17968 - WFC3 IR Grism Flux/Trace Calibration

Cycle: 33, Proposal Category: CAL/WFC3

(Availability Mode: RESTRICTED)

INVESTIGATORS

Name	*Institution*
Dr. Mitchell Revalski (PI) (Contact)	**Space Telescope Science Institute**
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Ms. Jennifer Mack (CoI) (Contact)	Space Telescope Science Institute
Mariarosa Marinelli (CoI) (Contact)	Space Telescope Science Institute

VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) GD-153	WFC3/IR	1	27-Mar-2026 15:00:16.0	yes
51	(1) GD-153	WFC3/IR	1	27-Mar-2026 15:00:18.0	yes
52	(1) GD-153	WFC3/IR	1	27-Mar-2026 15:00:19.0	yes
53	(1) GD-153	WFC3/IR	1	27-Mar-2026 15:00:20.0	yes
02	(2) GD-71	WFC3/IR	1	27-Mar-2026 15:00:21.0	yes
03	(3) GRW+70D5824	WFC3/IR	1	27-Mar-2026 15:00:22.0	yes
04	(4) P330E	WFC3/IR	1	27-Mar-2026 15:00:22.0	yes
05	(4) P330E	WFC3/IR	1	27-Mar-2026 15:00:24.0	yes

8 Total Orbits Used

ABSTRACT

This program will observe GD-153, GD-71, GRW+70, and P330E to verify the flux calibration near the center of the field (-20, 0) and a few other positions using the WFC3 IR G102 and G141 grisms. These calibrations will be compared with those derived from previous programs:

17688 (GD-153, GD-71, GRW+70, P330E),
17367 (GD-153, GD-71, GRW+70),
17018 (GD-153, GD-71, GRW+70),
16583 (GD-153, GD-71, GRW+70),
16408 (GD-153, GD-71, GRW+70),
15728 (GD-153),
15587 (GD-153),
14994 (GD-153),
14544 (GD-153),
14386 (GD-153),
14024 (GD-71),
13579 (GD-153),
13092 (GD-153),
12702 (GD-71),
12357 (GD-71),
11937 (GD-71)

to check for any time evolution. The data will also be used to calculate wavelength solutions for the grisms and to check for time-dependent sensitivity evolution of the G102 and G141 observing modes.

OBSERVING DESCRIPTION

Observations of GD-153 to verify the flux calibration near the center of the field and at a few other previously observed positions using the WFC3 IR G102 and G141 grisms. These calibrations will be compared with those derived from previous programs. The data will also be used to calculate wavelength solutions for the grisms, and will be used to check time-dependent sensitivity of G102 and G141 observing modes. Observations will be taken with postargs of (-20,-0) (-20,+15) (-20,-15).

Observations of GD-71 to verify the flux calibration near the center of the field and at a few other previously observed positions using the WFC3 IR G102 and G141 grisms. These calibrations will be compared with those derived from previous programs. The data will also be used to calculate wavelength solutions for the grisms, and will be used to check time-dependent sensitivity of G102 and G141 observing modes. Observations will be taken with postargs of (-20,-0) (-20,+15) (-20,-15) (-40,+0). Direct imaging done with only one imaging filter: F098M for G102 and F140W for G141. ORIENT restrictions applied to minimize contamination in this crowded field.

Observations of GRW+70 to verify the flux calibration near the center of the field and at a few other previously observed positions using the WFC3 IR G102 and G141 grisms. These calibrations will be compared with those derived from previous programs. The data will also be used to calculate wavelength solutions for the grisms, and will be used to check time-dependent sensitivity of G102 and G141 observing modes. Observations will be taken with postargs of (-20,-0) (-20,+15) (-20,-15) (-40,+0). Direct imaging done with only one imaging filter: F098M for G102 and F140W for G141. ORIENT restrictions applied to avoid contamination.

The original flux monitor observed GD71 and GD153 at a range of detector positions but was reduced to a single orbit of GD153 based on the stability of the initial calibration. Using a longer time baseline, a decrease in sensitivity of ~0.1% per year has been measured, so GRW+70 was added (and GD71 resumed) to more accurately track these time-dependent losses.

The G-type standard P330E was revisited in early 2025 with 2 orbits to check the TDS. This flux standard has only a small set of grism observations compared to the white dwarfs and is of interest for cross-misson flux calibration. Two orbits are requested this cycle, as in Cycle 32.

Proposal 17968 - GD153 G102 and G141 (01) - WFC3 IR Grism Flux/Trace Calibration

Visit

Proposal 17968, GD153 G102 and G141 (01), failed

Fri Mar 27 19:00:24 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: BETWEEN 01-JAN-2026:00:00:00 AND 31-MAR-2026:00:00:00

Comments: Visit targetting GD153

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	GD-153	RA: 12 57 2.3225 (194.2596771d)	Proper Motion RA: -38.410 mas/yr	V=13.4	Reference Frame: ICRS
		Dec: +22 01 52.63 (22.03129d)	Proper Motion Dec: -202.953 mas/yr		
		Equinox: J2000	Epoch of Position: 2000		

