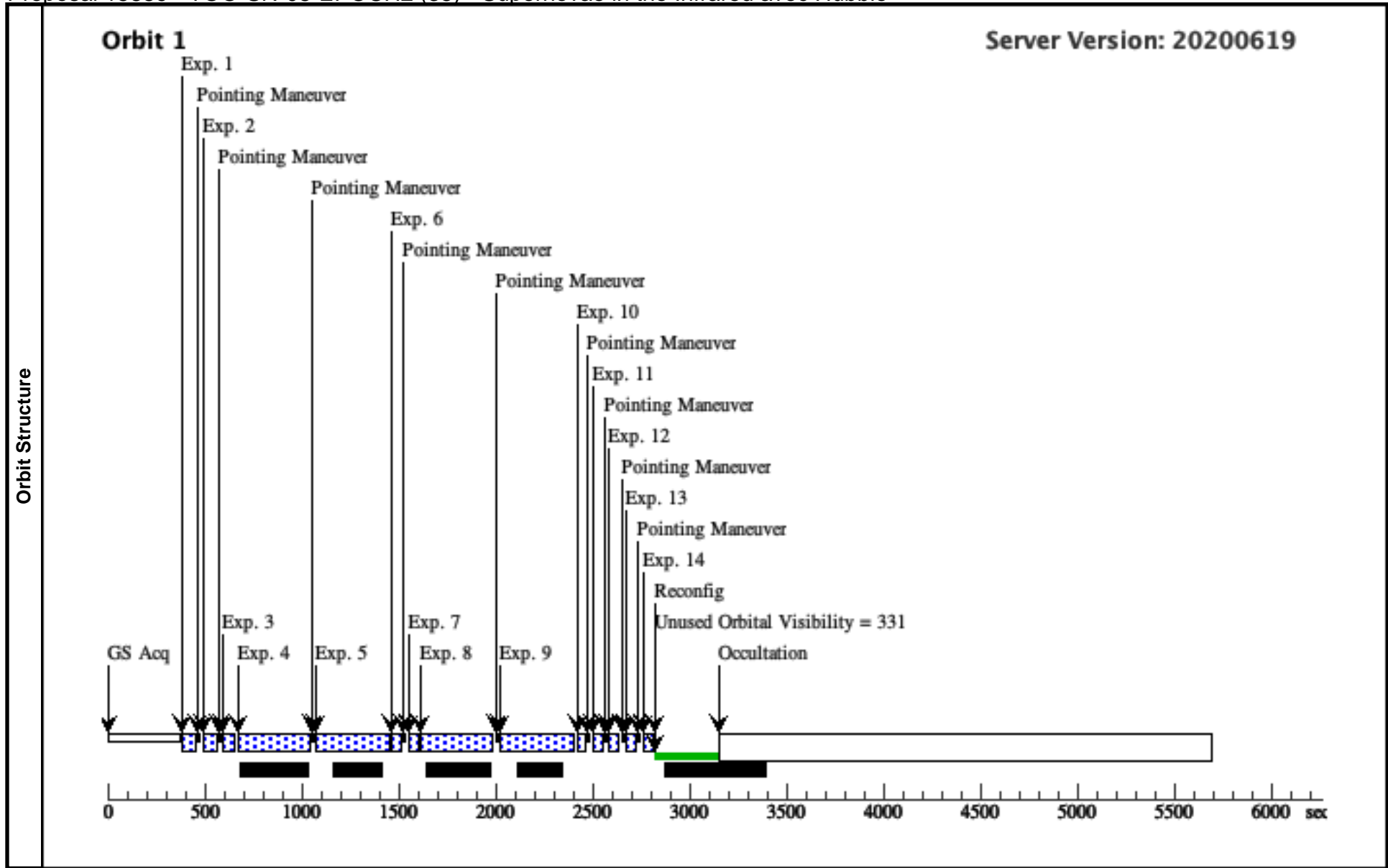


Proposal 15889 - TOO-SN-08-EPOCH2 (35) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, TOO-SN-08-EPOCH2 (35), completed Tue Sep 22 14:02:28 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 34; AFTER 34 BY 5.0 D TO 20.0 D; ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(79)		SN2020KYX Alt Name1: ZTF20ABBHYXU	RA: 16 13 43.8468 (243.4326950d) Dec: +22 55 31.97 (22.92555d) Equinox: J2000		V=16.5+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]						

Proposal 15889 - TOO-SN-08-EPOCH2 (35) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(79) SN2020KYX	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088		42.936143 Secs (42.936 Secs) [==>]	[1]
	2		(79) SN2020KYX	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816		42.936143 Secs (42.936 Secs) [==>]	[1]
	3		(79) SN2020KYX	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544		32.93518 Secs (32.935 Secs) [==>]	[1]
	4		(79) SN2020KYX	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544		352.935448 Secs (352.935 Secs) [==>]	[1]
	5		(79) SN2020KYX	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272		352.935448 Secs (352.935 Secs) [==>]	[1]
	6		(79) SN2020KYX	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272		32.93518 Secs (32.935 Secs) [==>]	[1]
	7		(79) SN2020KYX	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000		22.934217 Secs (22.934 Secs) [==>]	[1]
	8		(79) SN2020KYX	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000		352.935448 Secs (352.935 Secs) [==>]	[1]
	9		(79) SN2020KYX	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272		352.935448 Secs (352.935 Secs) [==>]	[1]
	10		(79) SN2020KYX	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272		22.934217 Secs (22.934 Secs) [==>]	[1]
	11		(79) SN2020KYX	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544		22.934217 Secs (22.934 Secs) [==>]	[1]
	12		(79) SN2020KYX	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816		22.934217 Secs (22.934 Secs) [==>]	[1]
	13		(79) SN2020KYX	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088		22.934217 Secs (22.934 Secs) [==>]	[1]
14		(79) SN2020KYX	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360		22.934217 Secs (22.934 Secs) [==>]	[1]	

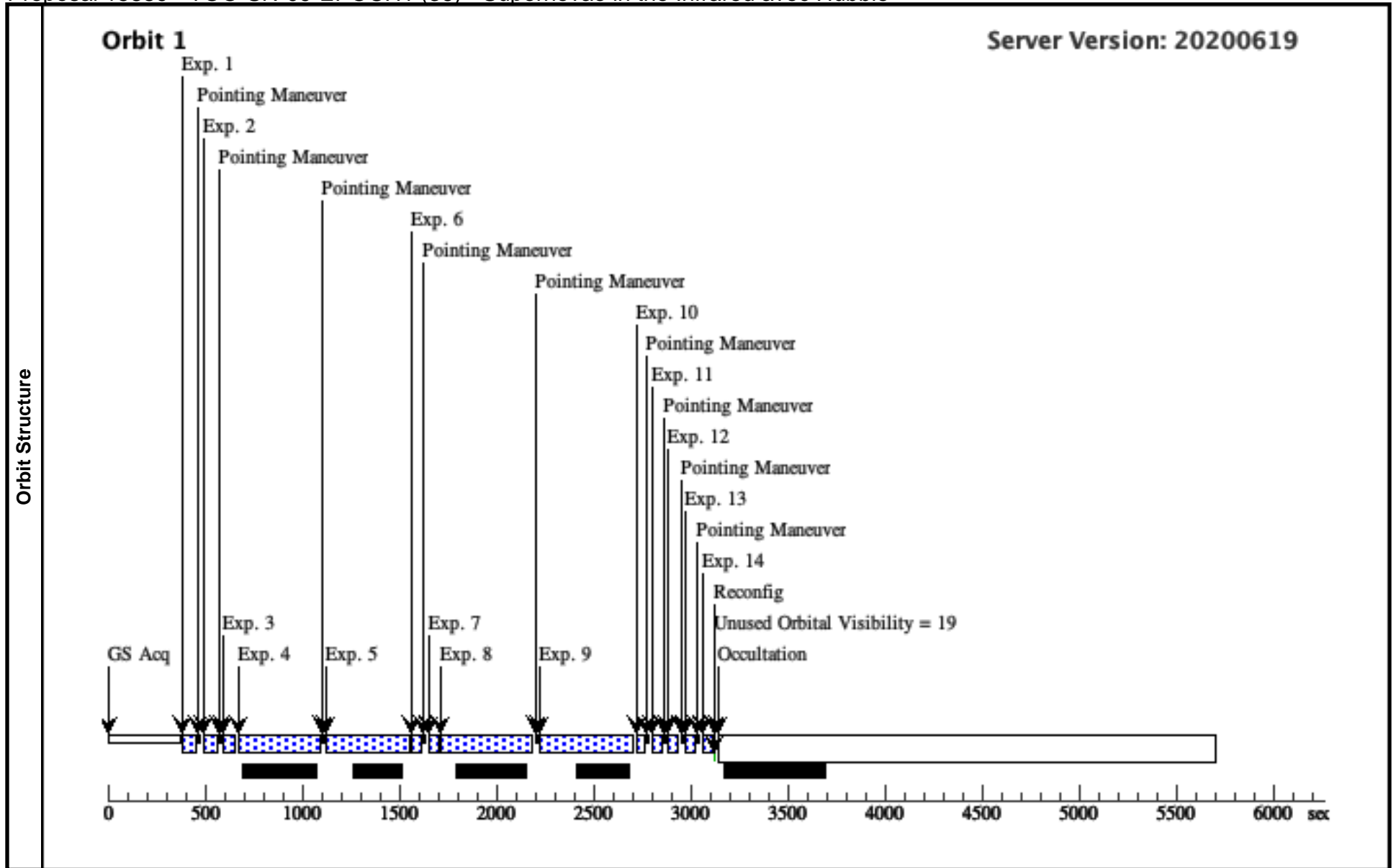


Proposal 15889 - TOO-SN-09-EPOCH1 (36) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, TOO-SN-09-EPOCH1 (36), completed Tue Sep 22 14:02:28 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(81)		SN2020LIL Alt Name1: ZTF20ABCSJTX	RA: 14 37 59.6670 (219.4986125d) Dec: +09 23 18.81 (9.38856d) Equinox: J2000		V=17.0+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]						

Proposal 15889 - TOO-SN-09-EPOCH1 (36) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(81) SN2020LIL	(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088		42.936143 Secs (42.936 Secs) [==>]	[1]
	2	(81) SN2020LIL	(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816		42.936143 Secs (42.936 Secs) [==>]	[1]
	3	(81) SN2020LIL	(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544		32.93518 Secs (32.935 Secs) [==>]	[1]
	4	(81) SN2020LIL	(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544		402.935899 Secs (402.936 Secs) [==>]	[1]
	5	(81) SN2020LIL	(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272		402.935899 Secs (402.936 Secs) [==>]	[1]
	6	(81) SN2020LIL	(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272		32.93518 Secs (32.935 Secs) [==>]	[1]
	7	(81) SN2020LIL	(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000		22.934217 Secs (22.934 Secs) [==>]	[1]
	8	(81) SN2020LIL	(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000		452.93635 Secs (452.936 Secs) [==>]	[1]
	9	(81) SN2020LIL	(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272		452.93635 Secs (452.936 Secs) [==>]	[1]
	10	(81) SN2020LIL	(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272		22.934217 Secs (22.934 Secs) [==>]	[1]
	11	(81) SN2020LIL	(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544		22.934217 Secs (22.934 Secs) [==>]	[1]
	12	(81) SN2020LIL	(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816		22.934217 Secs (22.934 Secs) [==>]	[1]
	13	(81) SN2020LIL	(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088		22.934217 Secs (22.934 Secs) [==>]	[1]
14	(81) SN2020LIL	(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360		22.934217 Secs (22.934 Secs) [==>]	[1]	

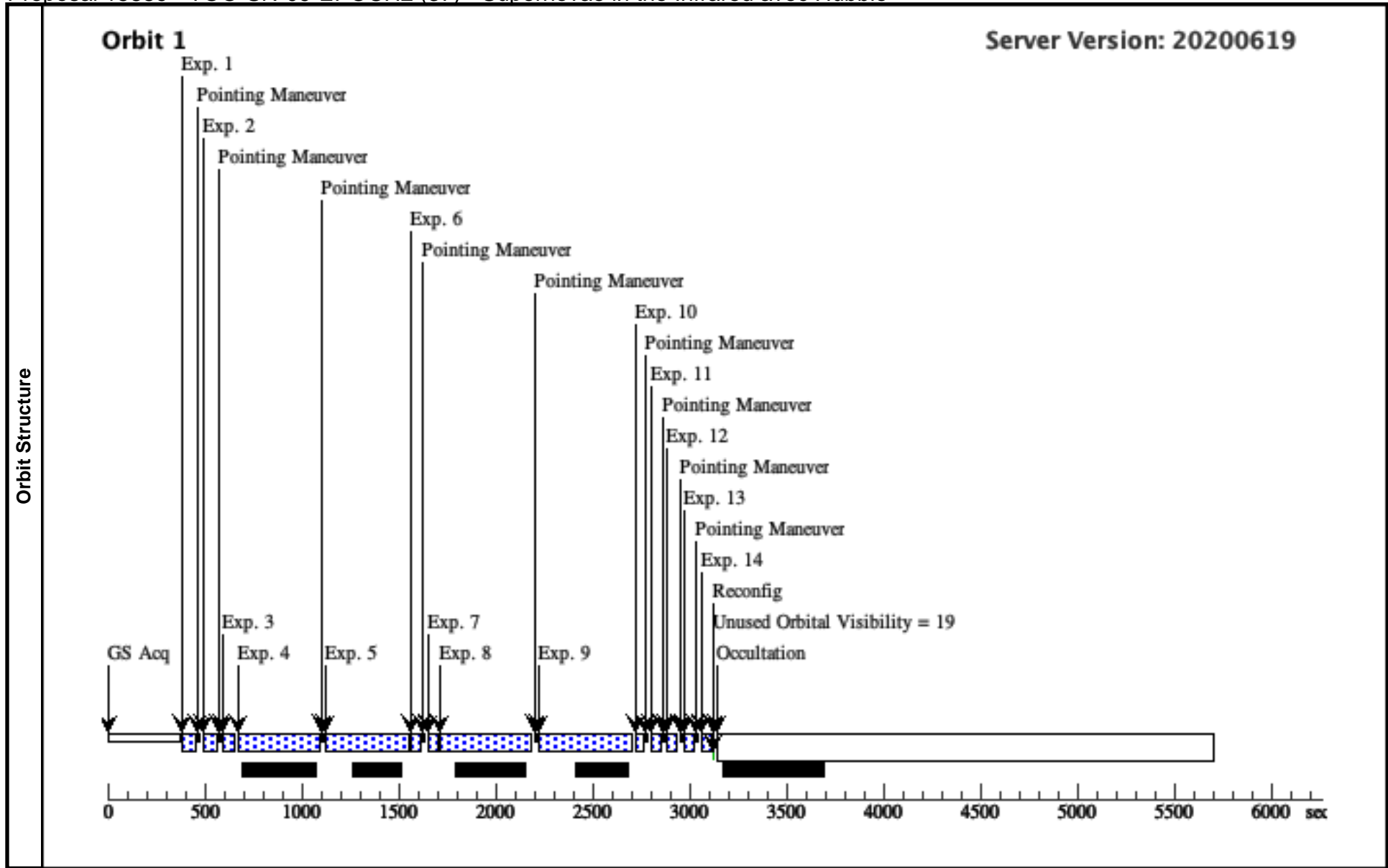


Proposal 15889 - TOO-SN-09-EPOCH2 (37) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, TOO-SN-09-EPOCH2 (37), completed Tue Sep 22 14:02:28 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 36; AFTER 36 BY 5.0 D TO 20.0 D; ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(81)		SN2020LIL Alt Name1: ZTF20ABCSJTX	RA: 14 37 59.6670 (219.4986125d) Dec: +09 23 18.81 (9.38856d) Equinox: J2000		V=17.0+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]						

