



## 14543 - WFC3 IR grisms wavelength calibration stability and calibration

Cycle: 24, Proposal Category: CAL/WFC3

(Availability Mode: RESTRICTED)

### INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
<b>Dr. Norbert Pirzkal (PI) (Contact)</b>	<b>Space Telescope Science Institute</b>	<b>npirzkal@stsci.edu</b>

### 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) VY2-2	WFC3/IR	2	09-Nov-2016 11:16:39.0	yes
02	(1) VY2-2	WFC3/IR	2	09-Nov-2016 11:16:43.0	yes

4 Total Orbits Used

### ABSTRACT

Observations of VY2-2 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 wavelength dispersion solution. These new positions are meant to supplement observations of VY2-2 taken during previous Cycles.

### OBSERVING DESCRIPTION

Observations of VY2-2 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 wavelength dispersion solution. These new positions are meant to supplement observations of VY2-2 taken during previous Cycles.

Offsets used are:

-20 0

-48 28

-48 12

+8 28

+8 12

=48 0

8 0

-48 -28

-48 -12

8 -28

8 -12

-16 12

Proposal 14543 - Visit 01 - WFC3 IR grisms wavelength calibration stability and calibration

Wed Nov 09 16:16:45 GMT 2016

<b>Visit</b>	<b>Proposal 14543, Visit 01, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: (none)					
	<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>
	(1)	VY2-2 Alt Name1: PK045-02D1	RA: 19 24 22.2300 (291.0926250d) Dec: +09 53 56.66 (9.89907d) Equinox: J2000		V=13.8	Reference Frame: ICRS

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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) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -20,0; GS ACQ SCENARIO BASE1B3	Sequence 1-3 Non-Int in Visit 01	5.864582 Secs (5.865 Secs) [==>]	[1]
	2	In Center F105W	(1) VY2-2	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) VY2-2	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) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -48,28	Sequence 4-6 Non-Int in Visit 01	5.864582 Secs (5.865 Secs) [==>]	[1]
	5	Upper Left F105W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID ; NSAMP=1	POS TARG -48,28	Sequence 4-6 Non-Int in Visit 01	2.932291 Secs (2.932 Secs) [==>]	[1]
	6	Upper Left G102	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS ; NSAMP=5	POS TARG -48,2825;	Sequence 4-6 Non-Int in Visit 01	102.934351 Secs (102.934 Secs) [==>]	[1]
	7	Upper Left Inter F098M	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -48,12	Sequence 7-9 Non-Int in Visit 01	5.864582 Secs (5.865 Secs) [==>]	[1]
	8	Upper Left Inter F105W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID ; NSAMP=1	POS TARG -48,12	Sequence 7-9 Non-Int in Visit 01	2.932291 Secs (2.932 Secs) [==>]	[1]
	9	Upper Left Inter G102	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS ; NSAMP=5	POS TARG -48,1225;	Sequence 7-9 Non-Int in Visit 01	102.934351 Secs (102.934 Secs) [==>]	[1]
	10	Upper Right F098M	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG +8,28	Sequence 10-12 Non-Int in Visit 01	5.864582 Secs (5.865 Secs) [==>]	[1]
	11	Upper Right F105W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID ; NSAMP=1	POS TARG +8,28	Sequence 10-12 Non-Int in Visit 01	2.932291 Secs (2.932 Secs) [==>]	[1]
	12	Upper Right G102	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS ; NSAMP=5	POS TARG +8,2825;	Sequence 10-12 Non-Int in Visit 01	102.934351 Secs (102.934 Secs) [==>]	[1]
	13	Upper Right Inter F098M	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG +8,12	Sequence 13-15 Non-Int in Visit 01	5.864582 Secs (5.865 Secs) [==>]	[1]
	14	Upper Right Inter F105W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID ; NSAMP=1	POS TARG +8,12	Sequence 13-15 Non-Int in Visit 01	2.932291 Secs (2.932 Secs) [==>]	[1]
	15	Upper Right Inter G102	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS ; NSAMP=5	POS TARG +8,1225;	Sequence 13-15 Non-Int in Visit 01	102.934351 Secs (102.934 Secs) [==>]	[1]
	16	Left Center F098M	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -48,0	Sequence 16-18 Non-Int in Visit 01	5.864582 Secs (5.865 Secs) [==>]	[1]

