13621 - The closest reddened Type Ia supernova in the HST life time

Cycle: 21, Proposal Category: GO/DD

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) SN2014J	WFC3/UVIS	1	24-Jan-2014 21:46:48.0	yes
02	(1) SN2014J	WFC3/UVIS	1	24-Jan-2014 21:47:07.0	yes
03	(1) SN2014J	WFC3/UVIS	1	24-Jan-2014 21:47:27.0	yes
04	(1) SN2014J	WFC3/UVIS	1	24-Jan-2014 21:47:45.0	yes
05	(1) SN2014J	WFC3/UVIS	1	24-Jan-2014 21:48:06.0	yes
06	(1) SN2014J	WFC3/UVIS	1	24-Jan-2014 21:48:21.0	yes
07	(1) SN2014J	WFC3/UVIS	1	24-Jan-2014 21:48:35.0	yes

7 Total Orbits Used

ABSTRACT

The Type Ia supernova just discovered in M82 offers the best chance within our blifetime to resolve one of the outstanding questions of the astrophysics of the interstellar medium and the use of Type Ia SNe for cosmology. We have a unique opportunity to both explore the SNIa progenitor scenario, the circumstellar environment, and dust along the line of sight. HST multi-epoch in UV spectroscopy and photometry, as well as spectroscopy of SNe with a range in optical colors, is needed to break the degeneracy for the scenarios that have been considered here. If evidence for CS material is detected, the multi-wavelength data-set will yield a good estimate of the range in CS shell radii, widths and dust content needed to understand and model the color-brightness relation to get accurate cosmological distances to SN~Ia.

OBSERVING DESCRIPTION

TBD

Visit

Proposal 13621, Epoch 1 SN2014J (01), implementation Sat Jan 25 02:48:47 GMT 2014

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; BEFORE 29-JAN-2014:00:00:00

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=2 Line Spacing=3	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1-4)

