



14386 - WFC3 IR Grisms: Trace and Flux Calibration

Cycle: 23, Proposal Category: CAL/WFC3

(Availability Mode: RESTRICTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
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Dr. Gabriel Brammer (CoI) (ESA Member)	Space Telescope Science Institute - ESA	brammer@stsci.edu

VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) GD-153	WFC3/IR	2	10-Dec-2015 21:06:22.0	yes
02	(1) GD-153	WFC3/IR	2	10-Dec-2015 21:06:29.0	yes

4 Total Orbits Used

ABSTRACT

Observations of GD-153 to verify the dispersion solution of the G102 and G141 grisms. Observations are taken at the center of the field to verify the stability of these modes. New positions are added on the detector to better sample the spatial variation of the flux calibration. These new positions are meant to supplement observations of GD-153 taken during previous Cycles.

OBSERVING DESCRIPTION

Observations of GD-153 to verify the flux calibration of the G102 and G141 grisms. Observations are taken at the center of the field to verify the stability of these modes. New positions are added on the detector to better sample the spatial variation of the flux calibration. These new positions are meant to supplement observations of GD-153 taken during previous Cycles.

Offsets used are:

-20 0 (center)

-52 32

-52 16

+12 32

+12 16

-52 0

+12 0

-52 -32

-52 -16

+12 -32

+12 -16

-20 16

Proposal 14386 - Visit 01 - WFC3 IR Grisms: Trace and Flux Calibration

Visit	Proposal 14386, Visit 01, implementation Fri Dec 11 02:06:31 GMT 2015					
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	GD-153	RA: 12 57 2.3370 (194.2597375d) Dec: +22 01 52.68 (22.03130d) Equinox: J2000		V=13.4	Reference Frame: ICRS
<i>Comments: According to ISR WFC3-2011-05, GD-153 is used as the primary flux calibrator for the WFC3 IR grisms.</i>						

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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
Exposures	1	In Center F098M	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -20,0	Sequence 1-3 Non-Int in Visit 01	5.864582 Secs (5.865 Secs)	[1]
	2	In Center F105W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID ; NSAMP=1	POS TARG -20,0	Sequence 1-3 Non-Int in Visit 01	2.932291 Secs (2.932 Secs)	[1]
	3	In Center G102	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS ; NSAMP=5	POS TARG -20,025;	Sequence 1-3 Non-Int in Visit 01	102.934351 Secs (102.934 Secs)	[1]
	4	Upper Left F098M	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -52,32	Sequence 4-6 Non-Int in Visit 01	5.864582 Secs (5.865 Secs)	[1]
	5	Upper Left F105W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID ; NSAMP=1	POS TARG -52,32	Sequence 4-6 Non-Int in Visit 01	2.932291 Secs (2.932 Secs)	[1]
	6	Upper Left G102	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS ; NSAMP=5	POS TARG -52,3225;	Sequence 4-6 Non-Int in Visit 01	102.934351 Secs (102.934 Secs)	[1]
	7	Upper Left Inter F098M	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -52,16	Sequence 7-9 Non-Int in Visit 01	5.864582 Secs (5.865 Secs)	[1]
	8	Upper Left Inter F105W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID ; NSAMP=1	POS TARG -52,16	Sequence 7-9 Non-Int in Visit 01	2.932291 Secs (2.932 Secs)	[1]
	9	Upper Left Inter G102	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS ; NSAMP=5	POS TARG -52,1625;	Sequence 7-9 Non-Int in Visit 01	102.934351 Secs (102.934 Secs)	[1]
	10	Upper Right F098M	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG +12,32	Sequence 10-12 Non-Int in Visit 01	5.864582 Secs (5.865 Secs)	[1]
	11	Upper Right F105W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID ; NSAMP=1	POS TARG +12,32	Sequence 10-12 Non-Int in Visit 01	2.932291 Secs (2.932 Secs)	[1]
	12	Upper Right G102	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS ; NSAMP=5	POS TARG +12,3225;	Sequence 10-12 Non-Int in Visit 01	102.934351 Secs (102.934 Secs)	[1]
	13	Upper Right Inter F098M	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG +12,16	Sequence 13-15 Non-Int in Visit 01	5.864582 Secs (5.865 Secs)	[1]
	14	Upper Right Inter F105W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID ; NSAMP=1	POS TARG +12,16	Sequence 13-15 Non-Int in Visit 01	2.932291 Secs (2.932 Secs)	[1]
	15	Upper Right Inter G102	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS ; NSAMP=5	POS TARG +12,1625;	Sequence 13-15 Non-Int in Visit 01	102.934351 Secs (102.934 Secs)	[1]
	16	Left Center F098M	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -52,0	Sequence 16-18 Non-Int in Visit 01	5.864582 Secs (5.865 Secs)	[1]

