16409 - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

Cycle: 28, Proposal Category: CAL/WFC3
(Availability Mode: RESTRICTED)

INVESTIGATORS

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<tr>
<th>Name</th>
<th>Institution</th>
<th>E-Mail</th>
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<tbody>
<tr>
<td>Ms. Catherine A Martlin (PI)</td>
<td>Space Telescope Science Institute</td>
<td><a href="mailto:cmartlin@stsci.edu">cmartlin@stsci.edu</a></td>
</tr>
<tr>
<td>Ms. Jennifer Mack (CoI)</td>
<td>Space Telescope Science Institute</td>
<td><a href="mailto:mack@stsci.edu">mack@stsci.edu</a></td>
</tr>
<tr>
<td>Mr. Harish Khandrika (CoI)</td>
<td>Space Telescope Science Institute</td>
<td><a href="mailto:hkhandrika@stsci.edu">hkhandrika@stsci.edu</a></td>
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VISITS

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ABSTRACT
This monitor is to track the randomly distributed population of pixels that exhibit anomalous QE variations between anneals. These pixels are characterized by a sensitivity loss that is more pronounced in the blue than in the red. The population of pixels is unique for each anneal cycle and has clustering in the UV range. Internal flats are used to monitor this population in the UV and visible wavelengths.

OBSERVING DESCRIPTION
6 orbits with the D2 lamp are taken in F225W and F336W, for the UV wavelengths; 1 orbit every other month in the week before the anneal. UV orbits require non-int sequences to minimize cycling of the D2 lamp. 3 orbits each anneal cycle (a week before the anneal, midway between the anneals, and just after the anneal) are taken with the Tungsten lamp in F438W, F645N and F814W, for the visible wavelengths.
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Proposal 16409 - UV before Nov 23 - Nov 30 anneal (01) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

Orbit Structure

Orbit 1
Unused Orbital Visibility = 3142

Exp. 1
Exp. 2

Exp. 3
Exp. 4

Exp. 5
Exp. 6

Exp. 7
Occultation
Reconfig

Server Version: 20200619
Proposal 16409 - UV before Jan 18 - Jan 25 anneal (02) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

Visit
Proposal 16409, UV before Jan 18 - Jan 25 anneal (02), completed
Diagnostic Status: Warning
Scientific Instruments: WFC3/UVIS
Special Requirements: BETWEEN 11-JAN-2021:00:00:00 AND 18-JAN-2021:00:00:00
Comments: This visit needs to be scheduled immediately prior to the UVIS anneal for the week of Jan 18 - Jan 25 anneal.

Diagnostics
(Visit UV before Jan 18 - Jan 25 anneal (02)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
(F225W exp1 (02.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(F225W exp2 (02.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(F225W exp3 (02.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(F225W exp4 (02.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(F336W exp1 (02.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(F336W exp2 (02.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(F336W exp3 (02.007)) 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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Proposal 16409 - UV before Jan 18 - Jan 25 anneal (02) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

Orbit 1

Unused Orbital Visibility = 3142

Exp. 2
Exp. 3
Exp. 4
Exp. 5
Exp. 6
Exp. 7
Occultation
Reconfig

Server Version: 20200619
# Proposal 16409 - UV before Mar 15 - Mar 22 anneal (03) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

Visit
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**Proposal 16409, UV before Mar 15 - Mar 22 anneal (03), withdrawn**

**Diagnostics Status:** Warning

**Scientific Instruments:** WFC3/UVIS

**Special Requirements:** BETWEEN 08-MAR-2021:00:00:00 AND 15-MAR-2021:00:00:00

**Comments:** This visit needs to be scheduled immediately prior to the UVIS anneal for the week of Mar 15 - Mar 22 anneal.

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**Diagnostics**

(UV before Mar 15 - Mar 22 anneal (03)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

(F225W exp1 (03.001)) 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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(F336W exp3 (03.007)) 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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<td>58.0 Secs (58 Secs)</td>
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Proposal 16409 - UV before Mar 15 - Mar 22 anneal (03) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

Orbit Structure

Unused Orbital Visibility = 3142

Exp. 1  Exp. 2  Exp. 3  Exp. 4  Exp. 5  Exp. 6  Exp. 7

Occultation  Reconfig

Server Version: 20200619
Proposal 16409 - UV before May 17 - May 24 anneal (04) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

Visit

- Proposal 16409, UV before May 17 - May 24 anneal (04), implementation
- Diagnostic Status: Warning
- Scientific Instruments: WFC3/UVIS
- Special Requirements: BETWEEN 10-MAY-2021:00:00:00 AND 17-MAY-2021:00:00:00
- Comments: This visit needs to be scheduled immediately prior to the UVIS anneal for the week of May 17 - May 24 anneal.

Diagnostics

- (UV before May 17 - May 24 anneal (04)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
- (F225W exp1 (04.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F225W exp2 (04.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F225W exp3 (04.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F225W exp4 (04.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F336W exp1 (04.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F336W exp2 (04.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F336W exp3 (04.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

Exposures

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Proposal 16409 - UV before Jul 12 - Jul 19 anneal (05) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

Visit

| Proposal 16409, UV before Jul 12 - Jul 19 anneal (05), implementation |
| Scientific Instruments: WFC3/UVIS |
| Special Requirements: BETWEEN 05-JUL-2021:00:00:00 AND 12-JUL-2021:00:00:00 |
| Comments: This visit needs to be scheduled immediately prior to the UVIS anneal for the week of Jul 12 - Jul 19 anneal. |

Diagnostics

- (UV before Jul 12 - Jul 19 anneal (05)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
- (F225W exp1 (05.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F225W exp2 (05.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F225W exp3 (05.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F225W exp4 (05.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F336W exp1 (05.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F336W exp2 (05.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F336W exp3 (05.007)) 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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**Proposal 16409 - UV before Sep 6 - Sep 13 anneal (06) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats**

**Visit**

- **Proposal 16409, UV before Sep 6 - Sep 13 anneal (06), implementation**
- **Diagnostics Status:** Warning
- **Scientific Instruments:** WFC3/UVIS
- **Special Requirements:** BETWEEN 30-AUG-2021:00:00:00 AND 06-SEP-2021:00:00:00
- **Comments:** This visit needs to be scheduled immediately prior to the UVIS anneal for the week of Sep 6 - Sep 13 anneal.