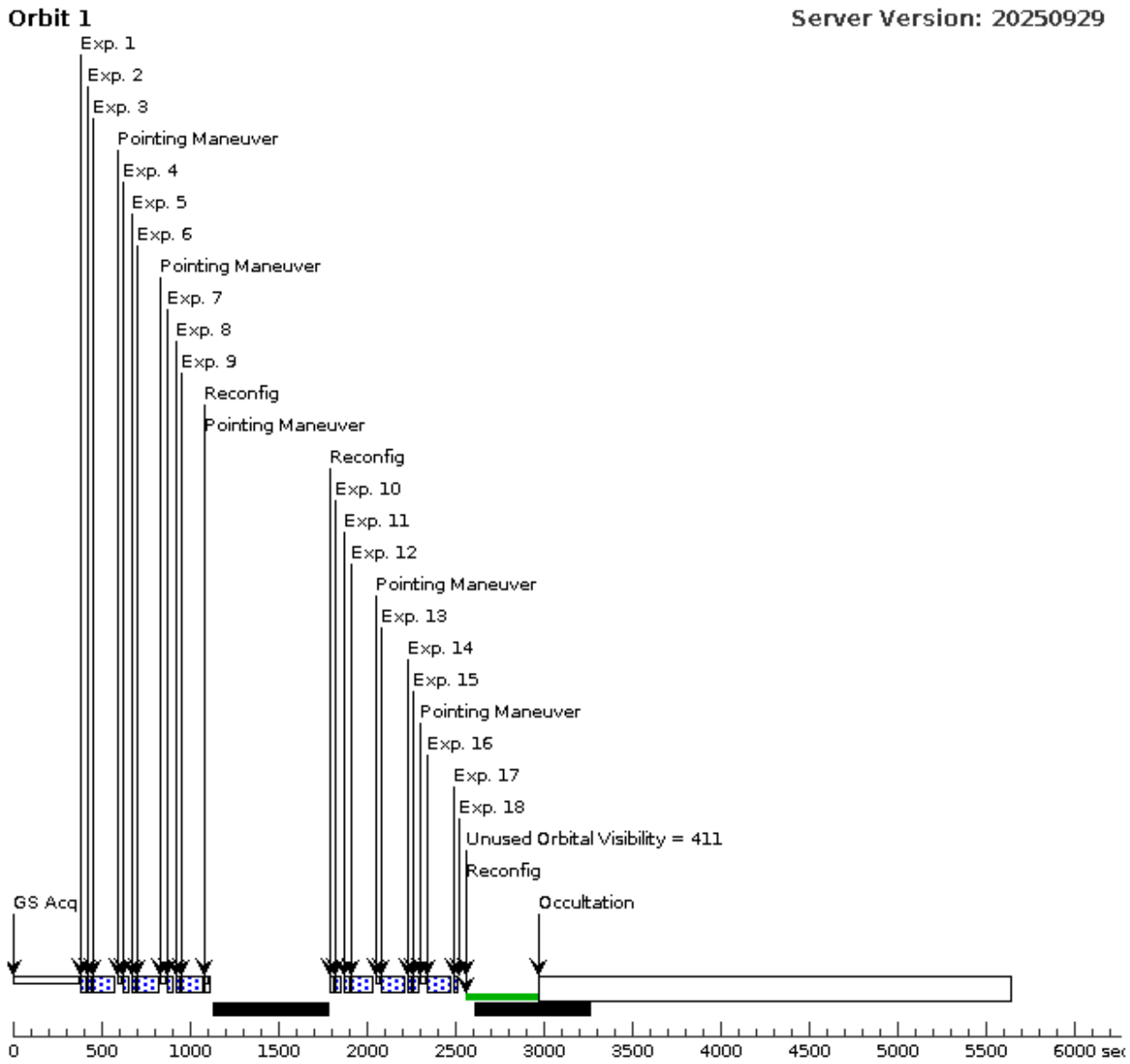
Comments: According to ISR WFC3-2011-05, GD-153 is used as the primary flux calibrator for the WFC3 IR grisms.
Category=STAR
Description=[DA]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	In -20 -0 F098M	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,-0; GS ACQ SCENARIO BASE1O3	Sequence 1-3 Non-Int in GD153 G102 and G141 (01)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***
2	In -20 -0 F105W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID; NSAMP=1	POS TARG -20,-0	Sequence 1-3 Non-Int in GD153 G102 and G141 (01)	2.932291 Secs (2.932 Secs)	
								[==>]	***[1]***
3	In -20 -0 G102	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,-0	Sequence 1-3 Non-Int in GD153 G102 and G141 (01)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
4	In -20 +15 F098M	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,+15	Sequence 4-6 Non-Int in GD153 G102 and G141 (01)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***
5	In -20 +15 F105W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID; NSAMP=1	POS TARG -20,+15	Sequence 4-6 Non-Int in GD153 G102 and G141 (01)	2.932291 Secs (2.932 Secs)	
								[==>]	***[1]***
6	In -20 +15 G102	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,+15	Sequence 4-6 Non-Int in GD153 G102 and G141 (01)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
7	In -20 -15 F098M	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,-15	Sequence 7-9 Non-Int in GD153 G102 and G141 (01)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***
8	In -20 -15 F105W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID; NSAMP=1	POS TARG -20,-15	Sequence 7-9 Non-Int in GD153 G102 and G141 (01)	2.932291 Secs (2.932 Secs)	
								[==>]	***[1]***
9	In -20 -15 G102	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,-15	Sequence 7-9 Non-Int in GD153 G102 and G141 (01)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
10	In -20 -0 F160W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,-0	Sequence 10-12 Non-Int in GD153 G102 and G141 (01)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***
11	In -20 -0 F140W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID; NSAMP=1	POS TARG -20,-0	Sequence 10-12 Non-Int in GD153 G102 and G141 (01)	2.932291 Secs (2.932 Secs)	
								[==>]	***[1]***
12	In -20 -0 G141	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,-0	Sequence 10-12 Non-Int in GD153 G102 and G141 (01)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
13	In -20 +15 G141	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,+15	Sequence 13-15 Non-Int in GD153 G102 and G141 (01)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
14	In -20 +15 F160W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,+15	Sequence 13-15 Non-Int in GD153 G102 and G141 (01)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***
15	In -20 +15 F140W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID; NSAMP=1	POS TARG -20,+15	Sequence 13-15 Non-Int in GD153 G102 and G141 (01)	2.932291 Secs (2.932 Secs)	
								[==>]	***[1]***
16	In -20 -15 G141	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,-15	Sequence 16-18 Non-Int in GD153 G102 and G141 (01)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***

	17	In -20 -15 F 160W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID POS TARG -20,-15 ; NSAMP=2	Sequence 16-18 Non-Int in GD153 G102 and G141 (01)	5.864582 Secs (5.865 Secs) *[==>]*	 ***[1]***
	18	In -20 -15 F 140W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID POS TARG -20,-15 ; NSAMP=1	Sequence 16-18 Non-Int in GD153 G102 and G141 (01)	2.932291 Secs (2.932 Secs) *[==>]*	 ***[1]***

Orbit Structure



Proposal 17968 - GD153 G102 and G141 (51) - WFC3 IR Grism Flux/Trace Calibration

Visit

Proposal 17968, GD153 G102 and G141 (51), failed

Fri Mar 27 19:00:24 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: BETWEEN 01-JAN-2026:00:00:00 AND 31-MAR-2026:00:00:00

Comments: Visit targetting GD153

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	GD-153	RA: 12 57 2.3225 (194.2596771d)	Proper Motion RA: -38.410 mas/yr	V=13.4	Reference Frame: ICRS
		Dec: +22 01 52.63 (22.03129d)	Proper Motion Dec: -202.953 mas/yr		
		Equinox: J2000	Epoch of Position: 2000		