Proposal 15889 - TOO-SN-09-EPOCH2 (37) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088		42.936143 Secs (42.936 Secs) [==>]	[1]
	2		(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816		42.936143 Secs (42.936 Secs) [==>]	[1]
	3		(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544		32.93518 Secs (32.935 Secs) [==>]	[1]
	4		(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544		402.935899 Secs (402.936 Secs) [==>]	[1]
	5		(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272		402.935899 Secs (402.936 Secs) [==>]	[1]
	6		(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272		32.93518 Secs (32.935 Secs) [==>]	[1]
	7		(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000		22.934217 Secs (22.934 Secs) [==>]	[1]
	8		(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000		452.93635 Secs (452.936 Secs) [==>]	[1]
	9		(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272		452.93635 Secs (452.936 Secs) [==>]	[1]
	10		(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272		22.934217 Secs (22.934 Secs) [==>]	[1]
	11		(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544		22.934217 Secs (22.934 Secs) [==>]	[1]
	12		(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816		22.934217 Secs (22.934 Secs) [==>]	[1]
	13		(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088		22.934217 Secs (22.934 Secs) [==>]	[1]
14		(81) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360		22.934217 Secs (22.934 Secs) [==>]	[1]	



Proposal 15889 - TOO-SN-10-EPOCH1 (38) - Supernovae in the Infrared avec Hubble

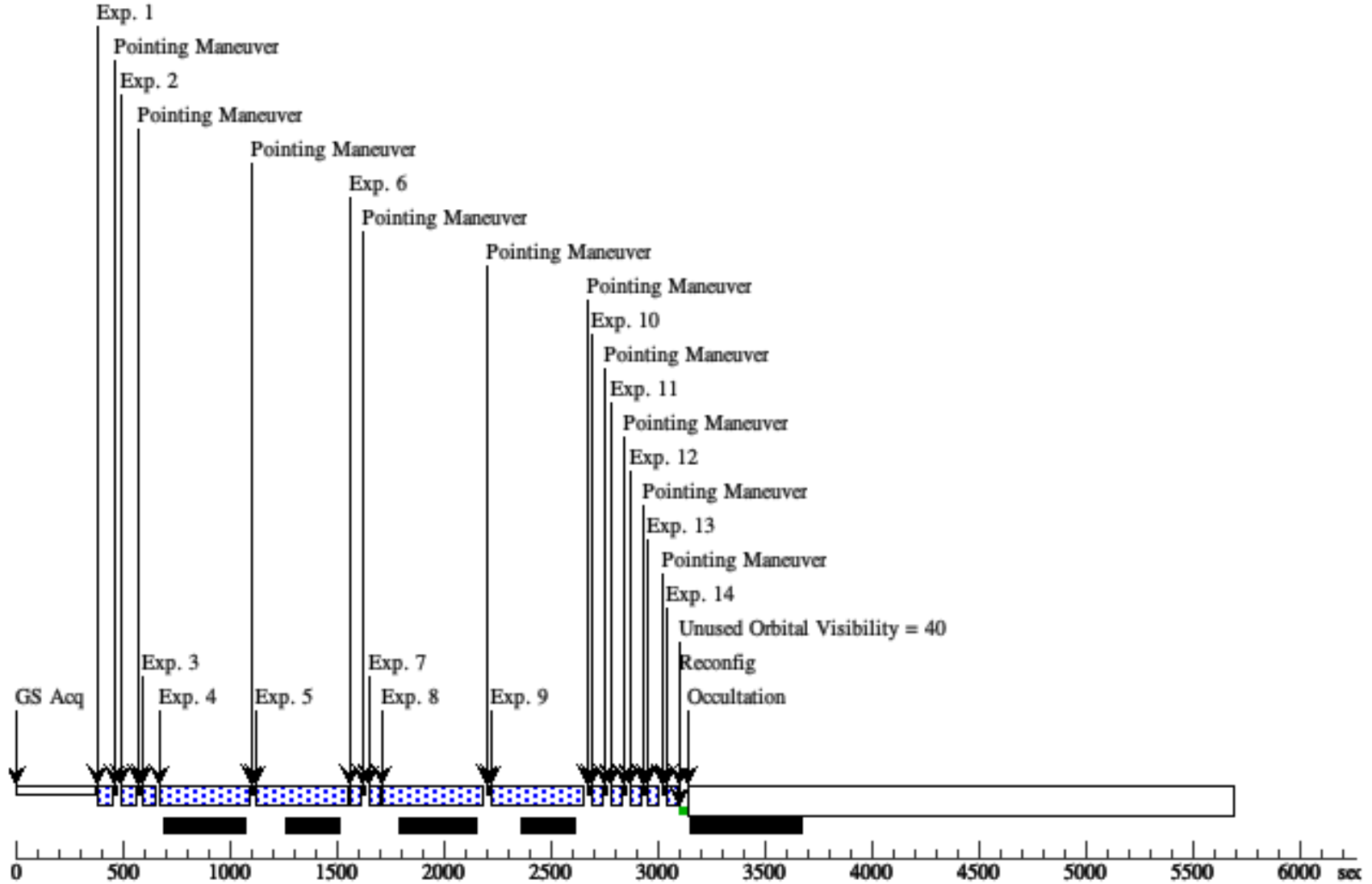
Visit	Proposal 15889, TOO-SN-10-EPOCH1 (38), completed Tue Sep 22 14:02:28 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(82)		SN2020NTA Alt Name1: ZTF20ABJAPAV	RA: 16 07 24.0917 (241.8503821d) Dec: +13 53 23.95 (13.88999d) Equinox: J2000		V=17.5+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category= <i>EXT-STAR</i> Description= <i>[SUPERNOVA]</i>						

Proposal 15889 - TOO-SN-10-EPOCH1 (38) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088	42.936143 Secs (42.936 Secs)	[==>]	[1]	
	2	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816	42.936143 Secs (42.936 Secs)	[==>]	[1]	
	3	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544	32.93518 Secs (32.935 Secs)	[==>]	[1]	
	4	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544	402.935899 Secs (402.936 Secs)	[==>]	[1]	
	5	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272	402.935899 Secs (402.936 Secs)	[==>]	[1]	
	6	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272	32.93518 Secs (32.935 Secs)	[==>]	[1]	
	7	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	8	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000	452.93635 Secs (452.936 Secs)	[==>]	[1]	
	9	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272	402.935899 Secs (402.936 Secs)	[==>]	[1]	
	10	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	11	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	12	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	13	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088	22.934217 Secs (22.934 Secs)	[==>]	[1]	
14	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360	22.934217 Secs (22.934 Secs)	[==>]	[1]		

Orbit Structure

Orbit 1

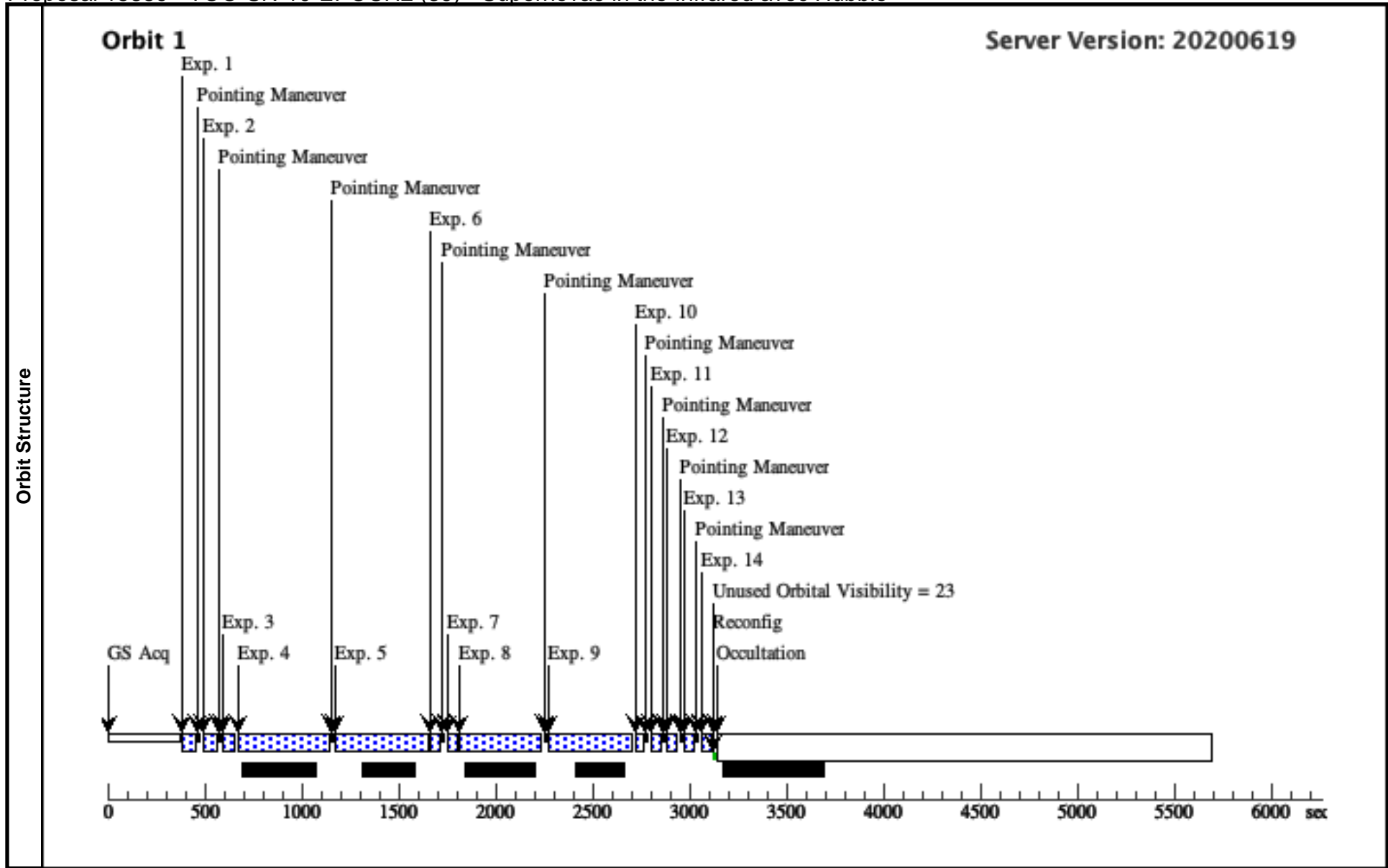


Proposal 15889 - TOO-SN-10-EPOCH2 (39) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, TOO-SN-10-EPOCH2 (39), completed Tue Sep 22 14:02:28 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 38; AFTER 38 BY 5.0 D TO 20.0 D; ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(82)		SN2020NTA Alt Name1: ZTF20ABJAPAV	RA: 16 07 24.0917 (241.8503821d) Dec: +13 53 23.95 (13.88999d) Equinox: J2000		V=17.5+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category= <i>EXT-STAR</i> Description= <i>[SUPERNOVA]</i>						