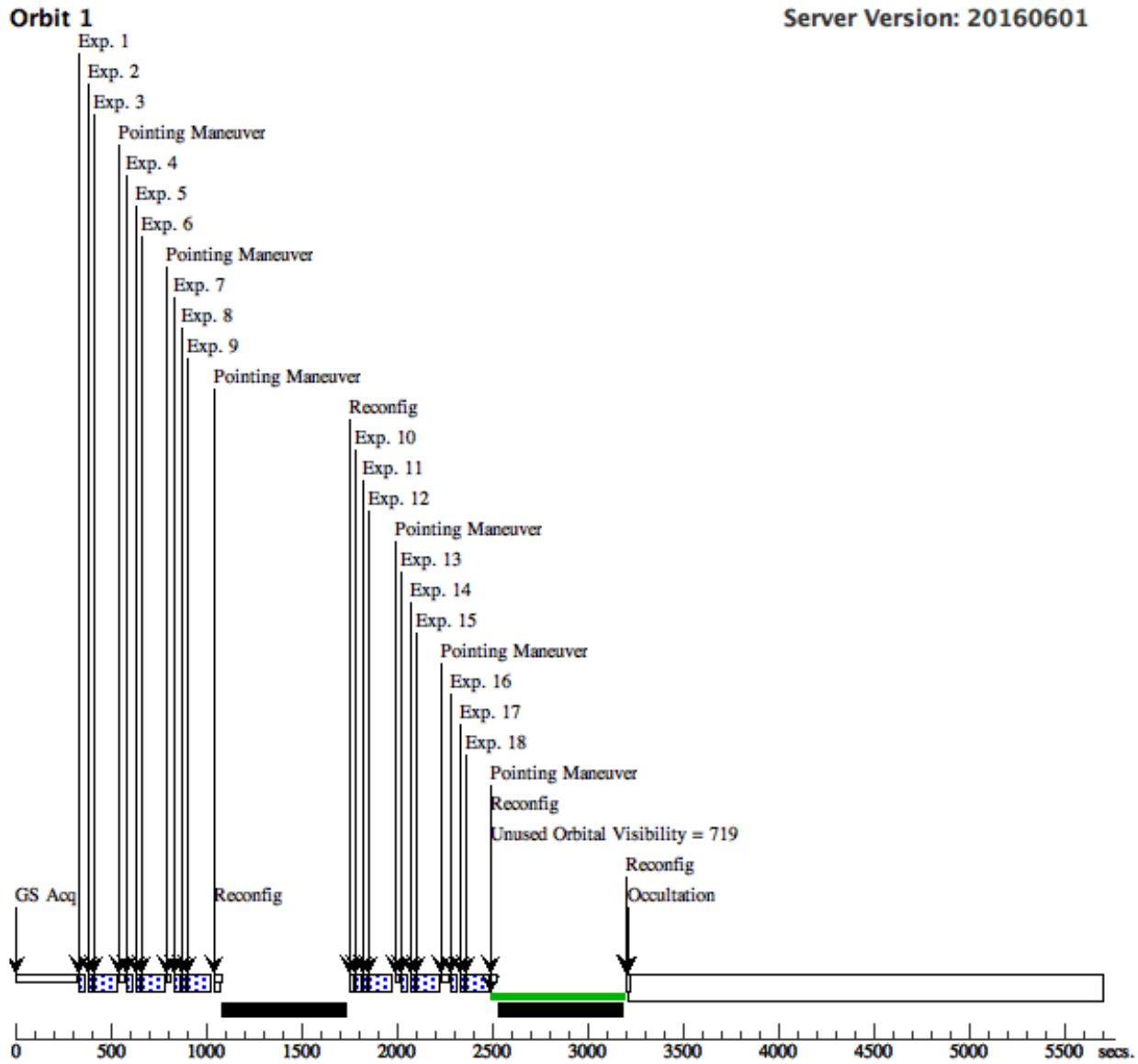
Proposal 14543 - Visit 01 - WFC3 IR grisms wavelength calibration stability and calibration