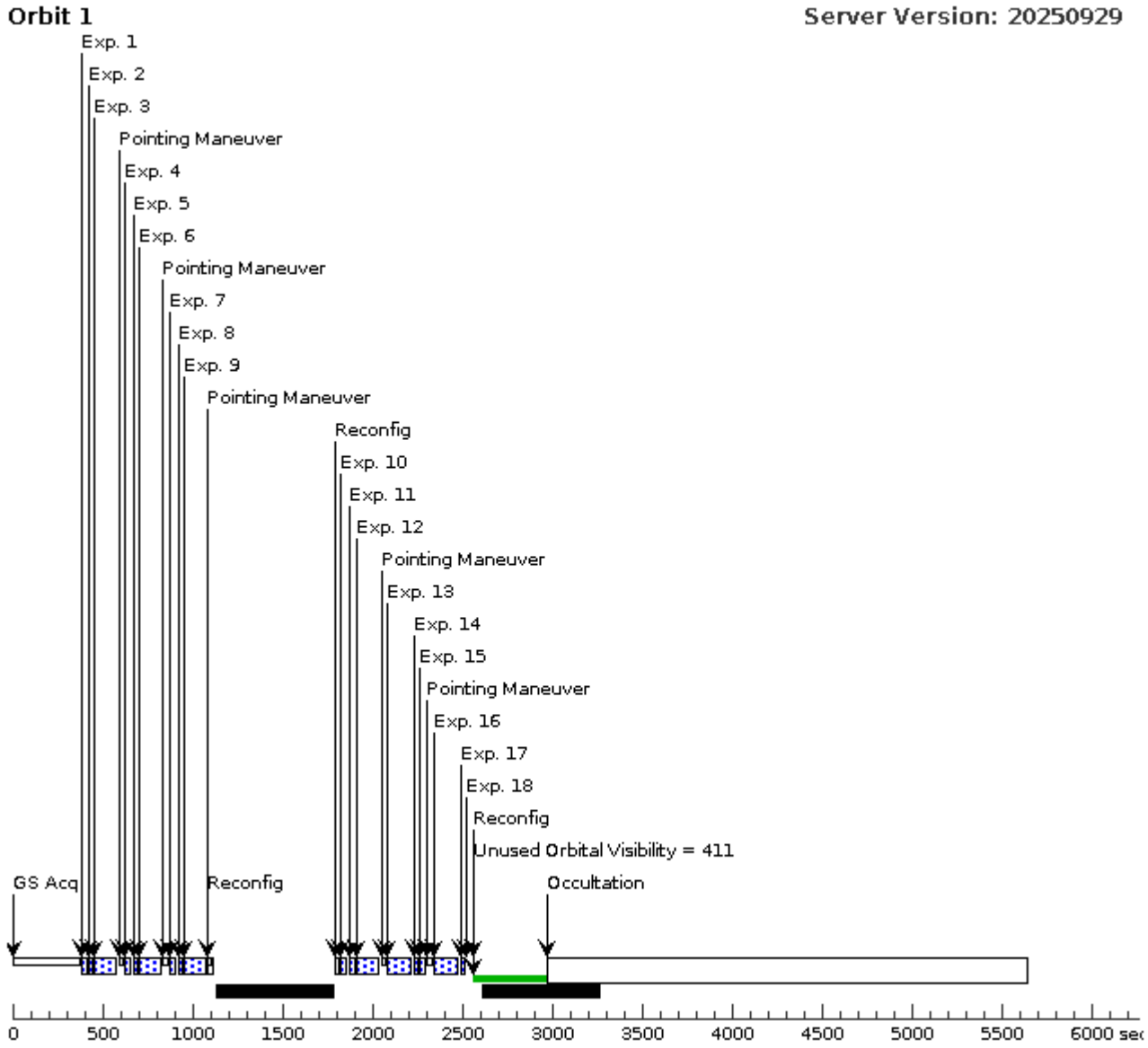
Comments: According to ISR WFC3-2011-05, GD-153 is used as the primary flux calibrator for the WFC3 IR grisms.
Category=STAR
Description=[DA]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	In -20 -0 F098M	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,-0; GS ACQ SCENARIO BASE1O3	Sequence 1-3 Non-Int in GD153 G102 and G141 (51)	5.864582 Secs (5.865 Secs) *[==>]*	*[1]*
2	In -20 -0 F105W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID; NSAMP=1	POS TARG -20,-0	Sequence 1-3 Non-Int in GD153 G102 and G141 (51)	2.932291 Secs (2.932 Secs) *[==>]*	*[1]*
3	In -20 -0 G102	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,-0	Sequence 1-3 Non-Int in GD153 G102 and G141 (51)	102.934351 Secs (102.934 Secs) *[==>]*	*[1]*
4	In -20 +15 F098M	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,+15	Sequence 4-6 Non-Int in GD153 G102 and G141 (51)	5.864582 Secs (5.865 Secs) *[==>]*	*[1]*
5	In -20 +15 F105W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID; NSAMP=1	POS TARG -20,+15	Sequence 4-6 Non-Int in GD153 G102 and G141 (51)	2.932291 Secs (2.932 Secs) *[==>]*	*[1]*
6	In -20 +15 G102	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,+15	Sequence 4-6 Non-Int in GD153 G102 and G141 (51)	102.934351 Secs (102.934 Secs) *[==>]*	*[1]*
7	In -20 -15 F098M	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,-15	Sequence 7-9 Non-Int in GD153 G102 and G141 (51)	5.864582 Secs (5.865 Secs) *[==>]*	*[1]*
8	In -20 -15 F105W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID; NSAMP=1	POS TARG -20,-15	Sequence 7-9 Non-Int in GD153 G102 and G141 (51)	2.932291 Secs (2.932 Secs) *[==>]*	*[1]*
9	In -20 -15 G102	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,-15	Sequence 7-9 Non-Int in GD153 G102 and G141 (51)	102.934351 Secs (102.934 Secs) *[==>]*	*[1]*
10	In -20 -0 F160W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,-0	Sequence 10-12 Non-Int in GD153 G102 and G141 (51)	5.864582 Secs (5.865 Secs) *[==>]*	*[1]*
11	In -20 -0 F140W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID; NSAMP=1	POS TARG -20,-0	Sequence 10-12 Non-Int in GD153 G102 and G141 (51)	2.932291 Secs (2.932 Secs) *[==>]*	*[1]*
12	In -20 -0 G141	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,-0	Sequence 10-12 Non-Int in GD153 G102 and G141 (51)	102.934351 Secs (102.934 Secs) *[==>]*	*[1]*
13	In -20 +15 G141	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,+15	Sequence 13-15 Non-Int in GD153 G102 and G141 (51)	102.934351 Secs (102.934 Secs) *[==>]*	*[1]*
14	In -20 +15 F160W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,+15	Sequence 13-15 Non-Int in GD153 G102 and G141 (51)	5.864582 Secs (5.865 Secs) *[==>]*	*[1]*
15	In -20 +15 F140W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID; NSAMP=1	POS TARG -20,+15	Sequence 13-15 Non-Int in GD153 G102 and G141 (51)	2.932291 Secs (2.932 Secs) *[==>]*	*[1]*
16	In -20 -15 G141	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,-15	Sequence 16-18 Non-Int in GD153 G102 and G141 (51)	102.934351 Secs (102.934 Secs) *[==>]*	*[1]*

	17	In -20 -15 F 160W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID POS TARG -20,-15 ; NSAMP=2	Sequence 16-18 Non-Int in GD153 G102 and G141 (51)	5.864582 Secs (5.865 Secs) *[==>]*	 ***[1]***
	18	In -20 -15 F 140W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID POS TARG -20,-15 ; NSAMP=1	Sequence 16-18 Non-Int in GD153 G102 and G141 (51)	2.932291 Secs (2.932 Secs) *[==>]*	 ***[1]***

Orbit Structure



Visit

Proposal 17968, GD153 G102 and G141 (52), failed Fri Mar 27 19:00:24 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: BETWEEN 01-JAN-2026:00:00:00 AND 31-MAR-2026:00:00:00

Comments: Visit targetting GD153

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	GD-153	RA: 12 57 2.3225 (194.2596771d)	Proper Motion RA: -38.410 mas/yr	V=13.4	Reference Frame: ICRS
		Dec: +22 01 52.63 (22.03129d)	Proper Motion Dec: -202.953 mas/yr		
		Equinox: J2000	Epoch of Position: 2000		