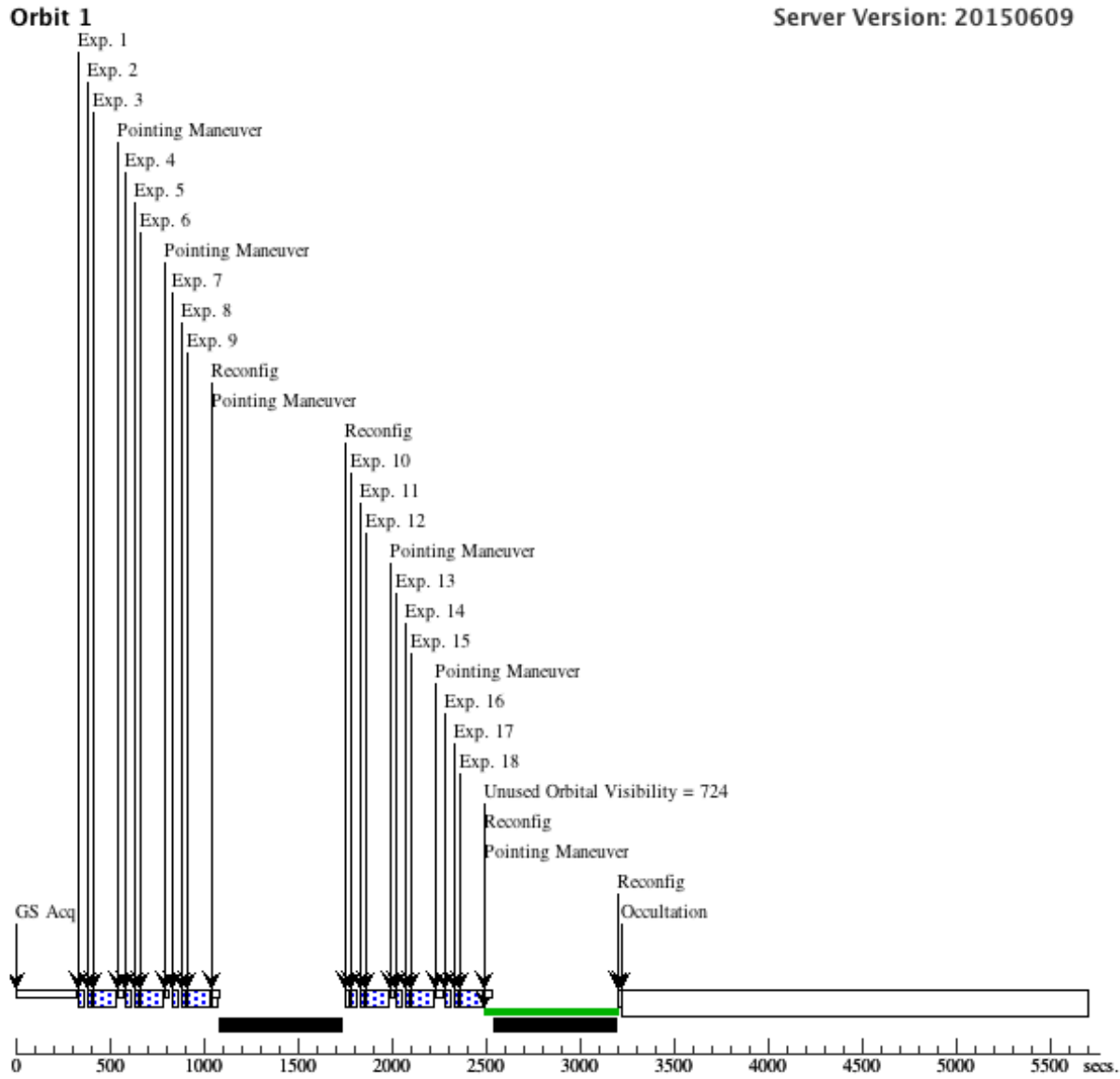
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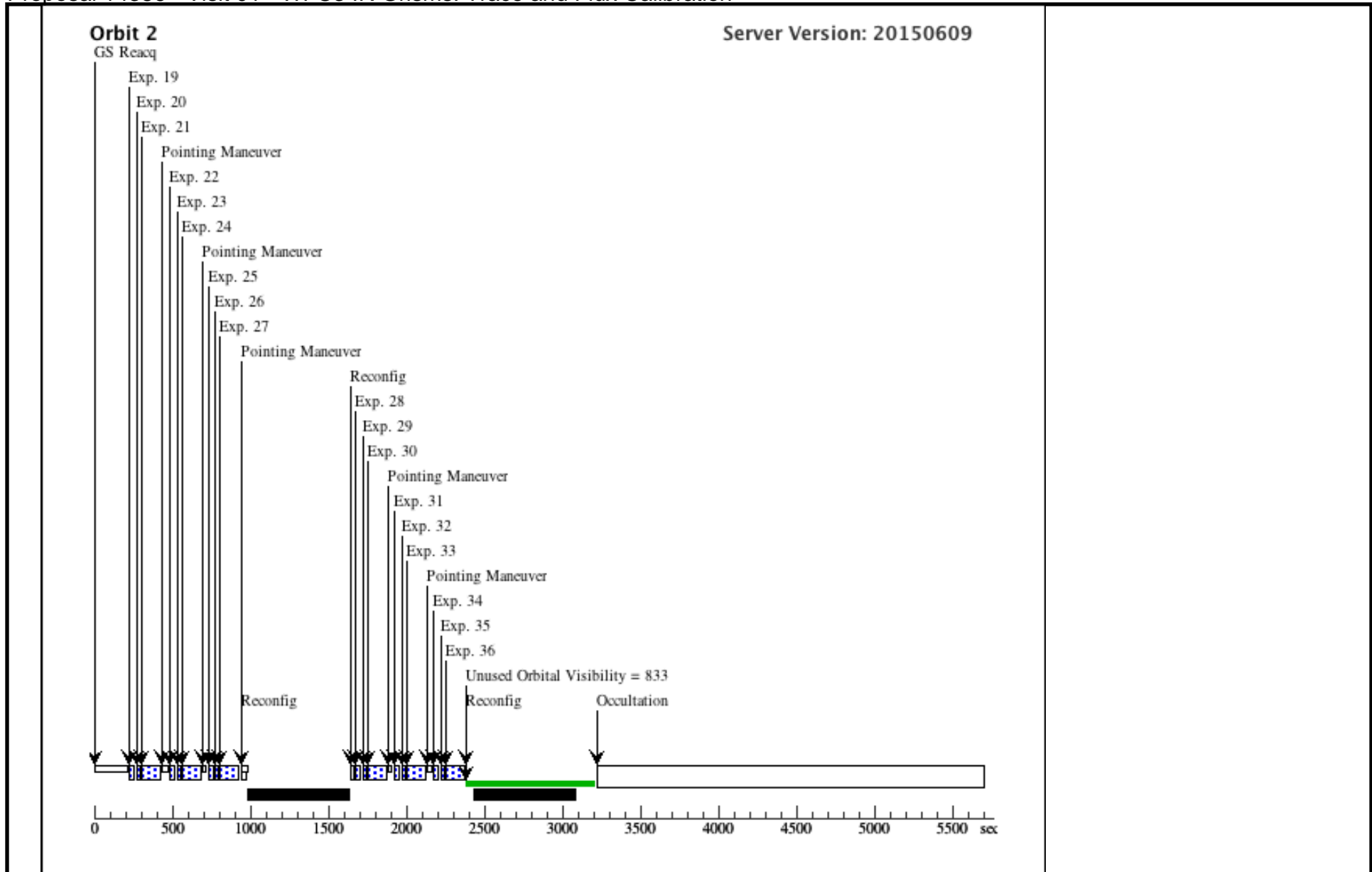
17	Left Center F105W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID POS TARG -52,0 ; NSAMP=1	Sequence 16-18 Non -Int in Visit 01	2.932291 Secs (2.932 Secs) [==>]	[1]
18	Left Center G102	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS POS TARG -52,0 25; NSAMP=5	Sequence 16-18 Non -Int in Visit 01	102.934351 Secs (102.934 Secs) [==>]	[1]
19	Right Center F098M	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID POS TARG 12,0 ; NSAMP=2	Sequence 19-21 Non -Int in Visit 01	5.864582 Secs (5.865 Secs) [==>]	[2]
20	Right Center F105W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID POS TARG 12,0 ; NSAMP=1	Sequence 19-21 Non -Int in Visit 01	2.932291 Secs (2.932 Secs) [==>]	[2]
21	Right Center G102	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS POS TARG 12,0 25; NSAMP=5	Sequence 19-21 Non -Int in Visit 01	102.934351 Secs (102.934 Secs) [==>]	[2]
22	Bottom Left F098M	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID POS TARG -52,-32 ; NSAMP=2	Sequence 22-24 Non -Int in Visit 01	5.864582 Secs (5.865 Secs) [==>]	[2]
23	Bottom Left F105W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID POS TARG -52,-32 ; NSAMP=1	Sequence 22-24 Non -Int in Visit 01	2.932291 Secs (2.932 Secs) [==>]	[2]
24	Bottom Left G102	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS POS TARG -52,-32 25; NSAMP=5	Sequence 22-24 Non -Int in Visit 01	102.934351 Secs (102.934 Secs) [==>]	[2]
