15932 - Uncovering the Cause of the Shift in Carbon Star Behaviour at High Metallicity

Cycle: 27, Proposal Category: GO

(Availability Mode: SUPPORTED)

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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	(3) M31-21	WFC3/IR	1	04-Nov-2020 15:02:04.0	yes
02	(4) M31-22	WFC3/IR	1	04-Nov-2020 15:02:05.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
03	(5) M31-23	WFC3/IR	1	04-Nov-2020 15:02:06.0	yes
04	(6) M31-24	WFC3/IR	1	04-Nov-2020 15:02:07.0	yes
05	(7) M31-25	WFC3/IR	1	04-Nov-2020 15:02:08.0	yes
06	(8) M31-26	WFC3/IR	1	04-Nov-2020 15:02:09.0	yes
07	(9) M31-27	WFC3/IR	1	04-Nov-2020 15:02:10.0	yes
08	(10) M31-28	WFC3/IR	1	04-Nov-2020 15:02:11.0	yes
09	(11) M31-29	WFC3/IR	1	04-Nov-2020 15:02:12.0	yes
10	(12) M31-30	WFC3/IR	1	04-Nov-2020 15:02:13.0	yes
11	(13) M31-31	WFC3/IR	1	04-Nov-2020 15:02:14.0	yes
12	(14) M31-32	WFC3/IR	1	04-Nov-2020 15:02:16.0	yes
13	(15) M31-33	WFC3/IR	1	04-Nov-2020 15:02:17.0	yes
14	(16) M31-34	WFC3/IR	1	04-Nov-2020 15:02:18.0	yes
15	(17) M31-35	WFC3/IR	1	04-Nov-2020 15:02:19.0	yes
16	(18) M31-36	WFC3/IR	1	04-Nov-2020 15:02:20.0	yes
17	(19) M31-37	WFC3/IR	1	04-Nov-2020 15:02:21.0	yes
18	(20) M31-38	WFC3/IR	1	04-Nov-2020 15:02:22.0	yes
19	(21) M31-39	WFC3/IR	1	04-Nov-2020 15:02:23.0	yes
72	(21) M31-39	WFC3/IR	1	04-Nov-2020 15:02:24.0	yes
20	(22) M31-40	WFC3/IR	1	04-Nov-2020 15:02:25.0	yes
73	(22) M31-40	WFC3/IR	1	04-Nov-2020 15:02:26.0	yes
21	(23) M31-41	WFC3/IR	1	04-Nov-2020 15:02:27.0	yes
71	(23) M31-41	WFC3/IR	1	04-Nov-2020 15:02:28.0	yes
22	(24) M31-42	WFC3/IR	1	04-Nov-2020 15:02:29.0	yes
23	(25) M31-43	WFC3/IR	1	04-Nov-2020 15:02:31.0	yes
24	(26) M31-44	WFC3/IR	1	04-Nov-2020 15:02:32.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
74	(26) M31-44	WFC3/IR	1	04-Nov-2020 15:02:33.0	yes
25	(27) M31-45	WFC3/IR	1	04-Nov-2020 15:02:34.0	yes
26	(28) M31-46	WFC3/IR	1	04-Nov-2020 15:02:35.0	yes
27	(29) M33-01 ANY	ACS/WFC WFC3/IR	1	04-Nov-2020 15:02:36.0	yes
28	(30) M33-02 ANY	ACS/WFC WFC3/IR	1	04-Nov-2020 15:02:38.0	yes
29	(31) M33-03 ANY	ACS/WFC WFC3/IR	1	04-Nov-2020 15:02:39.0	yes
30	(32) M33-04 ANY	ACS/WFC WFC3/IR	1	04-Nov-2020 15:02:40.0	yes
31	(33) M33-05 ANY	ACS/WFC WFC3/IR	1	04-Nov-2020 15:02:42.0	yes
32	(34) M33-06 ANY	ACS/WFC WFC3/IR	1	04-Nov-2020 15:02:44.0	yes
33	(35) M33-07 ANY	ACS/WFC WFC3/IR	1	04-Nov-2020 15:02:45.0	yes

37 Total Orbits Used

ABSTRACT

Theoretical models of Asymptotic Giant Branch (AGB) evolution rely on calibrating observations of the ratio of carbon-rich (C) to oxygen-rich (M) stars and the C star luminosity function (CSLF). Sensitivity and resolution limits previously restricted C/M and CSLF measurements to nearby metal-poor galaxies that are not applicable to metal-rich AGB stars that dominate the near-IR light of massive galaxies. Fortunately, recent studies show that the WFC3/IR medium-band filters can be used to isolate C and M stars out to >5 Mpc. A Cycle 23 program used this technique in M31 to provide the first constraints to metal-rich AGB star models. Those results show an unexpected sharp drop in C/M in M31 that is presumably caused by the high metallicity. To constrain the physical properties that cause this dramatic change in behavior, we propose to image fields in M31 and M33 to target C stars in the metallicity gap between the LMC and M31, where this shift in the C/M slope is expected to appear. Our measurement of C/M will leverage M31/M33's metallicity distributions to also determine the metallicity limit above which C stars cannot form. In addition, our precise

measurement of the CSLF will calibrate the efficiency of the 3rd dredge up and the minimum core mass to form a C star, both of which depend strongly on metallicity. The interpretation of these observations is straightforward owing to the ability to leverage data products from the Panchromatic Andromeda/Triangulum Treasury (PHAT) programs. As a result, we can conclusively evaluate AGB evolution models in the metal-rich regime - critical for application of stellar models to the massive galaxies that dominate redshift surveys.

OBSERVING DESCRIPTION

Required primary exposure times and photometric depth: In order to detect all AGB stars, we must achieve full photometric completeness at the tip of the red giant branch (TRGB). We can achieve the necessary photometric depth within a single orbit (as demonstrated in GO-14072). After accounting for overheads, this allows for total exposure times of about 800-850 s in each filter, resulting in S/N > 7.3 in F139M (optimal S/N > 9.2) for m_F160W = 23 mag, using a Bruzual template for an K0III star. The S/N is even better in the F127M and F153M filters, owing to a higher throughput. For reference, the TRGB in the F160W filter corresponds to ~19 mag at the distance of M31.

For the parallels, we maximize the exposure time in F658N, while also preserving image quality and avoiding buffer dump latency. The remainging available parallel time is filled with F625W for continuum subtraction.

Dithering Strategy for primaries: Dithering diminishes errors associated with where a source is placed on a pixel, undersampling of the WFC3/IR channel, and image artifacts such as cosmic rays. We choose a 4-pt dither pattern to acheive Nyquist sampling of the PSF in F127M. The remaining 2 filters will use a 2-pt dither: we will reduce F127M simultaneously to acheive Nyquist sampling for the 2-pt dithers (e.g., PHAT; Dalcanton et al. 2012). We choose this strategy to allow for ACS buffer dumps in parallel. The dither patterns are entered manually in the position offsets, following the WFC3-IR-DITHER-BOX-MIN pattern values listed in the WFC3 handbook in Table C.3.

For the parallels, each filter is imaged in two of the dither positions. The PHAT data is Nyquist sampled in F814W, and we will re-reduce that data simultaneously to achieve Nyquist sampling in F625W and F658N.

Parallels: We are observing with ACS in parallel for the 7 M33 observations.

Visit

Proposal 15932, POS21 (01), completed Wed Nov 04 20:02:46 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS21 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

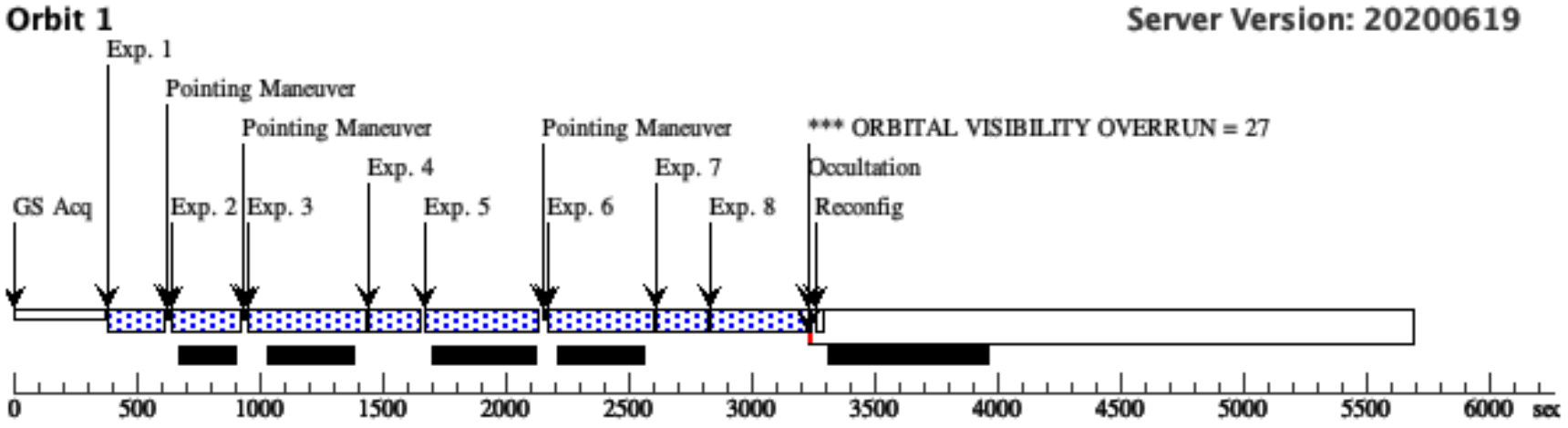
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	M31-21	RA: 00 46 16.5850 (11.5691042d) Dec: +42 04 12.50 (42.07014d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[DISK, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(3) M31-21	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS21 (01)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367021)	(3) M31-21	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS21 (01)	249.23203 Secs (249.232 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(3) M31-21	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS21 (01)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367021)	(3) M31-21	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS21 (01)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(3) M31-21	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS21 (01)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
6	F153M-dither4 (WFC3IR.im.1367024)	(3) M31-21	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS21 (01)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*
7	F127M-dither4 (WFC3IR.im.1367021)	(3) M31-21	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS21 (01)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(3) M31-21	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS21 (01)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 15932, POS22 (02), completed Wed Nov 04 20:02:46 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS22 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

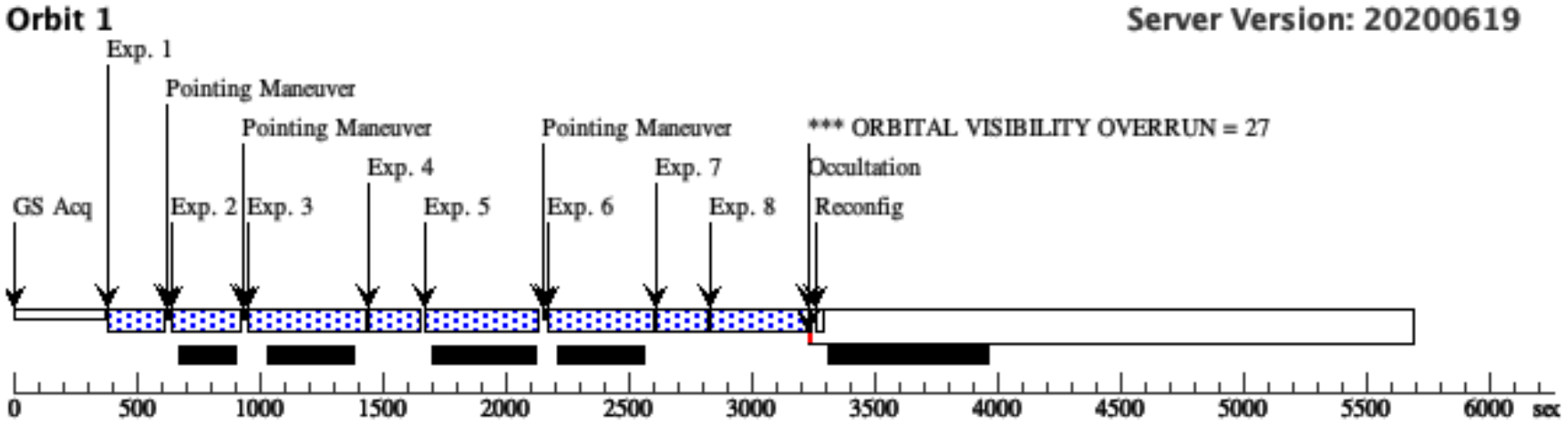
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	M31-22	RA: 00 45 59.0071 (11.4958629d) Dec: +42 04 48.47 (42.08013d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[DISK, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(4) M31-22	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS22 (02)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367021)	(4) M31-22	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS22 (02)	249.23203 Secs (249.232 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(4) M31-22	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS22 (02)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367021)	(4) M31-22	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS22 (02)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(4) M31-22	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS22 (02)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
6	F153M-dither4 (WFC3IR.im.1367024)	(4) M31-22	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS22 (02)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*
7	F127M-dither4 (WFC3IR.im.1367021)	(4) M31-22	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS22 (02)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(4) M31-22	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS22 (02)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 15932, POS23 (03), completed Wed Nov 04 20:02:46 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS23 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

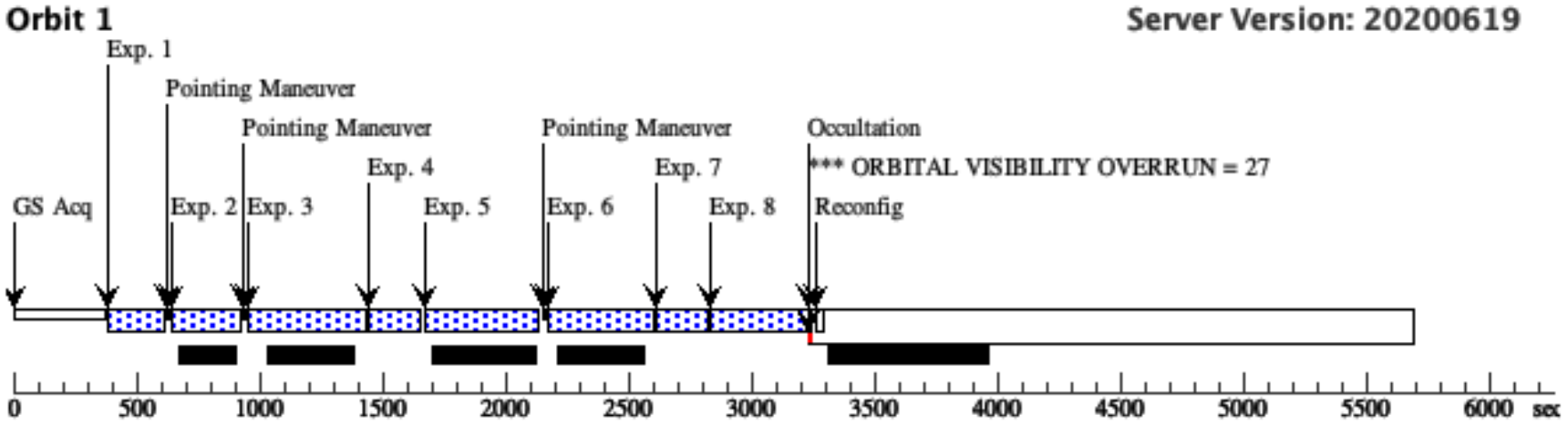
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	M31-23	RA: 00 46 10.2259 (11.5426079d) Dec: +42 08 9.06 (42.13585d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[DISK, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(5) M31-23	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS23 (03)	199.231579 Secs (199.232 Secs) *[==>]*	***[1]***
2	F127M-dither2 (WFC3IR.im.1367021)	(5) M31-23	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS23 (03)	249.23203 Secs (249.232 Secs) *[==>]*	***[1]***
3	F139M-dither3 (WFC3IR.im.1367025)	(5) M31-23	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS23 (03)	449.233834 Secs (449.234 Secs) *[==>]*	***[1]***
4	F127M-dither3 (WFC3IR.im.1367021)	(5) M31-23	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS23 (03)	199.231579 Secs (199.232 Secs) *[==>]*	***[1]***
5	F153M-dither3 (WFC3IR.im.1367024)	(5) M31-23	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS23 (03)	449.233834 Secs (449.234 Secs) *[==>]*	***[1]***
6	F153M-dither4 (WFC3IR.im.1367024)	(5) M31-23	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS23 (03)	399.233383 Secs (399.233 Secs) *[==>]*	***[1]***
7	F127M-dither4 (WFC3IR.im.1367021)	(5) M31-23	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS23 (03)	199.231579 Secs (199.232 Secs) *[==>]*	***[1]***
8	F139M-dither4 (WFC3IR.im.1367025)	(5) M31-23	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS23 (03)	399.233383 Secs (399.233 Secs) *[==>]*	***[1]***

Orbit Structure



Visit

Proposal 15932, POS24 (04), completed Wed Nov 04 20:02:46 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS24 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

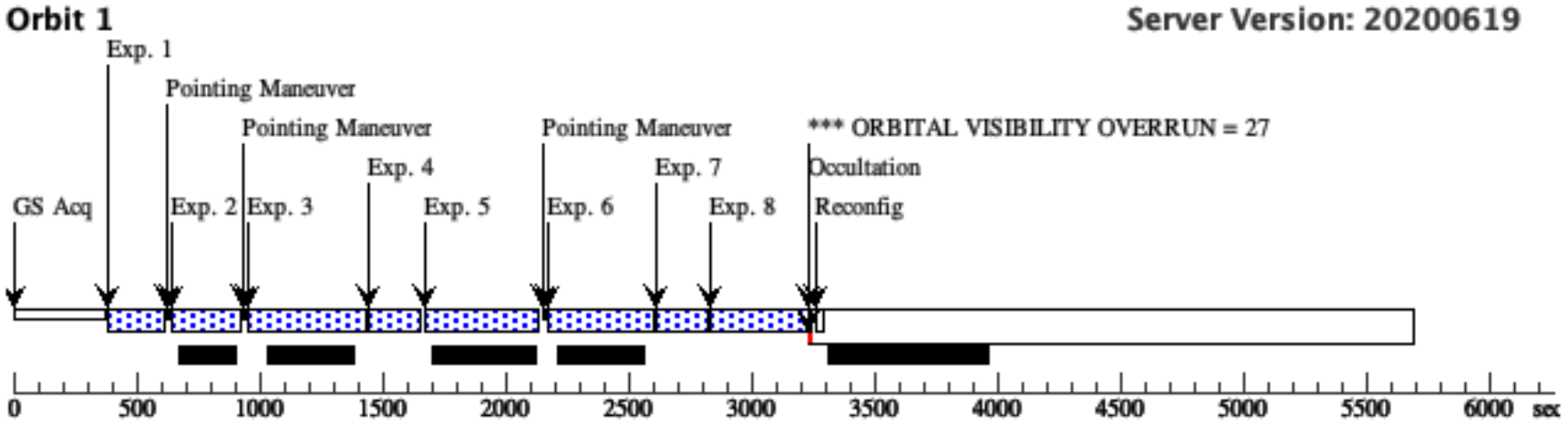
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	M31-24	RA: 00 46 38.0153 (11.6583971d) Dec: +42 08 6.01 (42.13500d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[DISK, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(6) M31-24	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS24 (04)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367021)	(6) M31-24	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS24 (04)	249.23203 Secs (249.232 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(6) M31-24	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS24 (04)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367021)	(6) M31-24	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS24 (04)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(6) M31-24	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS24 (04)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
6	F153M-dither4 (WFC3IR.im.1367024)	(6) M31-24	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS24 (04)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*
7	F127M-dither4 (WFC3IR.im.1367021)	(6) M31-24	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS24 (04)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(6) M31-24	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS24 (04)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 15932, POS25 (05), completed Wed Nov 04 20:02:46 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS25 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