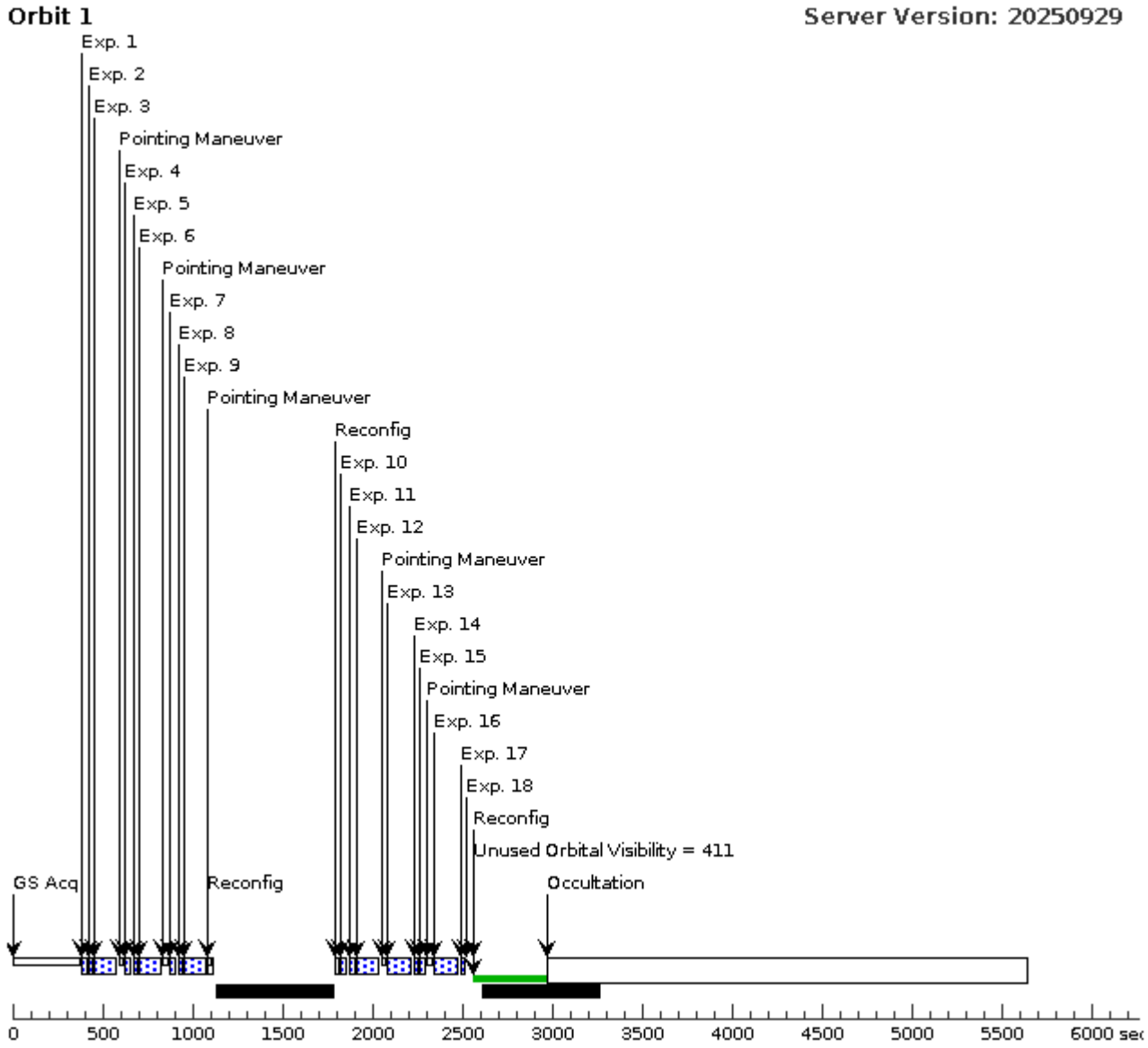
Comments: According to ISR WFC3-2011-05, GD-153 is used as the primary flux calibrator for the WFC3 IR grisms.
Category=STAR
Description=[DA]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	In -20 -0 F098M	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,-0; GS ACQ SCENARIO BASE1O3	Sequence 1-3 Non-Int in GD153 G102 and G141 (52)	5.864582 Secs (5.865 Secs) *[==>]*	*[1]*
2	In -20 -0 F105W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID; NSAMP=1	POS TARG -20,-0	Sequence 1-3 Non-Int in GD153 G102 and G141 (52)	2.932291 Secs (2.932 Secs) *[==>]*	*[1]*
3	In -20 -0 G102	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,-0	Sequence 1-3 Non-Int in GD153 G102 and G141 (52)	102.934351 Secs (102.934 Secs) *[==>]*	*[1]*
4	In -20 +15 F098M	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,+15	Sequence 4-6 Non-Int in GD153 G102 and G141 (52)	5.864582 Secs (5.865 Secs) *[==>]*	*[1]*
5	In -20 +15 F105W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID; NSAMP=1	POS TARG -20,+15	Sequence 4-6 Non-Int in GD153 G102 and G141 (52)	2.932291 Secs (2.932 Secs) *[==>]*	*[1]*
6	In -20 +15 G102	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,+15	Sequence 4-6 Non-Int in GD153 G102 and G141 (52)	102.934351 Secs (102.934 Secs) *[==>]*	*[1]*
7	In -20 -15 F098M	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,-15	Sequence 7-9 Non-Int in GD153 G102 and G141 (52)	5.864582 Secs (5.865 Secs) *[==>]*	*[1]*
8	In -20 -15 F105W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID; NSAMP=1	POS TARG -20,-15	Sequence 7-9 Non-Int in GD153 G102 and G141 (52)	2.932291 Secs (2.932 Secs) *[==>]*	*[1]*
9	In -20 -15 G102	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,-15	Sequence 7-9 Non-Int in GD153 G102 and G141 (52)	102.934351 Secs (102.934 Secs) *[==>]*	*[1]*
10	In -20 -0 F160W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,-0	Sequence 10-12 Non-Int in GD153 G102 and G141 (52)	5.864582 Secs (5.865 Secs) *[==>]*	*[1]*
11	In -20 -0 F140W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID; NSAMP=1	POS TARG -20,-0	Sequence 10-12 Non-Int in GD153 G102 and G141 (52)	2.932291 Secs (2.932 Secs) *[==>]*	*[1]*
12	In -20 -0 G141	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,-0	Sequence 10-12 Non-Int in GD153 G102 and G141 (52)	102.934351 Secs (102.934 Secs) *[==>]*	*[1]*
13	In -20 +15 G141	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,+15	Sequence 13-15 Non-Int in GD153 G102 and G141 (52)	102.934351 Secs (102.934 Secs) *[==>]*	*[1]*
14	In -20 +15 F160W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,+15	Sequence 13-15 Non-Int in GD153 G102 and G141 (52)	5.864582 Secs (5.865 Secs) *[==>]*	*[1]*
15	In -20 +15 F140W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID; NSAMP=1	POS TARG -20,+15	Sequence 13-15 Non-Int in GD153 G102 and G141 (52)	2.932291 Secs (2.932 Secs) *[==>]*	*[1]*
16	In -20 -15 G141	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,-15	Sequence 16-18 Non-Int in GD153 G102 and G141 (52)	102.934351 Secs (102.934 Secs) *[==>]*	*[1]*

	17	In -20 -15 F 160W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID POS TARG -20,-15 ; NSAMP=2	Sequence 16-18 Non-Int in GD153 G102 and G141 (52)	5.864582 Secs (5.865 Secs) *[==>]*	 ***[1]***
	18	In -20 -15 F 140W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID POS TARG -20,-15 ; NSAMP=1	Sequence 16-18 Non-Int in GD153 G102 and G141 (52)	2.932291 Secs (2.932 Secs) *[==>]*	 ***[1]***

Orbit Structure



Visit

Proposal 17968, GD153 G102 and G141 (53), scheduling Fri Mar 27 19:00:24 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: BETWEEN 01-MAR-2026:00:00:00 AND 30-APR-2026:00:00:00

Comments: Visit targetting GD153

Diagnostics

(GD153 G102 and G141 (53)) Warning (Orbit Planner): INVALID GS ACQ SCENARIO SPECIAL REQUIREMENT

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	GD-153	RA: 12 57 2.3225 (194.2596771d) Dec: +22 01 52.63 (22.03129d) Equinox: J2000	Proper Motion RA: -38.410 mas/yr Proper Motion Dec: -202.953 mas/yr Epoch of Position: 2000	V=13.4	Reference Frame: ICRS

