



15401 - ACS/WFC Grism

Cycle: 25, Proposal Category: CAL/ACS

(Calibration)

(Availability Mode: RESTRICTED)

INVESTIGATORS

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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 | (4) WRAY-15-1736 | ACS/WFC | 1 | 23-Oct-2017 18:20:53.0 | yes |

1 Total Orbits Used

ABSTRACT

The goal of this proposal is to observe an emission line star (WR96) with the ACS/WFC G800L grism to provide a check on trace and wavelength calibrations as a function of spatial position on the ACS detector.

OBSERVING DESCRIPTION

The goal of this proposal is to observe an emission line star (WR96) with the ACS/WFC G800L grism to provide a check on trace and wavelength calibrations as a function of spatial position on the ACS detector.

Proposal 15401 (STScI Edit Number: 0, Created: Monday, October 23, 2017 5:20:54 PM EST) - Overview

WR96 is a Wolf-Rayet star, which is a bright ($V \sim 14$ mag) point source with strong emission lines. These features make this star an ideal candidate for wavelength calibration of ACS grism. We will observe WR96 for 20 secs (G800L) and 1 sec (F775W) at 3 different positions on the ACS detector (2 chip centers and 1 additional position on chip1). In addition to F775W direct imaging, we will also use F625W (1sec) at one position to check the image position stability against the selected filters. The WFC1 aperture at the center of chip1 will allow us to compare these new observations with the existing observations of the same star at the same position. The full detector readout for two apertures (WFC1 and WFC2) at chip centers will allow us to observe other stars/compact objects in the ACS field of view, which will be important to perform a check on trace calibration.

Proposal 15401 - Visit 01 - ACS/WFC Grism

Mon Oct 23 22:20:54 GMT 2017

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|--------------|---|--|--|--|
| Visit | Proposal 15401, Visit 01, implementation | | | |
| | Diagnostic Status: No Diagnostics | | | |
| | Scientific Instruments: ACS/WFC | | | |
| | Special Requirements: (none) | | | |

| | | | | | | |
|--|----------|---------------------------------|--|---------------------------------|---------------|-------------------------|
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
| | (4) | WRAY-15-1736 Alt Name1: WR96 | RA: 17 36 24.4530 (264.1018875d) Dec: -32 54 31.45 (-32.90874d) Equinox: J2000 | | V=14.14 | Reference Frame: SIMBAD |
| <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> | | | | | | |

| | | | | | | | | | | |
|------------------|----------|--------------|------------------|-----------------------------|----------------------|---------------------|----------------------|---------------|--|--------------|
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | | (4) WRAY-15-1736 | ACS/WFC, ACCUM, WFC1A-2K | F775W | | | | 1 Secs (1 Secs) [==>] | [1] |
| | 2 | | (4) WRAY-15-1736 | ACS/WFC, ACCUM, WFC1A-2K | G800L | AUTOIMAGE=NO | | | 20 Secs (20 Secs) [==>] | [1] |
| | 3 | | (4) WRAY-15-1736 | ACS/WFC, ACCUM, WFC1A-2K | F625W | | | | 1 Secs (1 Secs) [==>] | [1] |
| | 4 | | (4) WRAY-15-1736 | ACS/WFC, ACCUM, WFC1 | F775W | | | | 1 Secs (1 Secs) [==>] | [1] |
| | 5 | | (4) WRAY-15-1736 | ACS/WFC, ACCUM, WFC1 | G800L | AUTOIMAGE=NO | | | 20 Secs (20 Secs) [==>] | [1] |
| | 6 | | (4) WRAY-15-1736 | ACS/WFC, ACCUM, WFC2 | F775W | | | | 1 Secs (1 Secs) [==>] | [1] |
| | 7 | | (4) WRAY-15-1736 | ACS/WFC, ACCUM, WFC2 | G800L | AUTOIMAGE=NO | | | 20 Secs (20 Secs) [==>] | [1] |