**Diagnostics**

- (UV before Sep 6 - Sep 13 anneal (06)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
- (F225W exp1 (06.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F225W exp2 (06.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F225W exp3 (06.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F225W exp4 (06.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F336W exp1 (06.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F336W exp2 (06.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F336W exp3 (06.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

**Exposures**

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Diagnostics

(F814W & F438W mid Nov cycle (07)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
(subarray for lamp warm up (07.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(F814W exp1 (07.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(F438W exp1 (07.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(F438W exp2 (07.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(F438W exp3 (07.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(F438W exp4 (07.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(F438W exp2 (07.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(F814W exp3 (07.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(F438W exp4 (07.009)) 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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Proposal 16409 - F814W & F438W mid Nov cycle (07) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats
Visit
Proposal 16409, F814W & F438W before Nov 23 - Nov 30 anneal (08), completed
Diagnostic Status: Warning
Scientific Instruments: WFC3/UVIS
Special Requirements: BETWEEN 17-NOV-2020:00:00:00 AND 23-NOV-2020:00:00:00
Comments: This visit needs to be scheduled immediately prior to the UVIS anneal for the week of Nov 23 - Nov 30

Diagnostics
(F814W & F438W before Nov 23 - Nov 30 anneal (08)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU (subarray for lamp warm up (08.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(F814W exp1 (08.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(F438W exp1 (08.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(F438W exp2 (08.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(F438W exp3 (08.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(F438W exp4 (08.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(F438W exp5 (08.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(F814W exp6 (08.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(F814W exp7 (08.009)) 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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Orbit Structure

Proposal 16409 - F814W & F438W before Nov 23 - Nov 30 anneal (08) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats
Visit Proposal 16409, F814W & F438W after Nov 23 - Nov 30 anneal (09), completed
Scientific Instruments: WFC3/UVIS
Special Requirements: BETWEEN 30-NOV-2020:00:00:00 AND 07-DEC-2020:00:00:00
Comments: This visit needs to be scheduled immediately after to the UVIS anneal for the week of Nov 23 - Nov 30 anneal

Diagnostics

- Proposal 16409, F814W & F438W after Nov 23 - Nov 30 anneal (09) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU (subarray for lamp warm up (09.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- F814W exp1 (09.002) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- F438W exp1 (09.003) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- F438W exp2 (09.004) 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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Proposal 16409 - F814W & F438W after Nov 23 - Nov 30 anneal (09) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats
Proposal 16409 - F814W & F438W mid Nov-Dec cycle (10) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

Visit Proposal 16409, F814W & F438W mid Nov-Dec cycle (10), completed
Scientific Instruments: WFC3/UVIS
Special Requirements: BETWEEN 08-DEC-2020:00:00:00 AND 15-DEC-2020:00:00:00
Comments: Data halfway between anneals

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### Diagnostics

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### Exposures

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Data halfway between anneals
Proposal 16409 - F814W & F438W before Dec 21 - Dec 28 anneal (11) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

**Visit**
- **Proposal 16409, F814W & F438W before Dec 21 - Dec 28 anneal (11), completed**
- **Diagnostic Status:** Warning
- **Scientific Instruments:** WFC3/UVIS
- **Special Requirements:** BETWEEN 15-DEC-2020:00:00:00 AND 21-DEC-2020:00:00:00
- **Comments:** This visit needs to be scheduled immediately prior to the UVIS anneal for the week of Dec 21 - Dec 28

**Diagnostics**
- (F814W & F438W before Dec 21 - Dec 28 anneal (11)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU (subarray for lamp warm up (11.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F814W exp1 (11.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F438W exp1 (11.003)) 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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Proposal 16409 - F814W & F438W before Dec 21 - Dec 28 anneal (11) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats
### Visit

**Proposal 16409, F814W & F438W after Dec 21 - Dec 28 anneal (12), completed**

**Diagnostic Status:** Warning

**Scientific Instruments:** WFC3/UVIS

**Special Requirements:** BETWEEN 28-DEC-2020:00:00:00 AND 04-JAN-2021:00:00:00

**Comments:** This visit needs to be scheduled immediately after the UVIS anneal for the week of Dec 21 - Dec 28 anneal

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### Diagnostics

- **(F814W & F438W after Dec 21 - Dec 28 anneal (12))** Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
- **(subarray for lamp warm up (12.001))** Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **(F814W exp1 (12.002))** 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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Orbit 1
Unused Orbital Visibility = 3142
Exp. 1

Exp. 2
Exp. 3
Exp. 4
Exp. 5
Exp. 6
Exp. 7

Exp. 8
Occultation
Exp. 9
Reconfig

Orbit Structure

0 1000 2000 3000 4000 5000 6000 sec

Server Version: 20200619

Proposal 16409 - F814W & F438W after Dec 21 - Dec 28 anneal (12) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats
### Visit

**Proposal 16409, F814W & F438W mid Dec-Jan cycle (13) Completed**

**Scientific Instruments:** WFC3/UVIS

**Special Requirements:** BETWEEN 04-JAN-2021:00:00:00 AND 11-JAN-2021:00:00:00

**Comments:** Data halfway between anneals

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### Diagnostics

- **(F814W & F438W mid Dec-Jan cycle (13)) Warning (Orbit Planner):** MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU (subarray for lamp warm up (13.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

- **(F814W exp1 (13.002)) Warning (Form):** FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

- **(F438W exp1 (13.003)) Warning (Form):** FLASH level may be too low for this exposure or a short subexposure.