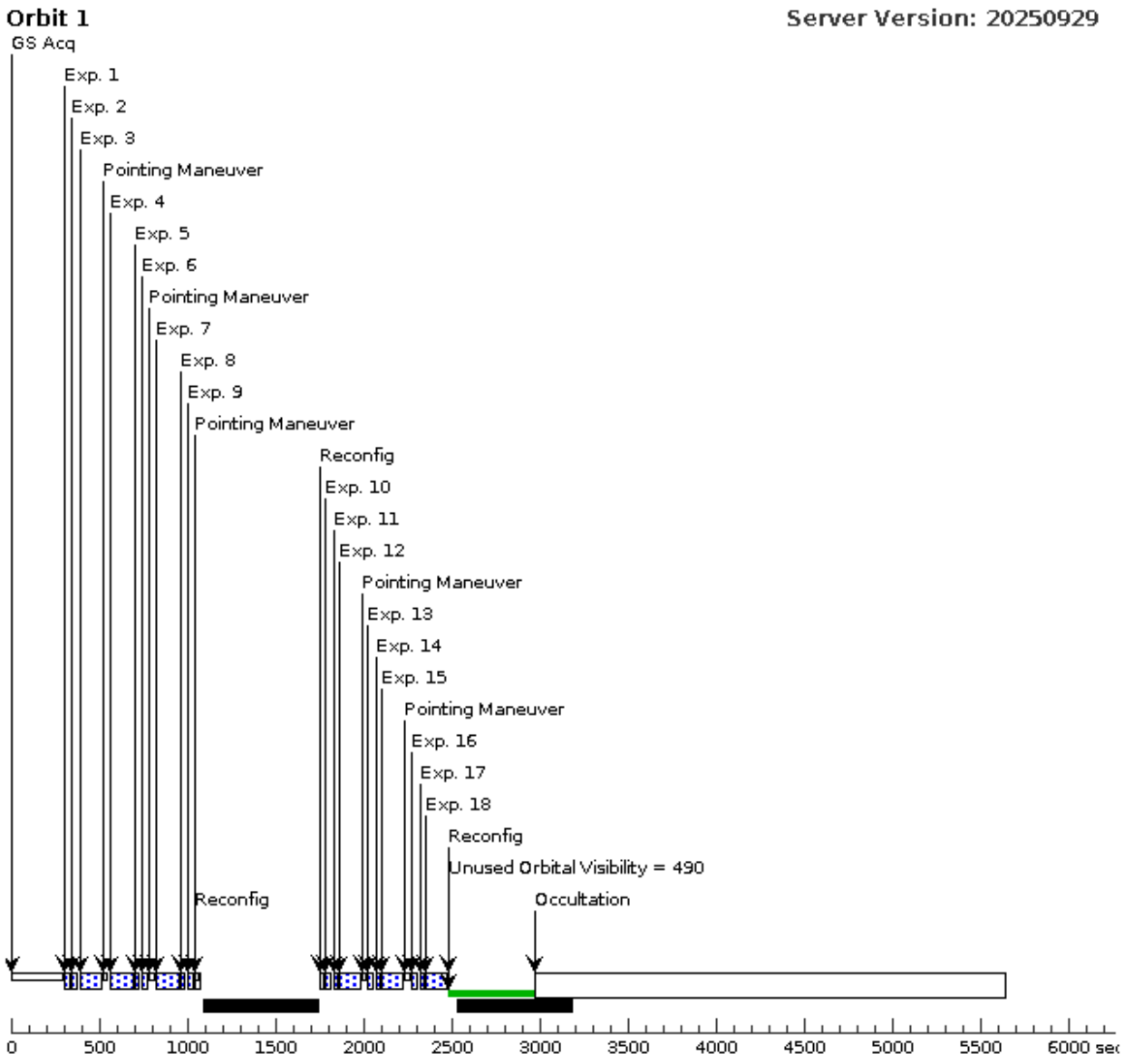
Comments: According to ISR WFC3-2011-05, GD-153 is used as the primary flux calibrator for the WFC3 IR grisms.
Category=STAR
Description=[DA]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	In -20 -0 F160W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,-0; GS ACQ SCENARIO ONEB1OR	Sequence 1-3 Non-Int in GD153 G102 and G141 (53)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***
2	In -20 -0 F140W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID; NSAMP=1	POS TARG -20,-0	Sequence 1-3 Non-Int in GD153 G102 and G141 (53)	2.932291 Secs (2.932 Secs)	
								[==>]	***[1]***
3	In -20 -0 G141	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,-0	Sequence 1-3 Non-Int in GD153 G102 and G141 (53)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
4	In -20 +15 G141	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,+15; GS ACQ SCENARIO ONEB1OR	Sequence 4-6 Non-Int in GD153 G102 and G141 (53)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
5	In -20 +15 F160W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,+15	Sequence 4-6 Non-Int in GD153 G102 and G141 (53)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***
6	In -20 +15 F140W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID; NSAMP=1	POS TARG -20,+15	Sequence 4-6 Non-Int in GD153 G102 and G141 (53)	2.932291 Secs (2.932 Secs)	
								[==>]	***[1]***
7	In -20 -15 G141	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,-15; GS ACQ SCENARIO ONEB1OR	Sequence 7-9 Non-Int in GD153 G102 and G141 (53)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
8	In -20 -15 F160W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,-15	Sequence 7-9 Non-Int in GD153 G102 and G141 (53)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***
9	In -20 -15 F140W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID; NSAMP=1	POS TARG -20,-15	Sequence 7-9 Non-Int in GD153 G102 and G141 (53)	2.932291 Secs (2.932 Secs)	
								[==>]	***[1]***
10	In -20 -0 F098M	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,-0; GS ACQ SCENARIO ONEB1OR	Sequence 10-12 Non-Int in GD153 G102 and G141 (53)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***
11	In -20 -0 F105W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID; NSAMP=1	POS TARG -20,-0	Sequence 10-12 Non-Int in GD153 G102 and G141 (53)	2.932291 Secs (2.932 Secs)	
								[==>]	***[1]***
12	In -20 -0 G102	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,-0	Sequence 10-12 Non-Int in GD153 G102 and G141 (53)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
13	In -20 +15 F098M	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,+15; GS ACQ SCENARIO ONEB1OR	Sequence 13-15 Non-Int in GD153 G102 and G141 (53)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***
14	In -20 +15 F105W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID; NSAMP=1	POS TARG -20,+15	Sequence 13-15 Non-Int in GD153 G102 and G141 (53)	2.932291 Secs (2.932 Secs)	
								[==>]	***[1]***
15	In -20 +15 G102	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,+15	Sequence 13-15 Non-Int in GD153 G102 and G141 (53)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
16	In -20 -15 F098M	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,-15	Sequence 16-18 Non-Int in GD153 G102 and G141 (53)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***

	17	In -20 -15 F 105W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID POS TARG -20,-15 ; NSAMP=1	Sequence 16-18 Non-Int in GD153 G102 and G141 (53)	2.932291 Secs (2.932 Secs) [==>]	[1]
	18	In -20 -15 G 102	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS POS TARG -20,-15 25; NSAMP=5	Sequence 16-18 Non-Int in GD153 G102 and G141 (53)	102.934351 Secs (102.934 Secs) [==>]	[1]

Orbit Structure



Proposal 17968 - GD71 G102 and G141 (02) - WFC3 IR Grism Flux/Trace Calibration

Visit

Proposal 17968, GD71 G102 and G141 (02), completed Fri Mar 27 19:00:24 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ORIENT 135D TO 154 D; ORIENT 197D TO 225 D; ORIENT 280D TO 310 D; ORIENT 26D TO 30 D; ORIENT 43D TO 55 D; BETWEEN 03-NOV-2025:00:00:00 AND 31-DEC-2025:00:00:00

Comments: Visit targetting GD71

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	GD-71	RA: 05 52 27.6197 (88.1150821d)	Proper Motion RA: 76.841 mas/yr	V=13.06	Reference Frame: ICRS
		Dec: +15 53 13.23 (15.88701d)	Proper Motion Dec: -172.944 mas/yr		
		Equinox: J2000	Parallax: 0.019245"		
			Epoch of Position: 2000		

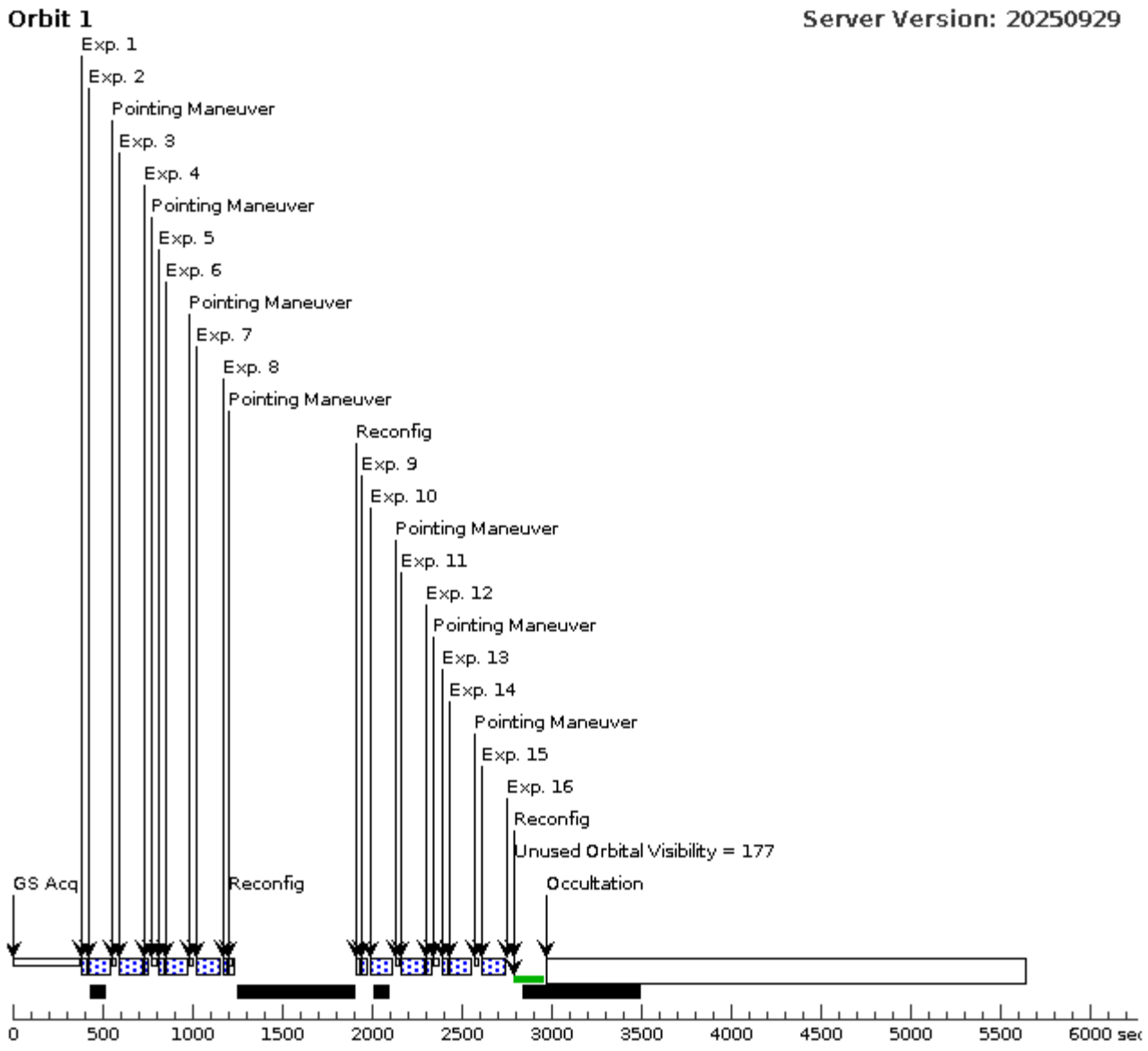
Comments: GD-71 is a primary HST flux standard that has been used in the past to calibrate the NICMOS and ACS grism modes, which provides us with the ability to cross-calibrate between instruments. GD-71 is specifically chosen for the WFC3 IR grism calibration because it will provide an aditional flux calibration target (GD-153 is used in SMOV for the IR grism calibration), so that the calibration is not based on a single target. An additional calibration target also minimizes the potential for problems from other nearby sources in the field.