Proposal 15889 - TOO-SN-10-EPOCH2 (39) - Supernovae in the Infrared avec Hubble

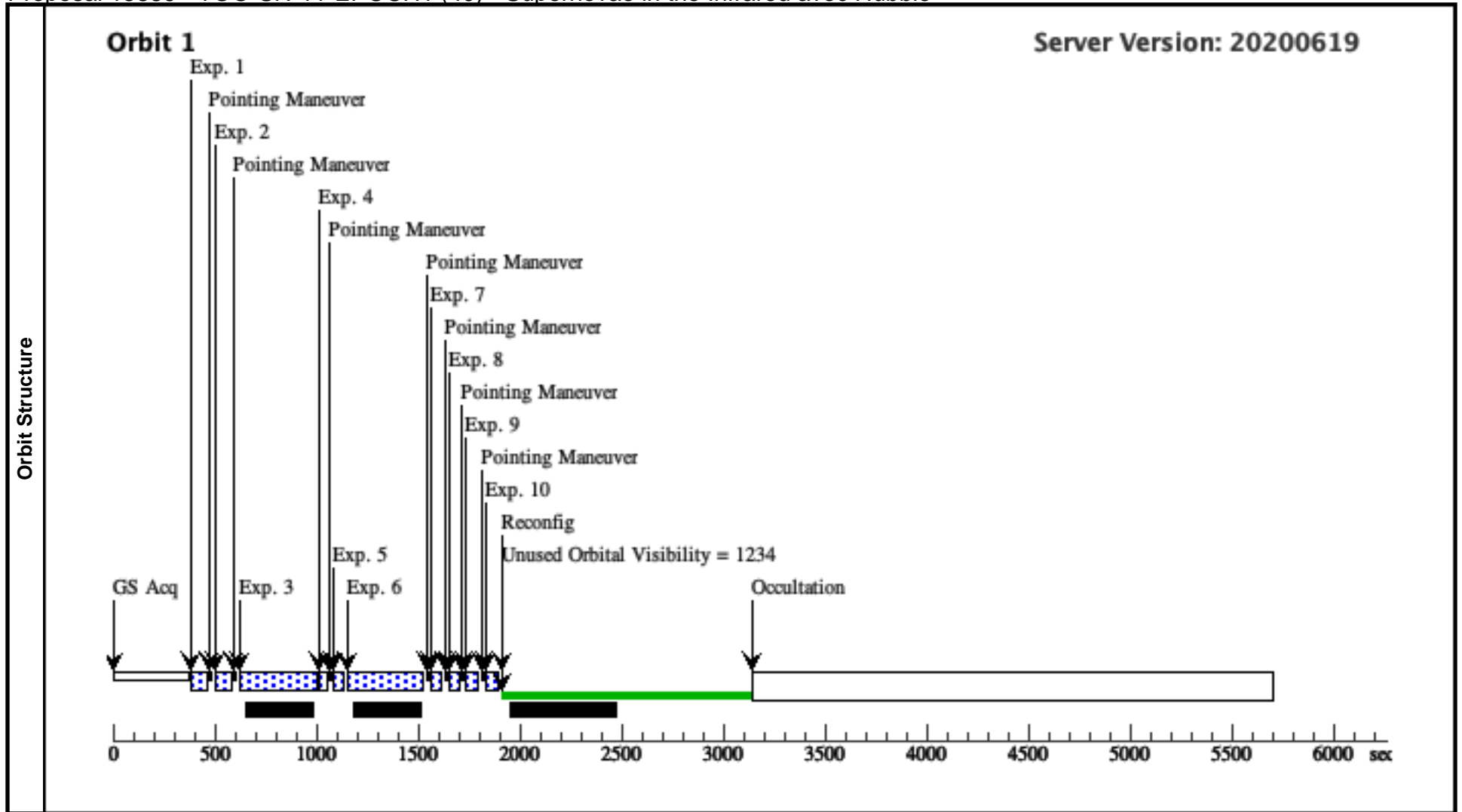
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088	42.936143 Secs (42.936 Secs)	[==>]	[1]	
	2	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816	42.936143 Secs (42.936 Secs)	[==>]	[1]	
	3	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544	32.93518 Secs (32.935 Secs)	[==>]	[1]	
	4	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544	452.93635 Secs (452.936 Secs)	[==>]	[1]	
	5	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272	452.93635 Secs (452.936 Secs)	[==>]	[1]	
	6	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272	32.93518 Secs (32.935 Secs)	[==>]	[1]	
	7	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	8	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000	402.935899 Secs (402.936 Secs)	[==>]	[1]	
	9	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272	402.935899 Secs (402.936 Secs)	[==>]	[1]	
	10	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	11	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	12	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	13	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088	22.934217 Secs (22.934 Secs)	[==>]	[1]	
14	(82) SN2020NTA	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360	22.934217 Secs (22.934 Secs)	[==>]	[1]		



Proposal 15889 - TOO-SN-11-EPOCH1 (40) - Supernovae in the Infrared avec Hubble

Tue Sep 22 14:02:28 GMT 2020

Visit	Proposal 15889, TOO-SN-11-EPOCH1 (40), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(83)	SN2020OYD	RA: 20 04 29.8290 (301.1242875d)			V=18.5+/-1.0	Reference Frame: ICRS			
		Alt Name1: ZTF20ABKRWDU	Dec: +09 20 0.31 (9.33342d)	Equinox: J2000						
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(83) SN2020OYD		WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=6; SAMP-SEQ=SPAR S10	POS TARG -5.688,-5.088		52.937106 Secs (52.937 Secs) [==>]	[1]
	2	(83) SN2020OYD		WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=6; SAMP-SEQ=SPAR S10	POS TARG -4.266,-3.816		52.937106 Secs (52.937 Secs) [==>]	[1]
	3	(83) SN2020OYD		WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG -1.422,-1.272		352.935448 Secs (352.935 Secs) [==>]	[1]
	4	(83) SN2020OYD		WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG -1.422,-1.272		22.934217 Secs (22.934 Secs) [==>]	[1]
	5	(83) SN2020OYD		WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0.000		22.934217 Secs (22.934 Secs) [==>]	[1]
	6	(83) SN2020OYD		WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG 0.000,0.000		352.935448 Secs (352.935 Secs) [==>]	[1]
	7	(83) SN2020OYD		WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844,+2.544		22.934217 Secs (22.934 Secs) [==>]	[1]
	8	(83) SN2020OYD		WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266,+3.816		22.934217 Secs (22.934 Secs) [==>]	[1]
	9	(83) SN2020OYD		WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG +5.688,+5.088		32.93518 Secs (32.935 Secs) [==>]	[1]
10	(83) SN2020OYD		WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG +7.110,+6.360		32.93518 Secs (32.935 Secs) [==>]	[1]	

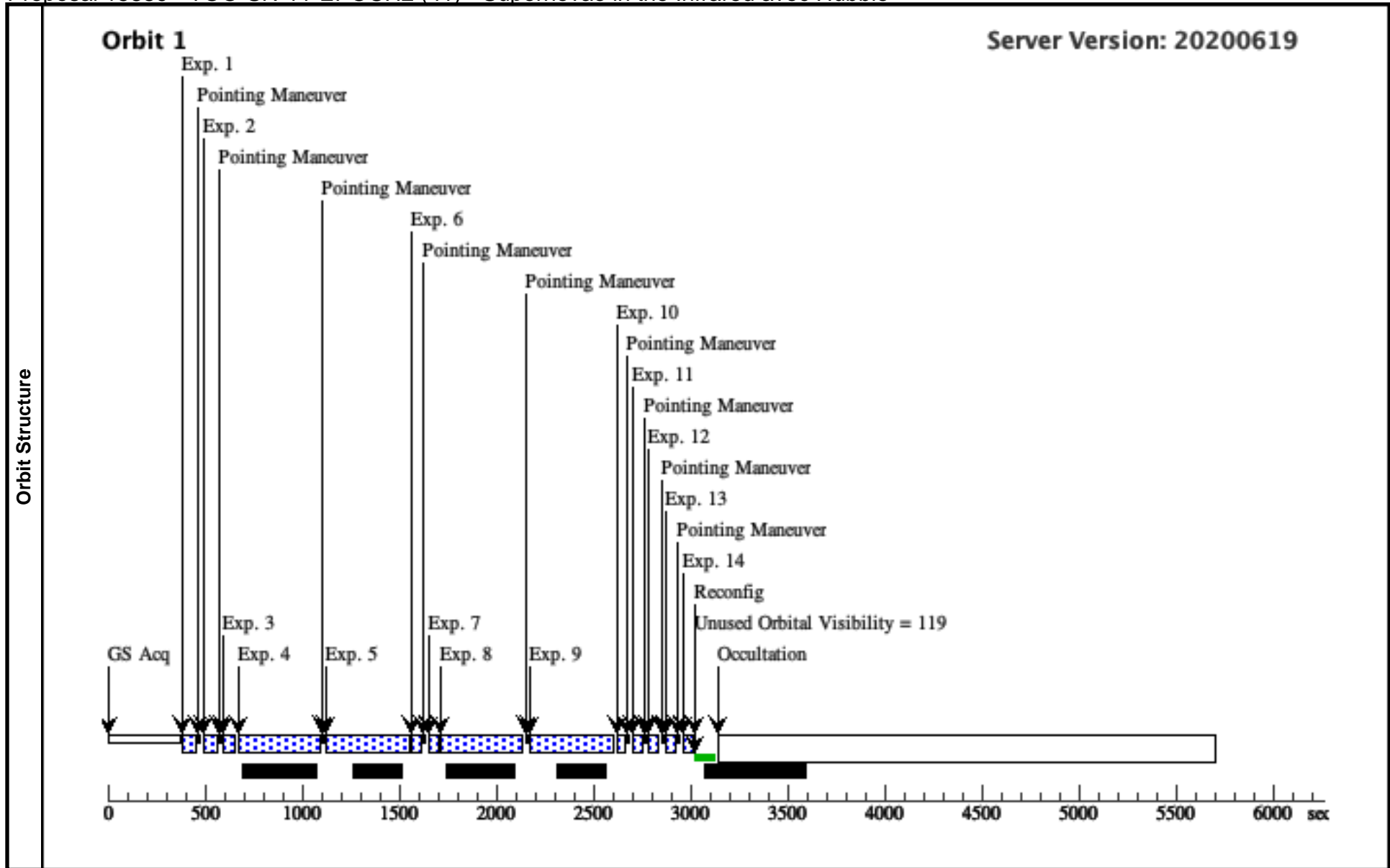


Proposal 15889 - TOO-SN-11-EPOCH2 (41) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, TOO-SN-11-EPOCH2 (41), completed Tue Sep 22 14:02:28 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 40; AFTER 40 BY 5.0 D TO 20.0 D; ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(83)		SN2020OYD Alt Name1: ZTF20ABKRWDU	RA: 20 04 29.8290 (301.1242875d) Dec: +09 20 0.31 (9.33342d) Equinox: J2000		V=18.5+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]						

Proposal 15889 - TOO-SN-11-EPOCH2 (41) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(83) SN2020OYD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088		42.936143 Secs (42.936 Secs) [==>]	[1]
	2		(83) SN2020OYD	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816		42.936143 Secs (42.936 Secs) [==>]	[1]
	3		(83) SN2020OYD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544		32.93518 Secs (32.935 Secs) [==>]	[1]
	4		(83) SN2020OYD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544		402.935899 Secs (402.936 Secs) [==>]	[1]
	5		(83) SN2020OYD	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272		402.935899 Secs (402.936 Secs) [==>]	[1]
	6		(83) SN2020OYD	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272		32.93518 Secs (32.935 Secs) [==>]	[1]
	7		(83) SN2020OYD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000		22.934217 Secs (22.934 Secs) [==>]	[1]
	8		(83) SN2020OYD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000		402.935899 Secs (402.936 Secs) [==>]	[1]
	9		(83) SN2020OYD	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272		402.935899 Secs (402.936 Secs) [==>]	[1]
	10		(83) SN2020OYD	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272		22.934217 Secs (22.934 Secs) [==>]	[1]
	11		(83) SN2020OYD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544		22.934217 Secs (22.934 Secs) [==>]	[1]
	12		(83) SN2020OYD	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816		22.934217 Secs (22.934 Secs) [==>]	[1]
	13		(83) SN2020OYD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088		22.934217 Secs (22.934 Secs) [==>]	[1]
14		(83) SN2020OYD	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360		22.934217 Secs (22.934 Secs) [==>]	[1]	

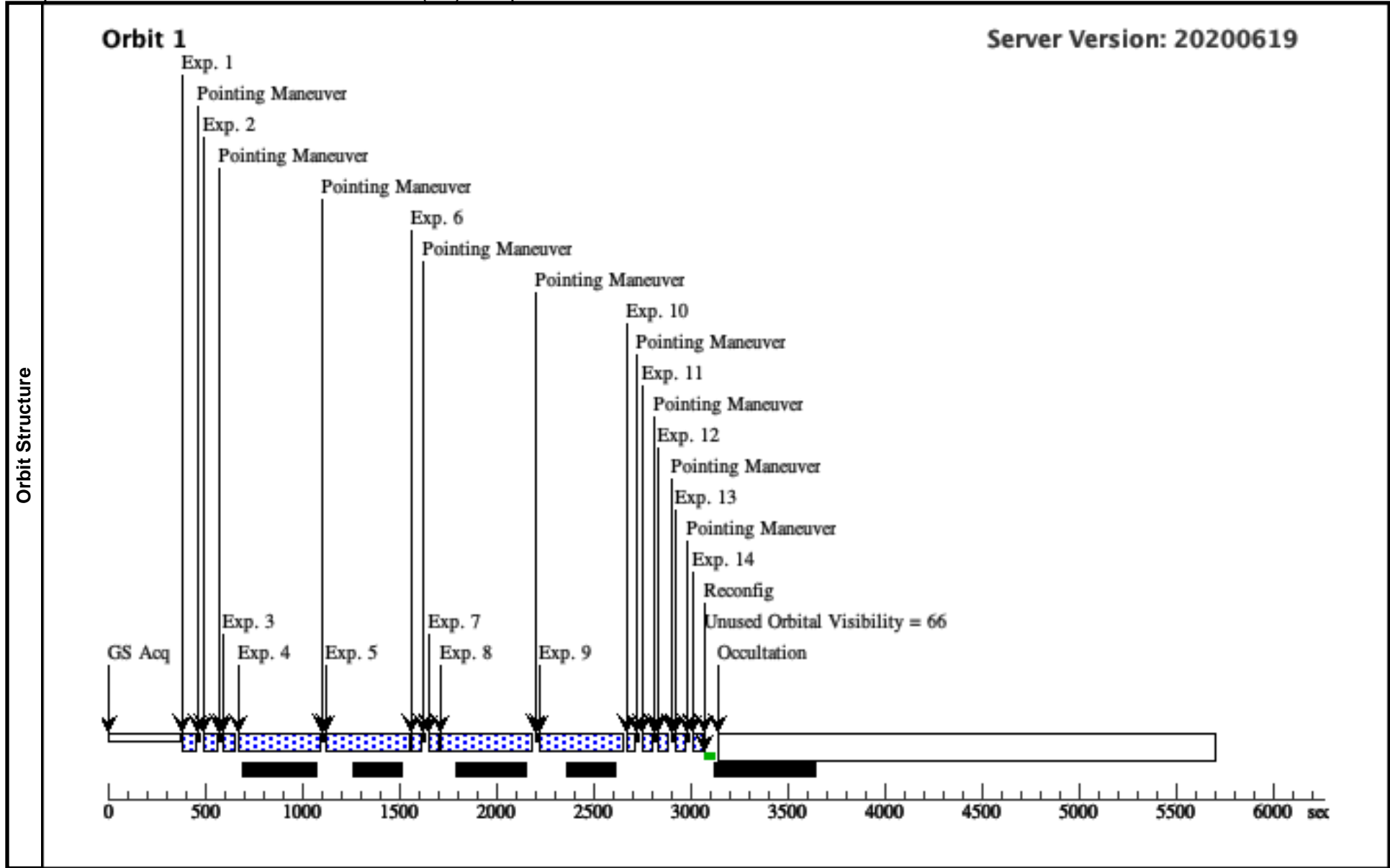


Proposal 15889 - TOO-SN-12-EPOCH1 (42) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, TOO-SN-12-EPOCH1 (42), completed Tue Sep 22 14:02:28 GMT 2020					
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(84)	SN2020PST Alt Name1: ZTF20ABMUDRV	RA: 01 13 11.4316 (18.2976317d) Dec: +02 17 33.41 (2.29261d) Equinox: J2000		V=17.5+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category= <i>EXT-STAR</i> Description= <i>[SUPERNOVA TYPE IA]</i>						