- **(F438W exp2 (13.004)) Warning (Form):** FLASH level may be too low for this exposure or a short subexposure.

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- **(F438W exp4 (13.006)) Warning (Form):** FLASH level may be too low for this exposure or a short subexposure.

- **(F438W exp2 (13.007)) Warning (Form):** FLASH level may be too low for this exposure or a short subexposure.

- **(F814W exp3 (13.008)) Warning (Form):** FLASH level may be too low for this exposure or a short subexposure.

- **(F814W exp4 (13.009)) 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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Orbit Structure

Proposal 16409 - F814W & F438W mid Dec-Jan cycle (13) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats
### Proposal 16409 - F814W & F438W before Jan 18 - Jan 25 anneal (14) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

**Visit**

- **Proposal 16409, F814W & F438W before Jan 18 - Jan 25 anneal (14), completed**
- **Diagnostic Status:** Warning
- **Scientific Instruments:** WFC3/UVIS
- **Special Requirements:** BETWEEN 11-JAN-2021:00:00:00 AND 18-JAN-2021:00:00:00
- **Comments:** This visit needs to be scheduled immediately prior to the UVIS anneal for the week of Jan 18 - Jan 25

**Mon Mar 29 20:01:29 GMT 2021**

**Diagnostic Status:** Warning

**Scientific Instruments:** WFC3/UVIS

**Special Requirements:** BETWEEN 11-JAN-2021:00:00:00 AND 18-JAN-2021:00:00:00

**Comments:** This visit needs to be scheduled immediately prior to the UVIS anneal for the week of Jan 18 - Jan 25

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Proposal 16409 - F814W & F438W before Jan 18 - Jan 25 anneal (14) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats
**Proposal 16409 - F814W & F438W after Jan 18 - Jan 25 anneal (15) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats**

**Visit**

Proposal 16409, F814W & F438W after Jan 18 - Jan 25 anneal (15), completed  
Scientific Instruments: WFC3/UVIS  
Special Requirements: BETWEEN 25-JAN-2021:00:00:00 AND 01-FEB-2021:00:00:00  
Comments: This visit needs to be scheduled immediately after to the UVIS anneal for the week of Jan 18 - Jan 25 anneal

**Diagnostics**

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**Exposures**

**Diagnostic Status:** Warning  
**Scientific Instruments:** WFC3/UVIS  
**Special Requirements:** BETWEEN 25-JAN-2021:00:00:00 AND 01-FEB-2021:00:00:00  
**Comments:** This visit needs to be scheduled immediately after to the UVIS anneal for the week of Jan 18 - Jan 25 anneal.
Orbit Structure

Proposal 16409 - F814W & F438W after Jan 18 - Jan 25 anneal (15) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats
Visit: Proposal 16409, F814W & F438W mid Jan - Feb cycle (16), completed

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 01-FEB-2021:00:00:00 AND 08-FEB-2021:00:00:00

Comments: Data halfway between anneals

**Diagnostics**

(F814W & F438W mid Jan - Feb cycle (16)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

(subarray for lamp warm up (16.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F814W exp1 (16.002)) 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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Visit

Proposal 16409, F814W & F438W before Feb 15 - Feb 22 anneal (17), completed

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 09-FEB-2021:00:00:00 AND 15-FEB-2021:00:00:00

Comments: This visit needs to be scheduled immediately prior to the UVIS anneal for the week of Feb 15 - Feb 22

Diagnostics

(F814W & F438W before Feb 15 - Feb 22 anneal (17)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU (subarray for lamp warm up (17.001)) 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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Proposal 16409 - F814W & F438W before Feb 15 - Feb 22 anneal (17) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

Orbit Structure

Orbit 1
Unused Orbital Visibility = 3142
Exp. 1

Exp. 2
Exp. 3
Exp. 4
Exp. 5
Exp. 6
Exp. 7

Exp. 8
Occultation
Exp. 9
Reconfig

Server Version: 20200619
**Proposal 16409 - F814W & F438W after Feb 15 - Feb 22 anneal (18) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats**

**Visit**

- **Proposal ID:** Proposal 16409, F814W & F438W after Feb 15 - Feb 22 anneal (18), completed
- **Scientific Instruments:** WFC3/UVIS
- **Special Requirements:** BETWEEN 22-FEB-2021:00:00:00 AND 01-MAR-2021:00:00:00
- **Comments:** This visit needs to be scheduled immediately after to the UVIS anneal for the week of Feb 15 - Feb 22 anneal

**Diagnostic Status:** Warning

- **Diagnostics (F814W & F438W after Feb 15 - Feb 22 anneal (18))**: Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU (subarray for lamp warm up (18.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **Diagnostics (F814W exp1 (18.002))**: Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **Diagnostics (F438W exp1 (18.003))**: Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **Diagnostics (F438W exp2 (18.004))**: Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **Diagnostics (F438W exp3 (18.005))**: Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **Diagnostics (F438W exp4 (18.006))**: Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **Diagnostics (F438W exp5 (18.007))**: Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **Diagnostics (F438W exp6 (18.008))**: Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **Diagnostics (F438W exp7 (18.009))**: 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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Orbit 1
Unused Orbital Visibility = 3142

