15948 - Make STIS Great Again!

Cycle: 27, Proposal Category: GO
(Calendar, UV Initiative)
(Availability Mode: SUPPORTED)

INVESTIGATORS

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>E-Mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Thomas R. Ayres (PI) (Contact)</td>
<td>University of Colorado at Boulder</td>
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</tr>
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<td><a href="mailto:proffitt@stsci.edu">proffitt@stsci.edu</a></td>
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VISITS

<table>
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<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>
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STIS is the premier high-resolution UV spectrograph in space, carrying out state-of-the-art investigations of a dizzying array of cosmic phenomena.

While the instrument performance is superb, the CALSTIS pipeline wavelength scales can be improved in two significant ways: (1) collect new wavecal lamp exposures for echelle settings currently lacking adequate calibration coverage in the modern (post-SM4) era; and (2) build easy-to-apply corrections to compensate for small wavelength distortions introduced by the low-order polynomial dispersion model currently incorporated in the pipeline. In fact, success of the second improvement depends on availability of "missing" calibrations delivered by the first part. A modest expenditure of calibration time can enhance the extensive legacy of STIS, now and into the future.

**OBSERVING DESCRIPTION**

**Impact of Reduced Gyro Mode**

This is a calibration project, internal to the STIS instrument, without external targets. Thus, there would be no impacts of RGM on the program.

Observation Description
Observational objective is to acquire new wavelength calibrations for STIS echelle settings lacking adequate post-SM4 coverage. The observational program is straightforward, consisting of a series of calibration lamp exposures, carried out in short, partial-orbit visits for ease of scheduling (i.e., during Earth occultations). For NUV high-res settings (which dominate the high-priority group), use of the 0.2x0.09 slit would double throughput compared with the 0.1x0.09 slit normally employed for such calibrations (to minimize order-crowding, but this is not an issue for the high-res echelle settings considered here), thus reducing exposure times to reach desired exposure depths. The default 0.2x0.09 slit would be used for the two FUV high-res settings, and the default 0.2x0.06 slit for the three NUV medium-res settings (where achieving the highest resolution is important). The brighter HITM2 lamp would be used for the two FUV settings to improve S/N, especially at the shortest wavelengths where the lamp intensity fades rapidly. Preferable to schedule the two sets of FUV exposures in "low FUV glow" orbits, i.e., 1--2 orbits after FUV MAMA is turned on.

In the comment lines for the individual exposures in the APT script, a summary of the existing formal wavelength calibration exposures for that setting is provided. For example, the entry:

o8gs03m6q : H-1307/2002-06-13/0.2X0.09/TEXP= 1X 600s / GCR= 1.628E+02 / bpix= 0.2 (262,932)

lists, in order: the wavecal dataset name; the mode-setting; observation date; slit used; exposure time ("N" X "texp", where "N" is the number of repeats of "texp" seconds); the Global Count Rate GCR in cnt/s; and the brightest pixel, bpix (1024x1024 low-res format), in cnt/s, where the parenthetical entry is the (x,y) coordinates of that pixel. The exposures are separated into pre- and post-SM4, if applicable, by a gap. The list does not include informal wavelength calibrations taken by individual GOs, but is intended to provide representative GCRs and bpix's for real exposures. The associated STIS/ETC runs were based on empirical H(igh)-res and M(edium)-res atlases of the wavecal lamps, for which the relative flux levels were adjusted to reproduce, on average, the brightest pixel count rates in a set of representative archival wavecals. Note that the GCRs of the empirical post-SM4 NUV wavecals can show large variations, mainly due to the higher fluorescent backgrounds in the 2009-2011 time frame. Nevertheless, the bpix values are nearly independent of the GCRs.
Proposal 15948 - Visit 10 - Make STIS Great Again!

Visit

Proposal 15948, Visit 10, completed

Diagnostic Status: Error

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: (none)

Comments: Preferable to schedule the FUV exposures in "low FUV glow" orbits, i.e., 1--2 orbits after FUV MAMA is turned on.