The original flux monitor observed GD71 and GD153 at a range of detector positions but was reduced to a single orbit of GD153 based on the stability of the initial calibration. Using a longer time baseline, a decrease in sensitivity of ~0.1% per year has been measured, so GRW+70 was added (and GD71 resumed) to more accurately track these time-dependent losses.
Category=STAR
Description=[DA]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	In -20 -0 F0 98M	(2) GD-71	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,-0	Sequence 1-2 Non-Int in GD71 G102 and G141 (02)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***
2	In -20 -0 G102	(2) GD-71	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,-0	Sequence 1-2 Non-Int in GD71 G102 and G141 (02)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
3	In -20 +15 G102	(2) GD-71	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,+15	Sequence 3-4 Non-Int in GD71 G102 and G141 (02)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
4	In -20 +15 F098M	(2) GD-71	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,+15	Sequence 3-4 Non-Int in GD71 G102 and G141 (02)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***
5	In -20 -15 F098M	(2) GD-71	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,-15	Sequence 5-6 Non-Int in GD71 G102 and G141 (02)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***
6	In -20 -15 G102	(2) GD-71	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,-15	Sequence 5-6 Non-Int in GD71 G102 and G141 (02)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
7	In -40 +0 G102	(2) GD-71	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -40,+0	Sequence 7-8 Non-Int in GD71 G102 and G141 (02)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
8	In -40 +0 F098M	(2) GD-71	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -40,+0	Sequence 7-8 Non-Int in GD71 G102 and G141 (02)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***
9	In -20 -0 F140W	(2) GD-71	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,-0	Sequence 9-10 Non-Int in GD71 G102 and G141 (02)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***
10	In -20 -0 G141	(2) GD-71	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,-0	Sequence 9-10 Non-Int in GD71 G102 and G141 (02)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
11	In -20 +15 G141	(2) GD-71	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,+15	Sequence 11-12 Non-Int in GD71 G102 and G141 (02)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
12	In -20 +15 F140W	(2) GD-71	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,+15	Sequence 11-12 Non-Int in GD71 G102 and G141 (02)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***
13	In -20 -15 F140W	(2) GD-71	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,-15	Sequence 13-14 Non-Int in GD71 G102 and G141 (02)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***
14	In -20 -15 G141	(2) GD-71	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,-15	Sequence 13-14 Non-Int in GD71 G102 and G141 (02)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
15	In -40 +0 G141	(2) GD-71	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -40,+0	Sequence 15-16 Non-Int in GD71 G102 and G141 (02)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
16	In -40 +0 F140W	(2) GD-71	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -40,+0	Sequence 15-16 Non-Int in GD71 G102 and G141 (02)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***

Orbit Structure



Proposal 17968 - GRW+70 G102 and G141 (03) - WFC3 IR Grism Flux/Trace Calibration

Visit

Proposal 17968, GRW+70 G102 and G141 (03), completed Fri Mar 27 19:00:24 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ORIENT 160D TO 315 D; ORIENT 340D TO 130 D; BETWEEN 03-NOV-2025:00:00:00 AND 31-DEC-2025:00:00:00

Comments: Visit targetting GRW+70

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	GRW+70D5824	RA: 13 38 50.4781 (204.7103254d)	Proper Motion RA: -402.093 mas/yr	V=12.773	Reference Frame: ICRS
	Alt Name1: HIP-66578	Dec: +70 17 7.64 (70.28546d)	Proper Motion Dec: -24.608 mas/yr	J = 13.25	
		Equinox: J2000	Parallax: 0.03771"		
			Epoch of Position: 2000		

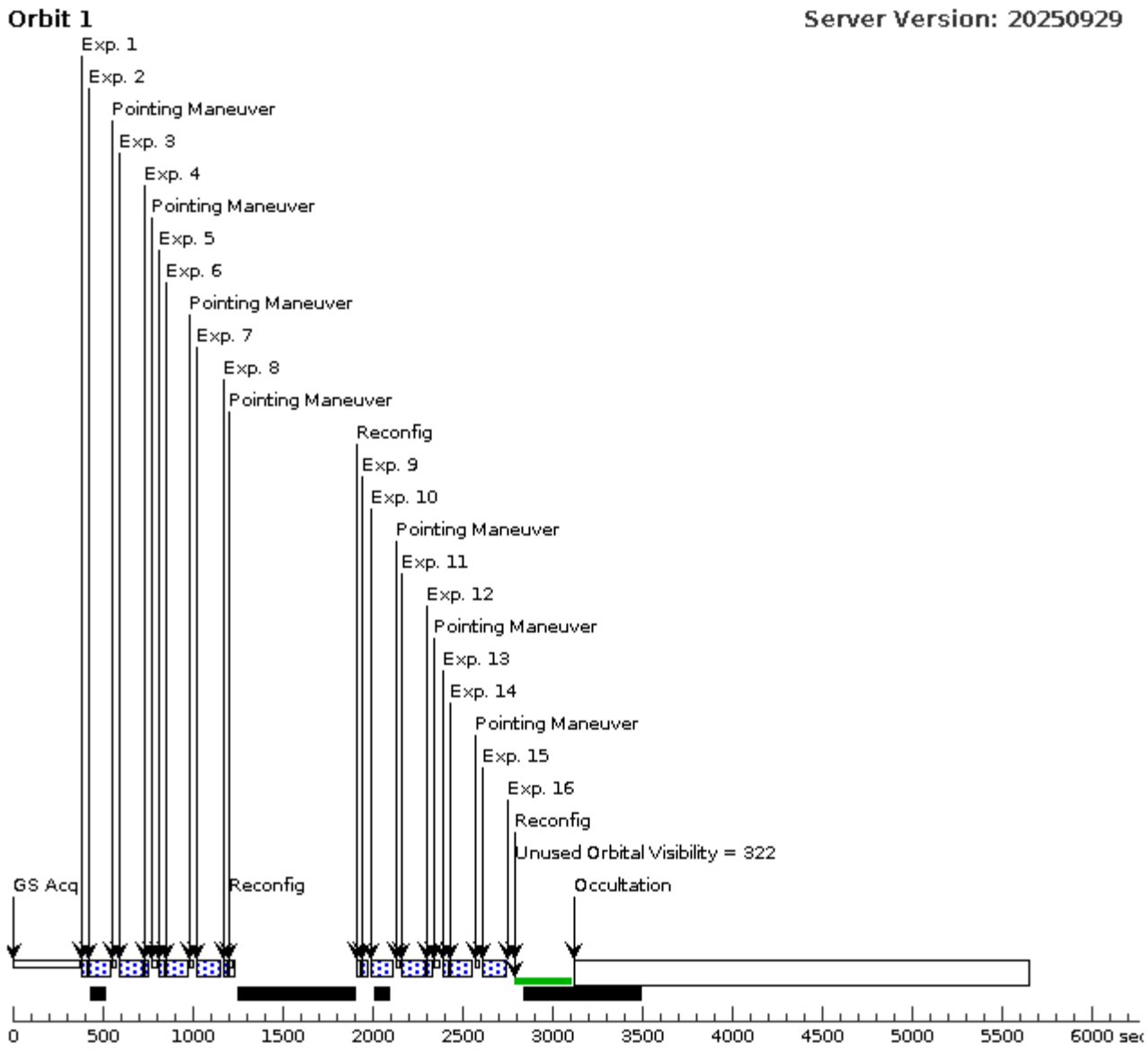
Comments: GRW+70 is specifically chosen for the WFC3 IR grism calibration because it will provide an aditional flux calibration target (GD-153 is used in SMOV for the IR grism calibration), so that the calibration is not based on a single target. An additional calibration target also minimizes the potential for problems from other nearby sources in the field.