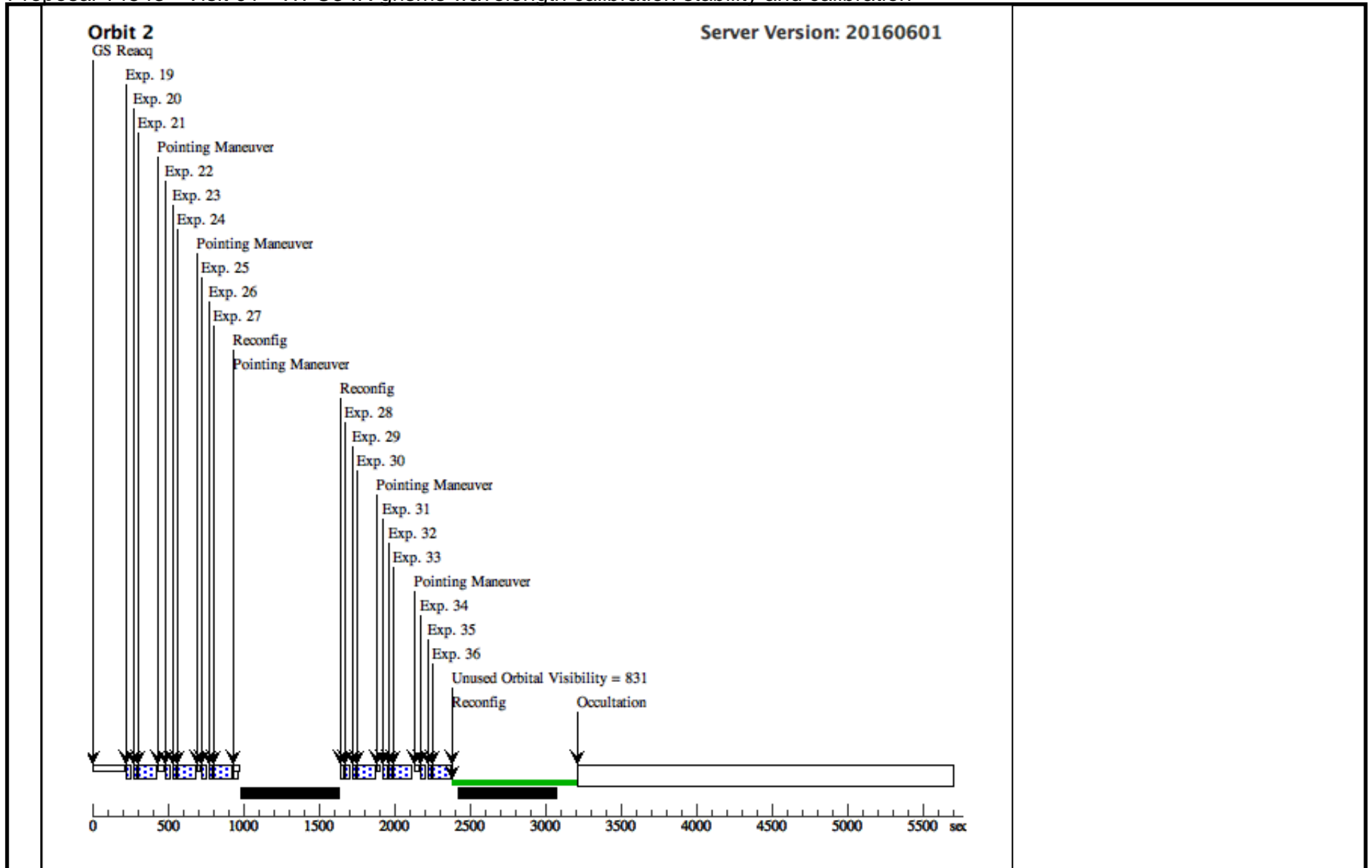
17	Left Center F105W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID POS TARG -48,0 ; NSAMP=1	Sequence 16-18 Non -Int in Visit 01	2.932291 Secs (2.932 Secs) [==>]	[1]
18	Left Center G102	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS POS TARG -48,0 25; NSAMP=5	Sequence 16-18 Non -Int in Visit 01	102.934351 Secs (102.934 Secs) [==>]	[1]
19	Right Center F098M	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID POS TARG 8,0 ; NSAMP=2	Sequence 19-21 Non -Int in Visit 01	5.864582 Secs (5.865 Secs) [==>]	[2]
20	Right Center F105W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID POS TARG 8,0 ; NSAMP=1	Sequence 19-21 Non -Int in Visit 01	2.932291 Secs (2.932 Secs) [==>]	[2]
21	Right Center G102	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS POS TARG 8,0 25; NSAMP=5	Sequence 19-21 Non -Int in Visit 01	102.934351 Secs (102.934 Secs) [==>]	[2]
22	Bottom Left F098M	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID POS TARG -48,-28 ; NSAMP=2	Sequence 22-24 Non -Int in Visit 01	5.864582 Secs (5.865 Secs) [==>]	[2]
23	Bottom Left F105W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID POS TARG -48,-28 ; NSAMP=1	Sequence 22-24 Non -Int in Visit 01	2.932291 Secs (2.932 Secs) [==>]	[2]
24	Bottom Left G102	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS POS TARG -48,-28 25; NSAMP=5	Sequence 22-24 Non -Int in Visit 01	102.934351 Secs (102.934 Secs) [==>]	[2]
25	Bottom Left Inter F098M	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID POS TARG -48,-12 ; NSAMP=2	Sequence 25-27 Non -Int in Visit 01	5.864582 Secs (5.865 Secs) [==>]	[2]
26	Bottom Left Inter F105W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID POS TARG -48,-12 ; NSAMP=1	Sequence 25-27 Non -Int in Visit 01	2.932291 Secs (2.932 Secs) [==>]	[2]