Exp. 1
Exp. 2
Exp. 3
Exp. 4
Exp. 5
Exp. 6
Exp. 7
Exp. 8
Occultation
Exp. 9
Reconfig

Server Version: 20200619
Proposal 16409 - F814W & F438W mid Feb - Mar cycle (19) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 01-MAR-2021:00:00:00 AND 08-MAR-2021:00:00:00

Comments: Data halfway between anneals

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Visit Proposal 16409 - F814W & F438W before Mar 15 - Mar 22 anneal (20) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

**Diagnostics**

- **Visit**
  - Proposal 16409, F814W & F438W before Mar 15 - Mar 22 anneal (20), withdrawn
  - Scientific Instruments: WFC3/UVIS
  - Special Requirements: BETWEEN 08-MAR-2021:00:00:00 AND 15-MAR-2021:00:00:00
  - Comments: This visit needs to be scheduled immediately prior to the UVIS anneal for the week of Mar 15 - Mar 22

- **Diagnostics Status**: Warning
- **Scientific Instruments**: WFC3/UVIS
- **Special Requirements**: BETWEEN 08-MAR-2021:00:00:00 AND 15-MAR-2021:00:00:00
- **Comments**: This visit needs to be scheduled immediately prior to the UVIS anneal for the week of Mar 15 - Mar 22

- **Diagnostics**
  - Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
  - Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

- **Exposures**

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Proposal 16409 - F814W & F438W after Mar 15 - Mar 22 anneal (21) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

Visit
Proposal 16409, F814W & F438W after Mar 15 - Mar 22 anneal (21), completed

Scientific Instruments: WFC3/UVIS
Special Requirements: BETWEEN 22-MAR-2021:00:00:00 AND 29-MAR-2021:00:00:00
Comments: This visit needs to be scheduled immediately after to the UVIS anneal for the week of Mar 15 - Mar 22 anneal

Diagnostic Status: Warning
Scientific Instruments: WFC3/UVIS
Special Requirements: BETWEEN 22-MAR-2021:00:00:00 AND 29-MAR-2021:00:00:00
Comments: This visit needs to be scheduled immediately after to the UVIS anneal for the week of Mar 15 - Mar 22 anneal

Diagnostics
(F814W & F438W after Mar 15 - Mar 22 anneal (21)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU (subarray for lamp warm up (21.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F814W exp1 (21.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F438W exp1 (21.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F438W exp2 (21.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F438W exp3 (21.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F438W exp4 (21.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F814W exp2 (21.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F814W exp3 (21.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F814W exp4 (21.009)) 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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Orbit Structure

Orbit 1
Unused Orbital Visibility = 3142
Exp. 1

Exp. 2
Exp. 3  Exp. 4  Exp. 5  Exp. 6  Exp. 7

Exp. 8
Occultation
Exp. 9
Reconfig

Server Version: 20200619
Visit Proposal 16409, F814W & F438W mid Mar - Apr cycle (22), completed

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 28-MAR-2021:00:00:00 AND 04-APR-2021:00:00:00

Comments: Data halfway between anneals

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Diagnostics

- (F814W & F438W mid Mar - Apr cycle (22)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU (subarray for lamp warm up (22.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F814W exp1 (22.002)) 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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- (F438W exp5 (22.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F438W exp6 (22.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F814W exp2 (22.009)) 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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Proposal 16409 - F814W & F438W mid Mar - Apr cycle (22) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats
Visit
Proposal 16409, F814W & F438W before Apr 12 - Apr 19 anneal (23) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 04-APR-2021:00:00:00 AND 12-APR-2021:00:00:00

Comments: This visit needs to be scheduled immediately prior to the UVIS anneal for the week of Apr 12 - Apr 19

Diagnostics

(Diagnostic Status: Warning)

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 04-APR-2021:00:00:00 AND 12-APR-2021:00:00:00

Comments: This visit needs to be scheduled immediately prior to the UVIS anneal for the week of Apr 12 - Apr 19

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Proposal 16409 - F814W & F438W after Apr 19 - Apr 26 anneal (24) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

Visit Proposal 16409, F814W & F438W after Apr 19 - Apr 26 anneal (24), implementation

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 26-APR-2021:00:00:00 AND 03-MAY-2021:00:00:00

Comments: This visit needs to be scheduled immediately after to the UVIS anneal for the week of Apr 19 - Apr 26 anneal

Diagnostics

Diagnostics Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU (subarray for lamp warm up (24.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser.

(F814W exp1 (24.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser.

(F438W exp1 (24.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser.

(F814W exp2 (24.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser.

(F438W exp3 (24.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser.

(F814W exp4 (24.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser.

(F438W exp4 (24.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser.

(F814W exp3 (24.008)) 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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Proposal 16409 - F814W & F438W after Apr 19 - Apr 26 anneal (24) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats
Proposal 16409 - F814W & F438W mid Apr - May cycle (25) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

**Visit**
- Proposal 16409, F814W & F438W mid Apr - May cycle (25), implementation
- Scientific Instruments: WFC3/UVIS
- Special Requirements: BETWEEN 03-MAY-2021:00:00:00 AND 10-MAY-2021:00:00:00
- Comments: Data halfway between anneals

**Diagnostics**
- (F814W & F438W mid Apr - May cycle (25)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
- (subarray for lamp warm up (25.001)) 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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Orbit Structure

Orbit 1
Unused Orbital Visibility = 3142
Exp. 1
Exp. 2  Exp. 3  Exp. 4  Exp. 5  Exp. 6  Exp. 7
Exp. 8
Occultation
Exp. 9
Reconfig

Server Version: 20200619
### Proposal 16409 - F814W & F438W before May 17 - May 24 anneal (26) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

**Visit**

- **Proposal 16409, F814W & F438W before May 17 - May 24 anneal (26), implementation**
- **Diagnostic Status:** Warning
- **Scientific Instruments:** WFC3/UVIS
- **Special Requirements:** BETWEEN 10-MAY-2021:00:00:00 AND 17-MAY-2021:00:00:00
- **Comments:** This visit needs to be scheduled immediately prior to the UVIS anneal for the week of May 17 - May 24.

