



16582 - WFC3 IR Grism Wavelength Calibration

Cycle: 29, Proposal Category: CAL/WFC3

(Availability Mode: RESTRICTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Debopam Som (PI) (Contact)	Space Telescope Science Institute	dsom@stsci.edu
Dr. Nikolay Nikolov (CoI) (Contact)	Space Telescope Science Institute	nnikolov@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) VY2-2	WFC3/IR	1	30-Jun-2021 11:00:51.0	yes

1 Total Orbits Used

ABSTRACT

This program will observe PN VY2-2 near the center of the field (-20, 0) and at additional positions using the WFC3 IR G102 and G141 grisms. The data will be used to calculate wavelength solutions for the grisms, and will be compared with those derived from previous programs:

16407

15727

15586

14993

14543

14385

14023

13582

13580

13093

12703

12356

to monitor for potential time evolution of the calibration.

OBSERVING DESCRIPTION

Observations of wavelength calibrator VY2-2. Observations taken at the center of the field $(-20, 0)$ as well as with postargs of $(-30,+30)$ and $(-30,-30)$ in F098M, F105W, F140W, F160W, G102 and G141

Proposal 16582 - G102 and G141 (01) - WFC3 IR Grism Wavelength Calibration

Visit	Proposal 16582, G102 and G141 (01) Wed Jun 30 15:00:52 GMT 2021 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: BETWEEN 01-APR-2022:00:00:00 AND 01-JUL-2022:00:00:00					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(1)		VY2-2 Alt Name1: PK045-02D1	RA: 19 24 22.2390 (291.0926625d) Dec: +09 53 56.26 (9.89896d) Equinox: J2000	Proper Motion RA: -20.263 mas/yr Proper Motion Dec: -6.921 mas/yr Epoch of Position: 2000	V=13.8	Reference Frame: ICRS
Comments: Category=STAR Description=[PLANETARY NEBULA CENTRAL STAR]						

Proposal 16582 - G102 and G141 (01) - WFC3 IR Grism Wavelength Calibration

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	In Center F0 98M	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -20,0	Sequence 1-3 Non-Int in G102 and G141 (01)	5.864582 Secs (5.865 Secs) [==>]	[1]
	2	In Center F1 05W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID ; NSAMP=1	POS TARG -20,0	Sequence 1-3 Non-Int in G102 and G141 (01)	2.932291 Secs (2.932 Secs) [==>]	[1]
	3	In Center G 102	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS 25; NSAMP=5	POS TARG -20,0	Sequence 1-3 Non-Int in G102 and G141 (01)	102.934351 Secs (102.934 Secs) [==>]	[1]
	4	In -30 +30 F 098M	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -30,+30	Sequence 4-6 Non-Int in G102 and G141 (01)	5.864582 Secs (5.865 Secs) [==>]	[1]
	5	In -30 +30 F 105W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID ; NSAMP=1	POS TARG -30,+30	Sequence 4-6 Non-Int in G102 and G141 (01)	2.932291 Secs (2.932 Secs) [==>]	[1]
	6	In -30 +30 G102	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS 25; NSAMP=5	POS TARG -30,+30	Sequence 4-6 Non-Int in G102 and G141 (01)	102.934351 Secs (102.934 Secs) [==>]	[1]
	7	In -30 -30 F 098M	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F098M	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -30,-30	Sequence 7-9 Non-Int in G102 and G141 (01)	5.864582 Secs (5.865 Secs) [==>]	[1]
	8	In -30 -30 F 105W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=RAPID ; NSAMP=1	POS TARG -30,-30	Sequence 7-9 Non-Int in G102 and G141 (01)	2.932291 Secs (2.932 Secs) [==>]	[1]
	9	In -30 -30 G 102	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS 25; NSAMP=5	POS TARG -30,-30	Sequence 7-9 Non-Int in G102 and G141 (01)	102.934351 Secs (102.934 Secs) [==>]	[1]
	10	In Center F1 60W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -20,0	Sequence 10-12 Non-Int in G102 and G141 (01)	5.864582 Secs (5.865 Secs) [==>]	[1]
	11	In Center F1 40W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID ; NSAMP=1	POS TARG -20,0	Sequence 10-12 Non-Int in G102 and G141 (01)	2.932291 Secs (2.932 Secs) [==>]	[1]
	12	In Center G 141	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS 25; NSAMP=5	POS TARG -20,0	Sequence 10-12 Non-Int in G102 and G141 (01)	102.934351 Secs (102.934 Secs) [==>]	[1]
	13	In -30 +30 F 160W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -30,+30	Sequence 13-15 Non-Int in G102 and G141 (01)	5.864582 Secs (5.865 Secs) [==>]	[1]
	14	In -30 +30 F 140W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID ; NSAMP=1	POS TARG -30,+30	Sequence 13-15 Non-Int in G102 and G141 (01)	2.932291 Secs (2.932 Secs) [==>]	[1]
	15	In -30 +30 G141	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS 25; NSAMP=5	POS TARG -30,+30	Sequence 13-15 Non-Int in G102 and G141 (01)	102.934351 Secs (102.934 Secs) [==>]	[1]
16	In -30 -30 F 160W	(1) VY2-2	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=RAPID ; NSAMP=2	POS TARG -30,-30	Sequence 16-18 Non-Int in G102 and G141 (01)	5.864582 Secs (5.865 Secs) [==>]	[1]	

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17	In -30 -30 F (1) VY2-2 140W	WFC3/IR, MULTIACCUM, GRISM1024	F140W	SAMP-SEQ=RAPID POS TARG -30,-30 ; NSAMP=1	Sequence 16-18 Non-Int in G102 and G141 (01)	2.932291 Secs (2.932 Secs) [==>]	[1]
18	In -30 -30 G (1) VY2-2 141	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS POS TARG -30,-30 25; NSAMP=5	Sequence 16-18 Non-Int in G102 and G141 (01)	102.934351 Secs (102.934 Secs) [==>]	[1]