25	Bottom Left Inter F098M	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID POS TARG -52,-16 ; NSAMP=2	Sequence 25-27 Non -Int in Visit 01	5.864582 Secs (5.865 Secs) [==>]	[2]
26	Bottom Left Inter F105W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID POS TARG -52,-16 ; NSAMP=1	Sequence 25-27 Non -Int in Visit 01	2.932291 Secs (2.932 Secs) [==>]	[2]
27	Bottom Left Inter G102	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS POS TARG -52,-16 25; NSAMP=5	Sequence 25-27 Non -Int in Visit 01	102.934351 Secs (102.934 Secs) [==>]	[2]
28	Bottom Right F098M	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID POS TARG 12,-32 ; NSAMP=2	Sequence 28-30 Non -Int in Visit 01	5.864582 Secs (5.865 Secs) [==>]	[2]
29	Bottom Right F105W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID POS TARG 12,-32 ; NSAMP=1	Sequence 28-30 Non -Int in Visit 01	2.932291 Secs (2.932 Secs) [==>]	[2]
30	Bottom Right G102	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS POS TARG 12,-32 25; NSAMP=5	Sequence 28-30 Non -Int in Visit 01	102.934351 Secs (102.934 Secs) [==>]	[2]
31	Bottom Right Inter F098M	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID POS TARG 12,-16 ; NSAMP=2	Sequence 31-33 Non -Int in Visit 01	5.864582 Secs (5.865 Secs) [==>]	[2]
32	Bottom Right Inter F105W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID POS TARG 12,-16 ; NSAMP=1	Sequence 31-33 Non -Int in Visit 01	2.932291 Secs (2.932 Secs) [==>]	[2]

