



14904 - Supernova 1987A after 30 years

Cycle: 24, Proposal Category: GO/DD

(Availability Mode: SUPPORTED)

INVESTIGATORS

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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	(1) SN-1987A	WFC3/UVIS	1	04-Jan-2017 21:04:35.0	yes

1 Total Orbits Used

ABSTRACT

The 30th anniversary of the 1987A supernova is in early 2017. We propose a capstone observation of SN1987A using WFC3.

OBSERVING DESCRIPTION

We will perform deep WFC3/UVIS imaging with just the F657N filter (H-alpha plus NII), as much to detect the surrounding Tarantula Nebula as SN1987A itself. The dither pattern is essentially a stretched gap dither. The two main pointings cover each others chip gaps, but also stretch the field of view by almost 50 percent while still on one guide star acquisition. The large dither shift of 78 arcseconds can be reduced a bit to find suitable guide stars, if necessary, or the exposure times could be reduced by equal amounts.

Proposal 14904 - Visit 01 - Supernova 1987A after 30 years

Thu Jan 05 02:04:36 GMT 2017

Visit	Proposal 14904, Visit 01 Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BEFORE 23-JAN-2017:00:00:00									
	(Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SN-1987A	RA: 05 35 28.0200 (83.8667500d) Dec: -69 16 11.07 (-69.26974d) Equinox: J2000		V=4.81	Reference Frame: SIMBAD				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Extended=YES										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) SN-1987A	(1) SN-1987A	WFC3/UVIS, ACCUM, UVIS2-FIX	F657N	FLASH=12; CR-SPLIT=NO			620 Secs (620 Secs) [==>]	[1]
	2	(1) SN-1987A	(1) SN-1987A	WFC3/UVIS, ACCUM, UVIS2-FIX	F657N	FLASH=12; CR-SPLIT=NO	POS TARG 0.4,0.4		620 Secs (620 Secs) [==>]	[1]
	3	(1) SN-1987A	(1) SN-1987A	WFC3/UVIS, ACCUM, UVIS2-FIX	F657N	FLASH=12; CR-SPLIT=NO	POS TARG 0,78		620 Secs (620 Secs) [==>]	[1]
	4	(1) SN-1987A	(1) SN-1987A	WFC3/UVIS, ACCUM, UVIS2-FIX	F657N	FLASH=12; CR-SPLIT=NO	POS TARG 0.4,78.4		620 Secs (620 Secs) [==>]	[1]