---

**Diagnostics**

- (F814W & F438W before May 17 - May 24 anneal (26)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
  - (subarray for lamp warm up (26.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
  - (F814W exp1 (26.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
  - (F438W exp1 (26.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
  - (F438W exp2 (26.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
  - (F438W exp3 (26.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
  - (F438W exp4 (26.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
  - (F438W exp5 (26.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
  - (F814W exp3 (26.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
  - (F438W exp4 (26.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

**Exposures**

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Proposal 16409 - F814W & F438W before May 17 - May 24 anneal (26) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

### Visit
- **Proposal 16409, F814W & F438W after May 17 - May 24 anneal (27), implementation**
- **Scientific Instruments:** WFC3/UVIS
- **Special Requirements:** BETWEEN 24-MAY-2021:00:00:00 AND 31-MAY-2021:00:00:00
- **Comments:** This visit needs to be scheduled immediately after the UVIS anneal for the week of May 17 - May 24 anneal

### Diagnostics
- **Diagnostics Status:** Warning
- **Diagnostic Status:** Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
- **Diagnostic Status:** Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

### Exposures

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Orbit Structure

Proposal 16409 - F814W & F438W after May 17 - May 24 anneal (27) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats
## Proposal 16409 - F814W & F438W mid May - Jun cycle (28) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

### Visit
- **Proposal 16409, F814W & F438W mid May - Jun cycle (28), implementation**
- **Diagnostic Status:** Warning
- **Scientific Instruments:** WFC3/UVIS
- **Special Requirements:** BETWEEN 31-MAY-2021:00:00:00 AND 07-JUN-2021:00:00:00
- **Comments:** Data halfway between anneals

### Diagnostics

| (F814W & F438W mid May - Jun cycle (28)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU (subarray for lamp warm up (28.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. | See extended explanation in the diagnostic browser |
| (F814W exp1 (28.002)) 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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| (F814W exp2 (28.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. | See extended explanation in the diagnostic browser |
| (F438W exp3 (28.008)) 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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Proposal 16409 - F814W & F438W mid May - Jun cycle (28) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

Orbit Structure

Orbit 1

Exp. 1
Unused Orbital Visibility = 3142

Exp. 2
Exp. 3
Exp. 4
Exp. 5
Exp. 6
Exp. 7

Exp. 8
Occultation
Exp. 9
Reconfig

Server Version: 20200619
**Proposal 16409 - F814W & F438W before Jun 14 - Jun 21 anneal (29) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats**

**Visit**

- **Proposal 16409, F814W & F438W before Jun 14 - Jun 21 anneal (29), implementation**
- **Diagnostics Status:** Warning
- **Scientific Instruments:** WFC3/UVIS
- **Special Requirements:** BETWEEN 07-JUN-2021:00:00:00 AND 14-JUN-2021:00:00:00
- **Comments:** This visit needs to be scheduled immediately prior to the UVIS anneal for the week of Jun 14 - Jun 21

**Diagnostics**

- Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
- 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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Proposal 16409 - F814W & F438W before Jun 14 - Jun 21 anneal (29) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats
### Visit

**Proposal 16409, F814W & F438W after Jun 14 - Jun 21 anneal (30), implementation**

**Diagnostic Status:** Warning

**Scientific Instruments:** WFC3/UVIS

**Special Requirements:** BETWEEN 21-JUN-2021:00:00:00 AND 28-JUN-2021:00:00:00

**Comments:** This visit needs to be scheduled immediately after to the UVIS anneal for the week of Jun 14 - Jun 21 anneal

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### Diagnostics

- **(F814W & F438W after Jun 14 - Jun 21 anneal (30))** Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
- (subarray for lamp warm up (30.001))
- Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F814W exp1 (30.002))
- Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F438W exp1 (30.003))
- Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F438W exp2 (30.004))
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- (F438W exp3 (30.005))
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- (F438W exp4 (30.006))
- Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F814W exp2 (30.007))
- Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F814W exp3 (30.008))
- Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F814W exp4 (30.009))
- 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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Orbit 1

Unused Orbital Visibility = 3142

Exp. 2
Exp. 3
Exp. 4
Exp. 5
Exp. 6
Exp. 7
Exp. 8
Occultation
Exp. 9
Reconfig

Server Version: 20200619
## Proposal 16409 - F814W & F438W mid Jun - Jul cycle (31) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

**Visit**

- **Proposal 16409, F814W & F438W mid Jun - Jul cycle (31), implementation**
- **Diagnostic Status:** Warning
- **Scientific Instruments:** WFC3/UVIS
- **Special Requirements:** BETWEEN 28-JUN-2021:00:00:00 AND 05-JUL-2021:00:00:00
- **Comments:** Data halfway between anneals

**Diagnostics**

(F814W & F438W mid Jun - Jul cycle (31)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU (subarray for lamp warm up (31.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F814W exp1 (31.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F438W exp1 (31.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F438W exp2 (31.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F438W exp3 (31.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F438W exp4 (31.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F438W exp2 (31.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F438W exp3 (31.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

**Exposures**

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Proposal 16409 - F814W & F438W mid Jun - Jul cycle (31) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

