**13214 - WFC3 SS UVIS Image Quality**

Cycle: 27, Proposal Category: CAL/WFC3
( Availability Mode: RESTRICTED)

**ABSTRACT**
Part of side switch activities.
The UVIS imaging performance over field will be assessed in two passbands to verify PSF encircled energy CEI specifications and other performance metrics at 250 and 633 nm.

**ID: WF23**

**OBSERVING DESCRIPTION**
Part of side switch activities.

### INVESTIGATORS

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>E-Mail</th>
</tr>
</thead>
<tbody>
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<td>Space Telescope Science Institute</td>
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### VISITS

<table>
<thead>
<tr>
<th>Visit</th>
<th>Targets used in Visit</th>
<th>Configurations used in Visit</th>
<th>Orbits Used</th>
<th>Last Orbit Planner Run</th>
<th>OP Current with Visit?</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>(1) NGC188-58</td>
<td>WFC3/UVIS</td>
<td>3</td>
<td>17-Oct-2019 14:06:57.0</td>
<td>yes</td>
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3 Total Orbits Used
The UVIS imaging performance over field will be assessed in two passbands to verify PSF encircled energy CEI specifications at 250 and 633 nm. The observed field must be sufficiently dense to provide good sampling over the FOV while providing enough isolated stars to permit accurate PSF measurement. If the field is astrometric and astrometric guide stars are used, the plate scale and image orientation may also be determined. NGC-188 star 58 is a likely target, available year-round and used previously for ACS alignment. The F275W and F621M filters will be used. Full frame images will be obtained at each of 4 POS-TARG offset positions designed to improve sampling over the field.

----- Calibration Justification ------

The image quality of UVIS science data are assessed fully for the first time and at the CEI spec wavelengths.
### Visit 01 - WFC3 SS UVIS Image Quality

**Proposal 13214, Visit 01, implementation**

**Diagnostic Status:** Warning

**Scientific Instruments:** WFC3/UVIS

**Special Requirements:** SCHED 100%

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#### Diagnostics

(Visit 01) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Visit 01) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Visit 01) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Exposure 1 (Visit 01)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(Exposure 2 (Visit 01)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(Exposure 3 (Visit 01)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(Exposure 4 (Visit 01)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(Exposure 5 (Visit 01)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(Exposure 6 (Visit 01)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(Exposure 7 (Visit 01)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(Exposure 8 (Visit 01)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

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#### Fixed Targets

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<th>#</th>
<th>Name</th>
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<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
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<td>Proper Motion RA: -0.00257 sec of time/yr</td>
<td>V=14.65+/-0.05</td>
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<td></td>
<td></td>
<td>Dec: +85 16 32.70 (85.27575d)</td>
<td>Proper Motion Dec: -0.0112 arcsec/yr</td>
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<tr>
<td></td>
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<td>Equinox: J2000</td>
<td>Parallax: 0.0&quot;</td>
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**Comments:** Use guide stars from the NGC188 Astrometric Catalog (Plate-ID ZZZZ)

**Category:** STELLAR CLUSTER

**Description:** [OPEN CLUSTER]
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<tr>
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<td>F621M</td>
<td>CR-SPLIT=2</td>
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