The original flux monitor observed GD71 and GD153 at a range of detector positions but was reduced to a single orbit of GD153 based on the stability of the initial calibration. Using a longer time baseline, a decrease in sensitivity of ~0.1% per year has been measured, so GRW+70 was added (and GD71 resumed) to more accurately track these time-dependent losses.
Category=CALIBRATION
Description=[PHOTOMETRIC]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	In -20 -0 F098M	(3) GRW+70D5824	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,-0; GS ACQ SCENARIO BASE1O3	Sequence 1-2 Non-Int in GRW+70 G102 and G141 (03)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***
2	In -20 -0 G102	(3) GRW+70D5824	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,-0	Sequence 1-2 Non-Int in GRW+70 G102 and G141 (03)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
3	In -20 +15 G102	(3) GRW+70D5824	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,+15	Sequence 3-4 Non-Int in GRW+70 G102 and G141 (03)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
4	In -20 +15 F098M	(3) GRW+70D5824	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,+15	Sequence 3-4 Non-Int in GRW+70 G102 and G141 (03)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***
5	In -20 -15 F098M	(3) GRW+70D5824	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,-15	Sequence 5-6 Non-Int in GRW+70 G102 and G141 (03)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***
6	In -20 -15 G102	(3) GRW+70D5824	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,-15	Sequence 5-6 Non-Int in GRW+70 G102 and G141 (03)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
7	In -40 +0 G102	(3) GRW+70D5824	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -40,+0	Sequence 7-8 Non-Int in GRW+70 G102 and G141 (03)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
8	In -40 +0 F098M	(3) GRW+70D5824	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -40,+0	Sequence 7-8 Non-Int in GRW+70 G102 and G141 (03)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***
9	In -20 -0 F140W	(3) GRW+70D5824	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,-0	Sequence 9-10 Non-Int in GRW+70 G102 and G141 (03)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***
10	In -20 -0 G141	(3) GRW+70D5824	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,-0	Sequence 9-10 Non-Int in GRW+70 G102 and G141 (03)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
11	In -20 +15 G141	(3) GRW+70D5824	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,+15	Sequence 11-12 Non-Int in GRW+70 G102 and G141 (03)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
12	In -20 +15 F140W	(3) GRW+70D5824	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,+15	Sequence 11-12 Non-Int in GRW+70 G102 and G141 (03)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***
13	In -20 -15 F140W	(3) GRW+70D5824	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -20,-15	Sequence 13-14 Non-Int in GRW+70 G102 and G141 (03)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***
14	In -20 -15 G141	(3) GRW+70D5824	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -20,-15	Sequence 13-14 Non-Int in GRW+70 G102 and G141 (03)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
15	In -40 +0 G141	(3) GRW+70D5824	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS25; NSAMP=5	POS TARG -40,+0	Sequence 15-16 Non-Int in GRW+70 G102 and G141 (03)	102.934351 Secs (102.934 Secs)	
								[==>]	***[1]***
16	In -40 +0 F140W	(3) GRW+70D5824	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID; NSAMP=2	POS TARG -40,+0	Sequence 15-16 Non-Int in GRW+70 G102 and G141 (03)	5.864582 Secs (5.865 Secs)	
								[==>]	***[1]***

Orbit Structure



Visit

Proposal 17968, P330E G102 and G141 (04), failed Fri Mar 27 19:00:24 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: ORIENT 240D TO 260 D; BETWEEN 21-MAR-2026 AND 30-APR-2026

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	P330E	RA: 16 31 33.8124 (247.8908850d) Dec: +30 08 46.40 (30.14622d) Equinox: J2000	Proper Motion RA: -8.882 mas/yr Proper Motion Dec: -38.70500008815725 mas/yr Parallax: 0.0022149" Epoch of Position: 2000	V=12.917	Reference Frame: ICRS

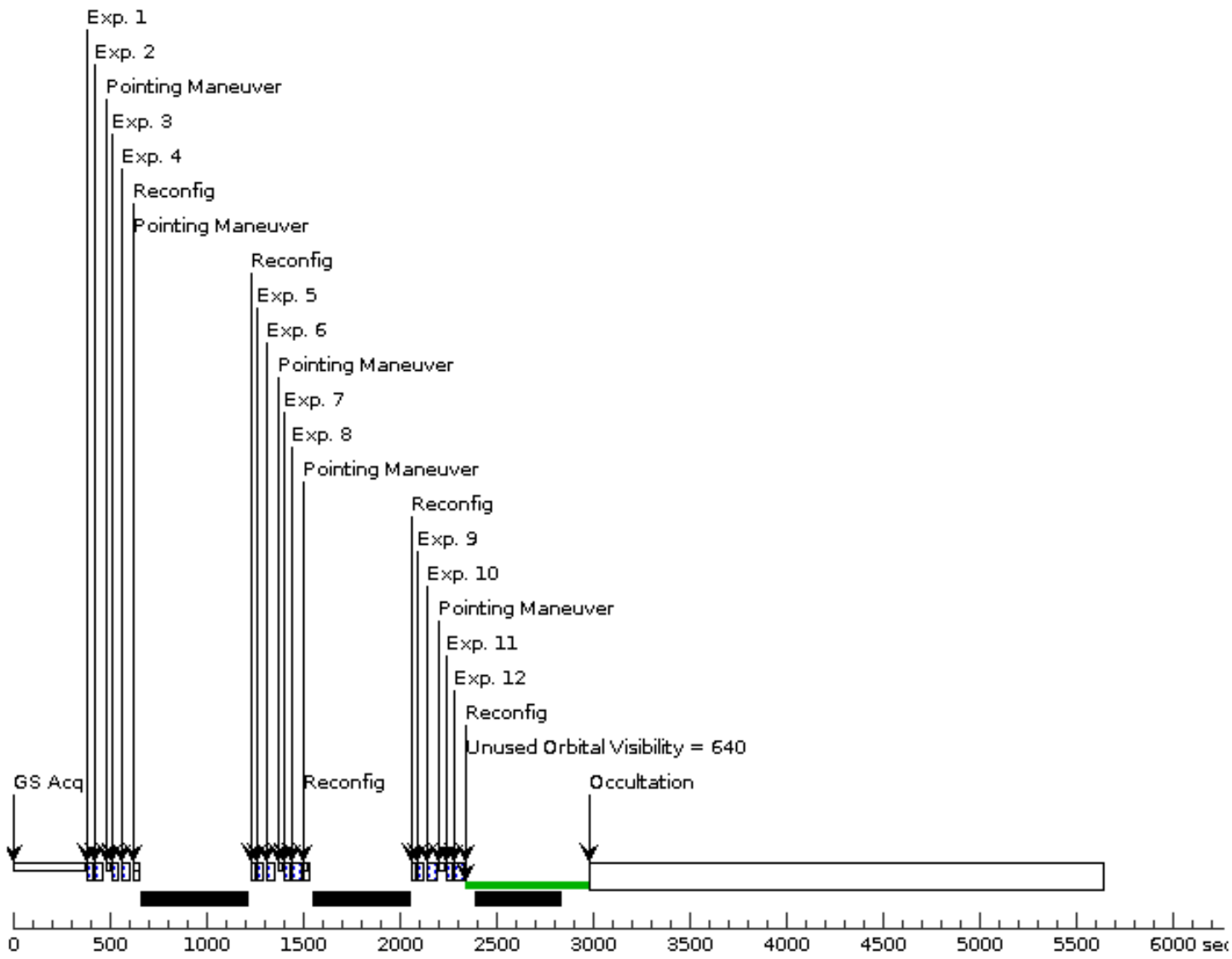
Comments: This object was generated by the target selector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=STAR
Description=[G V-IV]
Extended=NO