Diagnostics

(Exposure 1 (Visit 10)) Error (Form): LAMP is not a valid selection

(Exposure 1 (Visit 10)) Error (Form): Target NONE is no longer a valid selection

(Exposure 1 (Visit 10)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP.

(Exposure 1 (Visit 10)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP=LINE.

(Exposure 1 (Visit 10)) Error (Form): This attribute is not allowed to have this value: Calibration_Target = NONE

(Visit 10) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIBER

Exposures

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<td>E140H</td>
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<td>QESIPARM TARG</td>
<td>TYPE HITM2</td>
<td>700 Secs X 2 (1400 Secs)</td>
<td>[1]</td>
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Comments: Preferable to schedule the FUV exposures in "low FUV glow" orbits, i.e., 1--2 orbits after FUV MAMA is turned on.

HITM2 lamp preferred.

Notes:

- \(o47x01010 : H-1307/1997-08-19/0.2X0.09/TEXP= 2X 600s / GCR= 2.379E+02 / bpix= 0.3 (422,257)\)
- \(o8gd3m6q : H-1307/2002-06-13/0.2X0.09/TEXP= 1X 600s / GCR= 1.628E+02 / bpix= 0.2 (262,932)\)

Orbit Structure

Unused Orbital Visibility = 3142

Exp. 1, copy 1

Exp. 1, copy 2

Home

Occultation

Server Version: 20191203
Proposal 15948 - Visit 11 - Make STIS Great Again!

Visit Description

- Proposal 15948, Visit 11, implementation
- Scientific Instruments: STIS/FUV-MAMA
- Comments: Preferable to schedule the FUV exposures in "low FUV glow" orbits, i.e., 1--2 orbits after FUV MAMA is turned on.

Diagnostics

- (Exposure 1 (Visit 11)) Error (Form): LAMP is not a valid selection
- (Exposure 1 (Visit 11)) Error (Form): Target NONE is no longer a valid selection
- (Exposure 1 (Visit 11)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP.
- (Exposure 1 (Visit 11)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP=HITM2.
- (Exposure 1 (Visit 11)) Error (Form): This attribute is not allowed to have this value: Calibration_Target = NONE
- It is an Available option and cannot normally be used in a GO proposal.
- (Visit 11) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

Exposures

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Comments: Preferable to schedule the FUV exposures in "low FUV glow" orbits, i.e., 1--2 orbits after FUV MAMA is turned on.
HITM2 lamp preferred.

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Orbit Structure

- Orbit 1
  - Exp. 1, copy 1
    - Exp. 1, copy 2
  - Home
  - Occultation

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Server Version: 20191203
Proposal 15948 - Visit 20 - Make STIS Great Again!

Visit
Proposal 15948, Visit 20, completed
Diagnostic Status: Error
Scientific Instruments: STIS/NUV-MAMA
Special Requirements: (none)

Diagnostics
(Exposure 1 (Visit 20)) Error (Form): LAMP is not a valid selection
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The combination of attributes chosen is illegal.
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The combination of attributes chosen is illegal.
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It is an Available option and cannot normally be used in a GO proposal.

Exposures
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Comments: o6ij05mgq : M-2124/2001-08-15/0.2X0.06/TEXP= 1X 159s / GCR= 2.467E+03 / bpix= 2.7 (459,50)  
o8gs22h3q : M-2124/2002-07-12/0.2X0.06/TEXP= 1X 140s / GCR= 2.151E+03 / bpix= 2.8 (457,50)  
obl602smq : M-2124/2010-11-17/0.2X0.06/TEXP= 1X 900s / GCR= 1.038E+04 / bpix= 2.5 (457,47)  

Orbit Structure

Server Version: 20191203
Proposal 15948 - Visit 21 - Make STIS Great Again!