Proposal 15889 - TOO-SN-12-EPOCH1 (42) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(84) SN2020PST	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088; GS ACQ SCENARI O BASE1B3		42.936143 Secs (42.936 Secs) [==>]	[1]
	2	(84) SN2020PST	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816		42.936143 Secs (42.936 Secs) [==>]	[1]
	3	(84) SN2020PST	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544		32.93518 Secs (32.935 Secs) [==>]	[1]
	4	(84) SN2020PST	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544		402.935899 Secs (402.936 Secs) [==>]	[1]
	5	(84) SN2020PST	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272		402.935899 Secs (402.936 Secs) [==>]	[1]
	6	(84) SN2020PST	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272		32.93518 Secs (32.935 Secs) [==>]	[1]
	7	(84) SN2020PST	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000		22.934217 Secs (22.934 Secs) [==>]	[1]
	8	(84) SN2020PST	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000		452.93635 Secs (452.936 Secs) [==>]	[1]
	9	(84) SN2020PST	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272		402.935899 Secs (402.936 Secs) [==>]	[1]
	10	(84) SN2020PST	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272		22.934217 Secs (22.934 Secs) [==>]	[1]
	11	(84) SN2020PST	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544		22.934217 Secs (22.934 Secs) [==>]	[1]
	12	(84) SN2020PST	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816		22.934217 Secs (22.934 Secs) [==>]	[1]
	13	(84) SN2020PST	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088		22.934217 Secs (22.934 Secs) [==>]	[1]
14	(84) SN2020PST	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360		22.934217 Secs (22.934 Secs) [==>]	[1]	



Proposal 15889 - TOO-SN-12-EPOCH2 (43) - Supernovae in the Infrared avec Hubble

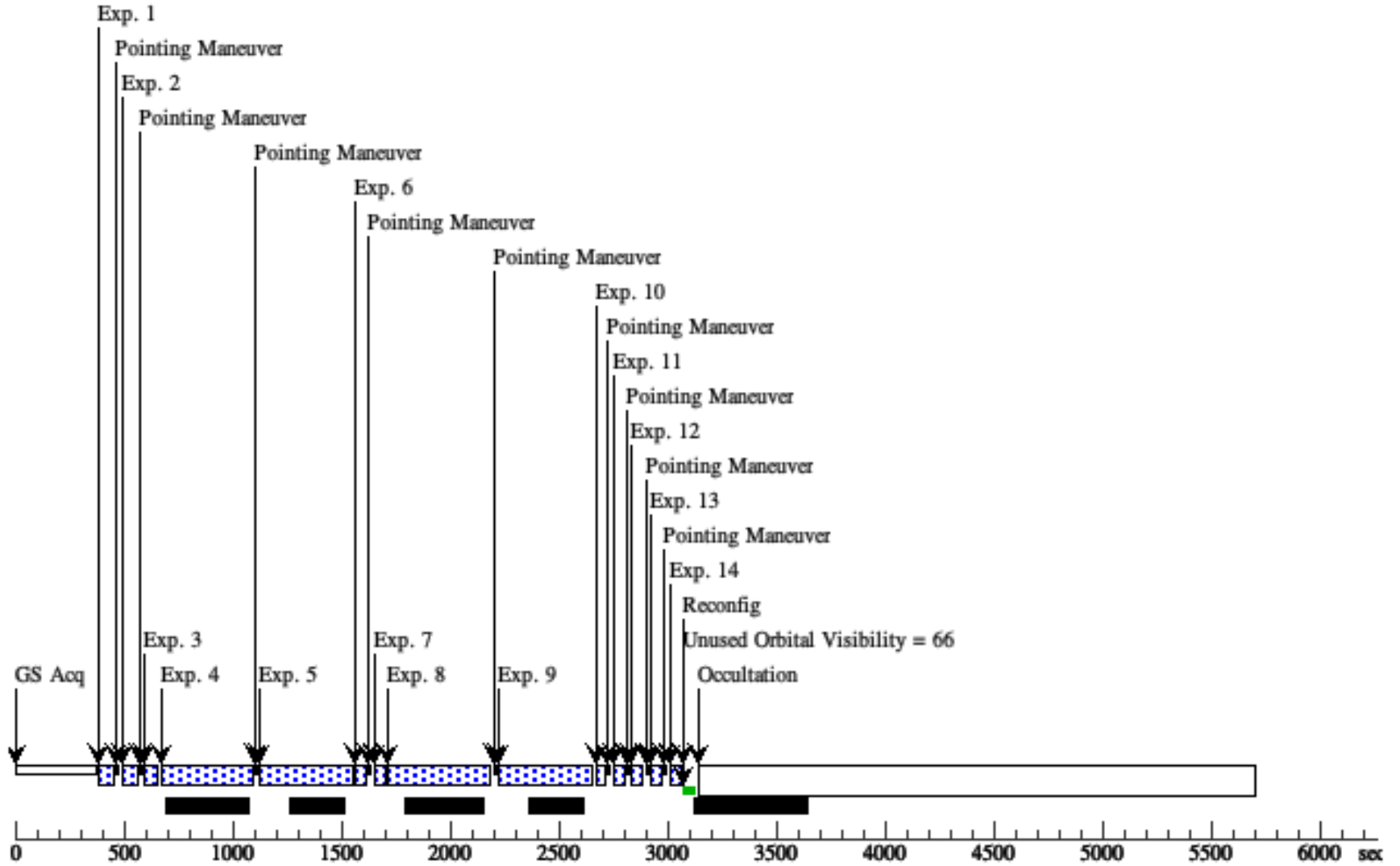
Visit	Proposal 15889, TOO-SN-12-EPOCH2 (43), completed Tue Sep 22 14:02:28 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 42; AFTER 42 BY 5.0 D TO 20.0 D; ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(84)		SN2020PST Alt Name1: ZTF20ABMUDRV	RA: 01 13 11.4316 (18.2976317d) Dec: +02 17 33.41 (2.29261d) Equinox: J2000		V=17.5+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]						

Proposal 15889 - TOO-SN-12-EPOCH2 (43) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088; GS ACQ SCENARI O BASE1B3	42.936143 Secs (42.936 Secs)	[==>]	[1]	
	2	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816	42.936143 Secs (42.936 Secs)	[==>]	[1]	
	3	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544	32.93518 Secs (32.935 Secs)	[==>]	[1]	
	4	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544	402.935899 Secs (402.936 Secs)	[==>]	[1]	
	5	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272	402.935899 Secs (402.936 Secs)	[==>]	[1]	
	6	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272	32.93518 Secs (32.935 Secs)	[==>]	[1]	
	7	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	8	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000	452.93635 Secs (452.936 Secs)	[==>]	[1]	
	9	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272	402.935899 Secs (402.936 Secs)	[==>]	[1]	
	10	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	11	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	12	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	13	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088	22.934217 Secs (22.934 Secs)	[==>]	[1]	
14	(84) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360	22.934217 Secs (22.934 Secs)	[==>]	[1]		

Orbit Structure

Orbit 1

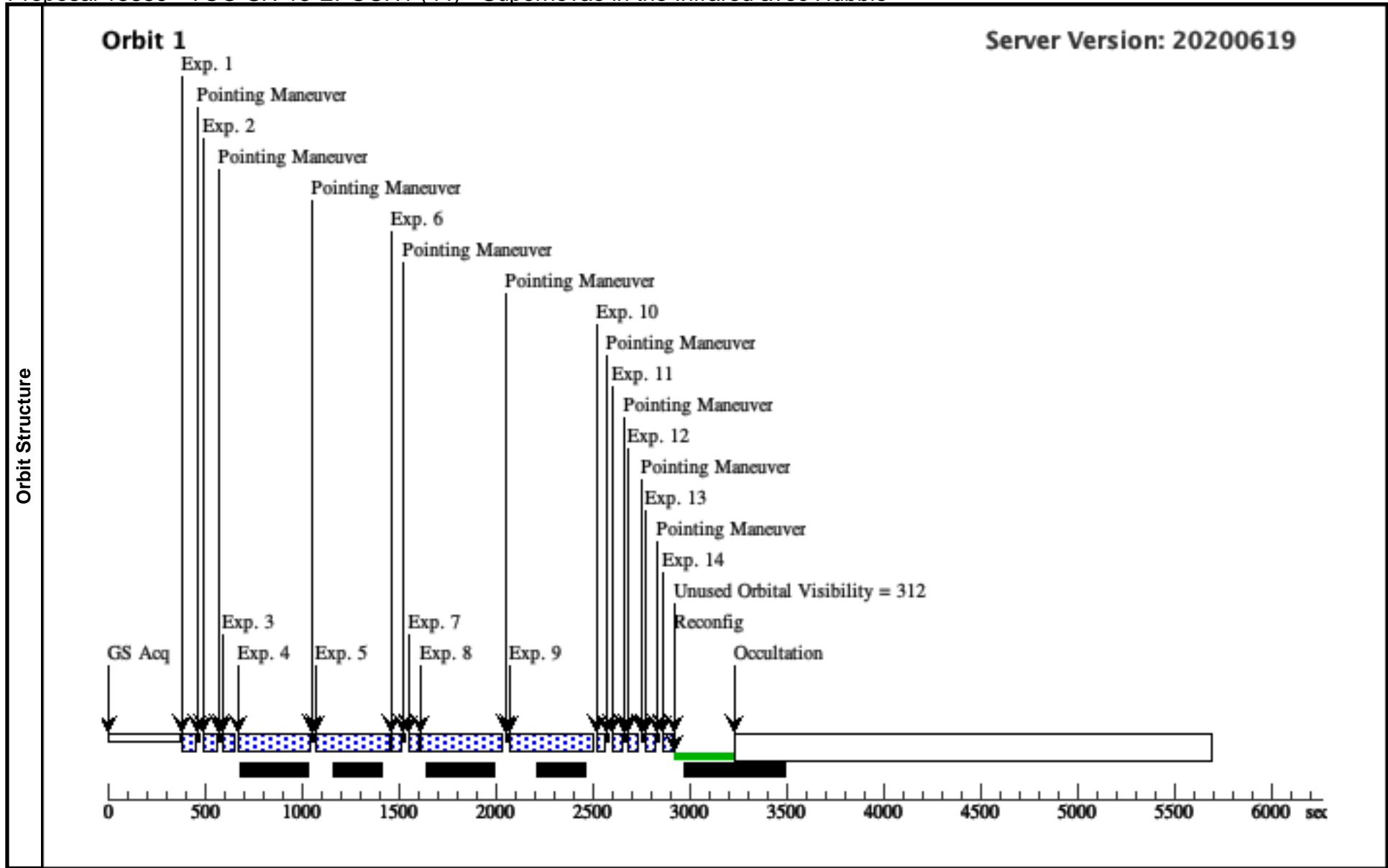


Proposal 15889 - TOO-SN-13-EPOCH1 (44) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, TOO-SN-13-EPOCH1 (44), completed Tue Sep 22 14:02:28 GMT 2020					
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(85)	SN2020QIC Alt Name1: ZTF20ABOQUUV	RA: 00 15 6.3281 (3.7763671d) Dec: +43 20 39.25 (43.34424d) Equinox: J2000		V=17.5+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category= <i>EXT-STAR</i> Description= <i>[SUPERNOVA TYPE IA]</i>						

Proposal 15889 - TOO-SN-13-EPOCH1 (44) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088		42.936143 Secs (42.936 Secs) [==>]	[1]
	2		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816		42.936143 Secs (42.936 Secs) [==>]	[1]
	3		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544		32.93518 Secs (32.935 Secs) [==>]	[1]
	4		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544		352.935448 Secs (352.935 Secs) [==>]	[1]
	5		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272		352.935448 Secs (352.935 Secs) [==>]	[1]
	6		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272		32.93518 Secs (32.935 Secs) [==>]	[1]
	7		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000		22.934217 Secs (22.934 Secs) [==>]	[1]
	8		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000		402.935899 Secs (402.936 Secs) [==>]	[1]
	9		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272		402.935899 Secs (402.936 Secs) [==>]	[1]
	10		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272		22.934217 Secs (22.934 Secs) [==>]	[1]
	11		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544		22.934217 Secs (22.934 Secs) [==>]	[1]
	12		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816		22.934217 Secs (22.934 Secs) [==>]	[1]
	13		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088		22.934217 Secs (22.934 Secs) [==>]	[1]
14		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360		22.934217 Secs (22.934 Secs) [==>]	[1]	