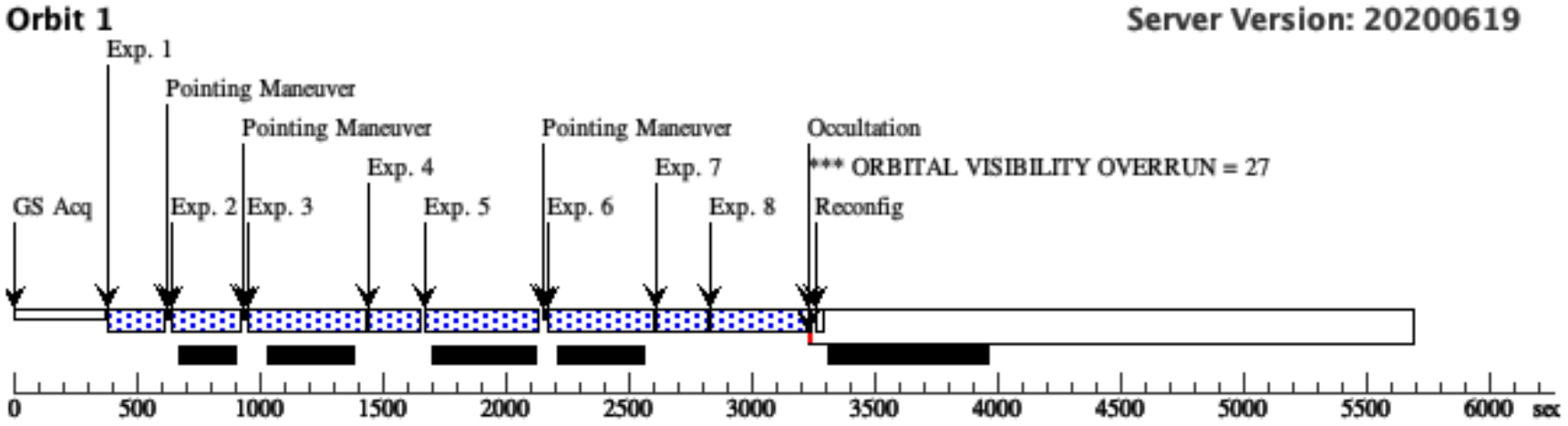
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	M31-25	RA: 00 46 53.9101 (11.7246254d) Dec: +42 12 13.17 (42.20366d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[DISK, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(7) M31-25	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS25 (05)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367021)	(7) M31-25	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS25 (05)	249.23203 Secs (249.232 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(7) M31-25	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS25 (05)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367021)	(7) M31-25	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS25 (05)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(7) M31-25	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS25 (05)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
6	F153M-dither4 (WFC3IR.im.1367024)	(7) M31-25	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS25 (05)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*
7	F127M-dither4 (WFC3IR.im.1367021)	(7) M31-25	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS25 (05)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(7) M31-25	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS25 (05)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 15932, POS26 (06), completed Wed Nov 04 20:02:46 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS26 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

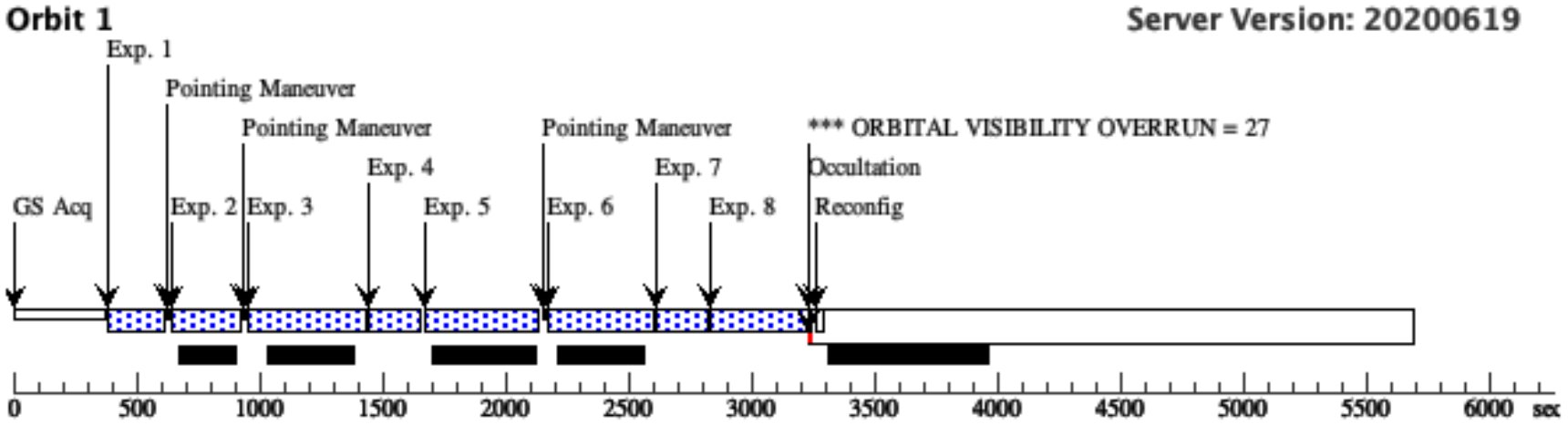
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	M31-26	RA: 00 47 1.8800 (11.7578333d) Dec: +42 14 15.18 (42.23755d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[DISK, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(8) M31-26	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS26 (06)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367021)	(8) M31-26	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS26 (06)	249.23203 Secs (249.232 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(8) M31-26	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS26 (06)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367021)	(8) M31-26	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS26 (06)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(8) M31-26	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS26 (06)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
6	F153M-dither4 (WFC3IR.im.1367024)	(8) M31-26	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS26 (06)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*
7	F127M-dither4 (WFC3IR.im.1367021)	(8) M31-26	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS26 (06)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(8) M31-26	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS26 (06)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 15932, POS27 (07), completed Wed Nov 04 20:02:46 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS27 (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

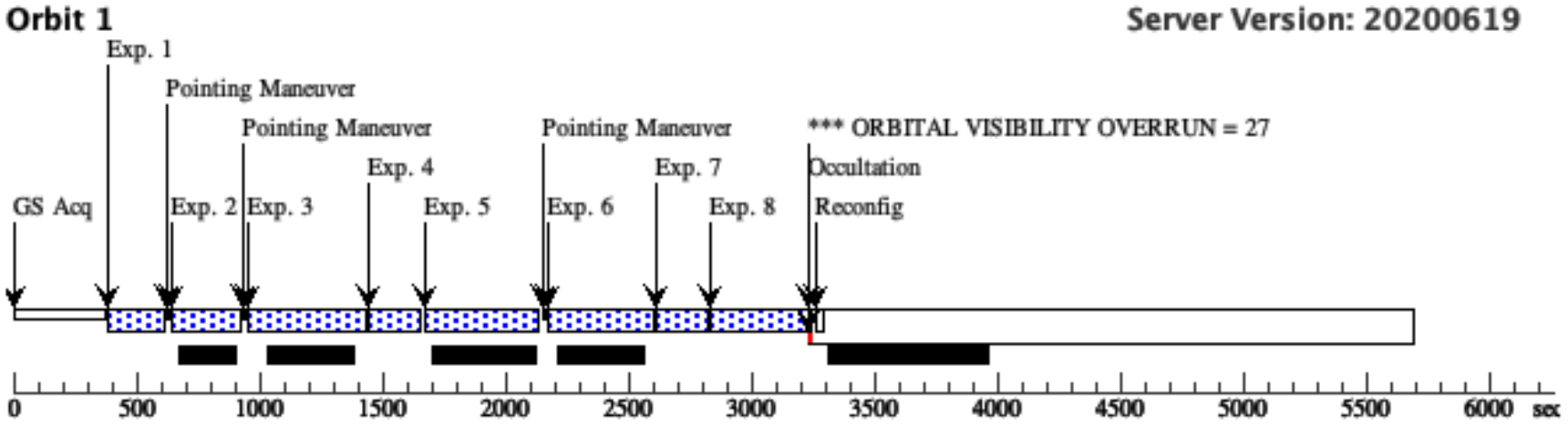
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(9)	M31-27	RA: 00 47 9.0596 (11.7877483d) Dec: +42 16 13.47 (42.27041d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[DISK, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(9) M31-27	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS27 (07)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367021)	(9) M31-27	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS27 (07)	249.23203 Secs (249.232 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(9) M31-27	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS27 (07)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367021)	(9) M31-27	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS27 (07)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(9) M31-27	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS27 (07)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
6	F153M-dither4 (WFC3IR.im.1367024)	(9) M31-27	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS27 (07)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*
7	F127M-dither4 (WFC3IR.im.1367021)	(9) M31-27	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS27 (07)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(9) M31-27	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS27 (07)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 15932, POS28 (08), completed Wed Nov 04 20:02:46 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS28 (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

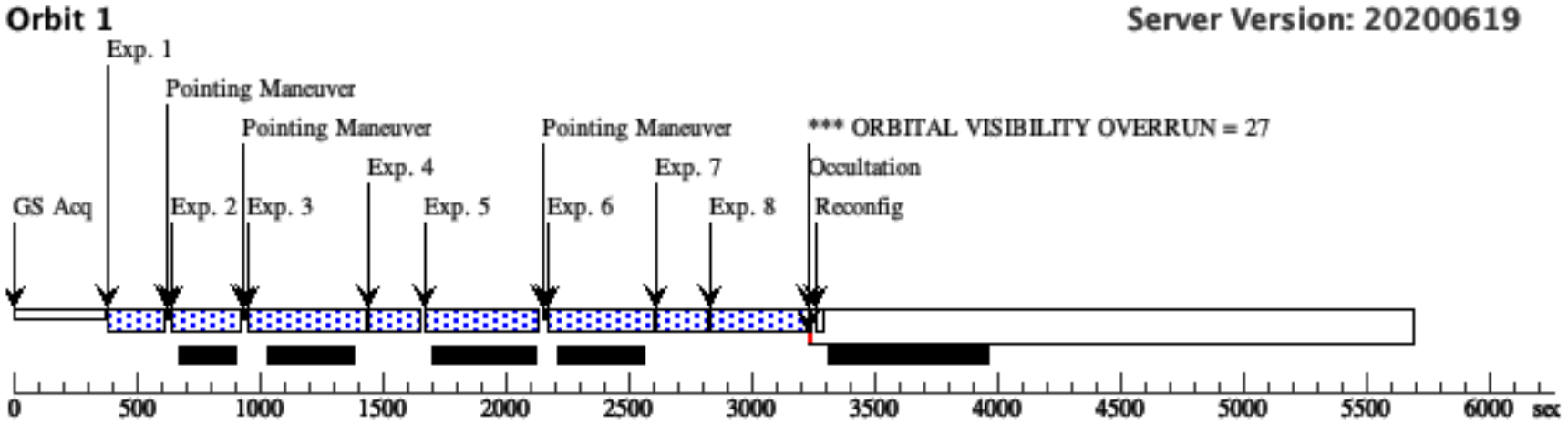
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(10)	M31-28	RA: 00 46 37.5340 (11.6563917d) Dec: +42 11 18.42 (42.18845d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[DISK, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(10) M31-28	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS28 (08)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367021)	(10) M31-28	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS28 (08)	249.23203 Secs (249.232 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(10) M31-28	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS28 (08)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367021)	(10) M31-28	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS28 (08)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(10) M31-28	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS28 (08)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
6	F153M-dither4 (WFC3IR.im.1367024)	(10) M31-28	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS28 (08)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*
7	F127M-dither4 (WFC3IR.im.1367021)	(10) M31-28	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS28 (08)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(10) M31-28	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS28 (08)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 15932, POS29 (09), completed Wed Nov 04 20:02:46 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS29 (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

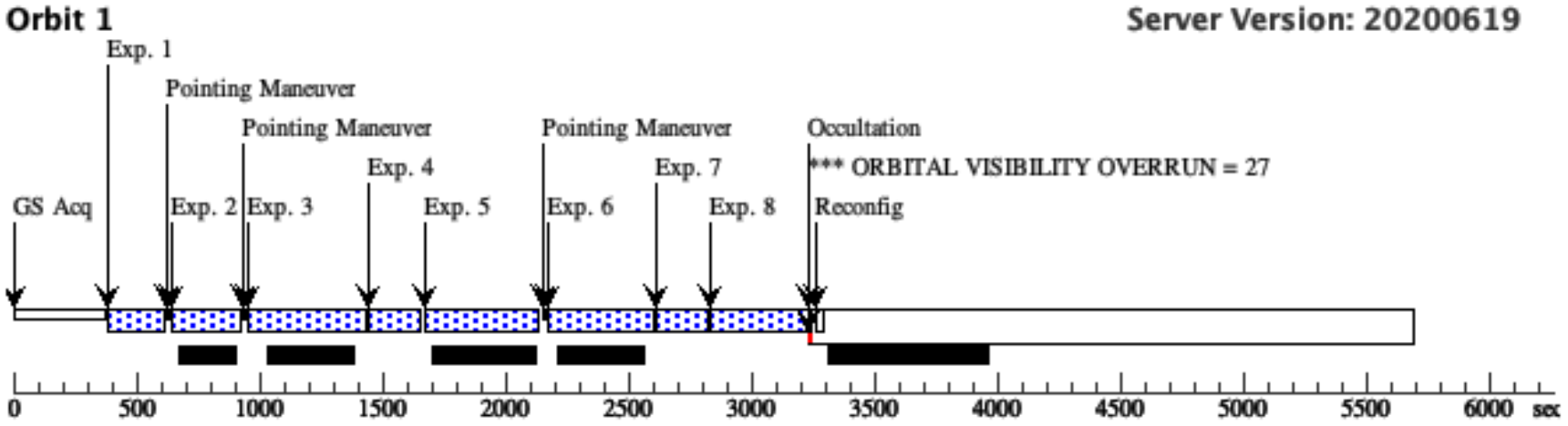
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(11)	M31-29	RA: 00 46 43.6794 (11.6819975d) Dec: +42 13 51.41 (42.23095d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[DISK, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(11) M31-29	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS29 (09)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367021)	(11) M31-29	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS29 (09)	249.23203 Secs (249.232 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(11) M31-29	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS29 (09)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367021)	(11) M31-29	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS29 (09)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(11) M31-29	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS29 (09)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
6	F153M-dither4 (WFC3IR.im.1367024)	(11) M31-29	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS29 (09)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*
7	F127M-dither4 (WFC3IR.im.1367021)	(11) M31-29	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS29 (09)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(11) M31-29	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS29 (09)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 15932, POS30 (10), completed Wed Nov 04 20:02:47 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS30 (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

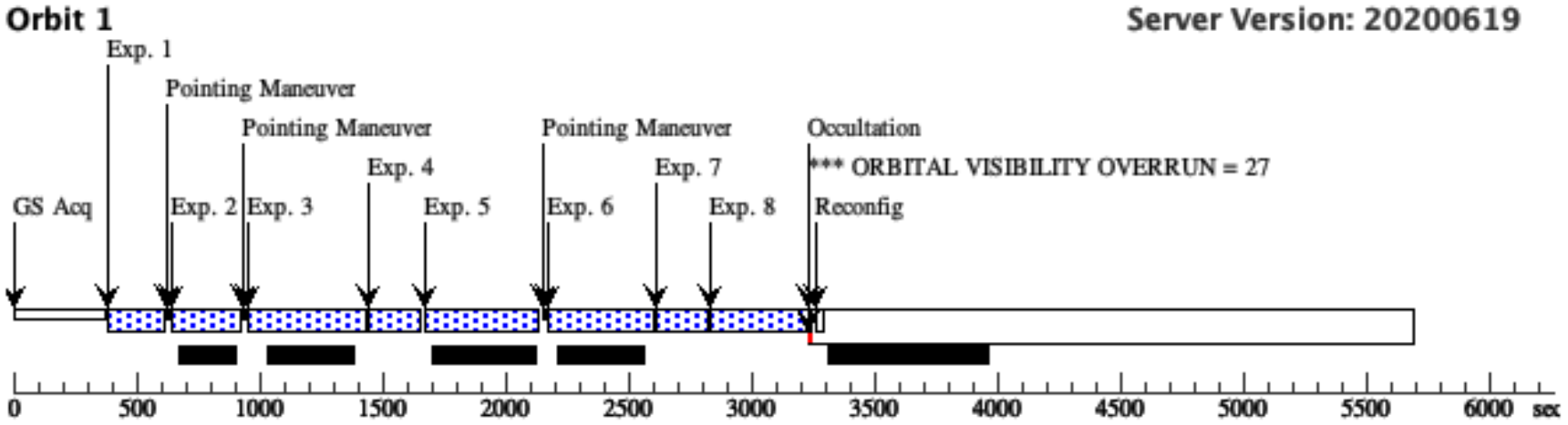
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(12)	M31-30	RA: 00 46 50.2642 (11.7094342d) Dec: +42 15 55.39 (42.26539d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[DISK, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(12) M31-30	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS30 (10)	199.231579 Secs (199.232 Secs) *[==>]*	***[1]***
2	F127M-dither2 (WFC3IR.im.1367021)	(12) M31-30	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS30 (10)	249.23203 Secs (249.232 Secs) *[==>]*	***[1]***
3	F139M-dither3 (WFC3IR.im.1367025)	(12) M31-30	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS30 (10)	449.233834 Secs (449.234 Secs) *[==>]*	***[1]***
4	F127M-dither3 (WFC3IR.im.1367021)	(12) M31-30	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS30 (10)	199.231579 Secs (199.232 Secs) *[==>]*	***[1]***
5	F153M-dither3 (WFC3IR.im.1367024)	(12) M31-30	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS30 (10)	449.233834 Secs (449.234 Secs) *[==>]*	***[1]***
6	F153M-dither4 (WFC3IR.im.1367024)	(12) M31-30	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS30 (10)	399.233383 Secs (399.233 Secs) *[==>]*	***[1]***
7	F127M-dither4 (WFC3IR.im.1367021)	(12) M31-30	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS30 (10)	199.231579 Secs (199.232 Secs) *[==>]*	***[1]***
8	F139M-dither4 (WFC3IR.im.1367025)	(12) M31-30	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS30 (10)	399.233383 Secs (399.233 Secs) *[==>]*	***[1]***