Visit
Proposal 15948, Visit 21, completed
Diagnostic Status: Error
Scientific Instruments: STIS/NUV-MAMA
Special Requirements: (none)

Diagnostics
(Exposure 1 (Visit 21)) Error (Form): LAMP is not a valid selection
(Exposure 1 (Visit 21)) Error (Form): Target NONE is no longer a valid selection
(Exposure 1 (Visit 21)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP.
The combination of attributes chosen is illegal.
(Exposure 1 (Visit 21)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP=LINE.
The combination of attributes chosen is illegal.
(Exposure 1 (Visit 21)) Error (Form): This attribute is not allowed to have this value: Calibration_Target = NONE
It is an Available option and cannot normally be used in a GO proposal.
(Visit 21) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

Exposures

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Comments: o67w04juq : M-2269/2000-05-24/0.2X0.06/TEXP= 1X 109s / GCR= 2.900E+03 / bpix= 9.5 (711,52)
o8gs34gsq : M-2269/2002-07-26/0.2X0.06/TEXP= 1X 110s / GCR= 2.466E+03 / bpix= 6.3 (708,33)

Orbit Structure
### Proposal 15948 - Visit 22 - Make STIS Great Again!

#### Visit 22
- **Proposal:** 15948, Visit 22, completed
- **Diagnostic Status:** Error
- **Scientific Instruments:** STIS/NUV-MAMA
- **Special Requirements:** (none)

#### Diagnostics
1. **Error (Form):** LAMP is not a valid selection
2. **Error (Form):** Target NONE is no longer a valid selection
3. **Error (Form):** This attribute cannot have this value due to other choices: Optional_Parameter=LAMP. The combination of attributes chosen is illegal.
4. **Error (Form):** This attribute cannot have this value due to other choices: Optional_Parameter=LAMP=LINE. The combination of attributes chosen is illegal.
5. **Warning (Orbit Planner):** MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

#### Exposures

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**Comments:**
- o5j25vdq : M-2707/2000-08-12/0.2X0.06/TEXP= 1X 87s / GCR= 5.017E+03 / bpix= 9.9 (697,567)
- o69i04kiq : M-2707/2000-07-19/0.2X0.06/TEXP= 1X 87s / GCR= 4.985E+03 / bpix= 10.5 (740,543)
- o8va03hvq : M-2707/2001-02-05/0.2X0.06/TEXP= 1X 950s / GCR= 4.028E+03 / bpix= 8.6 (713,557)
- ob8804flq : M-2707/2009-08-20/0.2X0.06/TEXP= 1X 87s / GCR= 1.568E+04 / bpix= 9.0 (716,553)
- obnr03osq : M-2707/2010-11-16/0.2X0.06/TEXP= 1X 87s / GCR= 1.014E+04 / bpix= 8.3 (716,554)
- obv703ilq : M-2707/2011-10-18/0.2X0.06/TEXP= 1X 87s / GCR= 5.251E+03 / bpix= 8.1 (716,553)
- obw703lq : M-2707/2012-10-19/0.2X0.06/TEXP= 1X 87s / GCR= 3.867E+03 / bpix= 7.1 (715,554)
- ocge03e7q : M-2707/2013-10-28/0.2X0.06/TEXP= 1X 87s / GCR= 3.780E+03 / bpix= 6.8 (716,557)
- ocm803ebq : M-2707/2014-11-17/0.2X0.06/TEXP= 1X 87s / GCR= 3.737E+03 / bpix= 7.5 (716,553)
- od1b03p9q : M-2707/2015-11-03/0.2X0.06/TEXP= 1X 87s / GCR= 3.335E+03 / bpix= 7.0 (716,554)

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**Orbit Structure**
- **Server Version:** 20191203
- **Unused Orbital Visibility = 3142**
- **Exp. 1, copy 1**
- **Exp. 1, copy 2**
- **Home**
- **Occultation**
Proposal 15948 - Visit 30 - Make STIS Great Again!