Fixed Targets

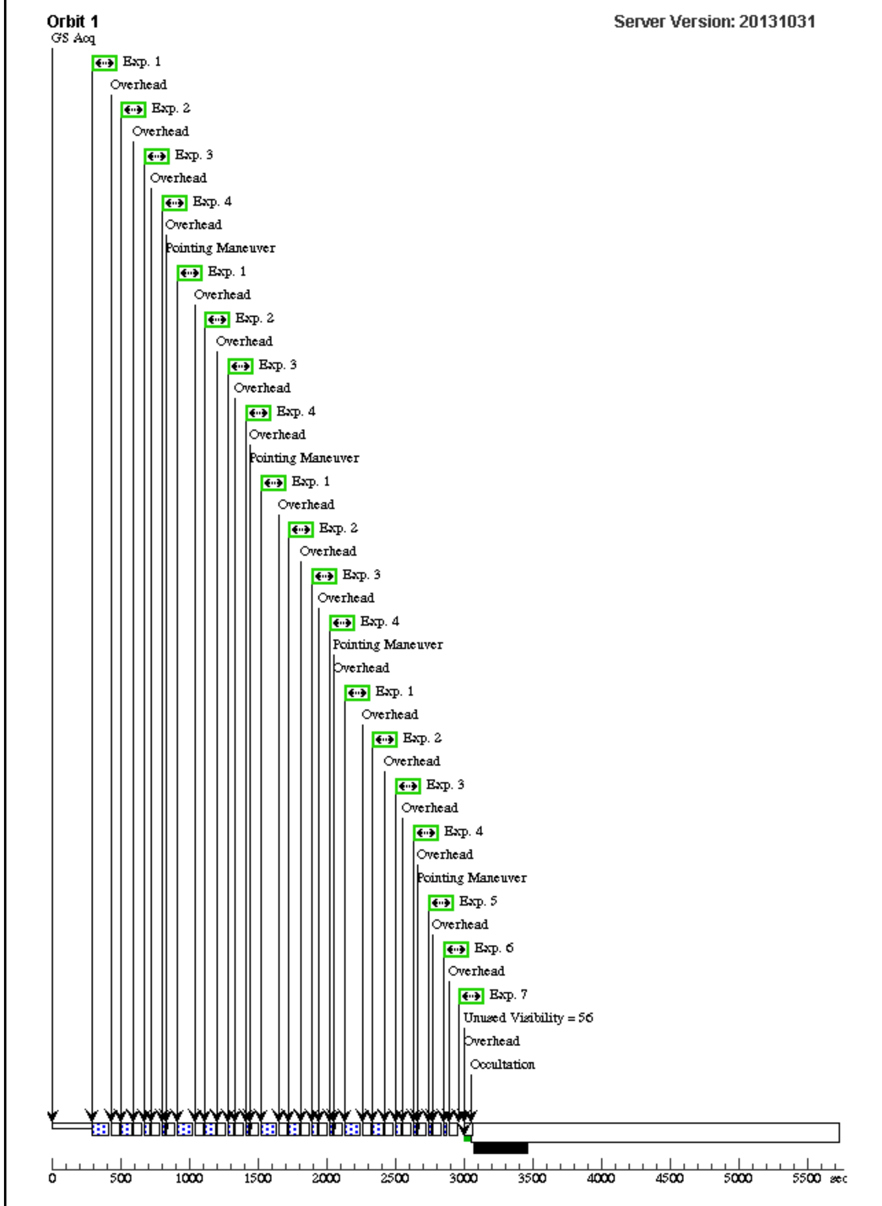
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	SN2014J	RA: 09 55 42.2170 (148.9259042d) Dec: +69 40 26.56 (69.67404d) Equinox: J2000		V=10+/-0.5	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F218W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F218W		GS ACQ SCENARIO BASE1B3	Pattern 1, Exps 1-4 in Epoch 1 SN2014J (01) (1)	90 Secs (360 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2	F225W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F225W			Pattern 1, Exps 1-4 in Epoch 1 SN2014J (01) (1)	60 Secs (240 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3	F275W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F275W			Pattern 1, Exps 1-4 in Epoch 1 SN2014J (01) (1)	10 Secs (40 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
4	F336W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F336W			Pattern 1, Exps 1-4 in Epoch 1 SN2014J (01) (1)	0.5 Secs (2 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
5	F467M	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F467M				0.5 Secs (0.5 Secs) *[==>]*	***[1]***
6	F631N	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F631N				0.5 Secs (0.5 Secs) *[==>]*	***[1]***
7	F845M	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F845M				0.5 Secs (0.5 Secs) *[==>]*	***[1]***

Proposal 13621 - Epoch 1 SN2014J (01) - The closest reddened Type Ia supernova in the HST life time

Orbit Structure



Visit

Proposal 13621, Epoch 2 SN2014J (02), implementation — Sat Jan 25 02:48:50 GMT 2014

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; AFTER 01 BY 3 D TO 4 D

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=2 Line Spacing=3	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1-4)

