



## 17261 - WFC3 IR Time-Dependent Sensitivity: Spatial Scans

Cycle: 30, Proposal Category: CAL/WFC3

(Availability Mode: RESTRICTED)

### 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) M-35	WFC3/IR	1	14-Nov-2022 14:00:16.0	yes
02	(1) M-35	WFC3/IR	1	14-Nov-2022 14:00:20.0	yes

2 Total Orbits Used

### ABSTRACT

We aim to measure the time dependent sensitivity loss for WFC3/IR using spatial scans of the open cluster M35. We use spatial scanning as the SNR achieved from scanning is higher than conventional staring observations. The spatial scans build on the F140W observations performed in HST programs 14020, 16031 and 16439 as well as the F098M observations from programs 16031 and 16439. The observations will be carried out over two identical visits ~3 months apart and the observation structure in each visit is also identical with that executed in programs 16031 and 16439. The proposed data will extend the existing baseline by ~1 year and the short interval between the visits will provide additional sampling for the short-term repeatability analysis.

## **OBSERVING DESCRIPTION**

The two spatial scan visits are identical, but executed approximately ~3 months apart. Observations in each visit is executed with the following strategy:

The first observation is a simple direct image in F140W. The next 4 exposures are horizontal spatial scans (length ~13.2") in F140W with sequential dithers of 1 arcsecond, perpendicular to the scan direction (the -Y direction), between exposures, as to match the experiment performed in 14020. The following 10 exposures are performed in the same way, however with dithers of 1.4 arcseconds to further mitigate persistence. There are then 3 exposures taken with F098M, with the same 1.4" dithers in between each exposure. This puts one of the target stars at the bottom of the detector, thereby not allowing any further dithering in the previous direction. Then, a large 17 arcsecond dither is performed in the -X direction (to avoid scanning on the same pixels where the star already landed), and 3 more F098M observations are taken, with subsequent dithers of 1.4" in the +Y direction. We then switch back to F140W and take 5 more observations, with dithers of 3" between exposures, as to ensure persistence is mitigated. Lastly, we take a dark exposure with the same sample sequence (but using 11 reads) as to characterize persistence.

Proposal 17261 - M35 IR Scans - Epoch1 (01) - WFC3 IR Time-Dependent Sensitivity: Spatial Scans

<b>Visit</b>	<b>Proposal 17261, M35 IR Scans - Epoch1 (01)</b> <span style="float: right;">Mon Nov 14 19:00:21 GMT 2022</span> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 90D TO 90 D; BETWEEN 20-DEC-2022:00:00:00 AND 20-JAN-2023:00:00:00					
	<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>
(1)		M-35	RA: 06 09 2.8091 (92.2617046d) Dec: +24 21 54.23 (24.36506d) Equinox: J2000		V=5.1	Reference Frame: SIMBAD
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>An advantage of an open cluster is that it is not too dense like a globular, and an open cluster will contain a lot of (photometrically stable) main sequence stars.</i> Category=STELLAR CLUSTER Description=[OPEN CLUSTER]						

Proposal 17261 - M35 IR Scans - Epoch1 (01) - WFC3 IR Time-Dependent Sensitivity: Spatial Scans

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	IR Stare	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs) [==>]	[1]	
	2	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-1; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs) [==>]	[1]
	3	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-2; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs) [==>]	[1]
	4	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-3; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs) [==>]	[1]
	5	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-4; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs) [==>]	[1]
	6	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-5.4; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs) [==>]	[1]
	7	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-6.8; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs) [==>]	[1]
	8	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-8.2; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs) [==>]	[1]

Proposal 17261 - M35 IR Scans - Epoch1 (01) - WFC3 IR Time-Dependent Sensitivity: Spatial Scans