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33	Bottom Right Inter G102	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS POS TARG 12,-16 25; NSAMP=5	Sequence 31-33 Non-Int in Visit 01	102.934351 Secs (102.934 Secs)	
							[==>]	[2]
34	Center Inter Upper F098 M	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID POS TARG -20,16 ; NSAMP=2	Sequence 34-36 Non-Int in Visit 01	5.864582 Secs (5.865 Secs)	
							[==>]	[2]
35	Center Inner Upper F105 W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID POS TARG -20,16 ; NSAMP=1	Sequence 34-36 Non-Int in Visit 01	2.932291 Secs (2.932 Secs)	
							[==>]	[2]
36	Center Inner Upper G102	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS POS TARG -20,16 25; NSAMP=5	Sequence 34-36 Non-Int in Visit 01	102.934351 Secs (102.934 Secs)	
							[==>]	[2]

Orbit Structure





Proposal 14386 - Visit 02 - WFC3 IR Grisms: Trace and Flux Calibration

Visit	Proposal 14386, Visit 02, implementation Fri Dec 11 02:06:31 GMT 2015 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(1)		GD-153	RA: 12 57 2.3370 (194.2597375d) Dec: +22 01 52.68 (22.03130d) Equinox: J2000		V=13.4	Reference Frame: ICRS
<i>Comments: According to ISR WFC3-2011-05, GD-153 is used as the primary flux calibrator for the WFC3 IR grisms.</i>						