Fixed Targets

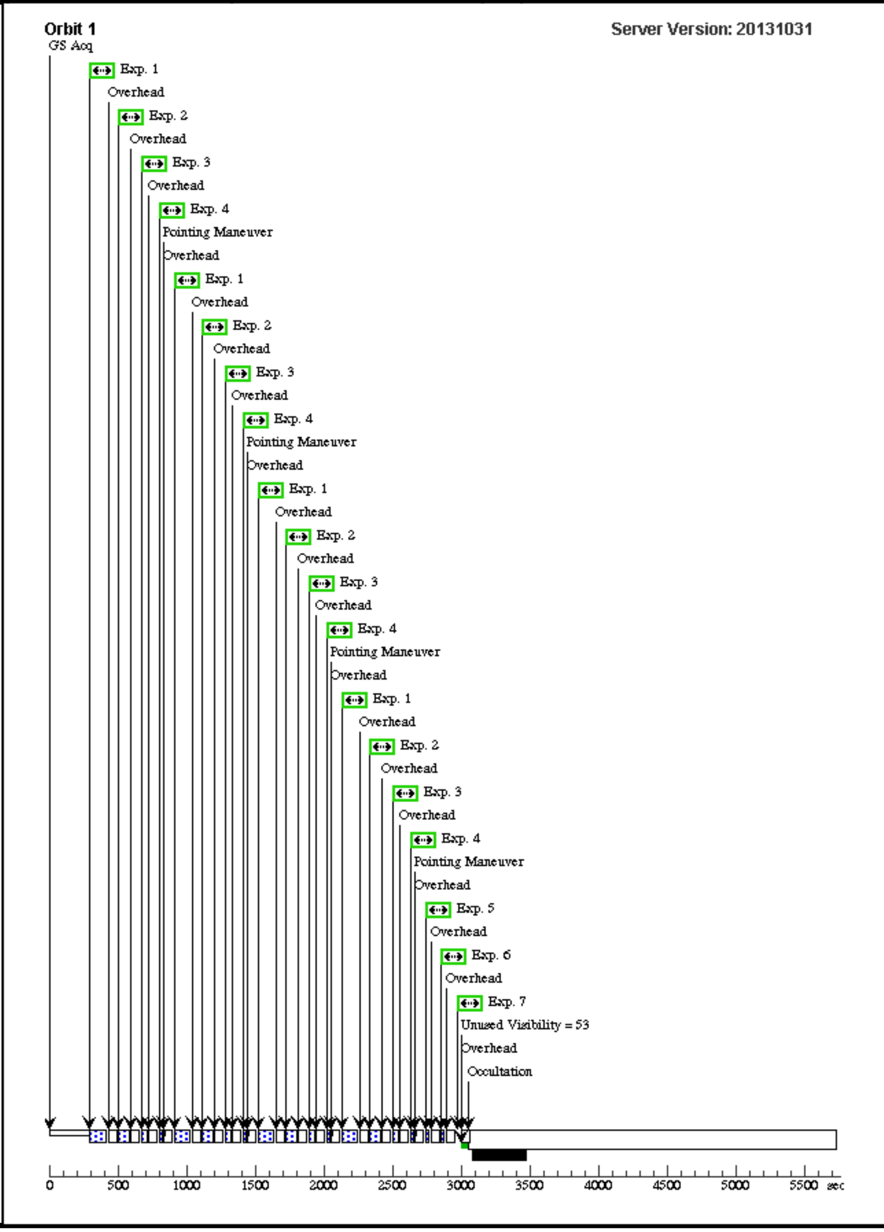
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	SN2014J	RA: 09 55 42.2170 (148.9259042d) Dec: +69 40 26.56 (69.67404d) Equinox: J2000		V=10+/-0.5	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F218W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F218W		GS ACQ SCENARIO BASE1B3	Pattern 1, Exps 1-4 in Epoch 2 SN2014J (02) (1)	90 Secs (360 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2	F225W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F225W			Pattern 1, Exps 1-4 in Epoch 2 SN2014J (02) (1)	60 Secs (240 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3	F275W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F275W			Pattern 1, Exps 1-4 in Epoch 2 SN2014J (02) (1)	10 Secs (40 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
4	F336W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F336W			Pattern 1, Exps 1-4 in Epoch 2 SN2014J (02) (1)	0.5 Secs (2 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
5	F438W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F438W				0.5 Secs (0.5 Secs) *[==>]*	***[1]***
6	F555W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W				0.5 Secs (0.5 Secs) *[==>]*	***[1]***
7	F814W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W				0.5 Secs (0.5 Secs) *[==>]*	***[1]***

Proposal 13621 - Epoch 2 SN2014J (02) - The closest reddened Type Ia supernova in the HST life time

Orbit Structure



Proposal 13621 - Epoch 3 SN2014J (03) - The closest reddened Type Ia supernova in the HST life time

Visit

Proposal 13621, Epoch 3 SN2014J (03), implementation Sat Jan 25 02:48:52 GMT 2014

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: AFTER 01 BY 7 D TO 8 D

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=2 Line Spacing=3	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1-4)
(4)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(5-7)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	SN2014J	RA: 09 55 42.2170 (148.9259042d) Dec: +69 40 26.56 (69.67404d) Equinox: J2000		V=10+/-0.5	Reference Frame: ICRS