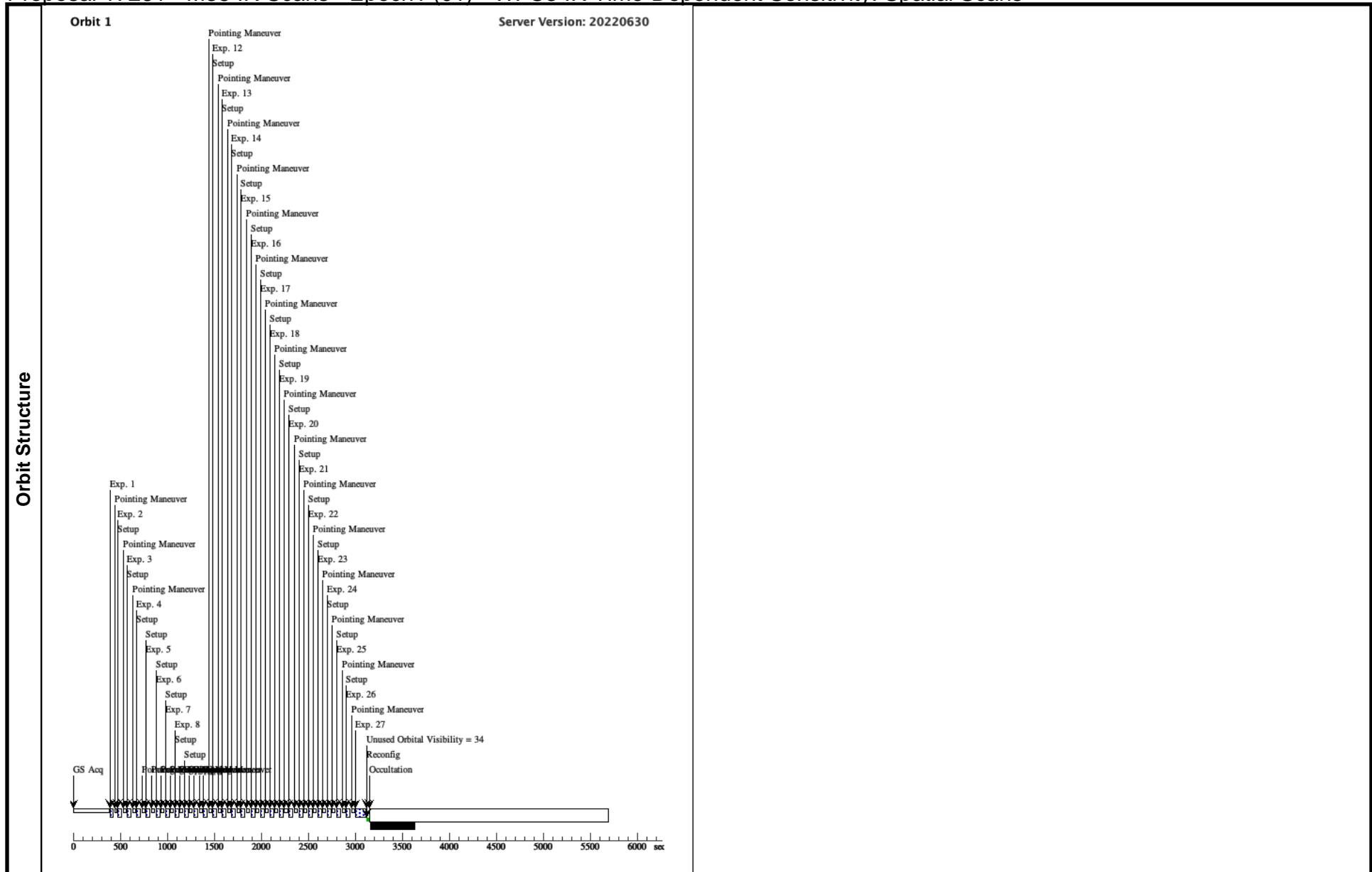
9	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-9.6; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs)	[==>]	[1]
10	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-11; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs)	[==>]	[1]
11	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-12.4; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs)	[==>]	[1]
12	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-13.8; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs)	[==>]	[1]
13	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-15.2; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs)	[==>]	[1]
14	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-16.6; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs)	[==>]	[1]
15	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-18; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs)	[==>]	[1]
16	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F098M	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-19.4; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs)	[==>]	[1]

Proposal 17261 - M35 IR Scans - Epoch1 (01) - WFC3 IR Time-Dependent Sensitivity: Spatial Scans