27	Bottom Left Inter G102	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS POS TARG -48,-12 25; NSAMP=5	Sequence 25-27 Non -Int in Visit 01	102.934351 Secs (102.934 Secs) [==>]	[2]
28	Bottom Right F098M	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID POS TARG 8,-28 ; NSAMP=2	Sequence 28-30 Non -Int in Visit 01	5.864582 Secs (5.865 Secs) [==>]	[2]
29	Bottom Right F105W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID POS TARG 8,-28 ; NSAMP=1	Sequence 28-30 Non -Int in Visit 01	2.932291 Secs (2.932 Secs) [==>]	[2]
30	Bottom Right G102	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS POS TARG 8,-28 25; NSAMP=5	Sequence 28-30 Non -Int in Visit 01	102.934351 Secs (102.934 Secs) [==>]	[2]
31	Bottom Right Inter F098M	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID POS TARG 8,-12 ; NSAMP=2	Sequence 31-33 Non -Int in Visit 01	5.864582 Secs (5.865 Secs) [==>]	[2]
32	Bottom Right Inter F105W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID POS TARG 8,-12 ; 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) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS POS TARG 8,-12 25; NSAMP=5	Sequence 31-33 Non-Int in Visit 01	102.934351 Secs (102.934 Secs)	
							[==>]	[2]
34	Center Inner Upper F098 M	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID POS TARG -16,12 ; NSAMP=2	Sequence 34-36 Non-Int in Visit 01	5.864582 Secs (5.865 Secs)	
							[==>]	[2]
35	Center Inner Upper F105 W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID POS TARG -16,12 ; NSAMP=1	Sequence 34-36 Non-Int in Visit 01	2.932291 Secs (2.932 Secs)	
							[==>]	[2]
36	Center Inner Upper G102	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS POS TARG -16,12 25; NSAMP=5	Sequence 34-36 Non-Int in Visit 01	102.934351 Secs (102.934 Secs)	
							[==>]	[2]