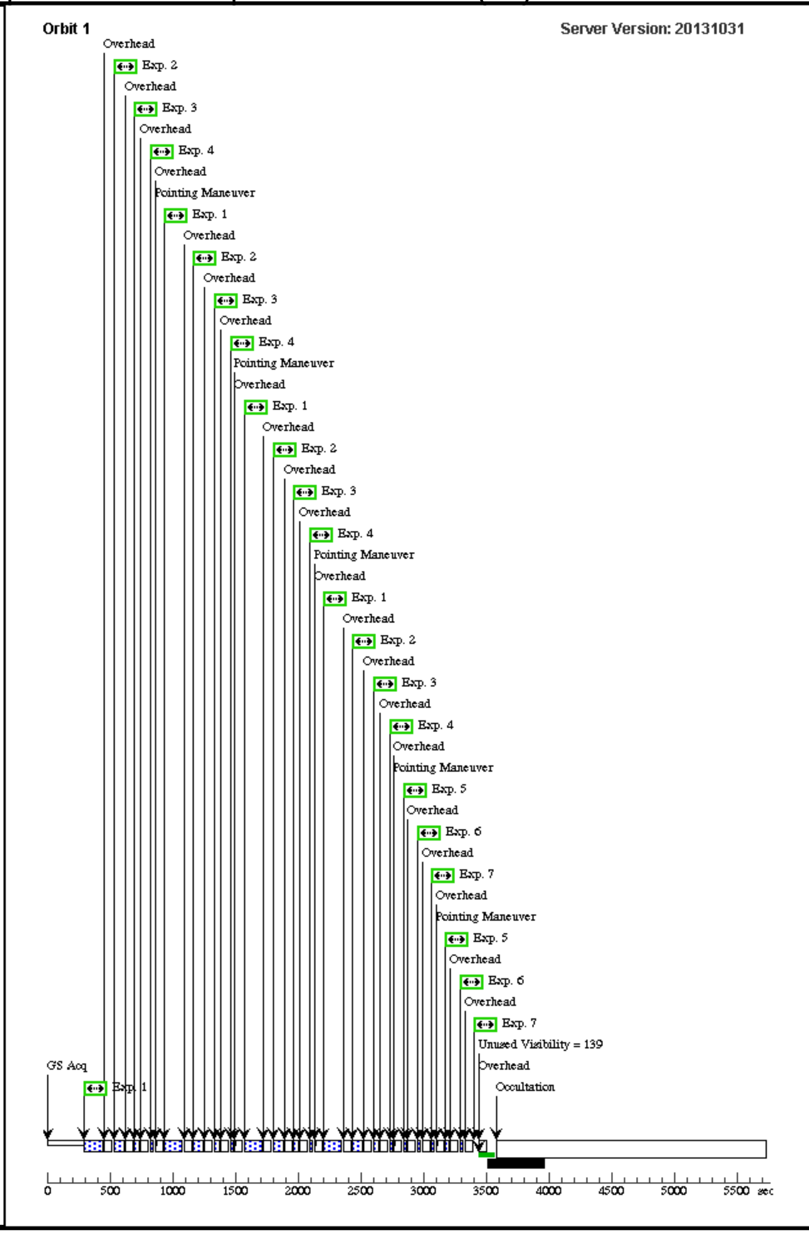
Proposal 13621 - Epoch 3 SN2014J (03) - The closest reddened Type Ia supernova in the HST life time

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F218W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F218W		GS ACQ SCENARIO BASE1B3	Pattern 1, Exps 1-4 in Epoch 3 SN2014J (03) (1)	115 Secs (460 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2	F225W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F225W			Pattern 1, Exps 1-4 in Epoch 3 SN2014J (03) (1)	60 Secs (240 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3	F275W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F275W			Pattern 1, Exps 1-4 in Epoch 3 SN2014J (03) (1)	10 Secs (40 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
4	F336W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F336W			Pattern 1, Exps 1-4 in Epoch 3 SN2014J (03) (1)	0.5 Secs (2 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
5	F467M	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F467M			Pattern 4, Exps 5-7 in Epoch 3 SN2014J (03) (4)	0.5 Secs (1 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***
6	F631N	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F631N			Pattern 4, Exps 5-7 in Epoch 3 SN2014J (03) (4)	0.5 Secs (1 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***
7	F845M	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F845M			Pattern 4, Exps 5-7 in Epoch 3 SN2014J (03) (4)	0.5 Secs (1 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***