Orbit Structure



Visit

Proposal 15932, POS31 (11), completed Wed Nov 04 20:02:47 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS31 (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

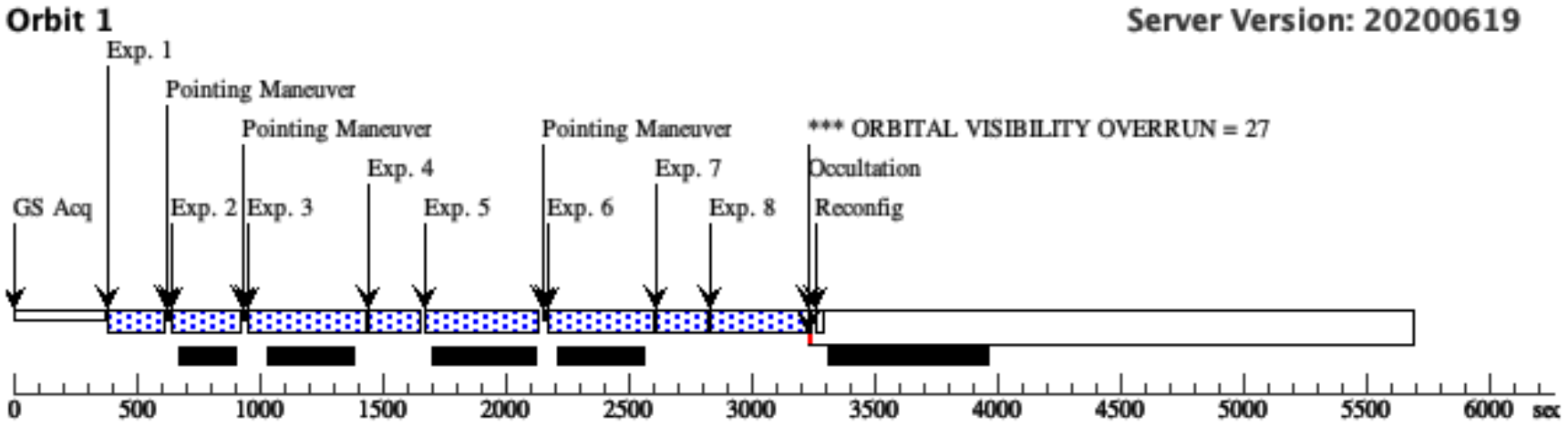
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(13)	M31-31	RA: 00 46 31.9382 (11.6330758d) Dec: +42 15 33.67 (42.25935d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[DISK, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(13) M31-31	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS31 (11)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367021)	(13) M31-31	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS31 (11)	249.23203 Secs (249.232 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(13) M31-31	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS31 (11)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367021)	(13) M31-31	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS31 (11)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(13) M31-31	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS31 (11)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
6	F153M-dither4 (WFC3IR.im.1367024)	(13) M31-31	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS31 (11)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*
7	F127M-dither4 (WFC3IR.im.1367021)	(13) M31-31	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS31 (11)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(13) M31-31	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS31 (11)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 15932, POS32 (12), completed Wed Nov 04 20:02:47 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS32 (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

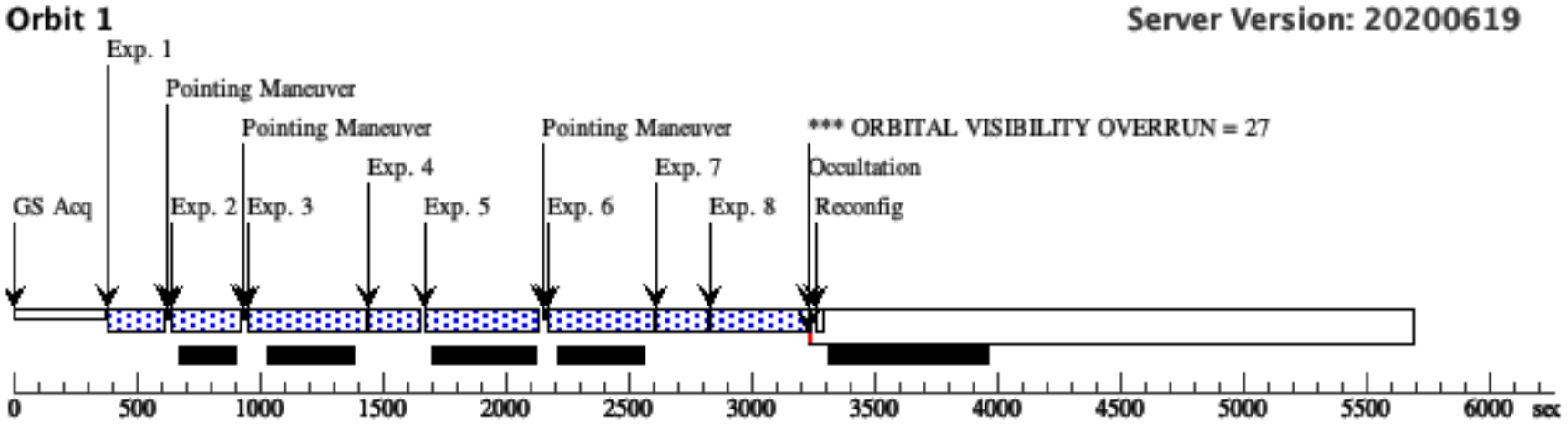
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(14)	M31-32	RA: 00 43 11.2206 (10.7967525d) Dec: +41 23 21.23 (41.38923d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[BULGE, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(14) M31-32	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS32 (12)	199.231579 Secs (199.232 Secs) *[==>]*	***[1]***
2	F127M-dither2 (WFC3IR.im.1367021)	(14) M31-32	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS32 (12)	249.23203 Secs (249.232 Secs) *[==>]*	***[1]***
3	F139M-dither3 (WFC3IR.im.1367025)	(14) M31-32	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS32 (12)	449.233834 Secs (449.234 Secs) *[==>]*	***[1]***
4	F127M-dither3 (WFC3IR.im.1367021)	(14) M31-32	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS32 (12)	199.231579 Secs (199.232 Secs) *[==>]*	***[1]***
5	F153M-dither3 (WFC3IR.im.1367024)	(14) M31-32	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS32 (12)	449.233834 Secs (449.234 Secs) *[==>]*	***[1]***
6	F153M-dither4 (WFC3IR.im.1367024)	(14) M31-32	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS32 (12)	399.233383 Secs (399.233 Secs) *[==>]*	***[1]***
7	F127M-dither4 (WFC3IR.im.1367021)	(14) M31-32	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS32 (12)	199.231579 Secs (199.232 Secs) *[==>]*	***[1]***
8	F139M-dither4 (WFC3IR.im.1367025)	(14) M31-32	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS32 (12)	399.233383 Secs (399.233 Secs) *[==>]*	***[1]***

Orbit Structure



Visit

Proposal 15932, POS33 (13), completed Wed Nov 04 20:02:47 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS33 (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

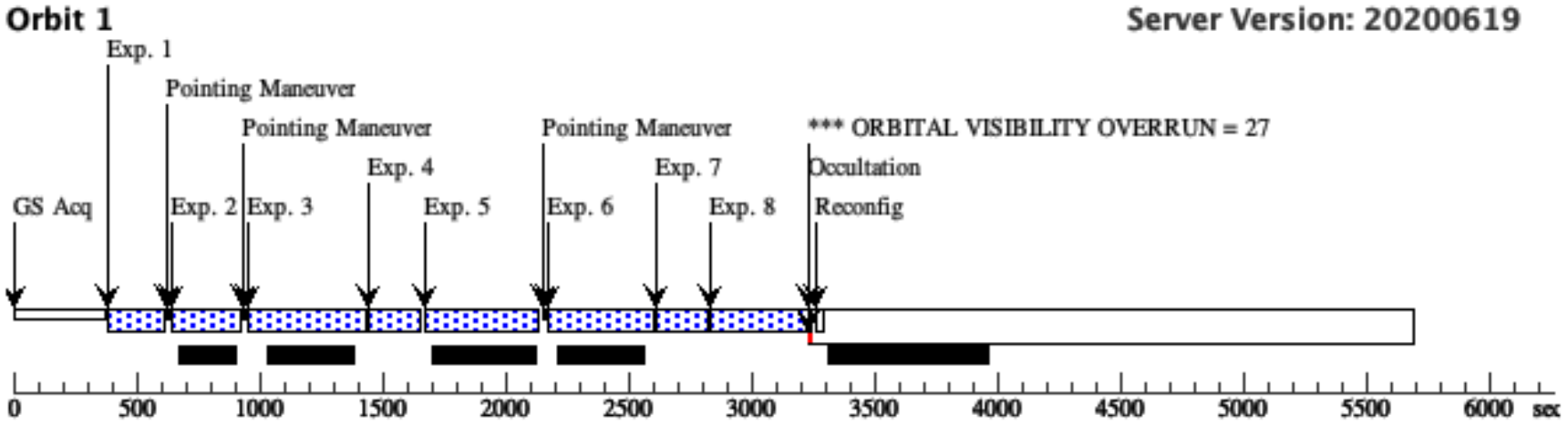
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(15)	M31-33	RA: 00 43 2.4546 (10.7602275d) Dec: +41 21 24.57 (41.35683d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[BULGE, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(15) M31-33	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS33 (13)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367021)	(15) M31-33	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS33 (13)	249.23203 Secs (249.232 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(15) M31-33	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS33 (13)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367021)	(15) M31-33	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS33 (13)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(15) M31-33	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS33 (13)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
6	F153M-dither4 (WFC3IR.im.1367024)	(15) M31-33	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS33 (13)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*
7	F127M-dither4 (WFC3IR.im.1367021)	(15) M31-33	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS33 (13)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(15) M31-33	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS33 (13)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 15932, POS34 (14), completed Wed Nov 04 20:02:47 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS34 (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

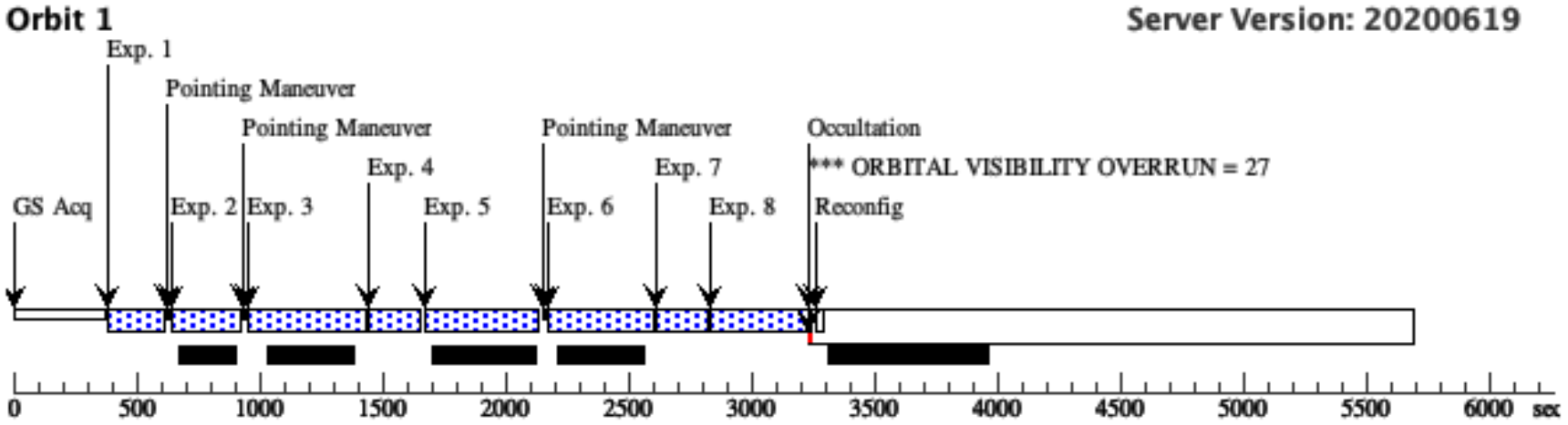
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(16)	M31-34	RA: 00 43 12.4899 (10.8020413d) Dec: +41 19 47.35 (41.32982d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[BULGE, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(16) M31-34	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS34 (14)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367021)	(16) M31-34	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS34 (14)	249.23203 Secs (249.232 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(16) M31-34	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS34 (14)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367021)	(16) M31-34	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS34 (14)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(16) M31-34	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS34 (14)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
6	F153M-dither4 (WFC3IR.im.1367024)	(16) M31-34	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS34 (14)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*
7	F127M-dither4 (WFC3IR.im.1367021)	(16) M31-34	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS34 (14)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(16) M31-34	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS34 (14)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 15932, POS35 (15), completed Wed Nov 04 20:02:47 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS35 (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

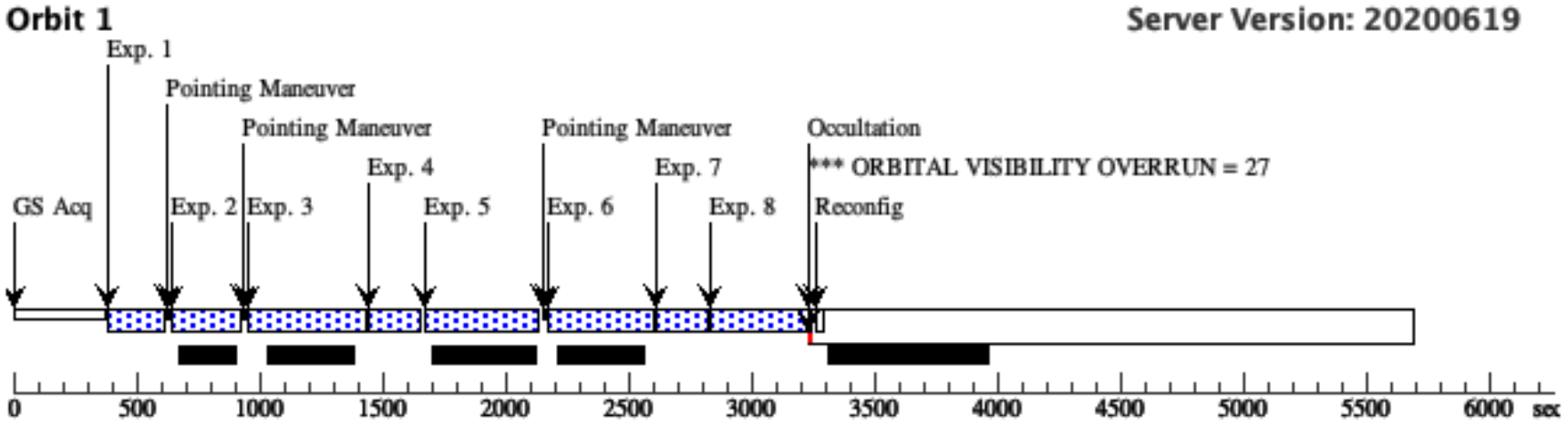
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(17)	M31-35	RA: 00 42 53.9819 (10.7249246d) Dec: +41 19 31.66 (41.32546d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[BULGE, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(17) M31-35	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS35 (15)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367021)	(17) M31-35	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS35 (15)	249.23203 Secs (249.232 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(17) M31-35	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS35 (15)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367021)	(17) M31-35	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS35 (15)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(17) M31-35	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS35 (15)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
6	F153M-dither4 (WFC3IR.im.1367024)	(17) M31-35	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS35 (15)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*
7	F127M-dither4 (WFC3IR.im.1367021)	(17) M31-35	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS35 (15)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(17) M31-35	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS35 (15)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 15932, POS36 (16), completed Wed Nov 04 20:02:47 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS36 (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