Proposal 14386 - Visit 02 - WFC3 IR Grisms: Trace and Flux Calibration

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	In Center F160W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -20,0	Sequence 1-3 Non-Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[1]
	2	In Center F140W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -20,0	Sequence 1-3 Non-Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[1]
	3	In Center G141	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS 25 ; NSAMP=5	POS TARG -20,0	Sequence 1-3 Non-Int in Visit 02	102.934351 Secs (102.934 Secs) [==>]	[1]
	4	Upper Left F160W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -52,32	Sequence 4-6 Non-Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[1]
	5	Upper Left F140W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -52,32	Sequence 4-6 Non-Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[1]
	6	Upper Left G141	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS 25 ; NSAMP=5	POS TARG -52,32	Sequence 4-6 Non-Int in Visit 02	102.934351 Secs (102.934 Secs) [==>]	[1]
	7	Upper Left Inner F160W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -52,16	Sequence 7-9 Non-Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[1]
	8	Upper Left Inner F140W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -52,16	Sequence 7-9 Non-Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[1]
	9	Upper Left Inner G141	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS 25 ; NSAMP=5	POS TARG -52,16	Sequence 7-9 Non-Int in Visit 02	102.934351 Secs (102.934 Secs) [==>]	[1]
	10	Upper Right F098M	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG +12,32	Sequence 10-12 Non-Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[1]
	11	Upper Right F140W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG +12,32	Sequence 10-12 Non-Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[1]
	12	Upper Right G141	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS 25 ; NSAMP=5	POS TARG +12,32	Sequence 10-12 Non-Int in Visit 02	102.934351 Secs (102.934 Secs) [==>]	[1]
	13	Upper Right Inner F160W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG +12,16	Sequence 13-15 Non-Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[1]
	14	Upper Right Inner F140W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG +12,16	Sequence 13-15 Non-Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[1]
	15	Upper Right Inner G141	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS 25 ; NSAMP=5	POS TARG +12,16	Sequence 13-15 Non-Int in Visit 02	102.934351 Secs (102.934 Secs) [==>]	[1]
16	Left Center F160W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -52,0	Sequence 16-18 Non-Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[1]	

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17	Left Center F140W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID POS TARG -52,0 ; NSAMP=2	Sequence 16-18 Non -Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[1]
18	Left Center G141	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS POS TARG -52,0 25; NSAMP=5	Sequence 16-18 Non -Int in Visit 02	102.934351 Secs (102.934 Secs) [==>]	[1]
19	Right Center F160W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID POS TARG 12,0 ; NSAMP=2	Sequence 19-21 Non -Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[2]
20	Right Center F140W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID POS TARG 12,0 ; NSAMP=2	Sequence 19-21 Non -Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[2]
21	Right Center G141	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS POS TARG 12,0 25; NSAMP=5	Sequence 19-21 Non -Int in Visit 02	102.934351 Secs (102.934 Secs) [==>]	[2]
22	Bottom Left F160W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID POS TARG -52,-32 ; NSAMP=2	Sequence 22-24 Non -Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[2]
23	Bottom Left F140W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID POS TARG -52,-32 ; NSAMP=2	Sequence 22-24 Non -Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[2]
24	Bottom Left G141	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS POS TARG -52,-32 25; NSAMP=5	Sequence 22-24 Non -Int in Visit 02	102.934351 Secs (102.934 Secs) [==>]	[2]
25	Bottom Left Inter F160W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID POS TARG -52,-16 ; NSAMP=2	Sequence 25-27 Non -Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[2]
26	Bottom Left Inter F140W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID POS TARG -52,-16 ; NSAMP=2	Sequence 25-27 Non -Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[2]
27	Bottom Left Inter G141	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS POS TARG -52,-16 25; NSAMP=5	Sequence 25-27 Non -Int in Visit 02	102.934351 Secs (102.934 Secs) [==>]	[2]
28	Bottom Right F160W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID POS TARG 12,-32 ; NSAMP=2	Sequence 28-30 Non -Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[2]
29	Bottom Right F140W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID POS TARG 12,-32 ; NSAMP=2	Sequence 28-30 Non -Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[2]
30	Bottom Right G141	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS POS TARG 12,-32 25; NSAMP=5	Sequence 28-30 Non -Int in Visit 02	102.934351 Secs (102.934 Secs) [==>]	[2]
31	Bottom Right Inter F160 W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID POS TARG 12,-16 ; NSAMP=2	Sequence 31-33 Non -Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[2]
32	Bottom Right Inter F140 W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID POS TARG 12,-16 ; NSAMP=2	Sequence 31-33 Non -Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[2]

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33	Bottom Right Inter G141	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS POS TARG 12,-16 25; NSAMP=5	Sequence 31-33 Non-Int in Visit 02	102.934351 Secs (102.934 Secs) [==>]	[2]
34	Center Inner Upper F160 W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID POS TARG -20,16 ; NSAMP=2	Sequence 34-36 Non-Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[2]
35	Center Inner Upper F140 W	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID POS TARG -20,16 ; NSAMP=2	Sequence 34-36 Non-Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[2]
36	Center Inner Upper G141	(1) GD-153	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS POS TARG -20,16 25; NSAMP=5	Sequence 34-36 Non-Int in Visit 02	102.934351 Secs (102.934 Secs) [==>]	[2]

Orbit Structure