Proposal 13621 - Epoch 3 SN2014J (03) - The closest reddened Type Ia supernova in the HST life time

Orbit Structure



Visit

Proposal 13621, Epoch 4 SN2014J (04), implementation Sat Jan 25 02:48:54 GMT 2014

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: AFTER 01 BY 11 D TO 12 D

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=2 Line Spacing=3	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1-4)
(4)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(5-7)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	SN2014J	RA: 09 55 42.2170 (148.9259042d) Dec: +69 40 26.56 (69.67404d) Equinox: J2000		V=10+/-0.5	Reference Frame: ICRS

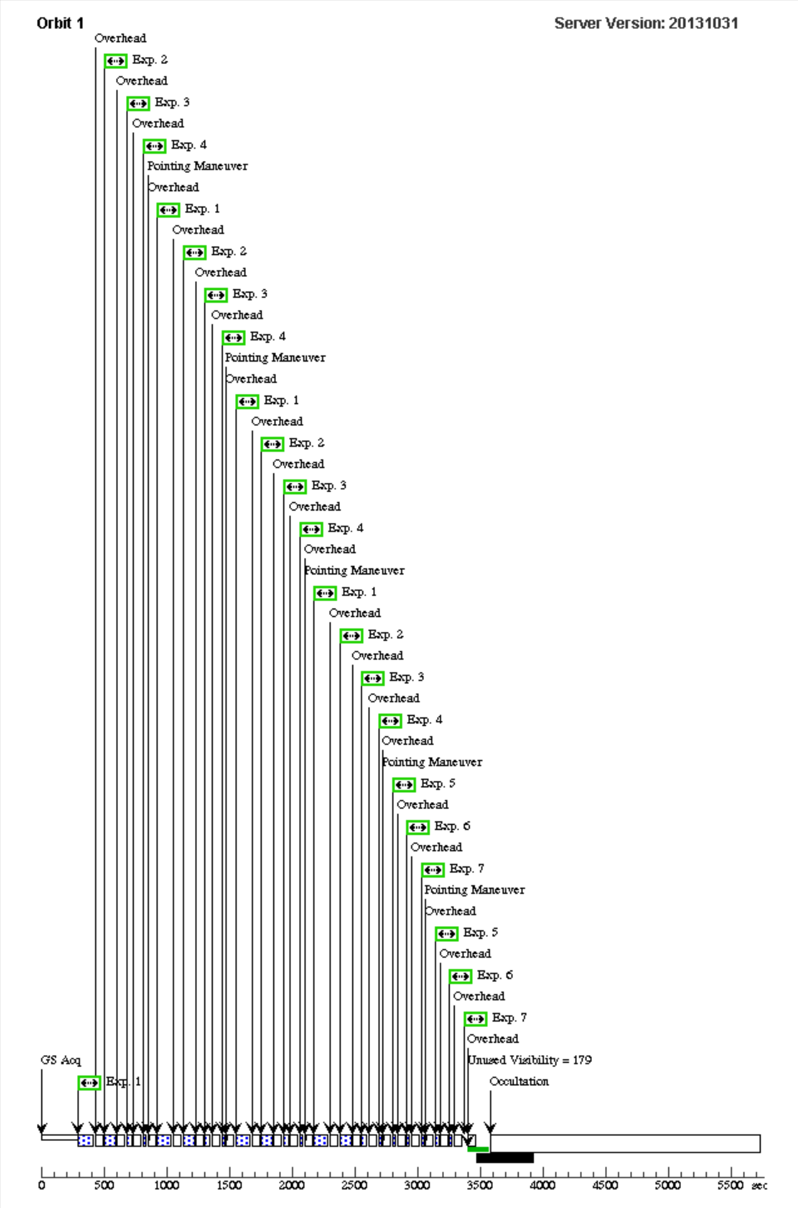
Proposal 13621 - Epoch 4 SN2014J (04) - The closest reddened Type Ia supernova in the HST life time