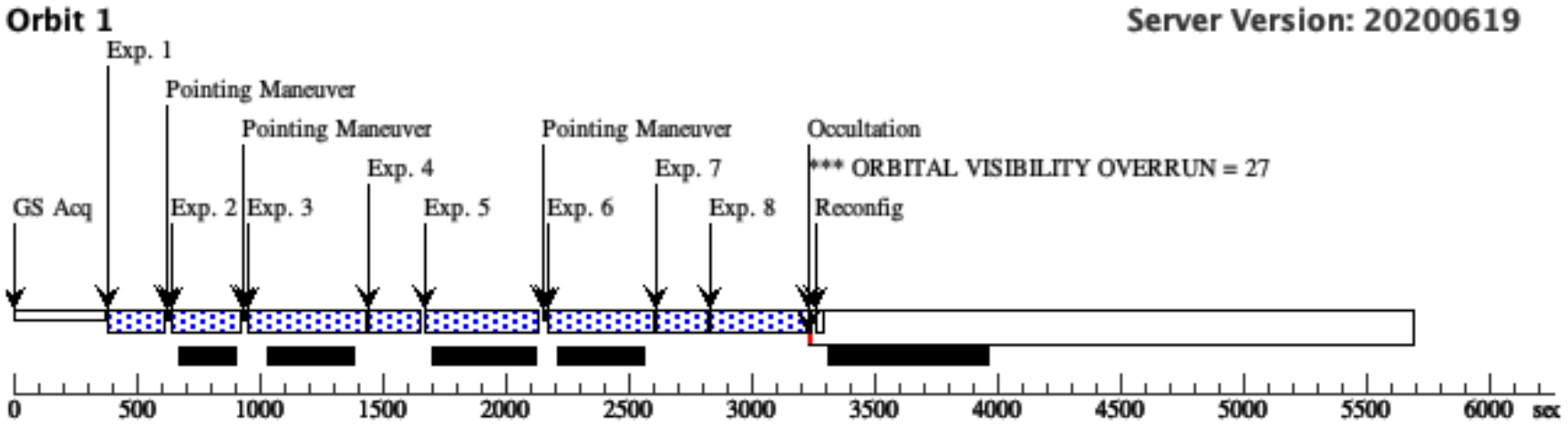
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(18)	M31-36	RA: 00 42 34.4449 (10.6435204d) Dec: +41 18 46.59 (41.31294d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[BULGE, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(18) M31-36	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS36 (16)	199.231579 Secs (199.232 Secs) *[==>]*	***[1]***
2	F127M-dither2 (WFC3IR.im.1367021)	(18) M31-36	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS36 (16)	249.23203 Secs (249.232 Secs) *[==>]*	***[1]***
3	F139M-dither3 (WFC3IR.im.1367025)	(18) M31-36	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS36 (16)	449.233834 Secs (449.234 Secs) *[==>]*	***[1]***
4	F127M-dither3 (WFC3IR.im.1367021)	(18) M31-36	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS36 (16)	199.231579 Secs (199.232 Secs) *[==>]*	***[1]***
5	F153M-dither3 (WFC3IR.im.1367024)	(18) M31-36	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS36 (16)	449.233834 Secs (449.234 Secs) *[==>]*	***[1]***
6	F153M-dither4 (WFC3IR.im.1367024)	(18) M31-36	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS36 (16)	399.233383 Secs (399.233 Secs) *[==>]*	***[1]***
7	F127M-dither4 (WFC3IR.im.1367021)	(18) M31-36	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS36 (16)	199.231579 Secs (199.232 Secs) *[==>]*	***[1]***
8	F139M-dither4 (WFC3IR.im.1367025)	(18) M31-36	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS36 (16)	399.233383 Secs (399.233 Secs) *[==>]*	***[1]***

Orbit Structure



Visit

Proposal 15932, POS37 (17), completed Wed Nov 04 20:02:47 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS37 (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

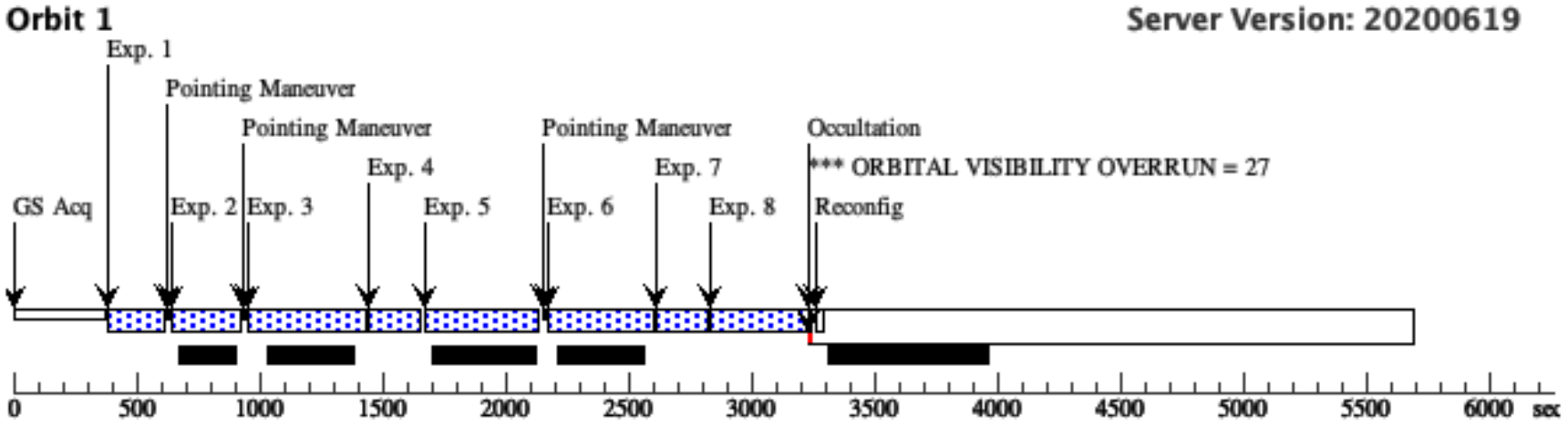
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(19)	M31-37	RA: 00 43 4.1131 (10.7671379d) Dec: +41 17 51.94 (41.29776d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[BULGE, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(19) M31-37	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS37 (17)	199.231579 Secs (199.232 Secs) *[==>]*	***[1]***
2	F127M-dither2 (WFC3IR.im.1367021)	(19) M31-37	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS37 (17)	249.23203 Secs (249.232 Secs) *[==>]*	***[1]***
3	F139M-dither3 (WFC3IR.im.1367025)	(19) M31-37	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS37 (17)	449.233834 Secs (449.234 Secs) *[==>]*	***[1]***
4	F127M-dither3 (WFC3IR.im.1367021)	(19) M31-37	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS37 (17)	199.231579 Secs (199.232 Secs) *[==>]*	***[1]***
5	F153M-dither3 (WFC3IR.im.1367024)	(19) M31-37	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS37 (17)	449.233834 Secs (449.234 Secs) *[==>]*	***[1]***
6	F153M-dither4 (WFC3IR.im.1367024)	(19) M31-37	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS37 (17)	399.233383 Secs (399.233 Secs) *[==>]*	***[1]***
7	F127M-dither4 (WFC3IR.im.1367021)	(19) M31-37	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS37 (17)	199.231579 Secs (199.232 Secs) *[==>]*	***[1]***
8	F139M-dither4 (WFC3IR.im.1367025)	(19) M31-37	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS37 (17)	399.233383 Secs (399.233 Secs) *[==>]*	***[1]***

Orbit Structure



Visit

Proposal 15932, POS38 (18), completed Wed Nov 04 20:02:47 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS38 (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

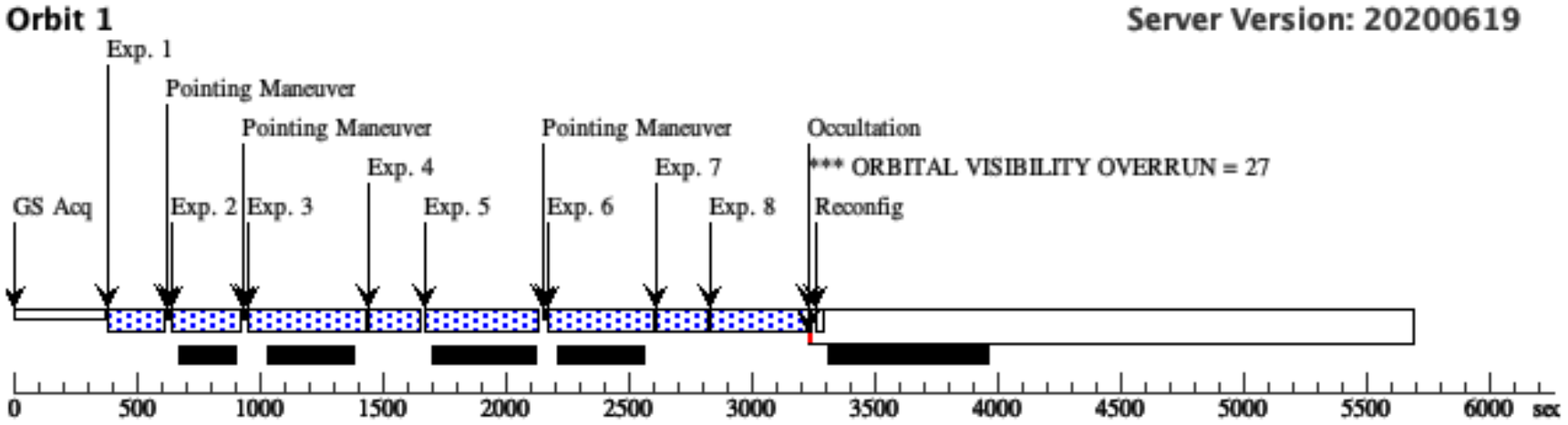
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(20)	M31-38	RA: 00 42 59.8107 (10.7492113d) Dec: +41 14 53.34 (41.24815d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[BULGE, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(20) M31-38	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS38 (18)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367021)	(20) M31-38	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS38 (18)	249.23203 Secs (249.232 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(20) M31-38	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS38 (18)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367021)	(20) M31-38	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS38 (18)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(20) M31-38	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS38 (18)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
6	F153M-dither4 (WFC3IR.im.1367024)	(20) M31-38	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS38 (18)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*
7	F127M-dither4 (WFC3IR.im.1367021)	(20) M31-38	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS38 (18)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(20) M31-38	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS38 (18)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 15932, POS39 (19), failed Wed Nov 04 20:02:47 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS39 (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

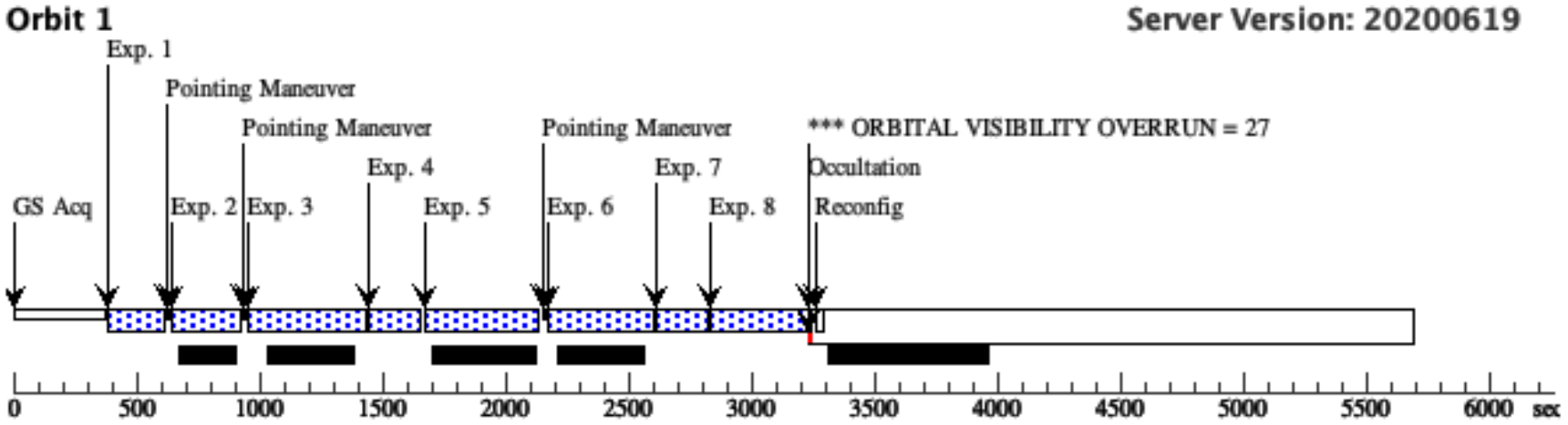
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(21)	M31-39	RA: 00 42 51.5478 (10.7147825d) Dec: +41 12 55.32 (41.21537d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[BULGE, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(21) M31-39	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS39 (19)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367021)	(21) M31-39	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS39 (19)	249.23203 Secs (249.232 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(21) M31-39	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS39 (19)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367021)	(21) M31-39	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS39 (19)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(21) M31-39	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS39 (19)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
6	F153M-dither4 (WFC3IR.im.1367024)	(21) M31-39	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS39 (19)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*
7	F127M-dither4 (WFC3IR.im.1367021)	(21) M31-39	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS39 (19)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(21) M31-39	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS39 (19)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 15932, POS39-v2 (72) Wed Nov 04 20:02:47 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Duplicate of visit 19, which failed.

Diagnostics

(POS39-v2 (72)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

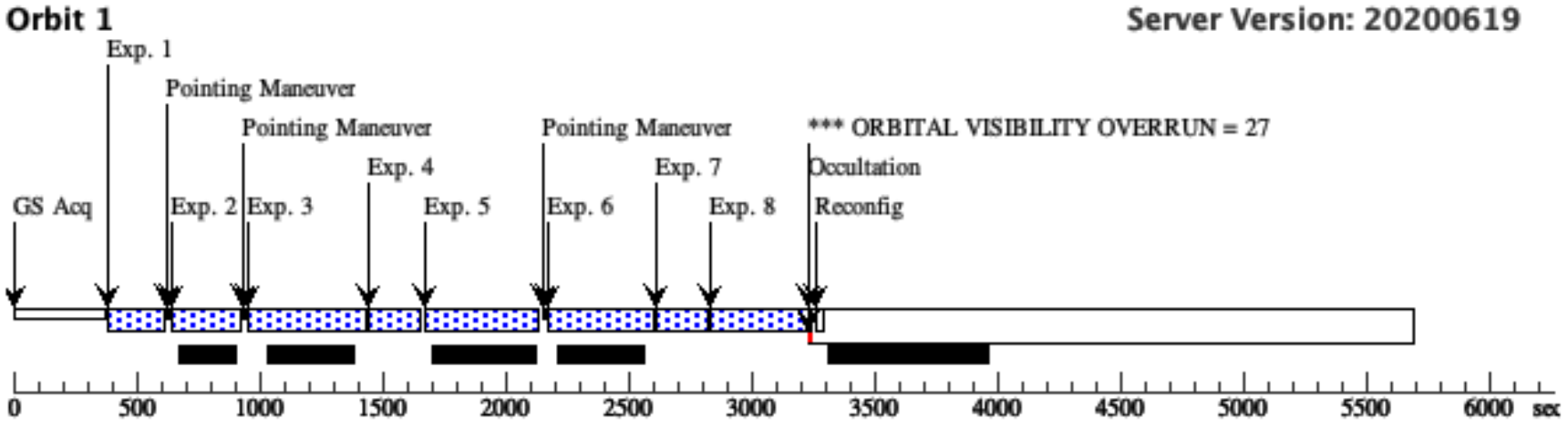
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(21)	M31-39	RA: 00 42 51.5478 (10.7147825d) Dec: +41 12 55.32 (41.21537d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[BULGE, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(21) M31-39	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS39-v2 (72)	199.231579 Secs (199.232 Secs) *[==>]*	***[1]***
2	F127M-dither2 (WFC3IR.im.1367021)	(21) M31-39	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS39-v2 (72)	249.23203 Secs (249.232 Secs) *[==>]*	***[1]***
3	F139M-dither3 (WFC3IR.im.1367025)	(21) M31-39	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS39-v2 (72)	449.233834 Secs (449.234 Secs) *[==>]*	***[1]***
4	F127M-dither3 (WFC3IR.im.1367021)	(21) M31-39	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS39-v2 (72)	199.231579 Secs (199.232 Secs) *[==>]*	***[1]***
5	F153M-dither3 (WFC3IR.im.1367024)	(21) M31-39	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS39-v2 (72)	449.233834 Secs (449.234 Secs) *[==>]*	***[1]***
6	F153M-dither4 (WFC3IR.im.1367024)	(21) M31-39	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS39-v2 (72)	399.233383 Secs (399.233 Secs) *[==>]*	***[1]***
7	F127M-dither4 (WFC3IR.im.1367021)	(21) M31-39	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS39-v2 (72)	199.231579 Secs (199.232 Secs) *[==>]*	***[1]***
8	F139M-dither4 (WFC3IR.im.1367025)	(21) M31-39	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS39-v2 (72)	399.233383 Secs (399.233 Secs) *[==>]*	***[1]***

Orbit Structure



Visit

Proposal 15932, POS40 (20), failed Wed Nov 04 20:02:47 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS40 (20)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

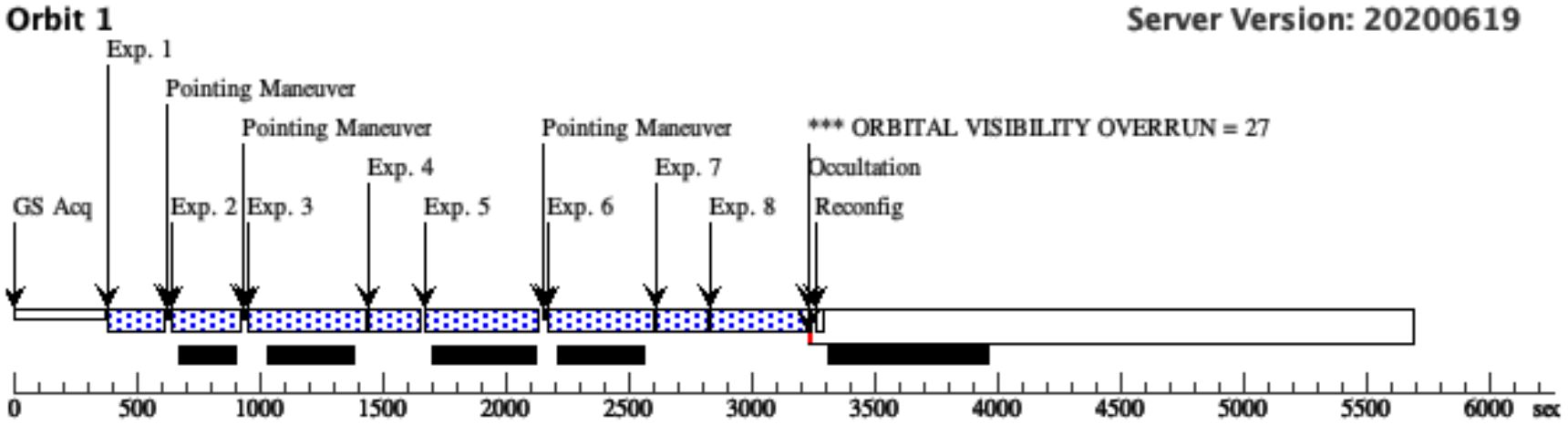
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(22)	M31-40	RA: 00 42 36.9975 (10.6541562d) Dec: +41 11 55.58 (41.19877d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[BULGE, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(22) M31-40	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS40 (20)	199.231579 Secs (199.232 Secs) *[==>]*	***[1]***
2	F127M-dither2 (WFC3IR.im.1367021)	(22) M31-40	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS40 (20)	249.23203 Secs (249.232 Secs) *[==>]*	***[1]***
3	F139M-dither3 (WFC3IR.im.1367025)	(22) M31-40	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS40 (20)	449.233834 Secs (449.234 Secs) *[==>]*	***[1]***
4	F127M-dither3 (WFC3IR.im.1367021)	(22) M31-40	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS40 (20)	199.231579 Secs (199.232 Secs) *[==>]*	***[1]***
5	F153M-dither3 (WFC3IR.im.1367024)	(22) M31-40	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS40 (20)	449.233834 Secs (449.234 Secs) *[==>]*	***[1]***
6	F153M-dither4 (WFC3IR.im.1367024)	(22) M31-40	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS40 (20)	399.233383 Secs (399.233 Secs) *[==>]*	***[1]***
7	F127M-dither4 (WFC3IR.im.1367021)	(22) M31-40	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS40 (20)	199.231579 Secs (199.232 Secs) *[==>]*	***[1]***
8	F139M-dither4 (WFC3IR.im.1367025)	(22) M31-40	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS40 (20)	399.233383 Secs (399.233 Secs) *[==>]*	***[1]***