## Visit
- **Proposal 15948, Visit 30, Implementation**
- **Diagnostic Status:** Error
- **Scientific Instruments:** STIS/NUV-MAMA
- **Special Requirements:** (none)

### Diagnostics
- **(Exposure 1 (Visit 30)) Error (Form):** LAMP is not a valid selection
- **(Exposure 1 (Visit 30)) Error (Form):** Target NONE is no longer a valid selection
- **(Exposure 1 (Visit 30)) Error (Form):** This attribute cannot have this value due to other choices: Optional_Parameter=LAMP. The combination of attributes chosen is illegal.
- **(Exposure 1 (Visit 30)) Error (Form):** This attribute cannot have this value due to other choices: Optional_Parameter=LAMP=LINE. The combination of attributes chosen is illegal.
- **(Exposure 1 (Visit 30)) Error (Form):** This attribute is not allowed to have this value: Calibration_Target = NONE It is an Available option and cannot normally be used in a GO proposal.
- **(Visit 30) Warning (Orbit Planner):** MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

### Exposures
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<td>QELOGSHEET MI NWave 1813</td>
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**Comments:**
- o4nr05kyq : H-1813/1998-02-17/01X0.09/TEXP= 2.14E+03 / GCR= 2.14 (428,157)
- o5j255siq : H-1813/2000-08-11/01X0.09/TEXP= 1.834E+03 / GCR= 2.3 (429,127)
- o69i05otq : H-1813/2000-07-20/01X0.09/TEXP= 1.517E+03 / GCR= 2.4 (427,183)

### Orbit Structure

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**Orbit 1**
- Unused Orbital Visibility = 3142
- ![Orbit Diagram](image)

**Server Version:** 20191203
Proposal 15948 - Visit 31 - Make STIS Great Again!

Visit
- Proposal 15948, Visit 31, implementation
- Diagnostic Status: Error
- Scientific Instruments: STIS/NUV-MAMA
- Special Requirements: (none)

Diagnostics
- (Exposure 1 (Visit 31)) Error (Form): LAMP is not a valid selection
- (Exposure 1 (Visit 31)) Error (Form): Target NONE is no longer a valid selection
- (Exposure 1 (Visit 31)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP. The combination of attributes chosen is illegal.
- (Exposure 1 (Visit 31)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP=LINE. The combination of attributes chosen is illegal.
- (Exposure 1 (Visit 31)) Error (Form): This attribute is not allowed to have this value: Calibration_Target = NONE. It is an Available option and cannot normally be used in a GO proposal.
- (Exposure 1 (Visit 31)) special requirements) Error (Form): Qelogsheet may not be specified in Supported mode or PC Only mode.

Exposures

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<td>LAMP=LINE QELOGSHEET MI NAVE 1863</td>
<td>550 Secs X 2 (1100 Secs)</td>
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Comments:
- o8gs26woq: H-1863/2002-07-17/0.1X0.09/TEXP= 1X 698s / GCR= 1.226E+03 / bpix= 1.5 (439,333)
- obl602spq: H-1863/2010-11-17/0.1X0.09/TEXP= 1X 900s / GCR= 1.004E+04 / bpix= 0.9 (441,325)

Orbit Structure

Server Version: 20191203
Proposal 15948 - Visit 32 - Make STIS Great Again!

Diagnostics

- Error (Form): LAMP is not a valid selection
- Error (Form): Target NONE is no longer a valid selection
- Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP.
  The combination of attributes chosen is illegal.
- Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP=LINE.
  The combination of attributes chosen is illegal.
- Error (Form): This attribute is not allowed to have this value: Calibration_Target = NONE
  It is an Available option and cannot normally be used in a GO proposal.
- Error (Form): Qelogsheet may not be specified in Supported mode or PC Only mode.

Visit

- Scientific Instruments: STIS/NUV-MAMA
- Special Requirements: (none)

Exposures

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<td>700 Secs X 2 (1400 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
</tbody>
</table>

Comments: o6ij06faq : H-1913/2001-08-14/0.1X0.09/TEXP= 1X1164s / GCR=  1.527E+03 / bpix=  1.8 (457,486) o8gs24htq : H-1913/2002-07-12/0.1X0.09/TEXP= 1X 578s / GCR=  1.520E+03 / bpix=  1.5 (458,519)
Proposal 15948 - Visit 40 - Make STIS Great Again!