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F218W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F218W		GS ACQ SCENARIO BASE1B3	Pattern 1, Exps 1-4 in Epoch 4 SN2014J (04) (1)	90 Secs (360 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2	F225W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F225W			Pattern 1, Exps 1-4 in Epoch 4 SN2014J (04) (1)	70 Secs (280 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3	F275W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F275W			Pattern 1, Exps 1-4 in Epoch 4 SN2014J (04) (1)	15 Secs (60 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
4	F336W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F336W			Pattern 1, Exps 1-4 in Epoch 4 SN2014J (04) (1)	0.5 Secs (2 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
5	F438W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F438W			Pattern 4, Exps 5-7 in Epoch 4 SN2014J (04) (4)	0.5 Secs (1 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***
6	F555W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W			Pattern 4, Exps 5-7 in Epoch 4 SN2014J (04) (4)	0.5 Secs (1 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***
7	F814W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W			Pattern 4, Exps 5-7 in Epoch 4 SN2014J (04) (4)	0.5 Secs (1 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***

Proposal 13621 - Epoch 4 SN2014J (04) - The closest reddened Type Ia supernova in the HST life time

Orbit Structure



Visit

Proposal 13621, Epoch 5 SN2014J (05), implementation Sat Jan 25 02:48:56 GMT 2014

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; AFTER 01 BY 17 D TO 19 D

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=2 Line Spacing=3	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1-4)

Fixed Targets

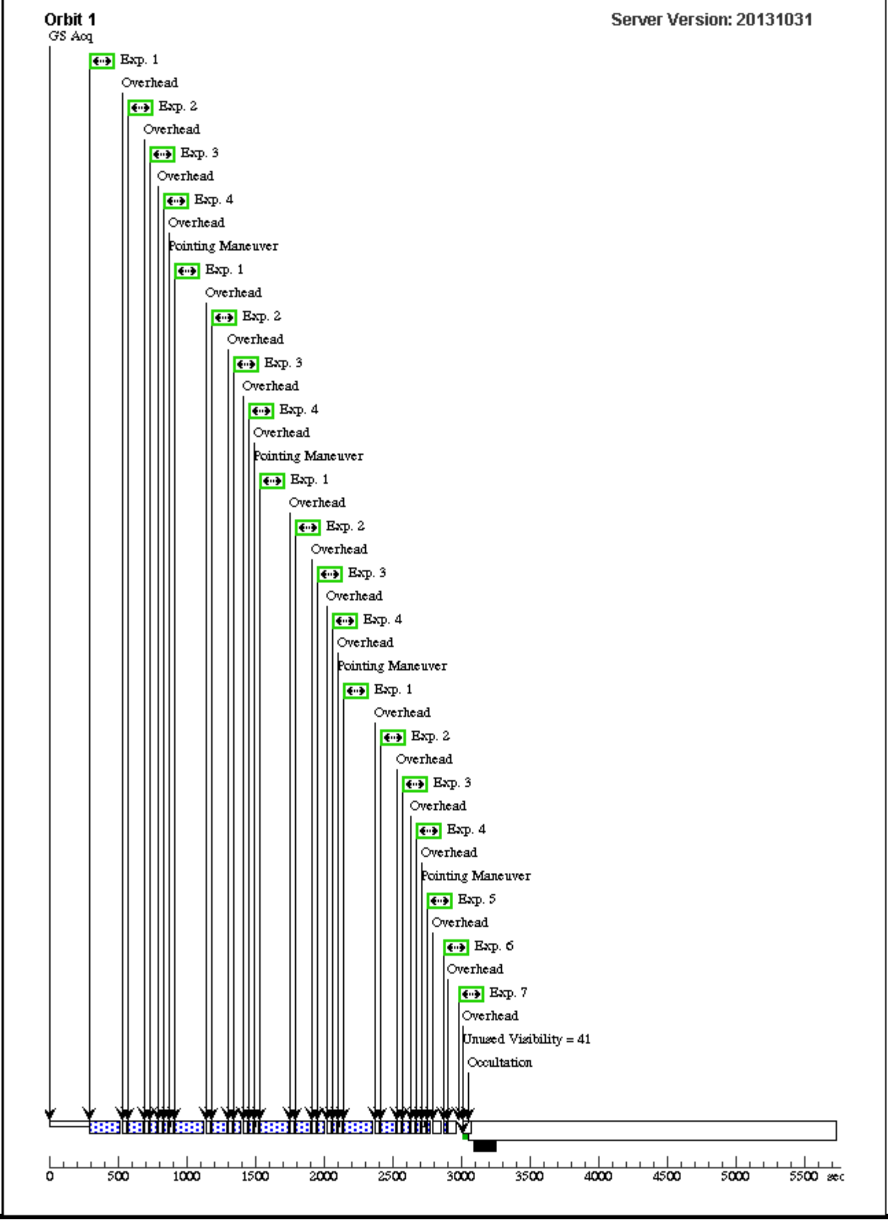
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	SN2014J	RA: 09 55 42.2170 (148.9259042d) Dec: +69 40 26.56 (69.67404d) Equinox: J2000		V=10+/-0.5	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F218W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F218W		GS ACQ SCENARIO BASE1B3	Pattern 1, Exps 1-4 in Epoch 5 SN2014J (05) (1)	190 Secs (760 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2	F225W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F225W			Pattern 1, Exps 1-4 in Epoch 5 SN2014J (05) (1)	90 Secs (360 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3	F275W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W			Pattern 1, Exps 1-4 in Epoch 5 SN2014J (05) (1)	25 Secs (100 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
4	F336W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F336W			Pattern 1, Exps 1-4 in Epoch 5 SN2014J (05) (1)	3 Secs (12 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
5	F438W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F438W				0.5 Secs (0.5 Secs) *[==>]*	***[1]***
6	F555W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W				0.5 Secs (0.5 Secs) *[==>]*	***[1]***
7	F814W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W				0.5 Secs (0.5 Secs) *[==>]*	***[1]***

