



16406 - WFC3 UVIS Shutter Monitoring

Cycle: 28, Proposal Category: CAL/WFC3

(Availability Mode: RESTRICTED)

INVESTIGATORS

| <i>Name</i> | <i>Institution</i> | <i>E-Mail</i> |
|---|--|------------------------|
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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 | TUNGSTEN | WFC3/UVIS | 1 | 13-Aug-2020 15:03:38.0 | yes |

1 Total Orbits Used

ABSTRACT

We monitor the WFC3 UVIS shutter performance. The exposures need to be identical to previous cycles. Images with exposure times ranging from 0.5 to 17 seconds will be used to compare the photometric behavior of each shutter blade, for short vs long exposures and check for shutter shading effects. Internal flats in each of the 4 amps will be used to monitor the repeatability and shutter shading effects. We will continue to monitor the photometric behavior of blades A and B separately.

OBSERVING DESCRIPTION

cal

Proposal 16406 - Visit 01 - WFC3 UVIS Shutter Monitoring

Thu Aug 13 19:03:39 GMT 2020

| | |
|--------------|--|
| Visit | Proposal 16406, Visit 01, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: GYRO MODE 3GOBAD; BETWEEN 01-MAR-2021:00:00:00 AND 01-JUL-2021:00:00:00 |
|--------------|--|

| | |
|--------------------|---|
| Diagnostics | (Visit 01) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU (Flat0.5 (01.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Flat1.0 (01.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Flat17 (01.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
|--------------------|---|

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|---------|----------|------------------------|------------------------|---------------|--------------|---------------|--------|---|---|
| | 1 | Flat0.5 | TUNGSTEN | WFC3/UVIS, ACCUM, UVIS | F555W | | | | | 0.5 Secs X 2 (1 Secs) [=>(Copy 1)] [=>(Copy 2)] |
| <i>Comments: This assumes Tungsten lamp 3. (2800 e-/sec/pix through F555W in TV3 testing)</i> | | | | | | | | | | |
| 2 | Flat1.0 | TUNGSTEN | WFC3/UVIS, ACCUM, UVIS | F555W | | | | | 1.0 Secs X 2 (2 Secs) [=>(Copy 1)] [=>(Copy 2)] | [1] |
| <i>Comments: This assumes Tungsten lamp 3. (2800 e-/sec/pix through F555W in TV3 testing)</i> | | | | | | | | | | |
| 3 | Flat17 | TUNGSTEN | WFC3/UVIS, ACCUM, UVIS | F555W | | | | | 17 Secs X 2 (34 Secs) [=>(Copy 1)] [=>(Copy 2)] | [1] |
| <i>Comments: This assumes Tungsten lamp 3. (2800 e-/sec/pix through F555W in TV3 testing)</i> | | | | | | | | | | |