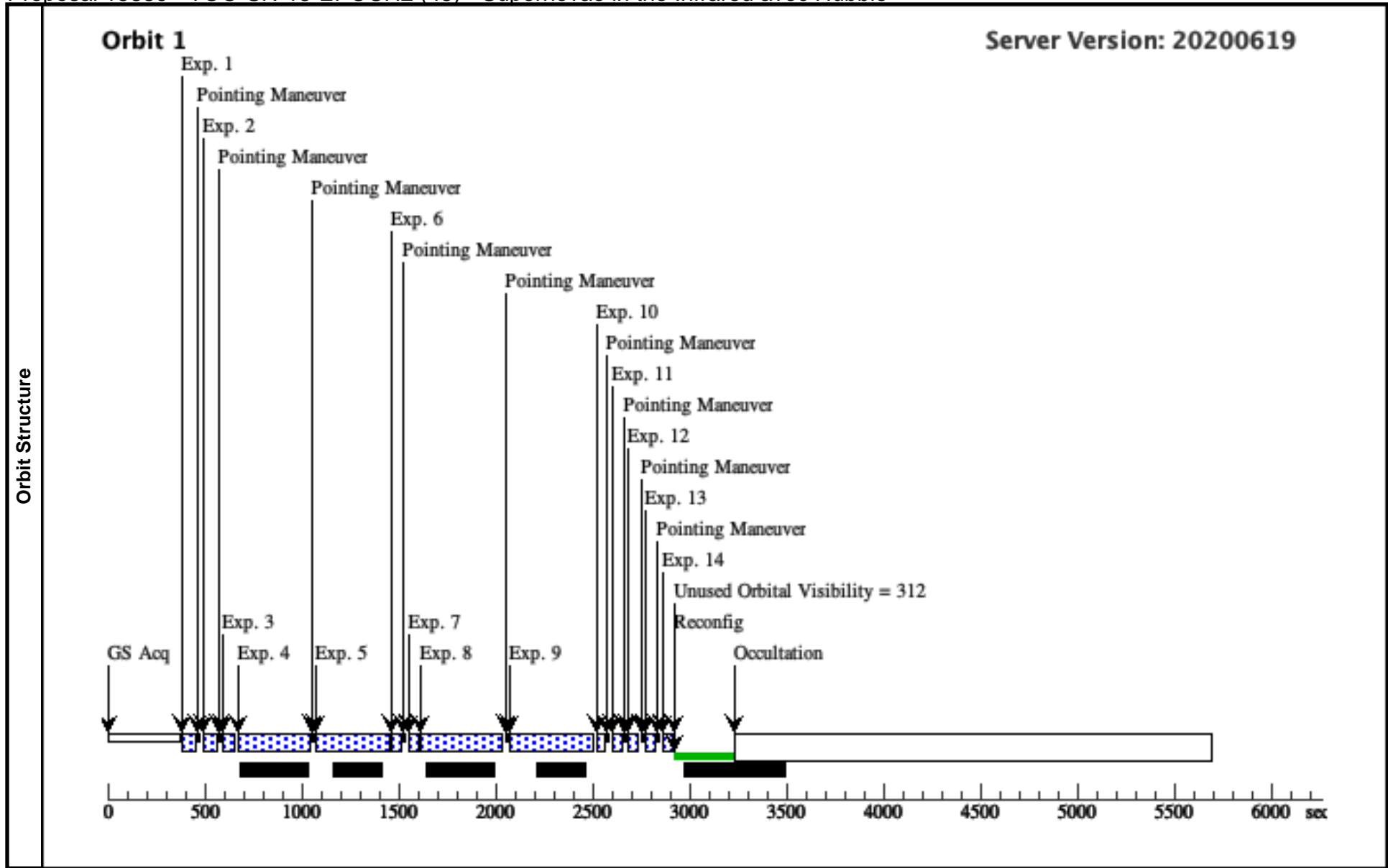


Proposal 15889 - TOO-SN-13-EPOCH2 (45) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, TOO-SN-13-EPOCH2 (45), completed Tue Sep 22 14:02:28 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 44; AFTER 44 BY 5.0 D TO 20.0 D; ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(85)		SN2020QIC Alt Name1: ZTF20ABOQUUV	RA: 00 15 6.3281 (3.7763671d) Dec: +43 20 39.25 (43.34424d) Equinox: J2000		V=17.5+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]						

Proposal 15889 - TOO-SN-13-EPOCH2 (45) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088		42.936143 Secs (42.936 Secs) [==>]	[1]
	2		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816		42.936143 Secs (42.936 Secs) [==>]	[1]
	3		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544		32.93518 Secs (32.935 Secs) [==>]	[1]
	4		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544		352.935448 Secs (352.935 Secs) [==>]	[1]
	5		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272		352.935448 Secs (352.935 Secs) [==>]	[1]
	6		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272		32.93518 Secs (32.935 Secs) [==>]	[1]
	7		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000		22.934217 Secs (22.934 Secs) [==>]	[1]
	8		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000		402.935899 Secs (402.936 Secs) [==>]	[1]
	9		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272		402.935899 Secs (402.936 Secs) [==>]	[1]
	10		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272		22.934217 Secs (22.934 Secs) [==>]	[1]
	11		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544		22.934217 Secs (22.934 Secs) [==>]	[1]
	12		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816		22.934217 Secs (22.934 Secs) [==>]	[1]
	13		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088		22.934217 Secs (22.934 Secs) [==>]	[1]
14		(85) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360		22.934217 Secs (22.934 Secs) [==>]	[1]	

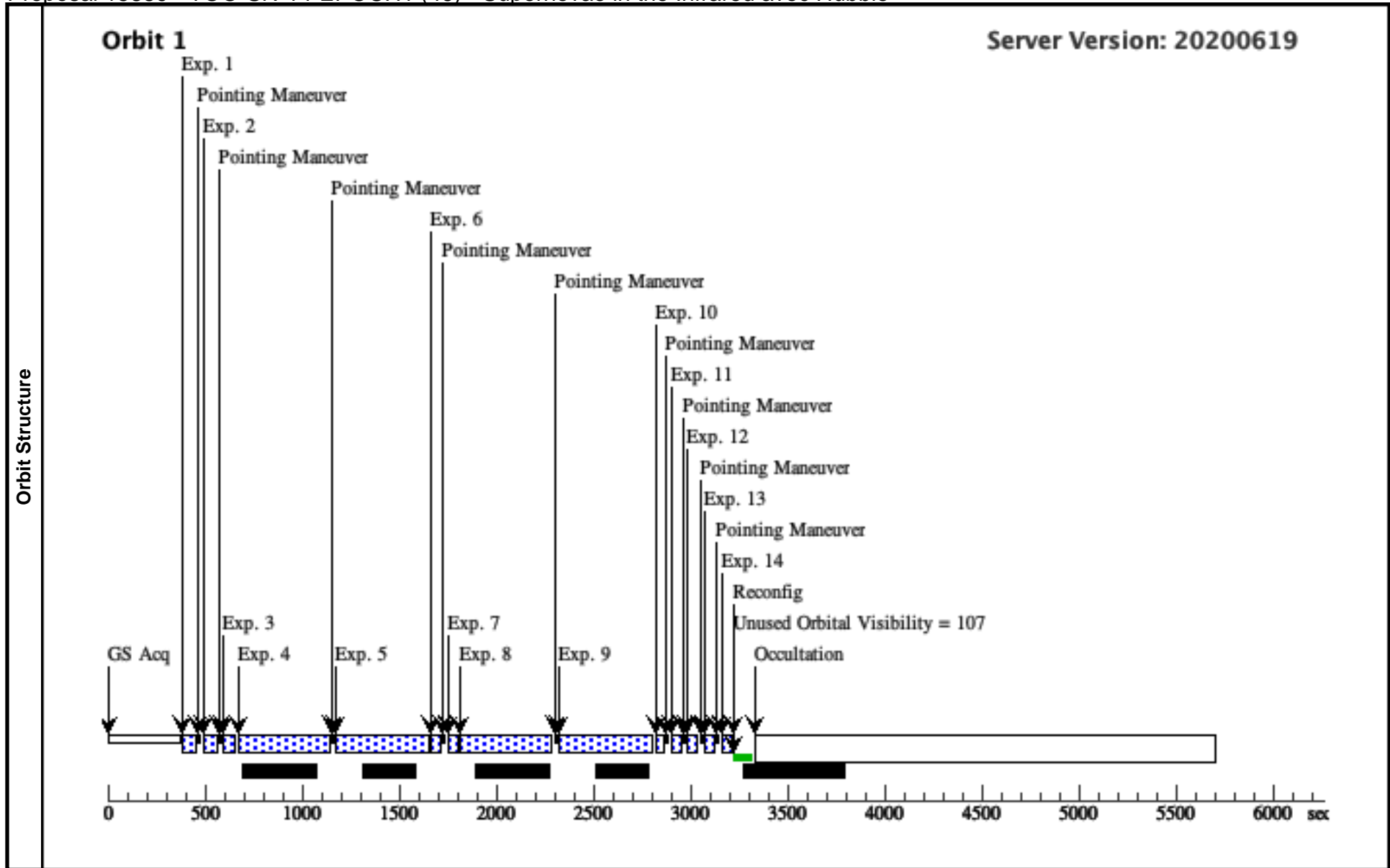


Proposal 15889 - TOO-SN-14-EPOCH1 (46) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, TOO-SN-14-EPOCH1 (46), completed Tue Sep 22 14:02:28 GMT 2020					
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(86)	SN2020RGZ Alt Name1: ZTF18AATRKG	RA: 18 12 1.0591 (273.0044129d) Dec: +51 43 33.37 (51.72594d) Equinox: J2000		V=17.0+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]						

Proposal 15889 - TOO-SN-14-EPOCH1 (46) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088		42.936143 Secs (42.936 Secs) [==>]	[1]
	2		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816		42.936143 Secs (42.936 Secs) [==>]	[1]
	3		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544		32.93518 Secs (32.935 Secs) [==>]	[1]
	4		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544		452.93635 Secs (452.936 Secs) [==>]	[1]
	5		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272		452.93635 Secs (452.936 Secs) [==>]	[1]
	6		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272		32.93518 Secs (32.935 Secs) [==>]	[1]
	7		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000		22.934217 Secs (22.934 Secs) [==>]	[1]
	8		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000		452.93635 Secs (452.936 Secs) [==>]	[1]
	9		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272		452.93635 Secs (452.936 Secs) [==>]	[1]
	10		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272		22.934217 Secs (22.934 Secs) [==>]	[1]
	11		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544		22.934217 Secs (22.934 Secs) [==>]	[1]
	12		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816		22.934217 Secs (22.934 Secs) [==>]	[1]
	13		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088		22.934217 Secs (22.934 Secs) [==>]	[1]
14		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360		22.934217 Secs (22.934 Secs) [==>]	[1]	



Proposal 15889 - TOO-SN-14-EPOCH2 (47) - Supernovae in the Infrared avec Hubble

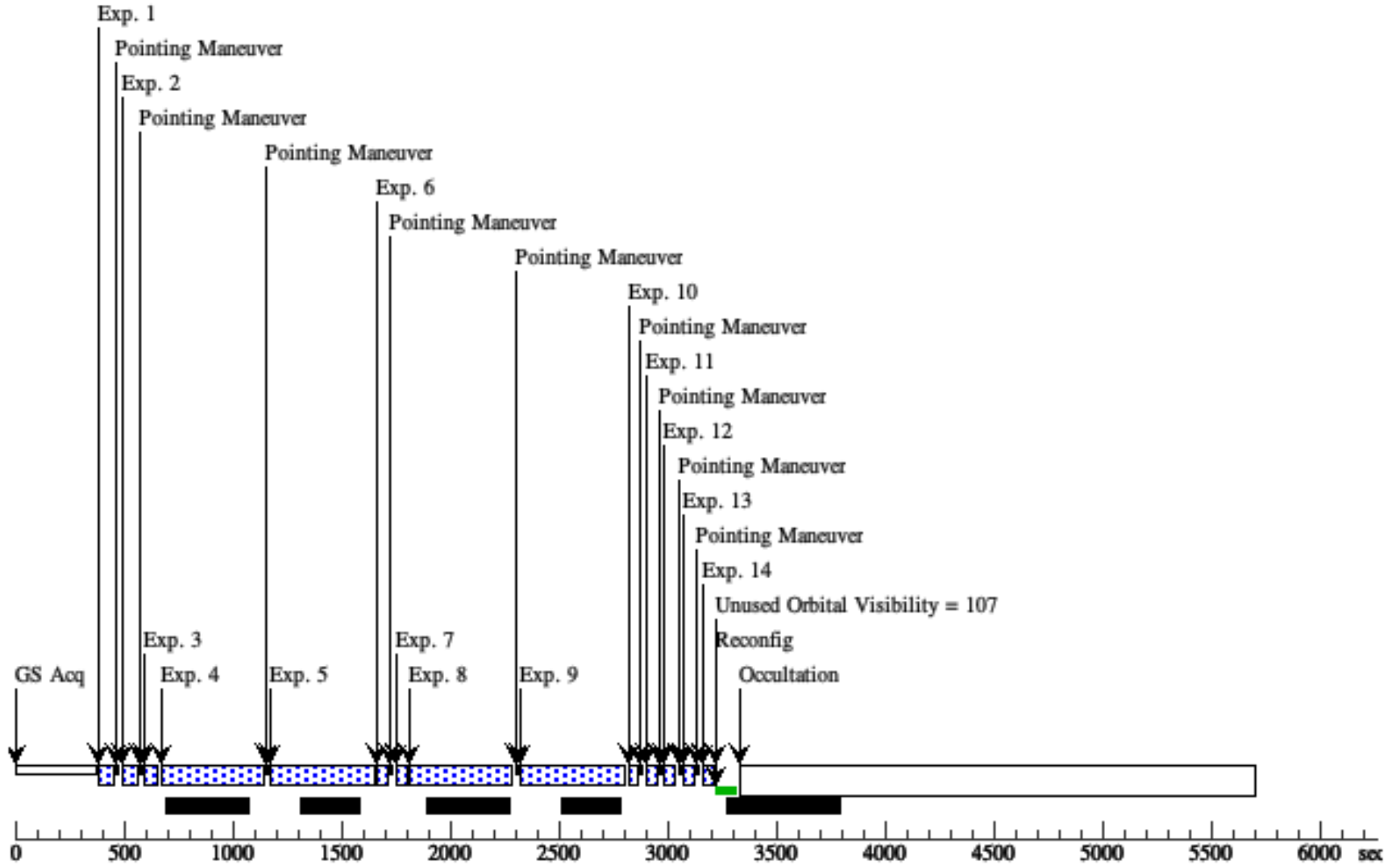
Visit	Proposal 15889, TOO-SN-14-EPOCH2 (47), completed Tue Sep 22 14:02:28 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 46; AFTER 46 BY 5.0 D TO 20.0 D; ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(86)		SN2020RGZ Alt Name1: ZTF18AATRKGA	RA: 18 12 1.0591 (273.0044129d) Dec: +51 43 33.37 (51.72594d) Equinox: J2000		V=17.0+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]						