Proposal 13621 - Epoch 5 SN2014J (05) - The closest reddened Type Ia supernova in the HST life time

Orbit Structure



Visit

Proposal 13621, Epoch 6 SN2014J (06), implementation

Sat Jan 25 02:48:57 GMT 2014

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; AFTER 01 BY 27 D TO 29 D

Patterns

#	Primary Pattern	Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=2 Line Spacing=3 Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1-4)

Fixed Targets

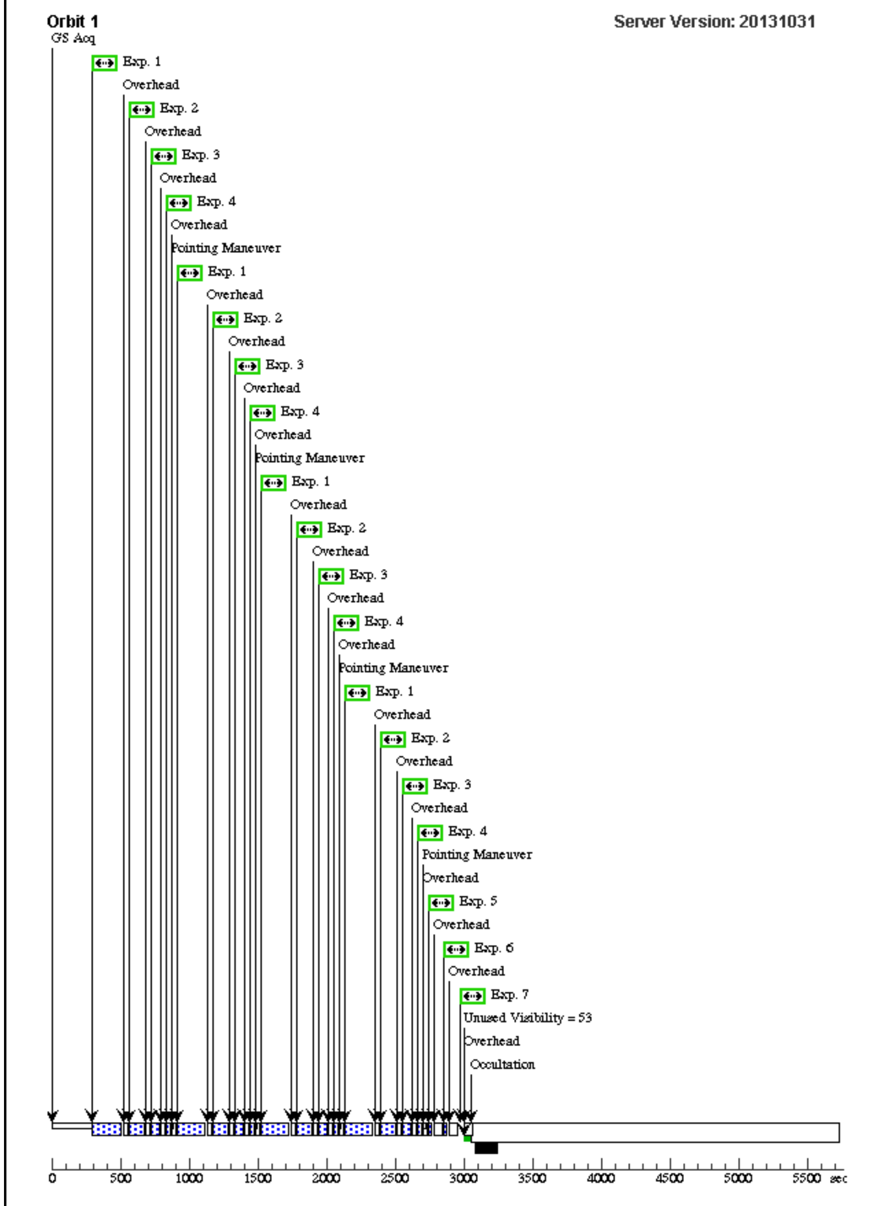
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	SN2014J	RA: 09 55 42.2170 (148.9259042d) Dec: +69 40 26.56 (69.67404d) Equinox: J2000		V=10+/-0.5	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F218W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F218W		GS ACQ SCENARIO BASE1B3	Pattern 1, Exps 1-4 in Epoch 6 SN2014J (06) (1)	180 Secs (720 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2	F225W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F225W			Pattern 1, Exps 1-4 in Epoch 6 SN2014J (06) (1)	90 Secs (360 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3	F275W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W			Pattern 1, Exps 1-4 in Epoch 6 SN2014J (06) (1)	30 Secs (120 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
4	F336W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F336W			Pattern 1, Exps 1-4 in Epoch 6 SN2014J (06) (1)	5 Secs (20 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
5	F438W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F438W				0.5 Secs (0.5 Secs) *[==>]*	***[1]***
6	F555W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W				0.5 Secs (0.5 Secs) *[==>]*	***[1]***