Orbit Structure



Visit

Proposal 15932, POS40-v2 (73) Wed Nov 04 20:02:47 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Duplicate of visit 20, which failed

Diagnostics

(POS40-v2 (73)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

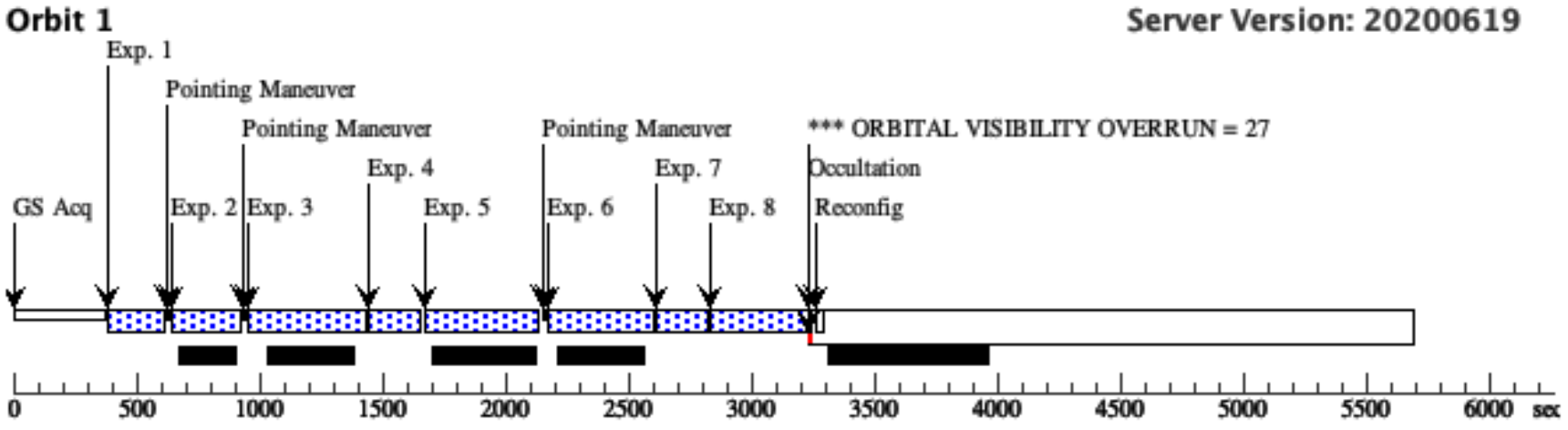
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(22)	M31-40	RA: 00 42 36.9975 (10.6541562d) Dec: +41 11 55.58 (41.19877d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[BULGE, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(22) M31-40	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS40-v2 (73)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367021)	(22) M31-40	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS40-v2 (73)	249.23203 Secs (249.232 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(22) M31-40	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS40-v2 (73)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367021)	(22) M31-40	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS40-v2 (73)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(22) M31-40	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS40-v2 (73)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
6	F153M-dither4 (WFC3IR.im.1367024)	(22) M31-40	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS40-v2 (73)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*
7	F127M-dither4 (WFC3IR.im.1367021)	(22) M31-40	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS40-v2 (73)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(22) M31-40	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS40-v2 (73)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 15932, POS41 (21), failed Wed Nov 04 20:02:47 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS41 (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

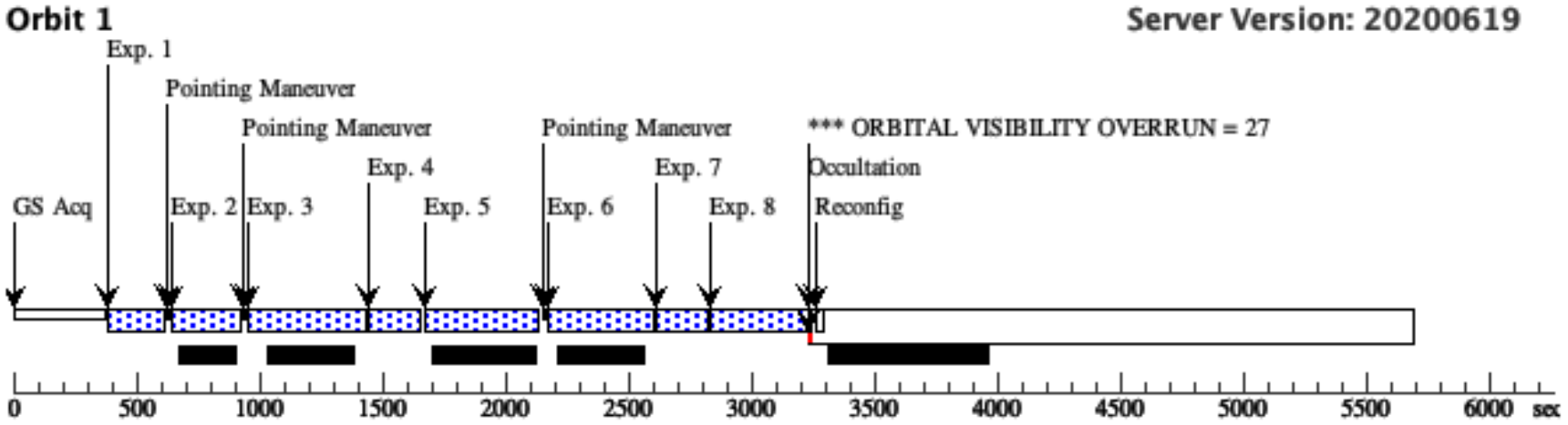
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(23)	M31-41	RA: 00 42 27.2335 (10.6134729d) Dec: +41 13 28.45 (41.22457d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[BULGE, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(23) M31-41	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS41 (21)	199.231579 Secs (199.232 Secs) *[==>]*	***[1]***
2	F127M-dither2 (WFC3IR.im.1367021)	(23) M31-41	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS41 (21)	249.23203 Secs (249.232 Secs) *[==>]*	***[1]***
3	F139M-dither3 (WFC3IR.im.1367025)	(23) M31-41	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS41 (21)	449.233834 Secs (449.234 Secs) *[==>]*	***[1]***
4	F127M-dither3 (WFC3IR.im.1367021)	(23) M31-41	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS41 (21)	199.231579 Secs (199.232 Secs) *[==>]*	***[1]***
5	F153M-dither3 (WFC3IR.im.1367024)	(23) M31-41	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS41 (21)	449.233834 Secs (449.234 Secs) *[==>]*	***[1]***
6	F153M-dither4 (WFC3IR.im.1367024)	(23) M31-41	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS41 (21)	399.233383 Secs (399.233 Secs) *[==>]*	***[1]***
7	F127M-dither4 (WFC3IR.im.1367021)	(23) M31-41	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS41 (21)	199.231579 Secs (199.232 Secs) *[==>]*	***[1]***
8	F139M-dither4 (WFC3IR.im.1367025)	(23) M31-41	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS41 (21)	399.233383 Secs (399.233 Secs) *[==>]*	***[1]***

Orbit Structure



Visit

Proposal 15932, POS41-v2 (71), implementation Wed Nov 04 20:02:47 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Duplicate of visit 21, which failed

Diagnostics

(POS41-v2 (71)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

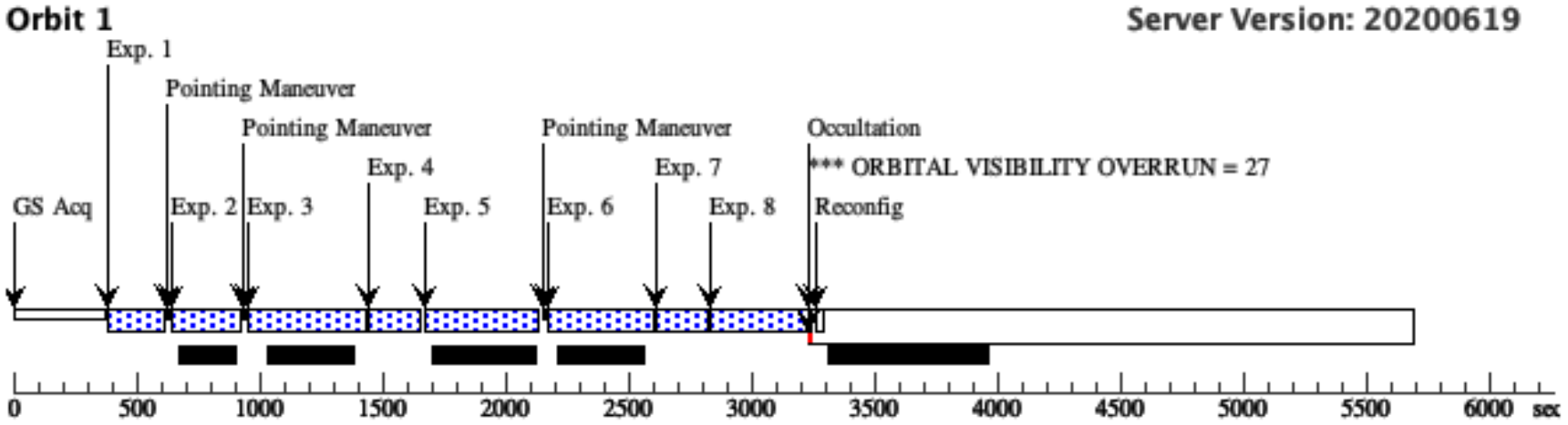
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(23)	M31-41	RA: 00 42 27.2335 (10.6134729d) Dec: +41 13 28.45 (41.22457d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[BULGE, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(23) M31-41	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS41-v2 (71)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367021)	(23) M31-41	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS41-v2 (71)	249.23203 Secs (249.232 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(23) M31-41	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS41-v2 (71)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367021)	(23) M31-41	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS41-v2 (71)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(23) M31-41	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS41-v2 (71)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
6	F153M-dither4 (WFC3IR.im.1367024)	(23) M31-41	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS41-v2 (71)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*
7	F127M-dither4 (WFC3IR.im.1367021)	(23) M31-41	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS41-v2 (71)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(23) M31-41	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS41-v2 (71)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 15932, POS42 (22), completed Wed Nov 04 20:02:47 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS42 (22)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

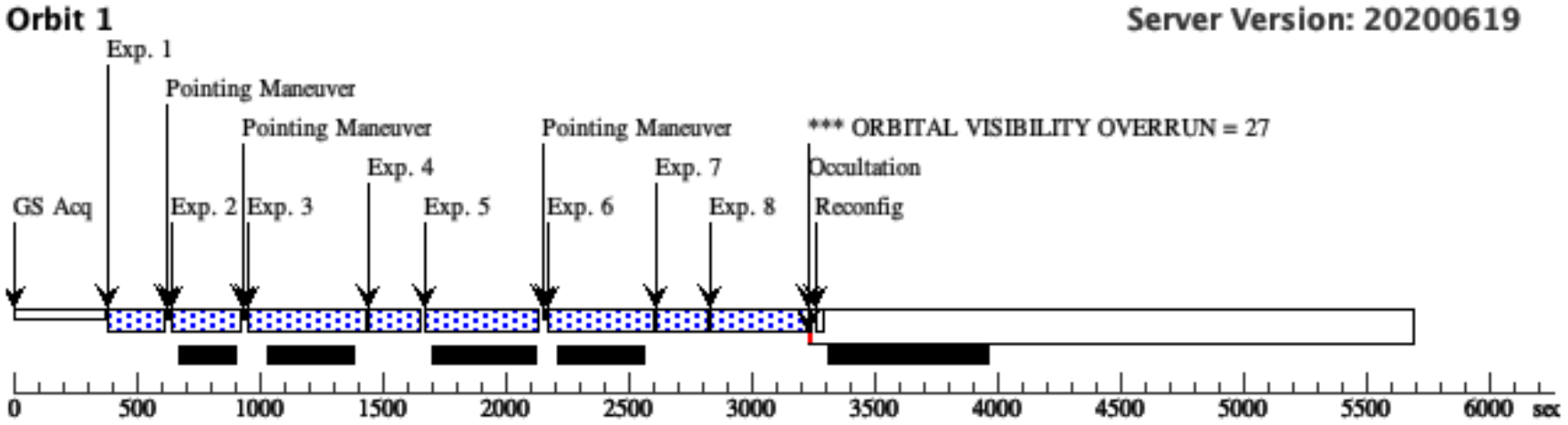
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(24)	M31-42	RA: 00 42 26.4082 (10.6100342d) Dec: +41 16 39.85 (41.27774d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[BULGE, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(24) M31-42	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS42 (22)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367021)	(24) M31-42	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS42 (22)	249.23203 Secs (249.232 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(24) M31-42	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS42 (22)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367021)	(24) M31-42	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS42 (22)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(24) M31-42	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS42 (22)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
6	F153M-dither4 (WFC3IR.im.1367024)	(24) M31-42	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS42 (22)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*
7	F127M-dither4 (WFC3IR.im.1367021)	(24) M31-42	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS42 (22)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(24) M31-42	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS42 (22)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 15932, POS43 (23), scheduled Wed Nov 04 20:02:47 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS43 (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

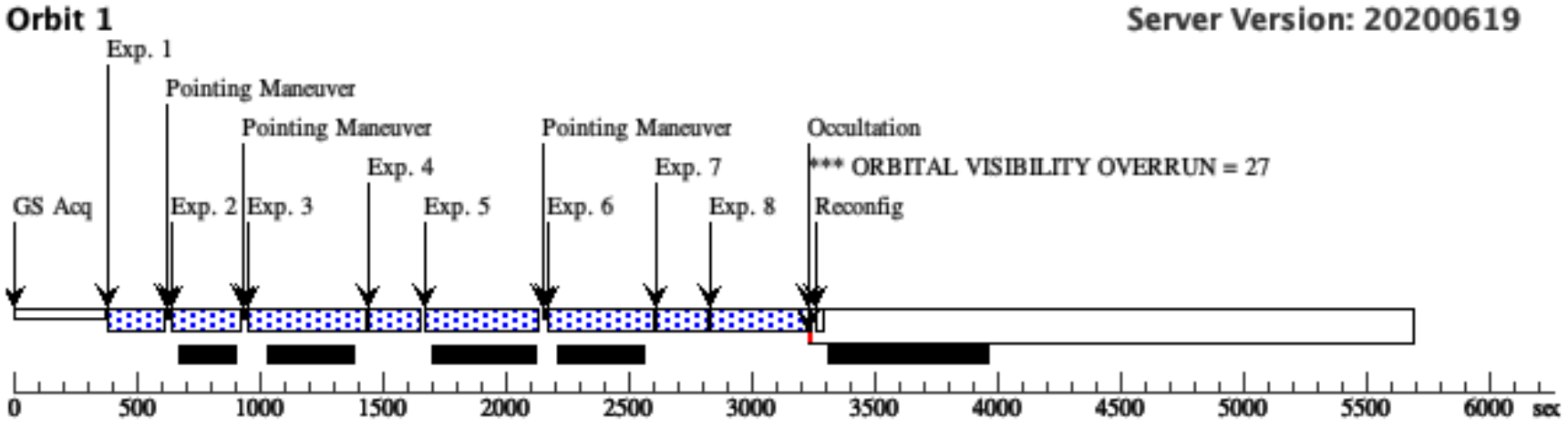
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(25)	M31-43	RA: 00 42 18.8658 (10.5786075d) Dec: +41 11 36.33 (41.19342d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[BULGE, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(25) M31-43	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS43 (23)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367021)	(25) M31-43	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS43 (23)	249.23203 Secs (249.232 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(25) M31-43	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS43 (23)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367021)	(25) M31-43	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS43 (23)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(25) M31-43	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS43 (23)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
6	F153M-dither4 (WFC3IR.im.1367024)	(25) M31-43	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS43 (23)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*
7	F127M-dither4 (WFC3IR.im.1367021)	(25) M31-43	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS43 (23)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(25) M31-43	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS43 (23)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 15932, POS44 (24), failed Wed Nov 04 20:02:47 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS44 (24)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

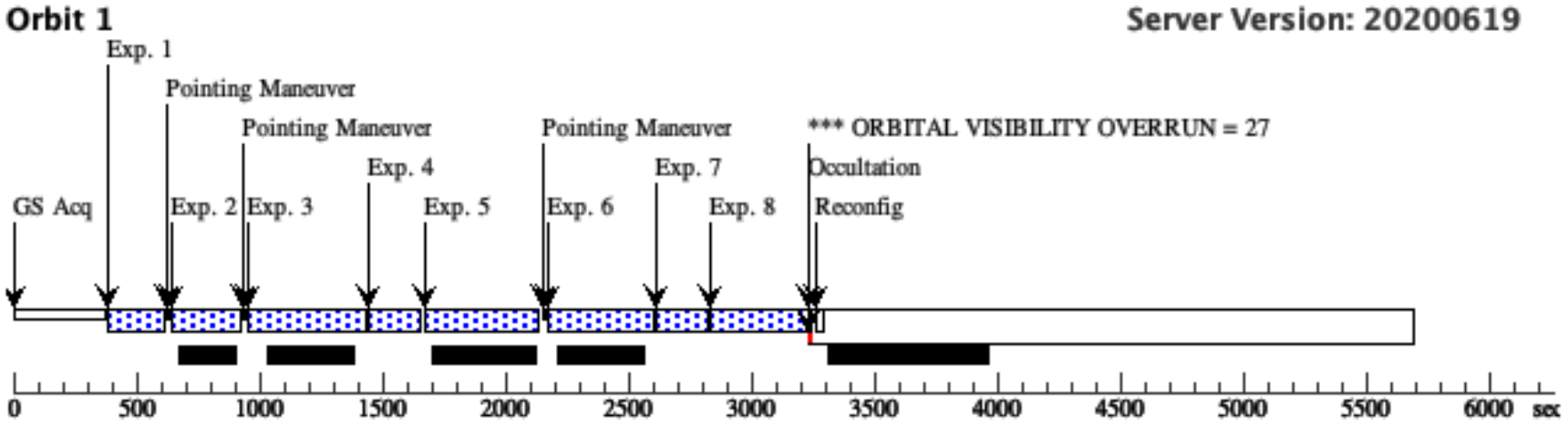
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(26)	M31-44	RA: 00 42 28.7834 (10.6199308d) Dec: +41 10 3.65 (41.16768d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[BULGE, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(26) M31-44	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS44 (24)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367021)	(26) M31-44	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS44 (24)	249.23203 Secs (249.232 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(26) M31-44	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS44 (24)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367021)	(26) M31-44	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS44 (24)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(26) M31-44	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS44 (24)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
6	F153M-dither4 (WFC3IR.im.1367024)	(26) M31-44	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS44 (24)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*
7	F127M-dither4 (WFC3IR.im.1367021)	(26) M31-44	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS44 (24)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(26) M31-44	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS44 (24)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 15932, POS44-v2 (74) Wed Nov 04 20:02:47 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Duplicate of visit 24, which failed.