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	In -20 -0 F098M	(4) P330E	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=1; SAMP-SEQ=RAPID	POS TARG -20,-0	Sequence 1-2 Non-Int in P330E G102 and G141 (04)	2.932291 Secs (2.932 Secs) *[==>]*	***[1]***
2	In -20 0 G102	(4) P330E	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=RAPID; NSAMP=11	POS TARG -20,0	Sequence 1-2 Non-Int in P330E G102 and G141 (04)	32.255201 Secs (32.255 Secs) *[==>]*	***[1]***
3	In -20 +15 F098M	(4) P330E	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=1; SAMP-SEQ=RAPID	POS TARG -20,+15	Sequence 3-4 Non-Int in P330E G102 and G141 (04)	2.932291 Secs (2.932 Secs) *[==>]*	***[1]***
4	In -20 +15 G102	(4) P330E	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=RAPID; NSAMP=11	POS TARG -20,+15	Sequence 3-4 Non-Int in P330E G102 and G141 (04)	32.255201 Secs (32.255 Secs) *[==>]*	***[1]***
5	In -20 -15 F098M	(4) P330E	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=1; SAMP-SEQ=RAPID	POS TARG -20,-15	Sequence 5-6 Non-Int in P330E G102 and G141 (04)	2.932291 Secs (2.932 Secs) *[==>]*	***[1]***
6	In -20 -15 G102	(4) P330E	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=RAPID	POS TARG -20,-15	Sequence 5-6 Non-Int in P330E G102 and G141 (04)	32.255201 Secs (32.255 Secs) *[==>]*	***[1]***
7	In -20 -0 F153M	(4) P330E	WFC3/IR, MULTIACCUM, GRISM1024	F153M	NSAMP=1; SAMP-SEQ=RAPID	POS TARG -20,-0	Sequence 7-8 Non-Int in P330E G102 and G141 (04)	2.932291 Secs (2.932 Secs) *[==>]*	***[1]***
8	In -20 0 G141	(4) P330E	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=8; SAMP-SEQ=RAPID	POS TARG -20,0	Sequence 7-8 Non-Int in P330E G102 and G141 (04)	23.458328 Secs (23.458 Secs) *[==>]*	***[1]***
9	In -20 -15 F153M	(4) P330E	WFC3/IR, MULTIACCUM, GRISM1024	F153M	NSAMP=1; SAMP-SEQ=RAPID	POS TARG -20,-15	Sequence 9-10 Non-Int in P330E G102 and G141 (04)	2.932291 Secs (2.932 Secs) *[==>]*	***[1]***
10	In -20 -15 G141	(4) P330E	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=8; SAMP-SEQ=RAPID	POS TARG -20,-15	Sequence 9-10 Non-Int in P330E G102 and G141 (04)	23.458328 Secs (23.458 Secs) *[==>]*	***[1]***
11	In -20 +15 F153M	(4) P330E	WFC3/IR, MULTIACCUM, GRISM1024	F153M	NSAMP=1; SAMP-SEQ=RAPID	POS TARG -20,+15	Sequence 11-12 Non-Int in P330E G102 and G141 (04)	2.932291 Secs (2.932 Secs) *[==>]*	***[1]***
12	In -20 +15 G141	(4) P330E	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=8; SAMP-SEQ=RAPID	POS TARG -20,+15	Sequence 11-12 Non-Int in P330E G102 and G141 (04)	23.458328 Secs (23.458 Secs) *[==>]*	***[1]***

Orbit Structure



Visit

Proposal 17968, P330E G102 and G141 (05), implementation Fri Mar 27 19:00:24 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: ORIENT 240D TO 260 D; AFTER_04 BY 7 D TO 40 D

Diagnostics

(P330E G102 and G141 (05)) Warning (Orbit Planner): INVALID GS ACQ SCENARIO SPECIAL REQUIREMENT

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	P330E	RA: 16 31 33.8124 (247.8908850d) Dec: +30 08 46.40 (30.14622d) Equinox: J2000	Proper Motion RA: -8.882 mas/yr Proper Motion Dec: -38.70500008815725 mas/yr Parallax: 0.0022149" Epoch of Position: 2000	V=12.917	Reference Frame: ICRS

Comments: This object was generated by the target selector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.
Category=STAR
Description=[G V-IV]
Extended=NO

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	In -20 -0 F153M	(4) P330E	WFC3/IR, MULTIACCUM, GRISM1024	F153M	NSAMP=1; SAMP-SEQ=RAPID	POS TARG -20,-0; GS ACQ SCENARIO ONEB1OR	Sequence 1-2 Non-Int in P330E G102 and G141 (05)	2.932291 Secs (2.932 Secs) *[==>]*	*[1]*
2	In -20 0 G141	(4) P330E	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=8; SAMP-SEQ=RAPID	POS TARG -20,0	Sequence 1-2 Non-Int in P330E G102 and G141 (05)	23.458328 Secs (23.458 Secs) *[==>]*	*[1]*
3	In -20 -15 F153M	(4) P330E	WFC3/IR, MULTIACCUM, GRISM1024	F153M	NSAMP=1; SAMP-SEQ=RAPID	POS TARG -20,-15; GS ACQ SCENARIO ONEB1OR	Sequence 3-4 Non-Int in P330E G102 and G141 (05)	2.932291 Secs (2.932 Secs) *[==>]*	*[1]*
4	In -20 -15 G141	(4) P330E	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=8; SAMP-SEQ=RAPID	POS TARG -20,-15	Sequence 3-4 Non-Int in P330E G102 and G141 (05)	23.458328 Secs (23.458 Secs) *[==>]*	*[1]*
5	In -20 +15 F153M	(4) P330E	WFC3/IR, MULTIACCUM, GRISM1024	F153M	NSAMP=1; SAMP-SEQ=RAPID	POS TARG -20,+15; GS ACQ SCENARIO ONEB1OR	Sequence 5-6 Non-Int in P330E G102 and G141 (05)	2.932291 Secs (2.932 Secs) *[==>]*	*[1]*
6	In -20 +15 G141	(4) P330E	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=8; SAMP-SEQ=RAPID	POS TARG -20,+15	Sequence 5-6 Non-Int in P330E G102 and G141 (05)	23.458328 Secs (23.458 Secs) *[==>]*	*[1]*
7	In -20 -0 F098M	(4) P330E	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=1; SAMP-SEQ=RAPID	POS TARG -20,-0; GS ACQ SCENARIO ONEB1OR	Sequence 7-8 Non-Int in P330E G102 and G141 (05)	2.932291 Secs (2.932 Secs) *[==>]*	*[1]*
8	In -20 0 G102	(4) P330E	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=RAPID; NSAMP=11	POS TARG -20,0	Sequence 7-8 Non-Int in P330E G102 and G141 (05)	32.255201 Secs (32.255 Secs) *[==>]*	*[1]*
9	In -20 +15 F098M	(4) P330E	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=1; SAMP-SEQ=RAPID	POS TARG -20,+15; GS ACQ SCENARIO ONEB1OR	Sequence 9-10 Non-Int in P330E G102 and G141 (05)	2.932291 Secs (2.932 Secs) *[==>]*	*[1]*
10	In -20 +15 G102	(4) P330E	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=RAPID; NSAMP=11	POS TARG -20,+15	Sequence 9-10 Non-Int in P330E G102 and G141 (05)	32.255201 Secs (32.255 Secs) *[==>]*	*[1]*
11	In -20 -15 F098M	(4) P330E	WFC3/IR, MULTIACCUM, GRISM1024	F098M	NSAMP=1; SAMP-SEQ=RAPID	POS TARG -20,-15; GS ACQ SCENARIO ONEB1OR	Sequence 11-12 Non-Int in P330E G102 and G141 (05)	2.932291 Secs (2.932 Secs) *[==>]*	*[1]*
12	In -20 -15 G102	(4) P330E	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=11; SAMP-SEQ=RAPID	POS TARG -20,-15	Sequence 11-12 Non-Int in P330E G102 and G141 (05)	32.255201 Secs (32.255 Secs) *[==>]*	*[1]*

Orbit Structure