# 17365 - WFC3 UVIS Grism Wavelength Calibration

Cycle: 31, Proposal Category: CAL/WFC3

(Availability Mode: RESTRICTED)

**INVESTIGATORS**


| *Name* | *Institution* |
|---|---|
| **Amanda Pagul (PI) (Contact)** | **Space Telescope Science Institute** |
| Aidan J Pidgeon (CoI) (Contact) | Space Telescope Science Institute |
| Dr. Debopam Som (CoI) (Contact) | Space Telescope Science Institute |
| Benjamin Kuhn (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) WR14 | WFC3/UVIS | 1 | 20-Jul-2023 17:01:05.0 | yes |

1 Total Orbits Used

**ABSTRACT**


Observations of the wavelength calibrator WR-14. The target is placed near the center of each CHIP for continuing monitoring of calibration at these locations. The target is also placed at a previously observed position on CHIP2 to compare with previous wavelength solutions. The exposure times are 0.5s for the imaging, 2.5s for the G280 exposures.

Monitoring positions (POSTARGS) are:

[0 30] - CHIP 1

[0 -49] - CHIP 2

Additional position (POSTARGS) is:
[60 -49] - CHIP 2

**OBSERVING DESCRIPTION**

Calibrator is moved across the field of view and observed using F200LP, F300X, and G280

## Visit

**Proposal 17365, 60 -49 AMP D and 0 -49 AMP D and 0 30 AMP B (01)** Thu Jul 20 21:01:06 GMT 2023

**Diagnostic Status: Warning**

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 06-NOV-2023:00:00:00 AND 06-NOV-2024:00:00:00

## Diagnostics

(Chip 2 UC F200LP (01.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(Chip 2 UC F300X (01.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(Chip 2 UC G280 (01.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(Chip 2 UC F200LP (01.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(Chip 2 UC F300X (01.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(Chip 2 UC G280 (01.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(Chip 1 UC F200LP (01.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(Chip 1 UC F300X (01.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(Chip 1 UC G280 (01.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

## Patterns

| # | Primary Pattern | | Secondary Pattern | Exposures |
|---|---|---|---|---|
| (1) | Pattern Type=WFC3-UVIS-DITHER-LINE<br>Purpose=DITHER<br>Number Of Points=2<br>Point Spacing=0.145<br>Line Spacing= | Coordinate Frame=POS-TARG<br>Pattern Orientation=46.84<br>Angle Between Sides=<br>Center Pattern=false | | (3), (6), (9) |

## Fixed Targets

| # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
|---|---|---|---|---|---|
| (1) | WR14 | RA: 08 54 59.1671 (133.7465296d) | Proper Motion RA: -4.528 mas/yr | V=8.8 | Reference Frame: SIMBAD |
| | Alt Name1: HD76536 | Dec: -47 35 32.66 (-47.59241d) | Proper Motion Dec: 5.395 mas/yr | | |
| | | Equinox: J2000 | Epoch of Position: 2000 | | |

*Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.*
*Category=STAR*
*Description=[WOLF RAYET - WC]*

**Exposures**

| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Chip 2 UC F 200LP | (1) WR14 | WFC3/UVIS, ACCUM, G280-REF | F200LP | CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=TARGET; AMP=D | POS TARG 60,-49 | | 0.5 Secs (0.5 Secs)<br>*[==>]* | ***[1]*** |
| 2 | Chip 2 UC F 300X | (1) WR14 | WFC3/UVIS, ACCUM, G280-REF | F300X | CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=TARGET; AMP=D | POS TARG 60,-49 | | 0.5 Secs (0.5 Secs)<br>*[==>]* | ***[1]*** |
| 3 | Chip 2 UC G280 | (1) WR14 | WFC3/UVIS, ACCUM, UVIS | G280 | CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=TARGET; AMP=D | POS TARG 60,-49 | Pattern 1, Exps 3-3 in 60 -49 AMP D and 0 -49 AMP D and 0 30 AMP B (01) (1) | 2.5 Secs (5 Secs)<br>*[==>(Pattern 1)]*<br>*[==>(Pattern 2)]* | ***[1]*** |
| 4 | Chip 2 UC F 200LP | (1) WR14 | WFC3/UVIS, ACCUM, G280-REF | F200LP | CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=TARGET; AMP=D | POS TARG 0,-49 | | 0.5 Secs (0.5 Secs)<br>*[==>]* | ***[1]*** |
| 5 | Chip 2 UC F 300X | (1) WR14 | WFC3/UVIS, ACCUM, G280-REF | F300X | CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=TARGET; AMP=D | POS TARG 0,-49 | | 0.5 Secs (0.5 Secs)<br>*[==>]* | ***[1]*** |
| 6 | Chip 2 UC G280 | (1) WR14 | WFC3/UVIS, ACCUM, UVIS | G280 | CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=TARGET; AMP=D | POS TARG 0,-49 | Pattern 1, Exps 6-6 in 60 -49 AMP D and 0 -49 AMP D and 0 30 AMP B (01) (1) | 2.5 Secs (5 Secs)<br>*[==>(Pattern 1)]*<br>*[==>(Pattern 2)]* | ***[1]*** |
| 7 | Chip 1 UC F 200LP | (1) WR14 | WFC3/UVIS, ACCUM, G280-REF | F200LP | CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=TARGET; AMP=B | POS TARG 0,30 | | 0.5 Secs (0.5 Secs)<br>*[==>]* | ***[1]*** |
| 8 | Chip 1 UC F 300X | (1) WR14 | WFC3/UVIS, ACCUM, G280-REF | F300X | CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=TARGET; AMP=B | POS TARG 0,30 | | 0.5 Secs (0.5 Secs)<br>*[==>]* | ***[1]*** |
| 9 | Chip 1 UC G280 | (1) WR14 | WFC3/UVIS, ACCUM, UVIS | G280 | CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=TARGET; AMP=B | POS TARG 0,30 | Pattern 1, Exps 9-9 in 60 -49 AMP D and 0 -49 AMP D and 0 30 AMP B (01) (1) | 2.5 Secs (5 Secs)<br>*[==>(Pattern 1)]*<br>*[==>(Pattern 2)]* | ***[1]*** |

Orbit Structure