Diagnostics

(POS44-v2 (74)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

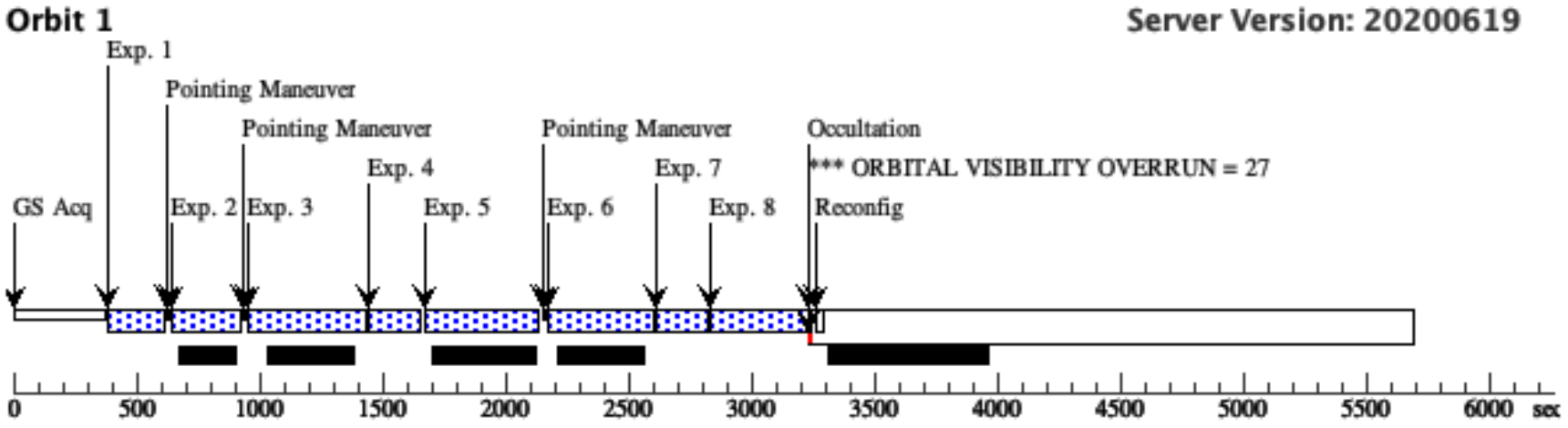
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(26)	M31-44	RA: 00 42 28.7834 (10.6199308d) Dec: +41 10 3.65 (41.16768d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[BULGE, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(26) M31-44	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS44-v2 (74)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367021)	(26) M31-44	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS44-v2 (74)	249.23203 Secs (249.232 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(26) M31-44	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS44-v2 (74)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367021)	(26) M31-44	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS44-v2 (74)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(26) M31-44	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS44-v2 (74)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
6	F153M-dither4 (WFC3IR.im.1367024)	(26) M31-44	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS44-v2 (74)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*
7	F127M-dither4 (WFC3IR.im.1367021)	(26) M31-44	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS44-v2 (74)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(26) M31-44	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS44-v2 (74)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 15932, POS45 (25), scheduled Wed Nov 04 20:02:47 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS45 (25)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

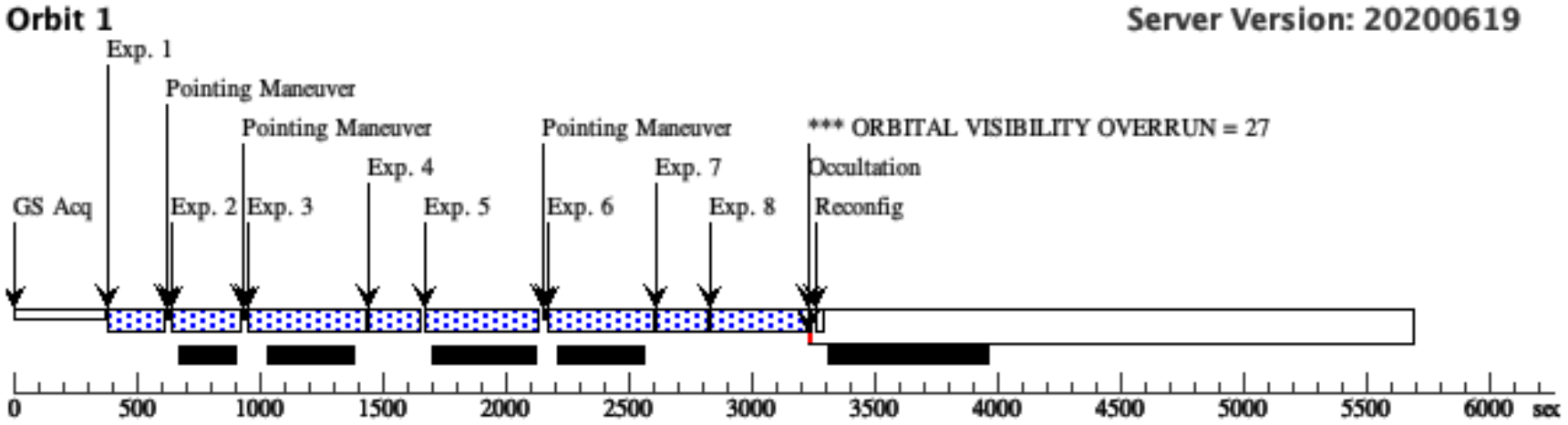
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(27)	M31-45	RA: 00 42 10.5194 (10.5438308d) Dec: +41 09 42.43 (41.16179d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[BULGE, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(27) M31-45	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS45 (25)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367021)	(27) M31-45	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS45 (25)	249.23203 Secs (249.232 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(27) M31-45	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS45 (25)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367021)	(27) M31-45	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS45 (25)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(27) M31-45	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS45 (25)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
6	F153M-dither4 (WFC3IR.im.1367024)	(27) M31-45	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS45 (25)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*
7	F127M-dither4 (WFC3IR.im.1367021)	(27) M31-45	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS45 (25)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(27) M31-45	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS45 (25)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 15932, POS46 (26), completed Wed Nov 04 20:02:47 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(POS46 (26)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

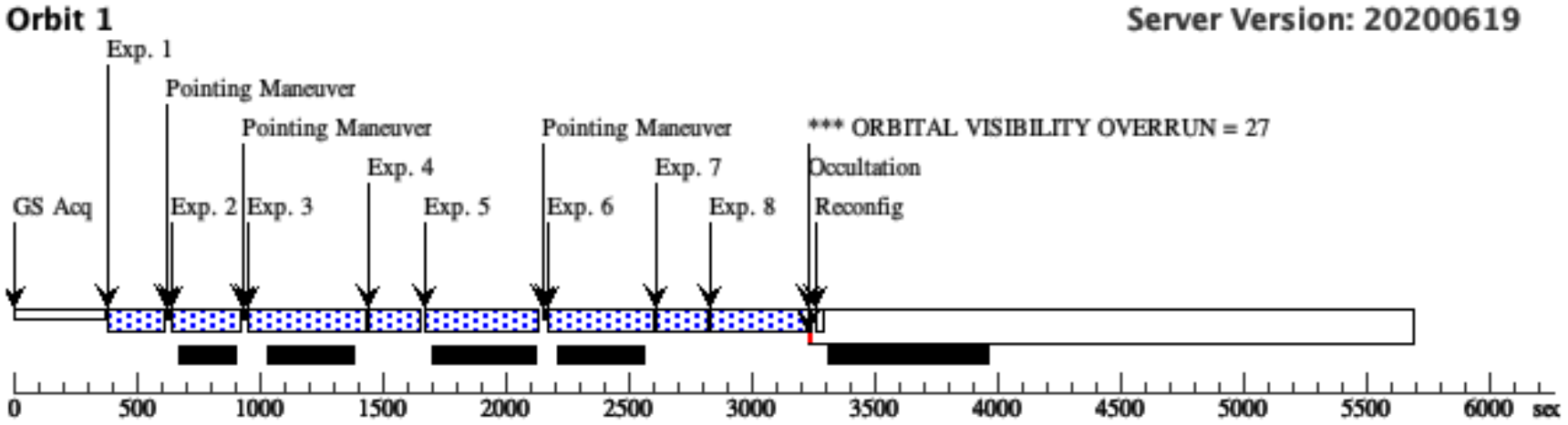
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(28)	M31-46	RA: 00 42 20.4621 (10.5852587d) Dec: +41 08 6.29 (41.13508d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M31 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[BULGE, SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367021)	(28) M31-46	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.542,0.182	Sequence 1-8 Non-Int in POS46 (26)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367021)	(28) M31-46	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=10; SAMP-SEQ=STEP50	POS TARG -0.203,0.303	Sequence 1-8 Non-Int in POS46 (26)	249.23203 Secs (249.232 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(28) M31-46	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS46 (26)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367021)	(28) M31-46	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS46 (26)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(28) M31-46	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=14; SAMP-SEQ=STEP50	POS TARG 0,0	Sequence 1-8 Non-Int in POS46 (26)	449.233834 Secs (449.234 Secs) *[==>]*	*[1]*
6	F153M-dither4 (WFC3IR.im.1367024)	(28) M31-46	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS46 (26)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*
7	F127M-dither4 (WFC3IR.im.1367021)	(28) M31-46	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS46 (26)	199.231579 Secs (199.232 Secs) *[==>]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(28) M31-46	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=13; SAMP-SEQ=STEP50	POS TARG 0.339,0.485	Sequence 1-8 Non-Int in POS46 (26)	399.233383 Secs (399.233 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 15932, M33-POS01 (27), completed Wed Nov 04 20:02:47 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, ACS/WFC

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(M33-POS01 (27)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(29)	M33-01	RA: 01 33 33.0030 (23.3875125d) Dec: +30 32 14.86 (30.53746d) Equinox: J2000		V=18	Reference Frame: ICRS

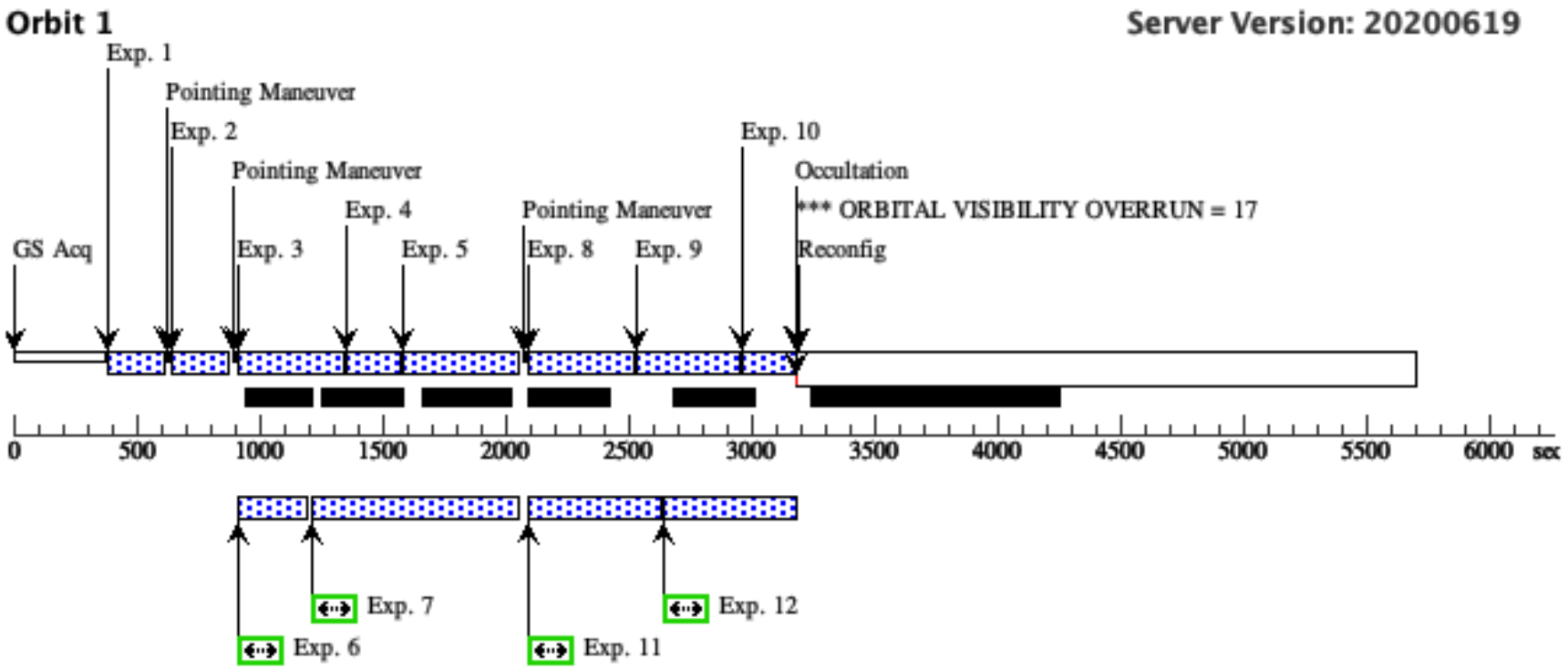
Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M33 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367190)	(29) M33-01	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG 0.542,0.182	Sequence 1-12 Non-Int in M33-POS01 (27)	202.934095 Secs (202.934 Secs) *[==>]*	***[1]***
2	F127M-dither2 (WFC3IR.im.1367190)	(29) M33-01	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG -0.203,0.303	Sequence 1-12 Non-Int in M33-POS01 (27)	202.934095 Secs (202.934 Secs) *[==>]*	***[1]***
3	F139M-dither3 (WFC3IR.im.1367025)	(29) M33-01	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=9; SAMP-SEQ=SPARS50	POS TARG 0,0	Sequence 1-12 Non-Int in M33-POS01 (27) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS01 (27)	402.935899 Secs (402.936 Secs) *[==>]*	***[1]***
4	F127M-dither3 (WFC3IR.im.1367190)	(29) M33-01	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG 0,0	Sequence 1-12 Non-Int in M33-POS01 (27) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS01 (27)	202.934095 Secs (202.934 Secs) *[==>]*	***[1]***
5	F153M-dither3 (WFC3IR.im.1367024)	(29) M33-01	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=10; SAMP-SEQ=SPARS50	POS TARG 0,0	Sequence 1-12 Non-Int in M33-POS01 (27) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS01 (27)	452.93635 Secs (452.936 Secs) *[==>]*	***[1]***
6	F625W-dither3	ANY	ACS/WFC, ACCUM, WFC	F625W			Sequence 1-12 Non-Int in M33-POS01 (27) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS01 (27)	100 Secs (74 Secs) *[==>74.0 Secs]*	***[1]***
7	F658N-dither3	ANY	ACS/WFC, ACCUM, WFC	F658N			Sequence 1-12 Non-Int in M33-POS01 (27) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS01 (27)	714 Secs (688 Secs) *[==>688.0 Secs]*	***[1]***
8	F139M-dither4 (WFC3IR.im.1367025)	(29) M33-01	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=9; SAMP-SEQ=SPARS50	POS TARG 0.339,0.485	Sequence 1-12 Non-Int in M33-POS01 (27) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS01 (27)	402.935899 Secs (402.936 Secs) *[==>]*	***[1]***
9	F153M-dither4 (WFC3IR.im.1367024)	(29) M33-01	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=9; SAMP-SEQ=SPARS50	POS TARG 0.339,0.485	Sequence 1-12 Non-Int in M33-POS01 (27) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS01 (27)	402.935899 Secs (402.936 Secs) *[==>]*	***[1]***

	10	F127M-dither4 (WFC3IR.im.1367190)	(29) M33-01	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG 0.339,0.485	Sequence 1-12 Non-Int in M33-POS01 (27) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS01 (27)	202.934095 Secs (202.934 Secs) *[==>]*	***[1]***
	11	F658N-dither3	ANY	ACS/WFC, ACCUM, WFC	F658N			Sequence 1-12 Non-Int in M33-POS01 (27) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS01 (27)	380 Secs (418 Secs) *[==>418.0 Secs]*	***[1]***
	12	F625W-dither3	ANY	ACS/WFC, ACCUM, WFC	F625W			Sequence 1-12 Non-Int in M33-POS01 (27) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS01 (27)	340 Secs (378 Secs) *[==>378.0 Secs]*	***[1]***

Orbit Structure



Proposal 15932 - M33-POS02 (28) - Uncovering the Cause of the Shift in Carbon Star Behaviour at High Metallicity

Visit

Proposal 15932, M33-POS02 (28), completed Wed Nov 04 20:02:47 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, ACS/WFC

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(M33-POS02 (28)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(30)	M33-02	RA: 01 33 39.8482 (23.4160342d) Dec: +30 34 54.64 (30.58184d) Equinox: J2000		V=18	Reference Frame: ICRS