17	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F098M	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-20.8; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs) [==>]	[1]
18	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F098M	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-22.2; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs) [==>]	[1]
19	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F098M	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-23.6; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs) [==>]	[1]
20	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F098M	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -25,-23.6; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs) [==>]	[1]
21	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F098M	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -25,-22.2; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs) [==>]	[1]
22	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -25,-20.8; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs) [==>]	[1]
23	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -25,-17.8; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs) [==>]	[1]
24	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -25,-14.8; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs) [==>]	[1]

Proposal 17261 - M35 IR Scans - Epoch1 (01) - WFC3 IR Time-Dependent Sensitivity: Spatial Scans

25	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -25,-11.8; SPATIAL SCAN 1.5,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs) [==>]	[1]
26	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -25,-8.8; SPATIAL SCAN 1.5,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	8.774726 Secs (8.775 Secs) [==>]	[1]
27	DARK	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	BLANK	SAMP-SEQ=SPARS 10; NSAMP=11	POS TARG -25,-8.8	Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch1 (01)	80.070017 Secs (80.07 Secs) [==>]	[1]





Proposal 17261 - M35 IR Scans - Epoch2 (02) - WFC3 IR Time-Dependent Sensitivity: Spatial Scans

<b>Visit</b>	<b>Proposal 17261, M35 IR Scans - Epoch2 (02)</b> <span style="float: right;">Mon Nov 14 19:00:22 GMT 2022</span>					
	<b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01; BETWEEN 20-MAR-2023:00:00:00 AND 20-APR-2023:00:00:00					
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	M-35	RA: 06 09 2.8091 (92.2617046d) Dec: +24 21 54.23 (24.36506d) Equinox: J2000		V=5.1	Reference Frame: SIMBAD
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>						
<i>An advantage of an open cluster is that it is not too dense like a globular, and an open cluster will contain a lot of (photometrically stable) main sequence stars.</i>						
Category=STELLAR CLUSTER Description=[OPEN CLUSTER]						

Proposal 17261 - M35 IR Scans - Epoch2 (02) - WFC3 IR Time-Dependent Sensitivity: Spatial Scans

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	IR Stare	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]	
	2	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-1; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]
	3	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-2; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]
	4	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-3; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]
	5	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-4; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]
	6	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-5.4; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]
	7	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-6.8; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]
	8	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-8.2; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]

Proposal 17261 - M35 IR Scans - Epoch2 (02) - WFC3 IR Time-Dependent Sensitivity: Spatial Scans

9	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-9.6; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]
10	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-11; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]
11	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-12.4; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]
12	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-13.8; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]
13	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-15.2; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]
14	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-16.6; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]
15	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-18; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]
16	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F098M	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-19.4; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]

Proposal 17261 - M35 IR Scans - Epoch2 (02) - WFC3 IR Time-Dependent Sensitivity: Spatial Scans

17	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F098M	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-20.8; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]
18	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F098M	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-22.2; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]
19	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F098M	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -8,-23.6; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]
20	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F098M	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -25,-23.6; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]
21	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F098M	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -25,-22.2; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]
22	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -25,-20.8; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]
23	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -25,-17.8; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]
24	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -25,-14.8; SPATIAL SCAN 1.5 ,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]

Proposal 17261 - M35 IR Scans - Epoch2 (02) - WFC3 IR Time-Dependent Sensitivity: Spatial Scans

25	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -25,-11.8; SPATIAL SCAN 1.5,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]
26	Scan Horizontal	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F140W	SAMP-SEQ=SPARS 10; NSAMP=2	POS TARG -25,-8.8; SPATIAL SCAN 1.5,0.76 Degrees,Forward	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	8.774726 Secs (8.775 Secs) [==>]	[1]
27	DARK	(1) M-35	WFC3/IR, MULTIACCUM, IRSUB512-FIX	BLANK	SAMP-SEQ=SPARS 10; NSAMP=11	POS TARG -25,-8.8	Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02) Same Obset in Sequence 1-27 Non-Int in M35 IR Scans - Epoch2 (02)	80.070017 Secs (80.07 Secs) [==>]	[1]