Orbit Structure







Proposal 14543 - Visit 02 - WFC3 IR grisms wavelength calibration stability and calibration

Wed Nov 09 16:16:45 GMT 2016

<b>Visit</b>	<b>Proposal 14543, Visit 02, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: (none)					
	<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>
	(1)	VY2-2 Alt Name1: PK045-02D1	RA: 19 24 22.2300 (291.0926250d) Dec: +09 53 56.66 (9.89907d) Equinox: J2000		V=13.8	Reference Frame: ICRS

Proposal 14543 - Visit 02 - WFC3 IR grisms wavelength calibration stability and 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) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -20,0; GS ACQ SCENARIO BASE1B3	Sequence 1-3 Non-Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[1]
	2	In Center F140W	(1) VY2-2	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) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS ; NSAMP=5	POS TARG -20,025;	Sequence 1-3 Non-Int in Visit 02	102.934351 Secs (102.934 Secs) [==>]	[1]
	4	Upper Left F160W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -48,28	Sequence 4-6 Non-Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[1]
	5	Upper Left F140W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -48,28	Sequence 4-6 Non-Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[1]
	6	Upper Left G141	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS ; NSAMP=5	POS TARG -48,2825;	Sequence 4-6 Non-Int in Visit 02	102.934351 Secs (102.934 Secs) [==>]	[1]
	7	Upper Left Inner F160W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -48,12	Sequence 7-9 Non-Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[1]
	8	Upper Left Inner F140W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -48,12	Sequence 7-9 Non-Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[1]
	9	Upper Left Inner G141	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS ; NSAMP=5	POS TARG -48,1225;	Sequence 7-9 Non-Int in Visit 02	102.934351 Secs (102.934 Secs) [==>]	[1]
	10	Upper Right F098M	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG +8,28	Sequence 10-12 Non-Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[1]
	11	Upper Right F140W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG +8,28	Sequence 10-12 Non-Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[1]
	12	Upper Right G141	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS ; NSAMP=5	POS TARG +8,2825;	Sequence 10-12 Non-Int in Visit 02	102.934351 Secs (102.934 Secs) [==>]	[1]
	13	Upper Right Inner F160W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG +8,12	Sequence 13-15 Non-Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[1]
	14	Upper Right Inner F140W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG +8,12	Sequence 13-15 Non-Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[1]
	15	Upper Right Inner G141	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS ; NSAMP=5	POS TARG +8,1225;	Sequence 13-15 Non-Int in Visit 02	102.934351 Secs (102.934 Secs) [==>]	[1]
16	Left Center F160W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -48,0	Sequence 16-18 Non-Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[1]	

Proposal 14543 - Visit 02 - WFC3 IR grisms wavelength calibration stability and calibration

17	Left Center F140W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID POS TARG -48,0 ; NSAMP=2	Sequence 16-18 Non -Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[1]
18	Left Center G141	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS POS TARG -48,0 25; NSAMP=5	Sequence 16-18 Non -Int in Visit 02	102.934351 Secs (102.934 Secs) [==>]	[1]
19	Right Center F160W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID POS TARG 8,0 ; NSAMP=2	Sequence 19-21 Non -Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[2]
20	Right Center F140W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID POS TARG 8,0 ; NSAMP=2	Sequence 19-21 Non -Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[2]
21	Right Center G141	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS POS TARG 8,0 25; NSAMP=5	Sequence 19-21 Non -Int in Visit 02	102.934351 Secs (102.934 Secs) [==>]	[2]
22	Bottom Left F160W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID POS TARG -48,-28 ; NSAMP=2	Sequence 22-24 Non -Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[2]
23	Bottom Left F140W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID POS TARG -48,-28 ; NSAMP=2	Sequence 22-24 Non -Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[2]
24	Bottom Left G141	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS POS TARG -48,-28 25; NSAMP=5	Sequence 22-24 Non -Int in Visit 02	102.934351 Secs (102.934 Secs) [==>]	[2]
25	Bottom Left Inter F160W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID POS TARG -48,-12 ; NSAMP=2	Sequence 25-27 Non -Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[2]
26	Bottom Left Inter F140W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID POS TARG -48,-12 ; NSAMP=2	Sequence 25-27 Non -Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[2]
27	Bottom Left Inter G141	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS POS TARG -48,-12 25; NSAMP=5	Sequence 25-27 Non -Int in Visit 02	102.934351 Secs (102.934 Secs) [==>]	[2]
28	Bottom Right F160W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID POS TARG 8,-28 ; NSAMP=2	Sequence 28-30 Non -Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[2]
29	Bottom Right F140W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID POS TARG 8,-28 ; NSAMP=2	Sequence 28-30 Non -Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[2]
30	Bottom Right G141	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS POS TARG 8,-28 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) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID POS TARG 8,-12 ; NSAMP=2	Sequence 31-33 Non -Int in Visit 02	5.864582 Secs (5.865 Secs) [==>]	[2]
32	Bottom Right Inter F140 W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID POS TARG 8,-12 ; 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) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS POS TARG 8,-12 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) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID POS TARG -16,12 ; NSAMP=2	Sequence 34-36 Non-Int in Visit 02	5.864582 Secs (5.865 Secs)	
							[==>]	[2]
35	Center Inner Upper F140 W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID POS TARG -16,12 ; NSAMP=2	Sequence 34-36 Non-Int in Visit 02	5.864582 Secs (5.865 Secs)	
							[==>]	[2]
36	Center Inner Upper G141	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS POS TARG -16,12 25; NSAMP=5	Sequence 34-36 Non-Int in Visit 02	102.934351 Secs (102.934 Secs)	
							[==>]	[2]