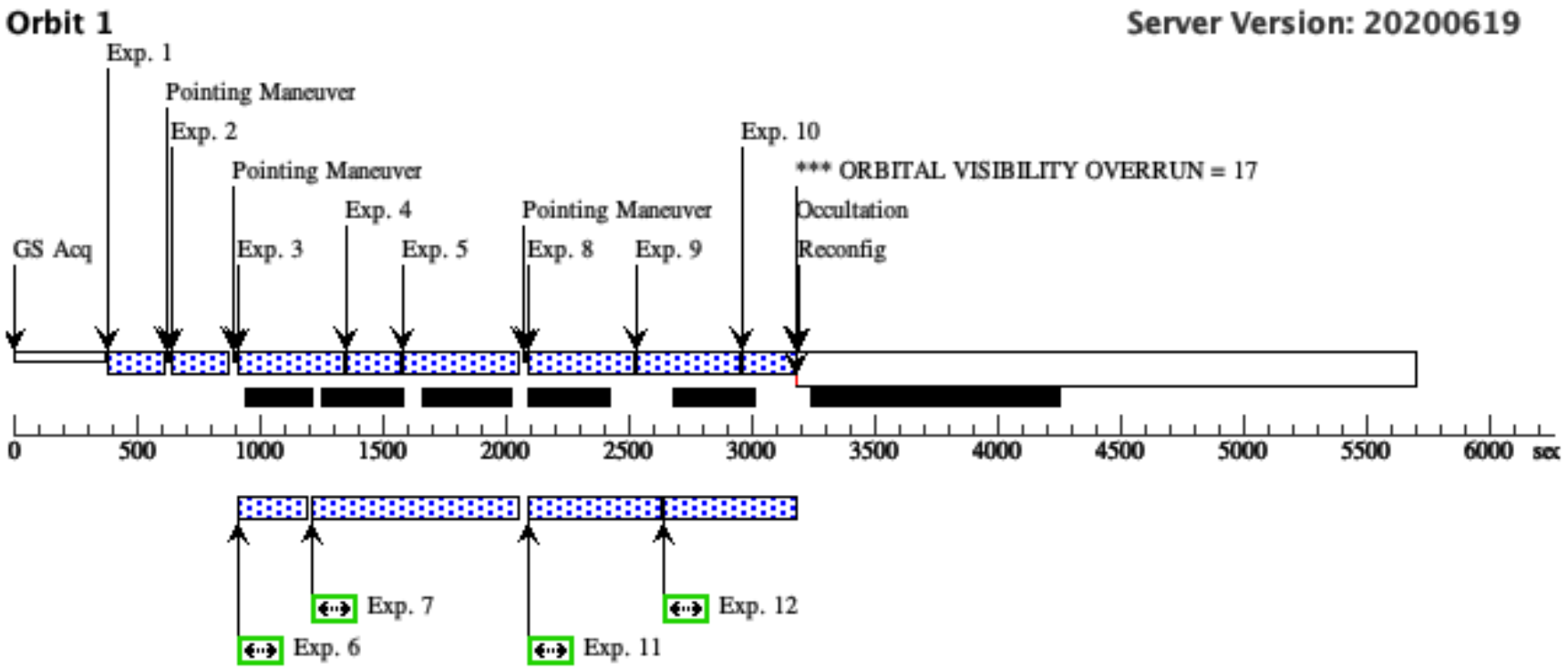
Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M33 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367190)	(30) M33-02	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG 0.542,0.182	Sequence 1-12 Non-Int in M33-POS02 (28)	202.934095 Secs (202.934 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367190)	(30) M33-02	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG -0.203,0.303	Sequence 1-12 Non-Int in M33-POS02 (28)	202.934095 Secs (202.934 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(30) M33-02	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=9; SAMP-SEQ=SPARS50	POS TARG 0,0	Sequence 1-12 Non-Int in M33-POS02 (28) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS02 (28)	402.935899 Secs (402.936 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367190)	(30) M33-02	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG 0,0	Sequence 1-12 Non-Int in M33-POS02 (28) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS02 (28)	202.934095 Secs (202.934 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(30) M33-02	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=10; SAMP-SEQ=SPARS50	POS TARG 0,0	Sequence 1-12 Non-Int in M33-POS02 (28) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS02 (28)	452.93635 Secs (452.936 Secs) *[==>]*	*[1]*
6	F625W-dither3	ANY	ACS/WFC, ACCUM, WFC	F625W			Sequence 1-12 Non-Int in M33-POS02 (28) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS02 (28)	100 Secs (74 Secs) *[==>74.0 Secs]*	*[1]*
7	F658N-dither3	ANY	ACS/WFC, ACCUM, WFC	F658N			Sequence 1-12 Non-Int in M33-POS02 (28) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS02 (28)	714 Secs (688 Secs) *[==>688.0 Secs]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(30) M33-02	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=9; SAMP-SEQ=SPARS50	POS TARG 0.339,0.485	Sequence 1-12 Non-Int in M33-POS02 (28) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS02 (28)	402.935899 Secs (402.936 Secs) *[==>]*	*[1]*
9	F153M-dither4 (WFC3IR.im.1367024)	(30) M33-02	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=9; SAMP-SEQ=SPARS50	POS TARG 0.339,0.485	Sequence 1-12 Non-Int in M33-POS02 (28) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS02 (28)	402.935899 Secs (402.936 Secs) *[==>]*	*[1]*

	10	F127M-dither4 (WFC3IR.im.1367190)	(30) M33-02	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG 0.339,0.485	Sequence 1-12 Non-Int in M33-POS02 (28) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS02 (28)	202.934095 Secs (202.934 Secs) *[==>]*	***[1]***
	11	F658N-dither3	ANY	ACS/WFC, ACCUM, WFC	F658N			Sequence 1-12 Non-Int in M33-POS02 (28) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS02 (28)	380 Secs (418 Secs) *[==>418.0 Secs]*	***[1]***
	12	F625W-dither3	ANY	ACS/WFC, ACCUM, WFC	F625W			Sequence 1-12 Non-Int in M33-POS02 (28) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS02 (28)	340 Secs (378 Secs) *[==>378.0 Secs]*	***[1]***

Orbit Structure



Proposal 15932 - M33-POS03 (29) - Uncovering the Cause of the Shift in Carbon Star Behaviour at High Metallicity

Visit

Proposal 15932, M33-POS03 (29), completed Wed Nov 04 20:02:48 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, ACS/WFC

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(M33-POS03 (29)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(31)	M33-03	RA: 01 33 45.2024 (23.4383433d) Dec: +30 37 32.74 (30.62576d) Equinox: J2000		V=18	Reference Frame: ICRS

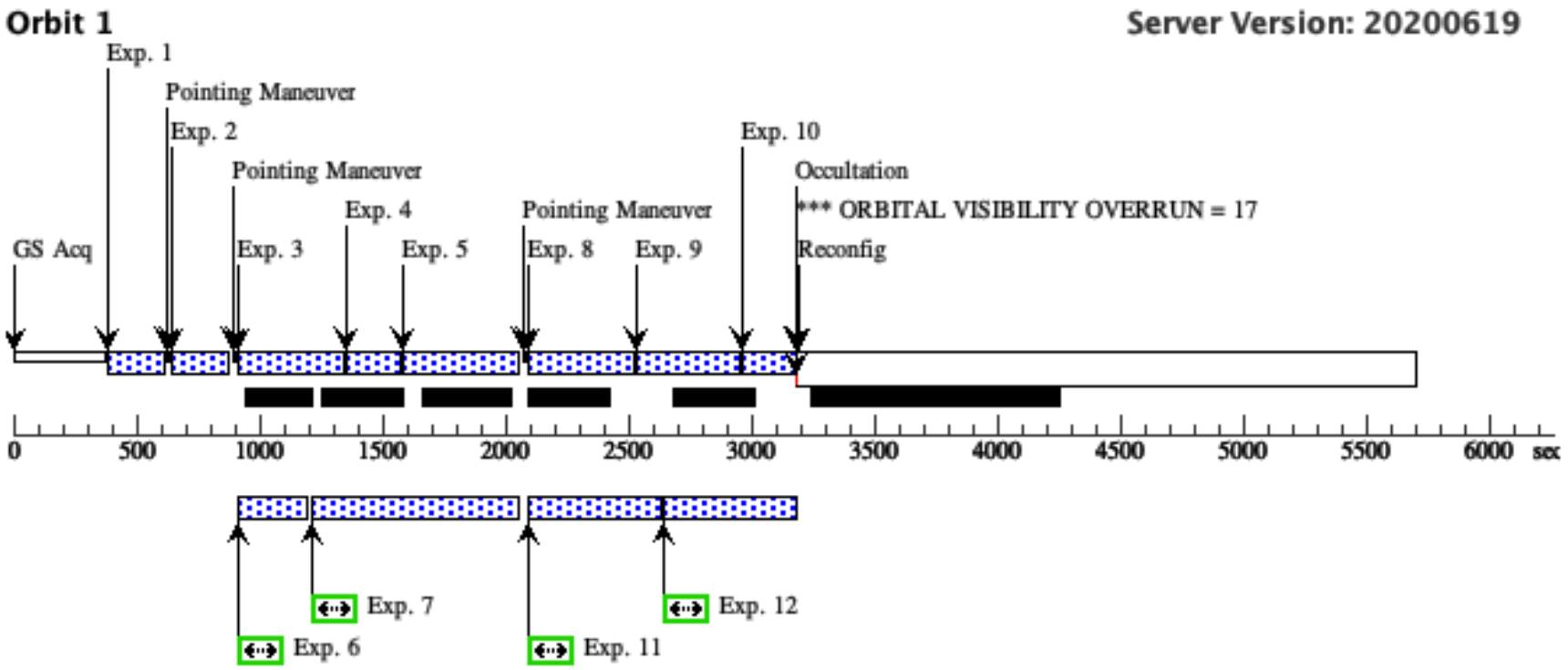
Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M33 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367190)	(31) M33-03	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG 0.542,0.182	Sequence 1-12 Non-Int in M33-POS03 (29)	202.934095 Secs (202.934 Secs) *[==>]*	***[1]***
2	F127M-dither2 (WFC3IR.im.1367190)	(31) M33-03	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG -0.203,0.303	Sequence 1-12 Non-Int in M33-POS03 (29)	202.934095 Secs (202.934 Secs) *[==>]*	***[1]***
3	F139M-dither3 (WFC3IR.im.1367025)	(31) M33-03	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=9; SAMP-SEQ=SPARS50	POS TARG 0,0	Sequence 1-12 Non-Int in M33-POS03 (29) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS03 (29)	402.935899 Secs (402.936 Secs) *[==>]*	***[1]***
4	F127M-dither3 (WFC3IR.im.1367190)	(31) M33-03	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG 0,0	Sequence 1-12 Non-Int in M33-POS03 (29) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS03 (29)	202.934095 Secs (202.934 Secs) *[==>]*	***[1]***
5	F153M-dither3 (WFC3IR.im.1367024)	(31) M33-03	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=10; SAMP-SEQ=SPARS50	POS TARG 0,0	Sequence 1-12 Non-Int in M33-POS03 (29) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS03 (29)	452.93635 Secs (452.936 Secs) *[==>]*	***[1]***
6	F625W-dither3	ANY	ACS/WFC, ACCUM, WFC	F625W			Sequence 1-12 Non-Int in M33-POS03 (29) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS03 (29)	100 Secs (74 Secs) *[==>74.0 Secs]*	***[1]***
7	F658N-dither3	ANY	ACS/WFC, ACCUM, WFC	F658N			Sequence 1-12 Non-Int in M33-POS03 (29) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS03 (29)	714 Secs (688 Secs) *[==>688.0 Secs]*	***[1]***
8	F139M-dither4 (WFC3IR.im.1367025)	(31) M33-03	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=9; SAMP-SEQ=SPARS50	POS TARG 0.339,0.485	Sequence 1-12 Non-Int in M33-POS03 (29) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS03 (29)	402.935899 Secs (402.936 Secs) *[==>]*	***[1]***
9	F153M-dither4 (WFC3IR.im.1367024)	(31) M33-03	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=9; SAMP-SEQ=SPARS50	POS TARG 0.339,0.485	Sequence 1-12 Non-Int in M33-POS03 (29) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS03 (29)	402.935899 Secs (402.936 Secs) *[==>]*	***[1]***

	10	F127M-dither4 (WFC3IR.im.1367190)	(31) M33-03	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG 0.339,0.485	Sequence 1-12 Non-Int in M33-POS03 (29) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS03 (29)	202.934095 Secs (202.934 Secs) *[==>]*	***[1]***
	11	F658N-dither3	ANY	ACS/WFC, ACCUM, WFC	F658N			Sequence 1-12 Non-Int in M33-POS03 (29) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS03 (29)	380 Secs (418 Secs) *[==>418.0 Secs]*	***[1]***
	12	F625W-dither3	ANY	ACS/WFC, ACCUM, WFC	F625W			Sequence 1-12 Non-Int in M33-POS03 (29) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS03 (29)	340 Secs (378 Secs) *[==>378.0 Secs]*	***[1]***

Orbit Structure



Proposal 15932 - M33-POS04 (30) - Uncovering the Cause of the Shift in Carbon Star Behaviour at High Metallicity

Visit

Proposal 15932, M33-POS04 (30), completed Wed Nov 04 20:02:48 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, ACS/WFC

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(M33-POS04 (30)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(32)	M33-04	RA: 01 33 51.0068 (23.4625283d) Dec: +30 40 4.78 (30.66799d) Equinox: J2000		V=18	Reference Frame: ICRS

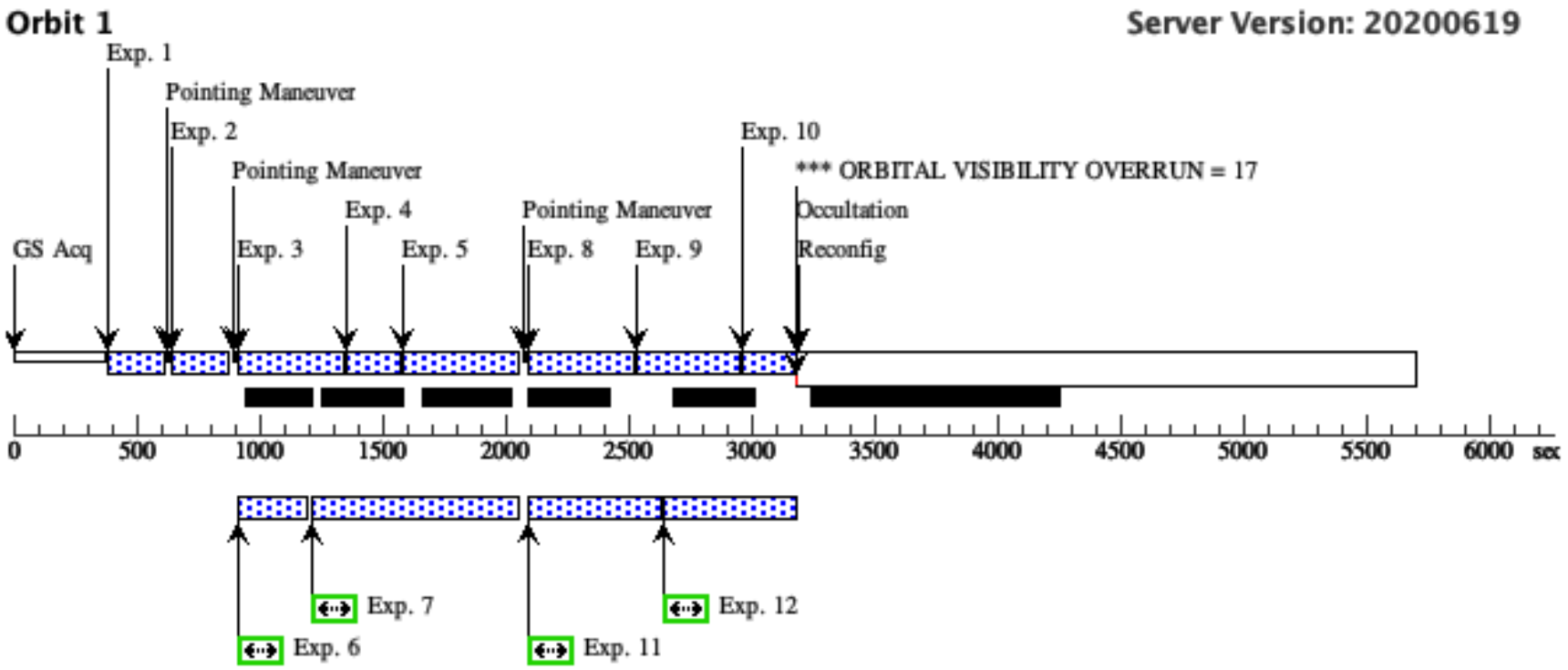
Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M33 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367190)	(32) M33-04	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG 0.542,0.182	Sequence 1-12 Non-Int in M33-POS04 (30)	202.934095 Secs (202.934 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367190)	(32) M33-04	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG -0.203,0.303	Sequence 1-12 Non-Int in M33-POS04 (30)	202.934095 Secs (202.934 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(32) M33-04	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=9; SAMP-SEQ=SPARS50	POS TARG 0,0	Sequence 1-12 Non-Int in M33-POS04 (30) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS04 (30)	402.935899 Secs (402.936 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367190)	(32) M33-04	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG 0,0	Sequence 1-12 Non-Int in M33-POS04 (30) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS04 (30)	202.934095 Secs (202.934 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(32) M33-04	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=10; SAMP-SEQ=SPARS50	POS TARG 0,0	Sequence 1-12 Non-Int in M33-POS04 (30) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS04 (30)	452.93635 Secs (452.936 Secs) *[==>]*	*[1]*
6	F625W-dither3	ANY	ACS/WFC, ACCUM, WFC	F625W			Sequence 1-12 Non-Int in M33-POS04 (30) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS04 (30)	100 Secs (74 Secs) *[==>74.0 Secs]*	*[1]*
7	F658N-dither3	ANY	ACS/WFC, ACCUM, WFC	F658N			Sequence 1-12 Non-Int in M33-POS04 (30) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS04 (30)	714 Secs (688 Secs) *[==>688.0 Secs]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(32) M33-04	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=9; SAMP-SEQ=SPARS50	POS TARG 0.339,0.485	Sequence 1-12 Non-Int in M33-POS04 (30) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS04 (30)	402.935899 Secs (402.936 Secs) *[==>]*	*[1]*
9	F153M-dither4 (WFC3IR.im.1367024)	(32) M33-04	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=9; SAMP-SEQ=SPARS50	POS TARG 0.339,0.485	Sequence 1-12 Non-Int in M33-POS04 (30) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS04 (30)	402.935899 Secs (402.936 Secs) *[==>]*	*[1]*