Orbit Structure

Orbit 1

Exp. 1
Unused Orbital Visibility = 3142

Exp. 2

Exp. 3
Exp. 4
Exp. 5
Exp. 6
Exp. 7

Exp. 8
Occultation
Exp. 9
Reconfig

Server Version: 20200619
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Orbit 1
Unused Orbital Visibility = 3142
Exp. 1

Exp. 2
Exp. 3
Exp. 4
Exp. 5
Exp. 6
Exp. 7

Exp. 8
Occultation
Exp. 9
Reconfig

Server Version: 20200619
**Visit**

- **Proposal 16409, F814W & F438W after Jul 12 - Jul 19 anneal (33), implementation**

**Diagnostic Status:** Warning

**Scientific Instruments:** WFC3/UVIS

**Special Requirements:** BETWEEN 19-JUL-2021:00:00:00 AND 26-JUL-2021:00:00:00

**Comments:** This visit needs to be scheduled immediately after to the UVIS anneal for the week of Jul 12 - Jul 19 anneal

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**Diagnostics**

- 

  | (F814W & F438W after Jul 12 - Jul 19 anneal (33)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU subarray for lamp warm up (33.001) |
  | Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser |
  | (F814W exp1 (33.002)) 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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Orbit Structure

Orbit 1
Unused Orbital Visibility = 3142

Exp. 1
Exp. 2
Exp. 3
Exp. 4
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Exp. 6
Exp. 7
Exp. 8
Occultation
Exp. 9
Reconfig

Server Version: 20200619
### Proposal 16409 - F814W & F438W mid Jul - Aug cycle (34) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

**Visit**
- **Proposal 16409, F814W & F438W mid Jul - Aug cycle (34), implementation**
- **Scientific Instruments:** WFC3/UVIS
- **Special Requirements:** BETWEEN 26-JUL-2021:00:00:00 AND 02-AUG-2021:00:00:00
- **Comments:** Data halfway between anneals

**Diagnostic Status:** Warning
- **Diagnostic:** Diagnostic Status: Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU (subarray for lamp warm up (34.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **Diagnostic:** (F814W & F438W mid Jul - Aug cycle (34)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **Diagnostic:** (F814W exp1 (34.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **Diagnostic:** (F438W exp1 (34.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **Diagnostic:** (F438W exp2 (34.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **Diagnostic:** (F438W exp3 (34.005)) 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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- **Diagnostic:** (F814W exp2 (34.007)) 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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- **Diagnostic:** (F814W exp4 (34.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

**Visit**

### Exposures

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Proposal 16409 - F814W & F438W mid Jul - Aug cycle (34) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats
Proposal 16409 - F814W & F438W before Aug 09 - Aug 16 anneal (35) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

Visit
Proposal 16409, F814W & F438W before Aug 09 - Aug 16 anneal (35), implementation
Scientific Instruments: WFC3/UVIS
Special Requirements: BETWEEN 02-AUG-2021:00:00:00 AND 09-AUG-2021:00:00:00
Comments: This visit needs to be scheduled immediately prior to the UVIS anneal for the week of Aug 09 - Aug 16

Diagnostic Status: Warning
Scientific Instruments: WFC3/UVIS
Special Requirements: BETWEEN 02-AUG-2021:00:00:00 AND 09-AUG-2021:00:00:00
Comments: This visit needs to be scheduled immediately prior to the UVIS anneal for the week of Aug 09 - Aug 16

Diagnostics
(F814W & F438W before Aug 09 - Aug 16 anneal (35)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU (subarray for lamp warm up (35.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(F814W exp1 (35.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure.
(F438W exp1 (35.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure.
(F438W exp2 (35.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure.
(F438W exp3 (35.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure.
(F438W exp4 (35.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure.
(F814W exp2 (35.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure.
(F438W exp3 (35.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure.
(F814W exp4 (35.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

Exposures

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Proposal 16409 - F814W & F438W before Aug 09 - Aug 16 anneal (35) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats
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Orbit Structure

Unused Orbital Visibility = 3142

Exp. 1

Exp. 2

Exp. 3

Exp. 4

Exp. 5

Exp. 6

Exp. 7

Exp. 8

Occultation

Exp. 9

Reconfig

Server Version: 20200619

Proposal 16409 - F814W & F438W after Aug 09 - Aug 16 anneal (36) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats
**Proposal 16409 - F814W & F438W mid Aug - Sep cycle (37) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats**

**Visit**
- **Proposal 16409, F814W & F438W mid Aug - Sep cycle (37), implementation**
- **Diagnostic Status:** Warning
- **Scientific Instruments:** WFC3/UVIS
- **Special Requirements:** BETWEEN 23-AUG-2021:00:00:00 AND 30-AUG-2021:00:00:00
- **Comments:** Data halfway between anneals

**Diagnostics**

- **Warning (Orbit Planner):** MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU subarray for lamp warm up (37.001)
- **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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**Diagnostics**

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**Visit**
- **Proposal 16409, F814W & F438W mid Aug - Sep cycle (37), implementation**
- **Diagnostic Status:** Warning
- **Scientific Instruments:** WFC3/UVIS
- **Special Requirements:** BETWEEN 23-AUG-2021:00:00:00 AND 30-AUG-2021:00:00:00
- **Comments:** Data halfway between anneals
Orbit Structure

Orbit 1
Unused Orbital Visibility = 3142
Exp. 1

Exp. 2
Exp. 3
Exp. 4
Exp. 5
Exp. 6
Exp. 7

Exp. 8
Occultation
Exp. 9
Reconfig

Server Version: 20200619

Proposal 16409 - F814W & F438W mid Aug - Sep cycle (37) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats
Proposal 16409 - F814W & F438W before Sep 6 - Sep 13 anneal (38) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

Visit
Proposal 16409, F814W & F438W before Sep 6 - Sep 13 anneal (38), implementation