Proposal 15889 - TOO-SN-14-EPOCH2 (47) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088		42.936143 Secs (42.936 Secs) [==>]	[1]
	2		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816		42.936143 Secs (42.936 Secs) [==>]	[1]
	3		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544		32.93518 Secs (32.935 Secs) [==>]	[1]
	4		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544		452.93635 Secs (452.936 Secs) [==>]	[1]
	5		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272		452.93635 Secs (452.936 Secs) [==>]	[1]
	6		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272		32.93518 Secs (32.935 Secs) [==>]	[1]
	7		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000		22.934217 Secs (22.934 Secs) [==>]	[1]
	8		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000		452.93635 Secs (452.936 Secs) [==>]	[1]
	9		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272		452.93635 Secs (452.936 Secs) [==>]	[1]
	10		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272		22.934217 Secs (22.934 Secs) [==>]	[1]
	11		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544		22.934217 Secs (22.934 Secs) [==>]	[1]
	12		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816		22.934217 Secs (22.934 Secs) [==>]	[1]
	13		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088		22.934217 Secs (22.934 Secs) [==>]	[1]
14		(86) SN2020RGZ	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360		22.934217 Secs (22.934 Secs) [==>]	[1]	

Orbit Structure

Orbit 1

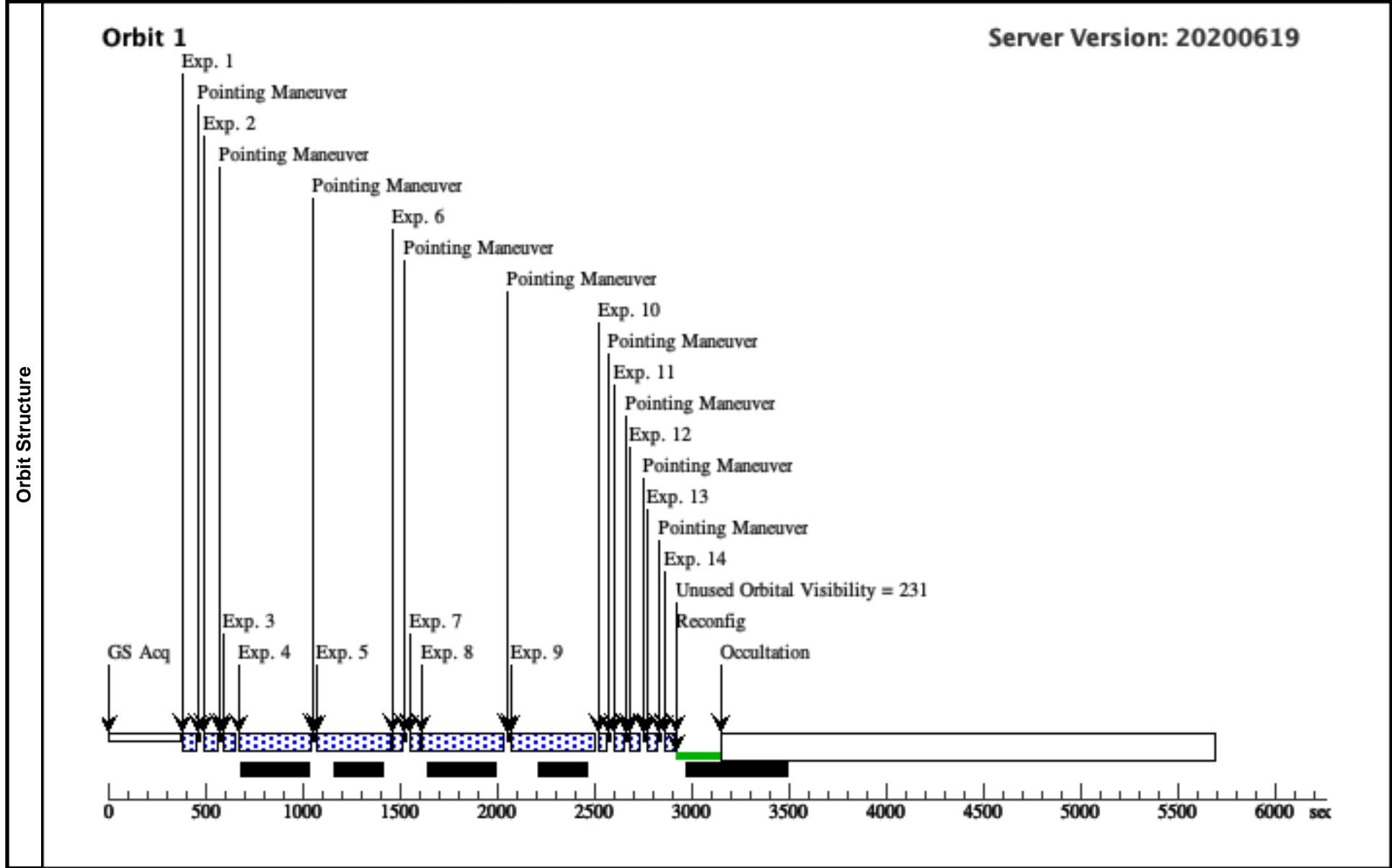


Proposal 15889 - TOO-SN-15-EPOCH1 (48) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, TOO-SN-15-EPOCH1 (48), completed Tue Sep 22 14:02:28 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(87)		SN2020RLJ Alt Name1: ZTF20ABTCTGR	RA: 23 01 9.5598 (345.2898325d) Dec: +23 29 12.26 (23.48674d) Equinox: J2000		V=17.5+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]						

Proposal 15889 - TOO-SN-15-EPOCH1 (48) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088	42.936143 Secs (42.936 Secs)	[==>]	[1]	
	2	(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816	42.936143 Secs (42.936 Secs)	[==>]	[1]	
	3	(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544	32.93518 Secs (32.935 Secs)	[==>]	[1]	
	4	(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544	352.935448 Secs (352.935 Secs)	[==>]	[1]	
	5	(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272	352.935448 Secs (352.935 Secs)	[==>]	[1]	
	6	(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272	32.93518 Secs (32.935 Secs)	[==>]	[1]	
	7	(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	8	(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000	402.935899 Secs (402.936 Secs)	[==>]	[1]	
	9	(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272	402.935899 Secs (402.936 Secs)	[==>]	[1]	
	10	(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	11	(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	12	(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	13	(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088	22.934217 Secs (22.934 Secs)	[==>]	[1]	
14	(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360	22.934217 Secs (22.934 Secs)	[==>]	[1]		



Proposal 15889 - TOO-SN-15-EPOCH2 (49) - Supernovae in the Infrared avec Hubble

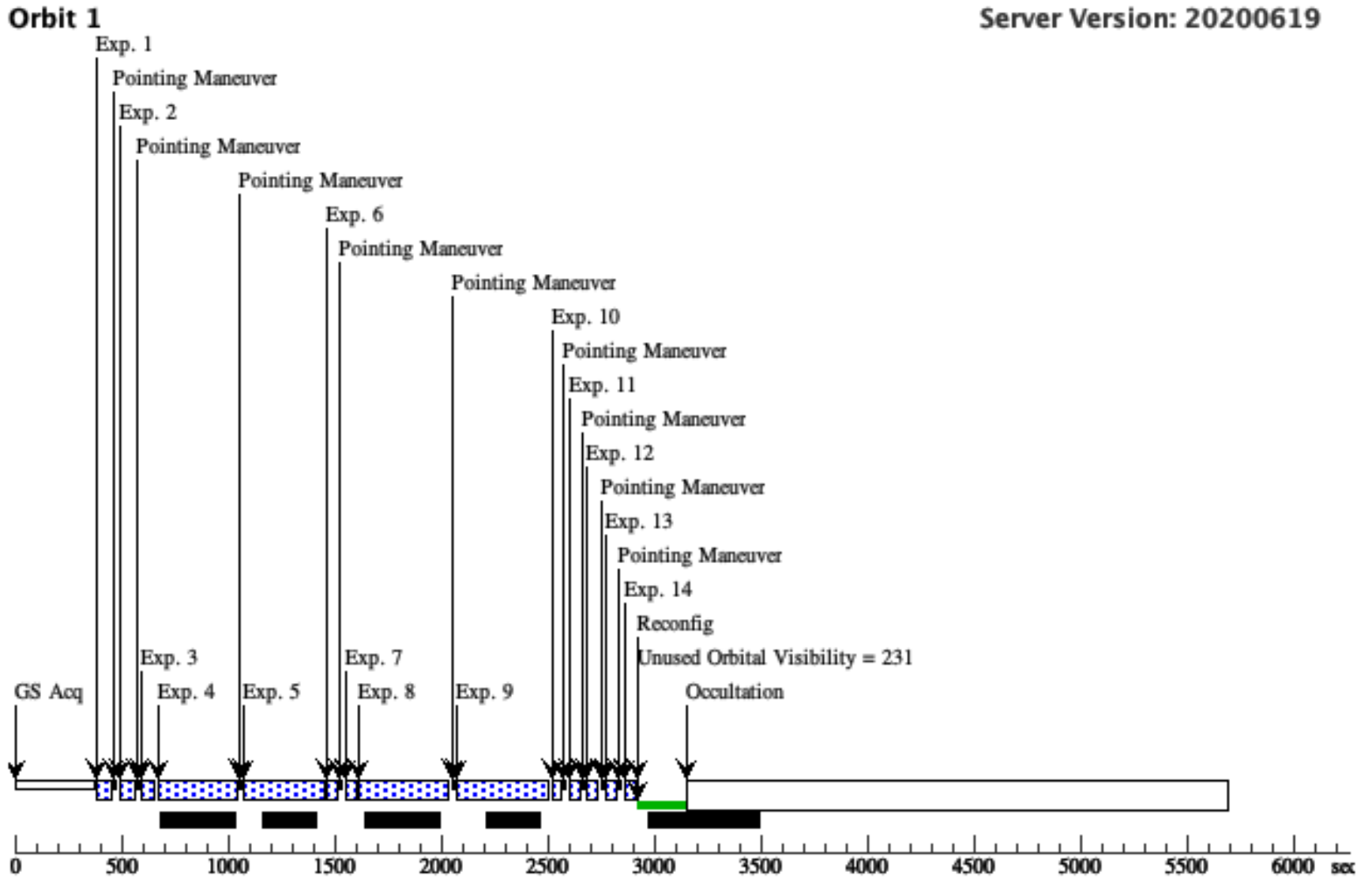
Tue Sep 22 14:02:28 GMT 2020

Visit	Proposal 15889, TOO-SN-15-EPOCH2 (49), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 48; AFTER 48 BY 5.0 D TO 20.0 D; ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(87)		SN2020RLJ Alt Name1: ZTF20ABTCTGR	RA: 23 01 9.5598 (345.2898325d) Dec: +23 29 12.26 (23.48674d) Equinox: J2000		V=17.5+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]						

Proposal 15889 - TOO-SN-15-EPOCH2 (49) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088		42.936143 Secs (42.936 Secs) [==>]	[1]
	2		(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816		42.936143 Secs (42.936 Secs) [==>]	[1]
	3		(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544		32.93518 Secs (32.935 Secs) [==>]	[1]
	4		(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544		352.935448 Secs (352.935 Secs) [==>]	[1]
	5		(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272		352.935448 Secs (352.935 Secs) [==>]	[1]
	6		(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272		32.93518 Secs (32.935 Secs) [==>]	[1]
	7		(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000		22.934217 Secs (22.934 Secs) [==>]	[1]
	8		(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000		402.935899 Secs (402.936 Secs) [==>]	[1]
	9		(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272		402.935899 Secs (402.936 Secs) [==>]	[1]
	10		(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272		22.934217 Secs (22.934 Secs) [==>]	[1]
	11		(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544		22.934217 Secs (22.934 Secs) [==>]	[1]
	12		(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816		22.934217 Secs (22.934 Secs) [==>]	[1]
	13		(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088		22.934217 Secs (22.934 Secs) [==>]	[1]
14		(87) SN2020RLJ	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360		22.934217 Secs (22.934 Secs) [==>]	[1]	

Orbit Structure



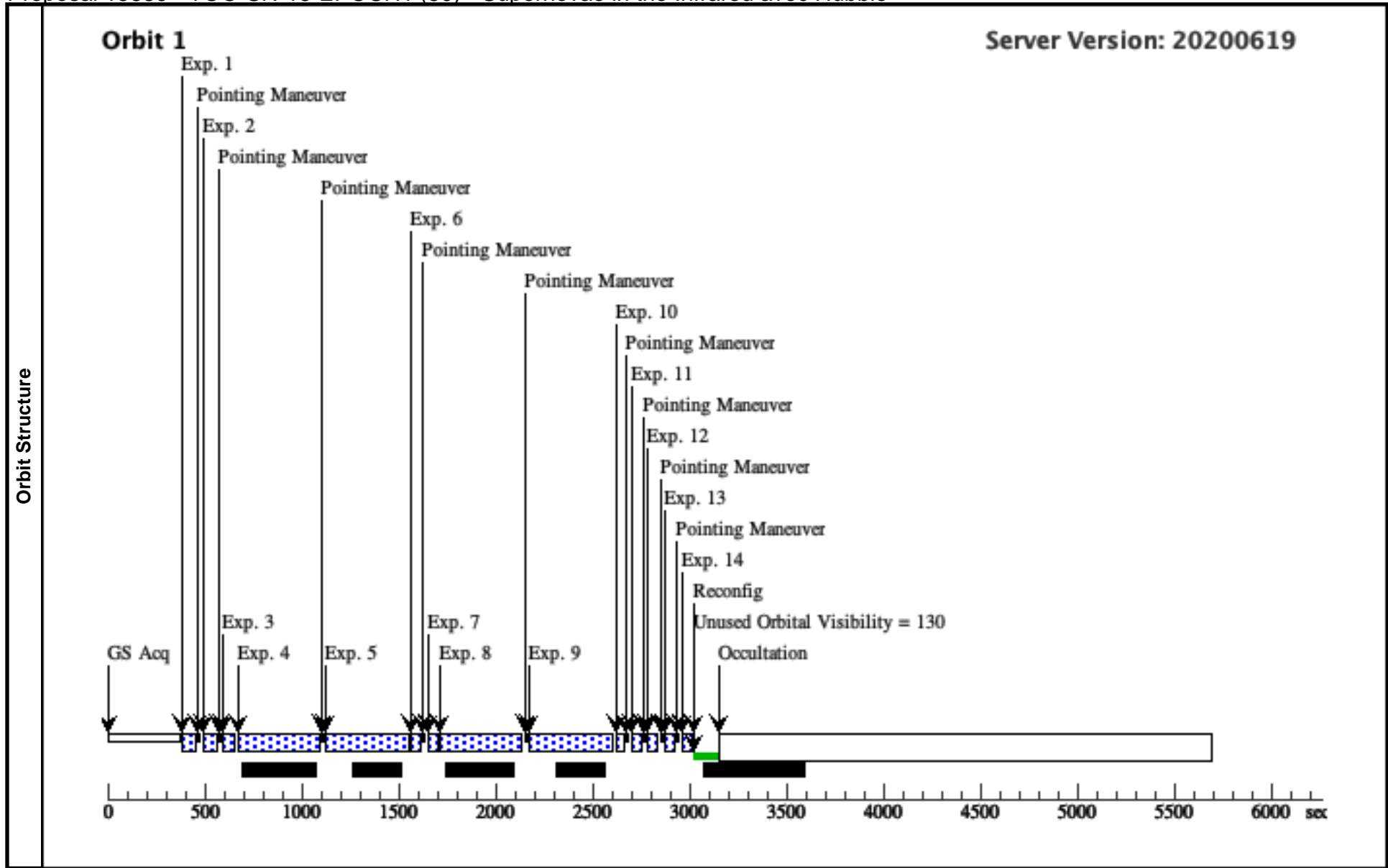
Proposal 15889 - TOO-SN-16-EPOCH1 (50) - Supernovae in the Infrared avec Hubble