	10	F127M-dither4 (WFC3IR.im.1367190)	(32) M33-04	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG 0.339,0.485	Sequence 1-12 Non-Int in M33-POS04 (30) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS04 (30)	202.934095 Secs (202.934 Secs) *[==>]*	***[1]***
	11	F658N-dither3	ANY	ACS/WFC, ACCUM, WFC	F658N			Sequence 1-12 Non-Int in M33-POS04 (30) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS04 (30)	380 Secs (418 Secs) *[==>418.0 Secs]*	***[1]***
	12	F625W-dither3	ANY	ACS/WFC, ACCUM, WFC	F625W			Sequence 1-12 Non-Int in M33-POS04 (30) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS04 (30)	340 Secs (378 Secs) *[==>378.0 Secs]*	***[1]***

Orbit Structure



Proposal 15932 - M33-POS05 (31) - Uncovering the Cause of the Shift in Carbon Star Behaviour at High Metallicity

Visit

Proposal 15932, M33-POS05 (31), completed Wed Nov 04 20:02:48 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, ACS/WFC

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(M33-POS05 (31)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(33)	M33-05	RA: 01 33 56.5021 (23.4854254d) Dec: +30 42 49.91 (30.71386d) Equinox: J2000		V=18	Reference Frame: ICRS

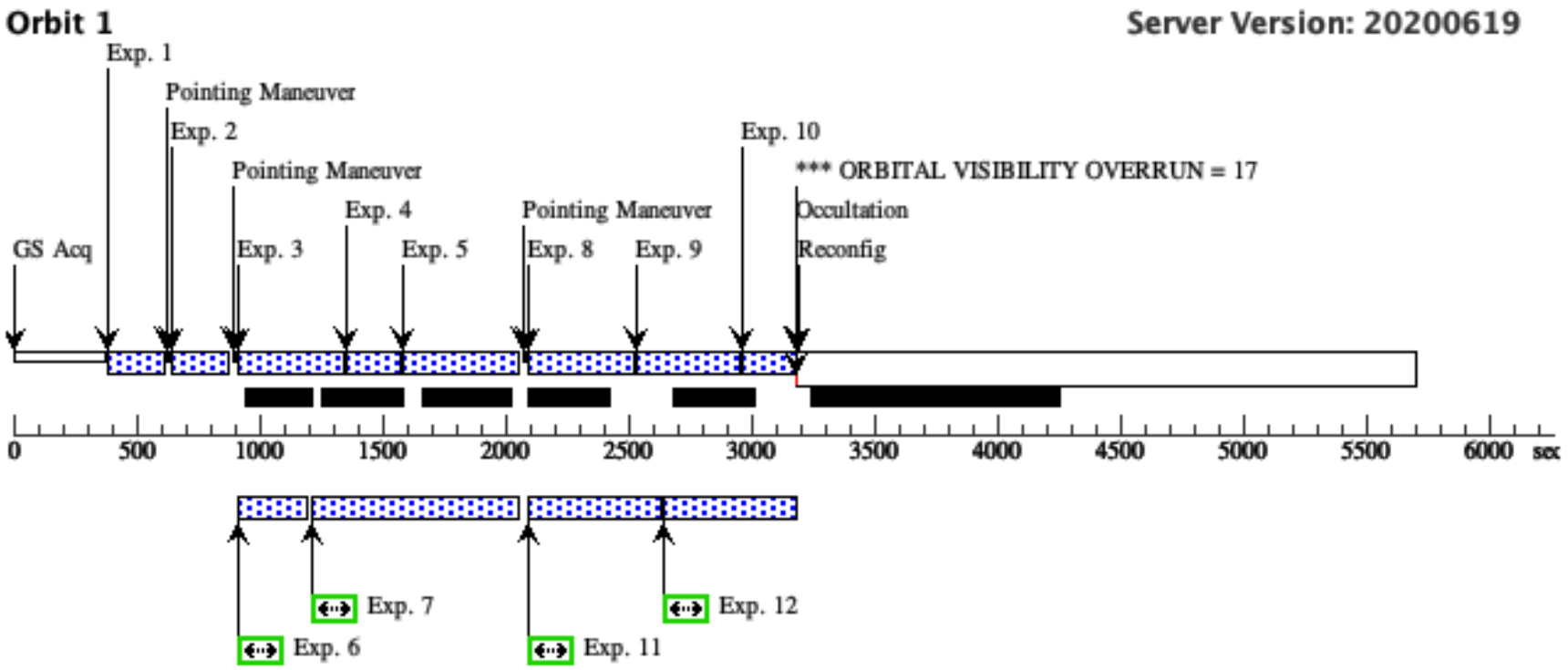
Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M33 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367190)	(33) M33-05	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG 0.542,0.182	Sequence 1-12 Non-Int in M33-POS05 (31)	202.934095 Secs (202.934 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367190)	(33) M33-05	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG -0.203,0.303	Sequence 1-12 Non-Int in M33-POS05 (31)	202.934095 Secs (202.934 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(33) M33-05	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=9; SAMP-SEQ=SPARS50	POS TARG 0,0	Sequence 1-12 Non-Int in M33-POS05 (31) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS05 (31)	402.935899 Secs (402.936 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367190)	(33) M33-05	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG 0,0	Sequence 1-12 Non-Int in M33-POS05 (31) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS05 (31)	202.934095 Secs (202.934 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(33) M33-05	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=10; SAMP-SEQ=SPARS50	POS TARG 0,0	Sequence 1-12 Non-Int in M33-POS05 (31) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS05 (31)	452.93635 Secs (452.936 Secs) *[==>]*	*[1]*
6	F625W-dither3	ANY	ACS/WFC, ACCUM, WFC	F625W			Sequence 1-12 Non-Int in M33-POS05 (31) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS05 (31)	100 Secs (74 Secs) *[==>74.0 Secs]*	*[1]*
7	F658N-dither3	ANY	ACS/WFC, ACCUM, WFC	F658N			Sequence 1-12 Non-Int in M33-POS05 (31) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS05 (31)	714 Secs (688 Secs) *[==>688.0 Secs]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(33) M33-05	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=9; SAMP-SEQ=SPARS50	POS TARG 0.339,0.485	Sequence 1-12 Non-Int in M33-POS05 (31) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS05 (31)	402.935899 Secs (402.936 Secs) *[==>]*	*[1]*
9	F153M-dither4 (WFC3IR.im.1367024)	(33) M33-05	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=9; SAMP-SEQ=SPARS50	POS TARG 0.339,0.485	Sequence 1-12 Non-Int in M33-POS05 (31) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS05 (31)	402.935899 Secs (402.936 Secs) *[==>]*	*[1]*

	10	F127M-dither4 (WFC3IR.im.1367190)	(33) M33-05	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG 0.339,0.485	Sequence 1-12 Non-Int in M33-POS05 (31) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS05 (31)	202.934095 Secs (202.934 Secs) *[==>]*	***[1]***
	11	F658N-dither3	ANY	ACS/WFC, ACCUM, WFC	F658N			Sequence 1-12 Non-Int in M33-POS05 (31) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS05 (31)	380 Secs (418 Secs) *[==>418.0 Secs]*	***[1]***
	12	F625W-dither3	ANY	ACS/WFC, ACCUM, WFC	F625W			Sequence 1-12 Non-Int in M33-POS05 (31) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS05 (31)	340 Secs (378 Secs) *[==>378.0 Secs]*	***[1]***

Orbit Structure



Proposal 15932 - M33-POS06 (32) - Uncovering the Cause of the Shift in Carbon Star Behaviour at High Metallicity

Visit

Proposal 15932, M33-POS06 (32), completed Wed Nov 04 20:02:48 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, ACS/WFC

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(M33-POS06 (32)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(34)	M33-06	RA: 01 34 3.0373 (23.5126554d) Dec: +30 45 40.51 (30.76125d) Equinox: J2000		V=18	Reference Frame: ICRS

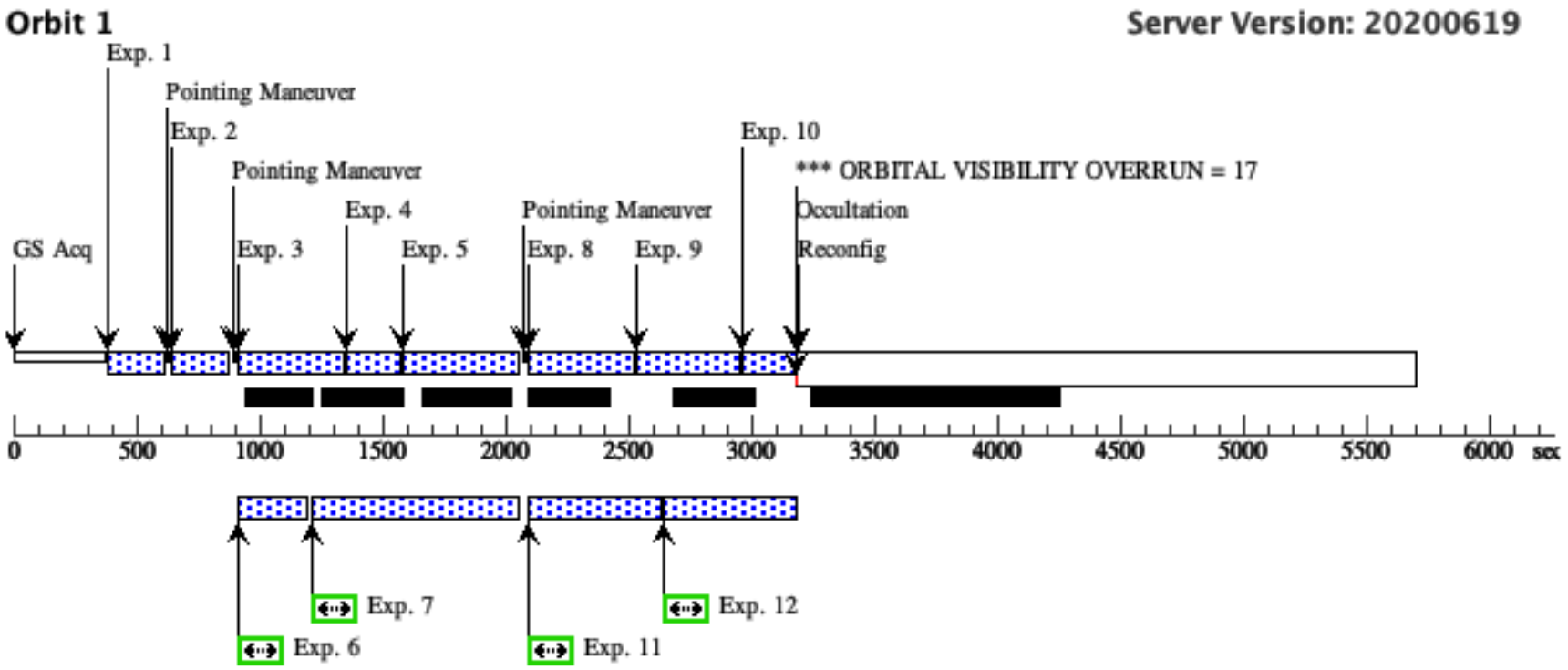
Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M33 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367190)	(34) M33-06	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG 0.542,0.182	Sequence 1-12 Non-Int in M33-POS06 (32)	202.934095 Secs (202.934 Secs) *[==>]*	*[1]*
2	F127M-dither2 (WFC3IR.im.1367190)	(34) M33-06	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG -0.203,0.303	Sequence 1-12 Non-Int in M33-POS06 (32)	202.934095 Secs (202.934 Secs) *[==>]*	*[1]*
3	F139M-dither3 (WFC3IR.im.1367025)	(34) M33-06	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=9; SAMP-SEQ=SPARS50	POS TARG 0,0	Sequence 1-12 Non-Int in M33-POS06 (32) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS06 (32)	402.935899 Secs (402.936 Secs) *[==>]*	*[1]*
4	F127M-dither3 (WFC3IR.im.1367190)	(34) M33-06	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG 0,0	Sequence 1-12 Non-Int in M33-POS06 (32) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS06 (32)	202.934095 Secs (202.934 Secs) *[==>]*	*[1]*
5	F153M-dither3 (WFC3IR.im.1367024)	(34) M33-06	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=10; SAMP-SEQ=SPARS50	POS TARG 0,0	Sequence 1-12 Non-Int in M33-POS06 (32) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS06 (32)	452.93635 Secs (452.936 Secs) *[==>]*	*[1]*
6	F625W-dither3	ANY	ACS/WFC, ACCUM, WFC	F625W			Sequence 1-12 Non-Int in M33-POS06 (32) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS06 (32)	100 Secs (74 Secs) *[==>74.0 Secs]*	*[1]*
7	F658N-dither3	ANY	ACS/WFC, ACCUM, WFC	F658N			Sequence 1-12 Non-Int in M33-POS06 (32) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS06 (32)	714 Secs (688 Secs) *[==>688.0 Secs]*	*[1]*
8	F139M-dither4 (WFC3IR.im.1367025)	(34) M33-06	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=9; SAMP-SEQ=SPARS50	POS TARG 0.339,0.485	Sequence 1-12 Non-Int in M33-POS06 (32) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS06 (32)	402.935899 Secs (402.936 Secs) *[==>]*	*[1]*
9	F153M-dither4 (WFC3IR.im.1367024)	(34) M33-06	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=9; SAMP-SEQ=SPARS50	POS TARG 0.339,0.485	Sequence 1-12 Non-Int in M33-POS06 (32) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS06 (32)	402.935899 Secs (402.936 Secs) *[==>]*	*[1]*

	10	F127M-dither4 (WFC3IR.im.1367190)	(34) M33-06	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG 0.339,0.485	Sequence 1-12 Non-Int in M33-POS06 (32) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS06 (32)	202.934095 Secs (202.934 Secs) *[==>]*	***[1]***
	11	F658N-dither3	ANY	ACS/WFC, ACCUM, WFC	F658N			Sequence 1-12 Non-Int in M33-POS06 (32) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS06 (32)	380 Secs (418 Secs) *[==>418.0 Secs]*	***[1]***
	12	F625W-dither3	ANY	ACS/WFC, ACCUM, WFC	F625W			Sequence 1-12 Non-Int in M33-POS06 (32) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS06 (32)	340 Secs (378 Secs) *[==>378.0 Secs]*	***[1]***

Orbit Structure



Visit

Proposal 15932, M33-POS07 (33), completed Wed Nov 04 20:02:48 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, ACS/WFC

Special Requirements: (none)

Comments: Using a 4pt dither for F127M, and a 2pt dither for F139M and F153M. Nyquist sampling will be recovered in two redder filters by leveraging the dithers in the blue filter - all filters will be reduced simultaneously. This strategy follows that used by GO-14072, which this program is an extension of.

Diagnostics

(M33-POS07 (33)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(35)	M33-07	RA: 01 34 9.1735 (23.5382229d) Dec: +30 48 26.60 (30.80739d) Equinox: J2000		V=18	Reference Frame: ICRS

Comments: This is a star field, with a wide range of V-mags. The brightest star in the optical HST images of M33 from the Panchromatic Hubble Andromeda Treasury (PHAT) is about F475W=18 mag. The stars of interest to this program range from approximately F814W=18-23 mag.
Category=GALAXY
Description=[SPIRAL]

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	F127M-dither1 (WFC3IR.im.1367190)	(35) M33-07	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG 0.542,0.182	Sequence 1-12 Non-Int in M33-POS07 (33)	202.934095 Secs (202.934 Secs) *[==>]*	***[1]***
2	F127M-dither2 (WFC3IR.im.1367190)	(35) M33-07	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG -0.203,0.303	Sequence 1-12 Non-Int in M33-POS07 (33)	202.934095 Secs (202.934 Secs) *[==>]*	***[1]***
3	F139M-dither3 (WFC3IR.im.1367025)	(35) M33-07	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=9; SAMP-SEQ=SPARS50	POS TARG 0,0	Sequence 1-12 Non-Int in M33-POS07 (33) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS07 (33)	402.935899 Secs (402.936 Secs) *[==>]*	***[1]***
4	F127M-dither3 (WFC3IR.im.1367190)	(35) M33-07	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG 0,0	Sequence 1-12 Non-Int in M33-POS07 (33) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS07 (33)	202.934095 Secs (202.934 Secs) *[==>]*	***[1]***
5	F153M-dither3 (WFC3IR.im.1367024)	(35) M33-07	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=10; SAMP-SEQ=SPARS50	POS TARG 0,0	Sequence 1-12 Non-Int in M33-POS07 (33) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS07 (33)	452.93635 Secs (452.936 Secs) *[==>]*	***[1]***
6	F625W-dither3	ANY	ACS/WFC, ACCUM, WFC	F625W			Sequence 1-12 Non-Int in M33-POS07 (33) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS07 (33)	100 Secs (74 Secs) *[==>74.0 Secs]*	***[1]***
7	F658N-dither3	ANY	ACS/WFC, ACCUM, WFC	F658N			Sequence 1-12 Non-Int in M33-POS07 (33) Prime + Parallel Group 3-7 in Sequence 1-12 Non-Int in M33-POS07 (33)	714 Secs (688 Secs) *[==>688.0 Secs]*	***[1]***
8	F139M-dither4 (WFC3IR.im.1367025)	(35) M33-07	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=9; SAMP-SEQ=SPARS50	POS TARG 0.339,0.485	Sequence 1-12 Non-Int in M33-POS07 (33) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS07 (33)	402.935899 Secs (402.936 Secs) *[==>]*	***[1]***
9	F153M-dither4 (WFC3IR.im.1367024)	(35) M33-07	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=9; SAMP-SEQ=SPARS50	POS TARG 0.339,0.485	Sequence 1-12 Non-Int in M33-POS07 (33) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS07 (33)	402.935899 Secs (402.936 Secs) *[==>]*	***[1]***

	10	F127M-dither4 (WFC3IR.im.1367190)	(35) M33-07	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG 0.339,0.485	Sequence 1-12 Non-Int in M33-POS07 (33) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS07 (33)	202.934095 Secs (202.934 Secs) *[==>]*	***[1]***
	11	F658N-dither3	ANY	ACS/WFC, ACCUM, WFC	F658N			Sequence 1-12 Non-Int in M33-POS07 (33) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS07 (33)	380 Secs (418 Secs) *[==>418.0 Secs]*	***[1]***
	12	F625W-dither3	ANY	ACS/WFC, ACCUM, WFC	F625W			Sequence 1-12 Non-Int in M33-POS07 (33) Prime + Parallel Group 8-12 in Sequence 1-12 Non-Int in M33-POS07 (33)	340 Secs (378 Secs) *[==>378.0 Secs]*	***[1]***

Orbit Structure