Diagnostic Status: Warning
Scientific Instruments: WFC3/UVIS
Special Requirements: BETWEEN 30-AUG-2021:00:00:00 AND 06-SEP-2021:00:00:00
Comments: This visit needs to be scheduled immediately prior to the UVIS anneal for the week of Sep 6 - Sep 13

Diagnostics
(F814W & F438W before Sep 6 - Sep 13 anneal (38)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
(subarray for lamp warm up (38.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(F814W exp1 (38.002)) 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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Proposal 16409 - F814W & F438W before Sep 6 - Sep 13 anneal (38) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats
Visit Proposal 16409 - F814W & F438W after Sep 6 - Sep 13 anneal (39) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 13-SEP-2021:00:00:00 AND 20-SEP-2021:00:00:00

Comments: This visit needs to be scheduled immediately after to the UVIS anneal for the week of Sep 6 - Sep 13 anneal

Diagnostics

- (F814W & F438W after Sep 6 - Sep 13 anneal (39)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU (subarray for lamp warm up (39.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F814W exp1 (39.002)) 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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Proposal 16409 - F814W & F438W after Sep 6 - Sep 13 anneal (39) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats
**Visit**

**Proposal 16409, F814W & F438W mid Sep - Oct cycle (40), implementation**

**Diagnostic Status:** Warning

**Scientific Instruments:** WFC3/UVIS

**Special Requirements:** BETWEEN 20-SEP-2021:00:00:00 AND 27-SEP-2021:00:00:00

**Comments:** Data halfway between anneals

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### Diagnostics

- **(F814W & F438W mid Sep - Oct cycle (40))** Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
- **(subarray for lamp warm up (40.001))** Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **(F814W exp1 (40.002))** Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **(F438W exp1 (40.003))** Warning (Form): FLASH level may be too low for this exposure or a short subexposure.
- **(F438W exp2 (40.004))** 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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- **(F438W exp4 (40.006))** 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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Proposal 16409 - F814W & F438W mid Sep - Oct cycle (40) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats
## Proposal 16409 - F814W & F438W before Oct 04 - Oct 11 anneal (41) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

**Visit**
- Proposal 16409, F814W & F438W before Oct 04 - Oct 11 anneal (41), implementation
- **Diagnostic Status:** Warning
- **Scientific Instruments:** WFC3/UVIS
- **Special Requirements:** BETWEEN 27-SEP-2021:00:00:00 AND 04-OCT-2021:00:00:00
- **Comments:** This visit needs to be scheduled immediately prior to the UVIS anneal for the week of Oct 04 - Oct 11

**Diagnostics**
- (F814W & F438W before Oct 04 - Oct 11 anneal (41)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
- (F814W exp1 (41.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (F438W exp1 (41.003)) 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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- (F438W exp3 (41.005)) 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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- (F814W exp2 (41.007)) 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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Proposal 16409 - F814W & F438W before Oct 04 - Oct 11 anneal (41) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

Orbit Structure

Orbit 1
Unused Orbital Visibility = 3142
Exp. 1
Exp. 2
Exp. 3
Exp. 4
Exp. 5
Exp. 6
Exp. 7

Exp. 8
Occultation
Exp. 9
Reconfig

0  500  1000  1500  2000  2500  3000  3500  4000  4500  5000  5500  6000 sec
### Visit

**Proposal 16409, F814W & F438W after Oct 04 - Oct 11 anneal (42), implementation**

**Diagnostic Status:** Warning

**Scientific Instruments:** WFC3/UVIS

**Special Requirements:** BETWEEN 11-OCT-2021:00:00:00 AND 18-OCT-2021:00:00:00

**Comments:** This visit needs to be scheduled immediately after to the UVIS anneal for the week of Oct 04 - Oct 11 anneal

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### Diagnostics

- **(F814W & F438W after Oct 04 - Oct 11 anneal (42))** Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU (subarray for lamp warm up (42.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **(F814W exp1 (42.002))** Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **(F438W exp1 (42.003))** Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **(F438W exp2 (42.004))** Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **(F438W exp3 (42.005))** Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **(F438W exp4 (42.006))** Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **(F814W exp2 (42.007))** Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **(F814W exp3 (42.008))** Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **(F814W exp4 (42.009))** 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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### Exposures

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<td>subarray for lamp warm up</td>
<td>TUNGSTEN</td>
<td>WFC3/UVIS, ACCUM, UVIS1-M512-SUB</td>
<td>F645N</td>
<td>Sequence 1-9 Non-Int in F814W &amp; F438W after Oct 04 - Oct 11 anneal (42)</td>
<td>60.0 Secs (60 Secs)</td>
<td>[1]</td>
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<td>F814W exp1</td>
<td>TUNGSTEN</td>
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<td>F814W</td>
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<td>F438W</td>
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<td>F438W exp3</td>
<td>TUNGSTEN</td>
<td>WFC3/UVIS, ACCUM, UVIS</td>
<td>F438W</td>
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<td>[1]</td>
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<td>F438W exp4</td>
<td>TUNGSTEN</td>
<td>WFC3/UVIS, ACCUM, UVIS</td>
<td>F438W</td>
<td>Sequence 1-9 Non-Int in F814W &amp; F438W after Oct 04 - Oct 11 anneal (42)</td>
<td>360.0 Secs (360 Secs)</td>
<td>[1]</td>
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<td>7</td>
<td>F814W exp2</td>
<td>TUNGSTEN</td>
<td>WFC3/UVIS, ACCUM, UVIS</td>
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<td>Sequence 1-9 Non-Int in F814W &amp; F438W after Oct 04 - Oct 11 anneal (42)</td>
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Proposal 16409 - F814W & F438W after Oct 04 - Oct 11 anneal (42) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats
## Visit