Tue Sep 22 14:02:28 GMT 2020

Visit	Proposal 15889, TOO-SN-16-EPOCH1 (50), scheduled Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(88)		SN2020SZR Alt Name1: ATLAS20ZNE Alt Name2: PS20HJN	RA: 23 09 34.8473 (347.3951971d) Dec: +15 39 41.18 (15.66144d) Equinox: J2000		V=17.5+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]						

Proposal 15889 - TOO-SN-16-EPOCH1 (50) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088	42.936143 Secs (42.936 Secs)	[==>]	[1]	
	2	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816	42.936143 Secs (42.936 Secs)	[==>]	[1]	
	3	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544	32.93518 Secs (32.935 Secs)	[==>]	[1]	
	4	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544	402.935899 Secs (402.936 Secs)	[==>]	[1]	
	5	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272	402.935899 Secs (402.936 Secs)	[==>]	[1]	
	6	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272	32.93518 Secs (32.935 Secs)	[==>]	[1]	
	7	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	8	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000	402.935899 Secs (402.936 Secs)	[==>]	[1]	
	9	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272	402.935899 Secs (402.936 Secs)	[==>]	[1]	
	10	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	11	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	12	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	13	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088	22.934217 Secs (22.934 Secs)	[==>]	[1]	
14	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360	22.934217 Secs (22.934 Secs)	[==>]	[1]		

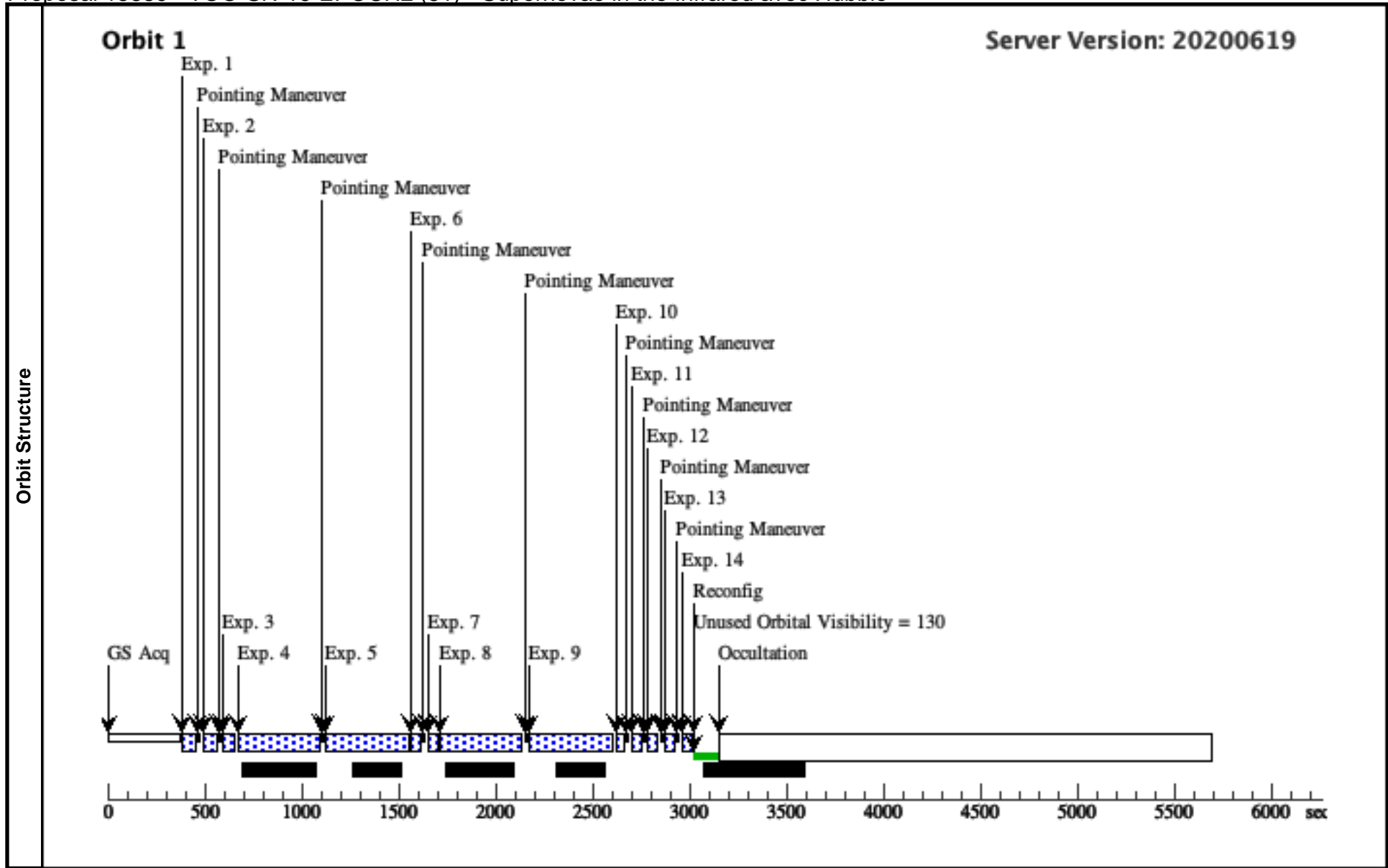


Proposal 15889 - TOO-SN-16-EPOCH2 (51) - Supernovae in the Infrared avec Hubble

Visit	Proposal 15889, TOO-SN-16-EPOCH2 (51), scheduled Tue Sep 22 14:02:28 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 50; AFTER 50 BY 5.0 D TO 20.0 D; ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(88)		SN2020SZR Alt Name1: ATLAS20ZNE Alt Name2: PS20HJN	RA: 23 09 34.8473 (347.3951971d) Dec: +15 39 41.18 (15.66144d) Equinox: J2000		V=17.5+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]						

Proposal 15889 - TOO-SN-16-EPOCH2 (51) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088	42.936143 Secs (42.936 Secs)	[==>]	[1]	
	2	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816	42.936143 Secs (42.936 Secs)	[==>]	[1]	
	3	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544	32.93518 Secs (32.935 Secs)	[==>]	[1]	
	4	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544	402.935899 Secs (402.936 Secs)	[==>]	[1]	
	5	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272	402.935899 Secs (402.936 Secs)	[==>]	[1]	
	6	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272	32.93518 Secs (32.935 Secs)	[==>]	[1]	
	7	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	8	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000	402.935899 Secs (402.936 Secs)	[==>]	[1]	
	9	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272	402.935899 Secs (402.936 Secs)	[==>]	[1]	
	10	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	11	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	12	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	13	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088	22.934217 Secs (22.934 Secs)	[==>]	[1]	
14	(88) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360	22.934217 Secs (22.934 Secs)	[==>]	[1]		



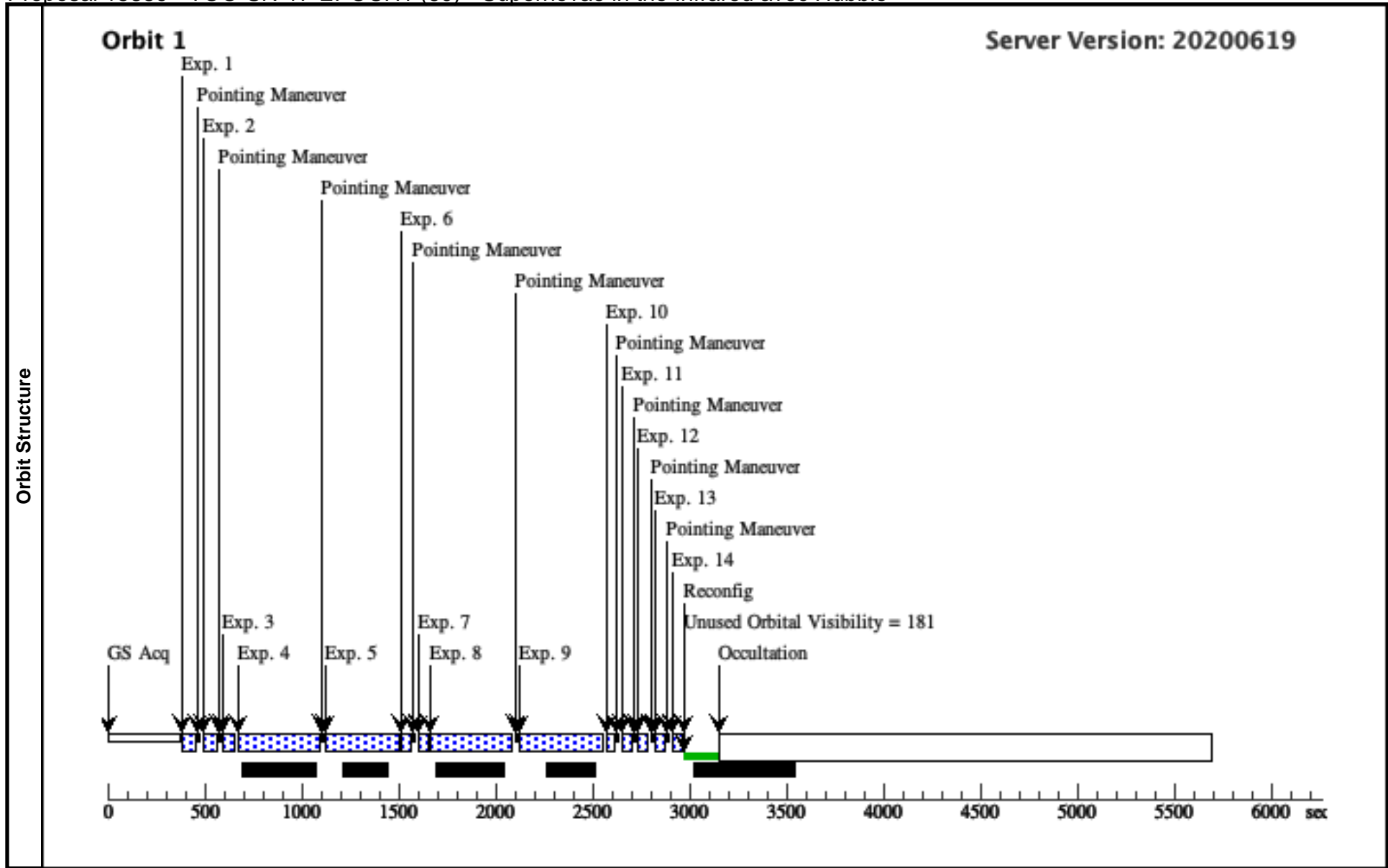
Proposal 15889 - TOO-SN-17-EPOCH1 (60) - Supernovae in the Infrared avec Hubble

Tue Sep 22 14:02:28 GMT 2020

Visit	Proposal 15889, TOO-SN-17-EPOCH1 (60) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD ; TOO RESPONSE TIME 21.0D <i>On Hold Comments: Target of opportunity</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(89)		SN2020TKP Alt Name1: ZTF20ABZBFCT Alt Name2: PS20HOA	RA: 23 58 11.4534 (359.5477225d) Dec: +22 46 21.59 (22.77266d) Equinox: J2000		V=17.5+/-1.0	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE IA]						

Proposal 15889 - TOO-SN-17-EPOCH1 (60) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088		42.936143 Secs (42.936 Secs) [==>]	[1]
	2		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816		42.936143 Secs (42.936 Secs) [==>]	[1]
	3		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544		32.93518 Secs (32.935 Secs) [==>]	[1]
	4		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544		402.935899 Secs (402.936 Secs) [==>]	[1]
	5		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272		352.935448 Secs (352.935 Secs) [==>]	[1]
	6		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272		32.93518 Secs (32.935 Secs) [==>]	[1]
	7		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000		22.934217 Secs (22.934 Secs) [==>]	[1]
	8		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000		402.935899 Secs (402.936 Secs) [==>]	[1]
	9		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272		402.935899 Secs (402.936 Secs) [==>]	[1]
	10		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272		22.934217 Secs (22.934 Secs) [==>]	[1]
	11		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544		22.934217 Secs (22.934 Secs) [==>]	[1]
	12		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816		22.934217 Secs (22.934 Secs) [==>]	[1]
	13		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088		22.934217 Secs (22.934 Secs) [==>]	[1]
14		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360		22.934217 Secs (22.934 Secs) [==>]	[1]	