7	F814W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W				0.5 Secs (0.5 Secs) *[==>]*	***[1]***

Proposal 13621 - Epoch 6 SN2014J (06) - The closest reddened Type Ia supernova in the HST life time

Orbit Structure



Visit

Proposal 13621, Epoch 7 SN2014J (07), implementation Sat Jan 25 02:48:59 GMT 2014

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: AFTER 01 BY 36 D TO 38 D

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=2 Line Spacing=3	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1-4)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	SN2014J	RA: 09 55 42.2170 (148.9259042d) Dec: +69 40 26.56 (69.67404d) Equinox: J2000		V=10+/-0.5	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F218W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F218W		GS ACQ SCENARIO BASE1B3	Pattern 1, Exps 1-4 in Epoch 7 SN2014J (07) (1)	200 Secs (800 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
2	F225W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F225W			Pattern 1, Exps 1-4 in Epoch 7 SN2014J (07) (1)	180 Secs (720 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3	F275W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W			Pattern 1, Exps 1-4 in Epoch 7 SN2014J (07) (1)	120 Secs (480 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
4	F336W	(1) SN2014J	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F336W			Pattern 1, Exps 1-4 in Epoch 7 SN2014J (07) (1)	10 Secs (40 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Proposal 13621 - Epoch 7 SN2014J (07) - The closest reddened Type Ia supernova in the HST life time

Orbit Structure