**Proposal 16409, F814W & F438W mid Oct -Nov cycle (43), implementation**

- **Diagnostic Status:** Warning
- **Scientific Instruments:** WFC3/UVIS
- **Special Requirements:** BETWEEN 18-OCT-2021:00:00:00 AND 25-OCT-2021:00:00:00
- **Comments:** Data halfway between anneals

## Diagnostics

(F814W & F438W mid Oct -Nov cycle (43)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU (subarray for lamp warm up (43.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F814W exp1 (43.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F438W exp1 (43.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F438W exp2 (43.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F438W exp3 (43.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F438W exp4 (43.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F438W exp5 (43.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F814W exp3 (43.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(F814W exp4 (43.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

## Exposures

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Proposal 16409 - F814W & F438W mid Oct - Nov cycle (43) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats
### Visit

**Proposal 16409, F814W & F438W before Nov 1 - Nov 8 anneal (44), implementation**

- **Diagnostic Status:** Warning
- **Scientific Instruments:** WFC3/UVIS
- **Special Requirements:** BETWEEN 25-OCT-2021:00:00:00 AND 01-NOV-2021:00:00:00
- **Comments:** This visit needs to be scheduled immediately prior to the UVIS anneal for the week of Nov 1 - Nov 8

### Diagnostics

- **Proposal 16409 & F814W & F438W before Nov 1 - Nov 8 anneal (44)** Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU (subarray for lamp warm up (44.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **F814W exp1 (44.002)** 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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- **F438W exp3 (44.005)** Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **F438W exp4 (44.006)** Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **F814W exp2 (44.007)** Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- **F814W exp3 (44.008)** 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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<td>TUNGSTEN</td>
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<td>3</td>
<td>F438W exp1</td>
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<td>Sequence 1-9 Non-Int in F814W &amp; F438W before Nov 1 - Nov 8 anneal (44)</td>
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<td>F438W exp3</td>
<td>TUNGSTEN</td>
<td>WFC3/UVIS, ACCUM, UVIS</td>
<td>F438W</td>
<td>Sequence 1-9 Non-Int in F814W &amp; F438W before Nov 1 - Nov 8 anneal (44)</td>
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<td>F438W</td>
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Proposal 16409, F814W & F438W after Nov 1 - Nov 8 anneal (45) - WFC3 UVIS Pixel-to-Pixel QE Variations via Internal Flats

Visit Proposal 16409, F814W & F438W after Nov 1 - Nov 8 anneal (45), implementation

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 08-NOV-2021:00:00:00 AND 15-NOV-2021:00:00:00

Comments: This visit needs to be scheduled immediately after to the UVIS anneal for the week of Nov 1 - Nov 8 anneal

Diagnostics

(F814W & F438W after Nov 1 - Nov 8 anneal (45)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
(subarray for lamp warm up (45.001)) 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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Exposures

---|---|---|---|---|---|---|---|---|---
1 | subarray for lamp warm up | TUNGSTEN | WFC3/UVIS, ACCUM, UVIS1-M512-SUB | F645N | Sequence 1-9 Non-Int in F814W & F438W after Nov 1 - Nov 8 anneal (45) | 60.0 Secs (60 Secs) | [1]
2 | F814W exp1 | TUNGSTEN | WFC3/UVIS, ACCUM, UVIS | F814W | Sequence 1-9 Non-Int in F814W & F438W after Nov 1 - Nov 8 anneal (45) | 2.0 Secs (2 Secs) | [1]
3 | F438W exp1 | TUNGSTEN | WFC3/UVIS, ACCUM, UVIS | F438W | Sequence 1-9 Non-Int in F814W & F438W after Nov 1 - Nov 8 anneal (45) | 360.0 Secs (360 Secs) | [1]
4 | F438W exp2 | TUNGSTEN | WFC3/UVIS, ACCUM, UVIS | F438W | Sequence 1-9 Non-Int in F814W & F438W after Nov 1 - Nov 8 anneal (45) | 360.0 Secs (360 Secs) | [1]
5 | F438W exp3 | TUNGSTEN | WFC3/UVIS, ACCUM, UVIS | F438W | Sequence 1-9 Non-Int in F814W & F438W after Nov 1 - Nov 8 anneal (45) | 360.0 Secs (360 Secs) | [1]
6 | F438W exp4 | TUNGSTEN | WFC3/UVIS, ACCUM, UVIS | F438W | Sequence 1-9 Non-Int in F814W & F438W after Nov 1 - Nov 8 anneal (45) | 360.0 Secs (360 Secs) | [1]
7 | F814W exp2 | TUNGSTEN | WFC3/UVIS, ACCUM, UVIS | F814W | Sequence 1-9 Non-Int in F814W & F438W after Nov 1 - Nov 8 anneal (45) | 2.0 Secs (2 Secs) | [1]
8 | F814W exp3 | TUNGSTEN | WFC3/UVIS, ACCUM, UVIS | F814W | Sequence 1-9 Non-Int in F814W & F438W after Nov 1 - Nov 8 anneal (45) | 2.0 Secs (2 Secs) | [1]
9 | F814W exp4 | TUNGSTEN | WFC3/UVIS, ACCUM, UVIS | F814W | Sequence 1-9 Non-Int in F814W & F438W after Nov 1 - Nov 8 anneal (45) | 2.0 Secs (2 Secs) | [1]
Orbit 1

Unused Orbital Visibility = 3142

Exp. 1
Exp. 2
Exp. 3
Exp. 4
Exp. 5
Exp. 6
Exp. 7
Exp. 8
Occultation
Exp. 9
Reconfig

Server Version: 20200619