Proposal 15889 - TOO-SN-17-EPOCH2 (29) - Supernovae in the Infrared avec Hubble

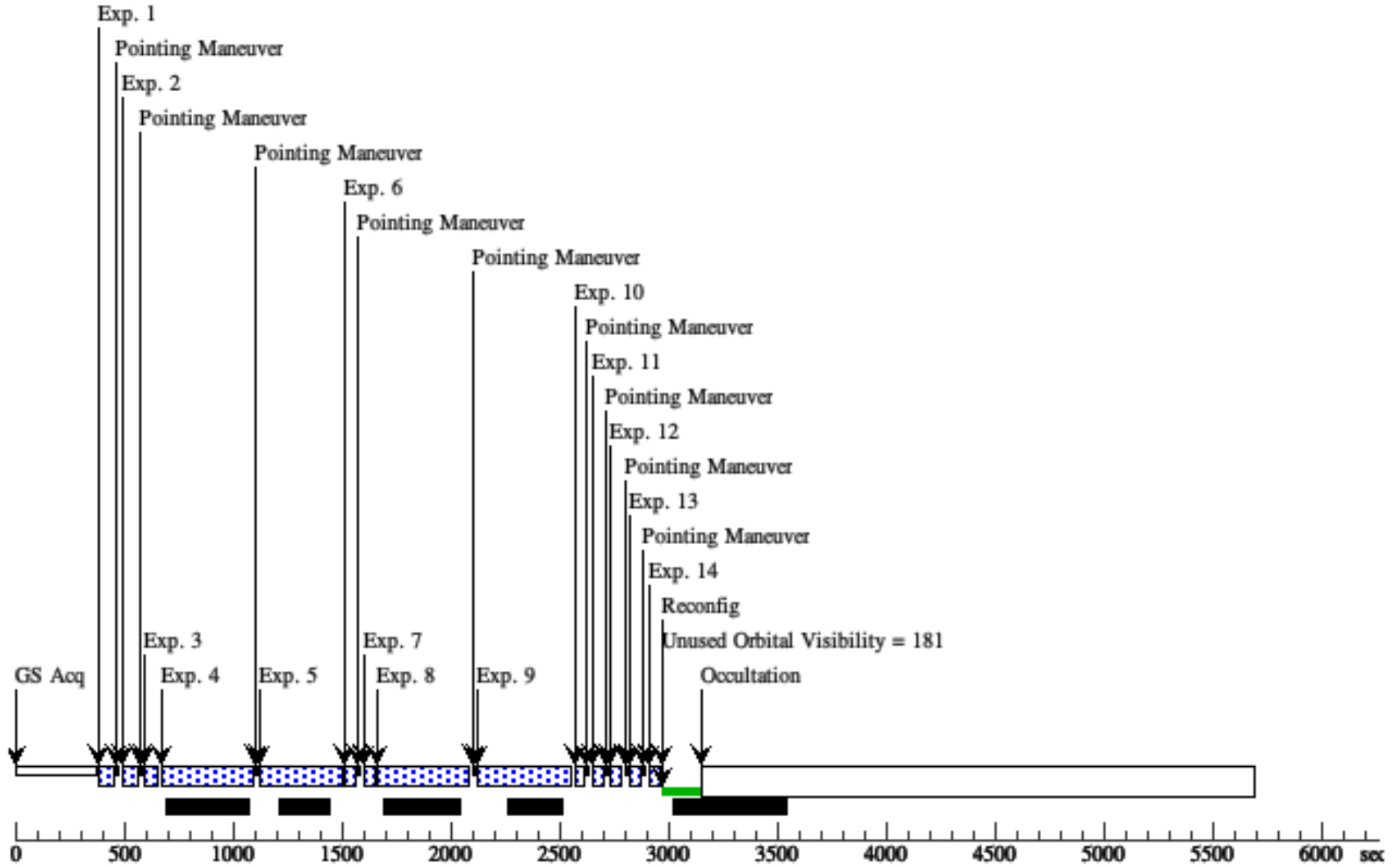
Visit	Proposal 15889, TOO-SN-17-EPOCH2 (29), implementation Tue Sep 22 14:02:28 GMT 2020					
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 60; AFTER 60 BY 5.0 D TO 20.0 D; ON HOLD ; TOO RESPONSE TIME 21.0D Comments: <i>second epoch of replacement target for failed visit 28 SN2020JDO</i> On Hold Comments: <i>Target of opportunity</i>					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(89)	SN2020TKP Alt Name1: ZTF20ABZBFCT Alt Name2: PS20HOA	RA: 23 58 11.4534 (359.5477225d) Dec: +22 46 21.59 (22.77266d) Equinox: J2000		V=17.5+/-1.0	Reference Frame: ICRS
Comments: Category=EXT-STAR Description=[SUPERNOVA TYPE IA]						

Proposal 15889 - TOO-SN-17-EPOCH2 (29) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088		42.936143 Secs (42.936 Secs) [==>]	[1]
	2		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816		42.936143 Secs (42.936 Secs) [==>]	[1]
	3		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544		32.93518 Secs (32.935 Secs) [==>]	[1]
	4		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544		402.935899 Secs (402.936 Secs) [==>]	[1]
	5		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272		352.935448 Secs (352.935 Secs) [==>]	[1]
	6		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272		32.93518 Secs (32.935 Secs) [==>]	[1]
	7		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000		22.934217 Secs (22.934 Secs) [==>]	[1]
	8		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000		402.935899 Secs (402.936 Secs) [==>]	[1]
	9		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272		402.935899 Secs (402.936 Secs) [==>]	[1]
	10		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272		22.934217 Secs (22.934 Secs) [==>]	[1]
	11		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544		22.934217 Secs (22.934 Secs) [==>]	[1]
	12		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816		22.934217 Secs (22.934 Secs) [==>]	[1]
	13		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088		22.934217 Secs (22.934 Secs) [==>]	[1]
14		(89) SN2020TKP	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360		22.934217 Secs (22.934 Secs) [==>]	[1]	

Orbit Structure

Orbit 1



Proposal 15889 - TOO-SN-18-EPOCH1 (61) - Supernovae in the Infrared avec Hubble

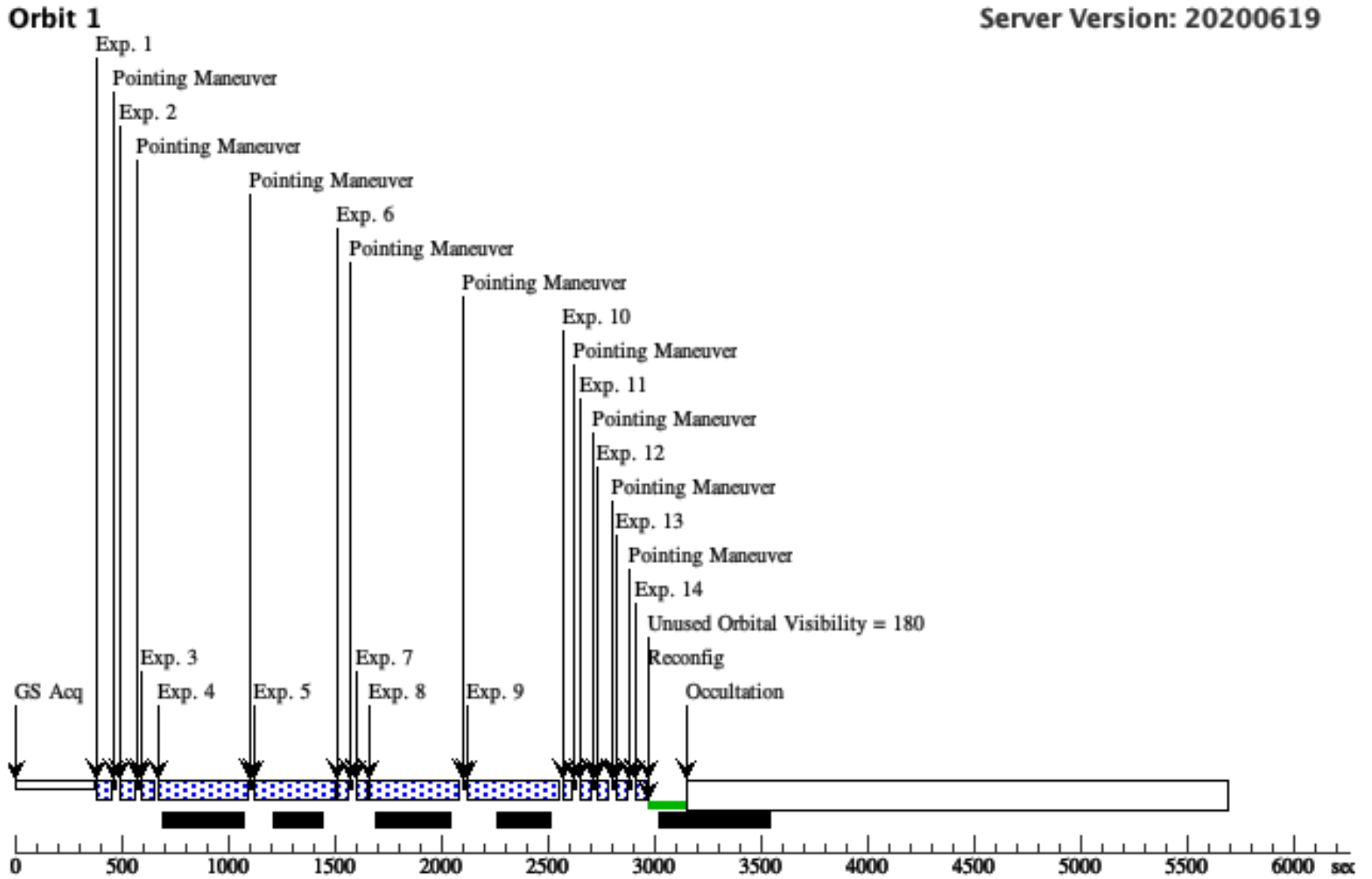
Tue Sep 22 14:02:28 GMT 2020

Visit	Proposal 15889, TOO-SN-18-EPOCH1 (61) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ON HOLD ; TOO RESPONSE TIME 21.0D Comments: first epoch of replacement target for failed visit 48 SN2020RLJ On Hold Comments: Target of opportunity					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(90)		SN2020TUG Alt Name1: ZTF20ACBOVRT	RA: 23 59 28.1666 (359.8673608d) Dec: +17 51 49.63 (17.86379d) Equinox: J2000		V=17.5+/-1.0	Reference Frame: ICRS
	Comments: Category=EXT-STAR Description=[SUPERNOVA]					

Proposal 15889 - TOO-SN-18-EPOCH1 (61) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088		42.936143 Secs (42.936 Secs) [==>]	[1]
	2		(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816		42.936143 Secs (42.936 Secs) [==>]	[1]
	3		(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544		32.93518 Secs (32.935 Secs) [==>]	[1]
	4		(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544		402.935899 Secs (402.936 Secs) [==>]	[1]
	5		(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272		352.935448 Secs (352.935 Secs) [==>]	[1]
	6		(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272		32.93518 Secs (32.935 Secs) [==>]	[1]
	7		(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000		22.934217 Secs (22.934 Secs) [==>]	[1]
	8		(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000		402.935899 Secs (402.936 Secs) [==>]	[1]
	9		(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272		402.935899 Secs (402.936 Secs) [==>]	[1]
	10		(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272		22.934217 Secs (22.934 Secs) [==>]	[1]
	11		(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544		22.934217 Secs (22.934 Secs) [==>]	[1]
	12		(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816		22.934217 Secs (22.934 Secs) [==>]	[1]
	13		(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088		22.934217 Secs (22.934 Secs) [==>]	[1]
14		(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360		22.934217 Secs (22.934 Secs) [==>]	[1]	

Orbit Structure



Proposal 15889 - TOO-SN-18-EPOCH2 (62) - Supernovae in the Infrared avec Hubble

Tue Sep 22 14:02:28 GMT 2020

Visit	Proposal 15889, TOO-SN-18-EPOCH2 (62) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 61; AFTER 61 BY 5.0 D TO 20.0 D; ON HOLD ; TOO RESPONSE TIME 21.0D Comments: <i>second epoch of replacement target for failed visit 49 SN2020RLJ</i> On Hold Comments: <i>Target of opportunity</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(90)		SN2020TUG Alt Name1: ZTF20ACBOVRT	RA: 23 59 28.1666 (359.8673608d) Dec: +17 51 49.63 (17.86379d) Equinox: J2000		V=17.5+/-1.0	Reference Frame: ICRS
Comments: Category= <i>EXT-STAR</i> Description= <i>[SUPERNOVA]</i>						

Proposal 15889 - TOO-SN-18-EPOCH2 (62) - Supernovae in the Infrared avec Hubble

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -5.688,- 5.088	42.936143 Secs (42.936 Secs)	[==>]	[1]	
	2	(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S10	POS TARG -4.266,- 3.816	42.936143 Secs (42.936 Secs)	[==>]	[1]	
	3	(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -2.844,- 2.544	32.93518 Secs (32.935 Secs)	[==>]	[1]	
	4	(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -2.844,- 2.544	402.935899 Secs (402.936 Secs)	[==>]	[1]	
	5	(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG -1.422,- 1.272	352.935448 Secs (352.935 Secs)	[==>]	[1]	
	6	(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=4; SAMP-SEQ=SPAR S10	POS TARG -1.422,- 1.272	32.93518 Secs (32.935 Secs)	[==>]	[1]	
	7	(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG 0.000,0. 000	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	8	(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.000,0. 000	402.935899 Secs (402.936 Secs)	[==>]	[1]	
	9	(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG +1.422, +1.272	402.935899 Secs (402.936 Secs)	[==>]	[1]	
	10	(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +1.422, +1.272	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	11	(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +2.844, +2.544	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	12	(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	F105W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +4.266, +3.816	22.934217 Secs (22.934 Secs)	[==>]	[1]	
	13	(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +5.688, +5.088	22.934217 Secs (22.934 Secs)	[==>]	[1]	
14	(90) SN2020TUG	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=3; SAMP-SEQ=SPAR S10	POS TARG +7.110, +6.360	22.934217 Secs (22.934 Secs)	[==>]	[1]		

Orbit Structure