Proposal 15948, Visit 40, implementation

Diagnostic Status: Error

Scientific Instruments: STIS/NUV-MAMA

Special Requirements: (none)

1. Exposure 1 (Visit 40) Error (Form): LAMP is not a valid selection
2. Exposure 1 (Visit 40) Error (Form): Target NONE is no longer a valid selection
3. Exposure 1 (Visit 40) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP. The combination of attributes chosen is illegal.
4. Exposure 1 (Visit 40) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP=LINE. The combination of attributes chosen is illegal.
5. Exposure 1 (Visit 40) Error (Form): This attribute is not allowed to have this value: Calibration_Target = NONE It is an Available option and cannot normally be used in a GO proposal.
6. (Visit 40) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

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<td>(STIS.sp.13 65733)</td>
<td>NONE</td>
<td>STIS/NUV-MAMA, ACCUM, 0.2X0.09</td>
<td>E230H</td>
<td>LAMP=LINE</td>
<td>QELOGSHEET M1 NWAVE 2013</td>
<td>600 Secs X 2 (1200 Secs)</td>
<td>[==&gt;(Copy 1)]</td>
<td>[==&gt;(Copy 2)]</td>
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Comments: o8gs33zxq : H-2013/2002-07-250.1X0.09/TEXP= 1X 423s / GCR= 1.662E+03 / bpix= 1.3 (501,884)
o8va06020 : H-2013/2004-03-18/0.1X0.09/TEXP= 2X 800s / GCR= 1.459E+03 / bpix= 1.2 (501,878)
o8806fwq : H-2013/2009-08-20/0.1X0.09/TEXP= 1X 500s / GCR= 1.403E+04 / bpix= 0.9 (502,878)
Proposal 15948 - Visit 41 - Make STIS Great Again!

**Visit**

Proposal 15948, Visit 41, implementation

Diagnostic Status: Error

Scientific Instruments: STIS/NUV-MAMA

Special Requirements: (none)

---

**Diagnostics**

(Exposure 1 (Visit 41)) Error (Form): LAMP is not a valid selection

(Exposure 1 (Visit 41)) Error (Form): Target NONE is no longer a valid selection

(Exposure 1 (Visit 41)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP.

The combination of attributes chosen is illegal.

(Exposure 1 (Visit 41)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP=LINE.

The combination of attributes chosen is illegal.

(Exposure 1 (Visit 41)) Error (Form): This attribute is not allowed to have this value: Calibration_Target = NONE

It is an Available option and cannot normally be used in a GO proposal.

(Exposure 1 (Visit 41) special requirements) Error (Form): Qelogsheet may not be specified in Supported mode or PC Only mode.

(Visit 41) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

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**Exposures**

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<td>NONE</td>
<td>STIS/NUV-MAMA, ACCUM, 0.2X0.09</td>
<td>E230H</td>
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<td>QELOGSHEET MI N WAVE 2762</td>
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<td>600 Secs X 2 (1200 Secs)</td>
<td></td>
</tr>
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Comments: o69i06g4q : H-2762/2000-07-18/0.1X0.09/TEXP= 1X 456s / GCR= 2.594E+03 / bpix= 11.2 (307,829)
o6ij05meq : H-2762/2001-08-15/0.1X0.09/TEXP= 1X 456s / GCR= 2.825E+03 / bpix= 10.2 (304,878)
o8gs31t3q : H-2762/2002-07-24/0.1X0.09/TEXP= 1X 457s / GCR= 2.326E+03 / bpix= 9.6 (306,853)

Orbit 1

Exp. 1, copy 1

Unsed Orbital Visibility = 3142

Exp. 1, copy 2

Home

Occultation

Server Version: 20191203
Proposal 15948 - Visit 42 - Make STIS Great Again!

**Diagnostic Status:** Error

**Scientific Instruments:** STIS/NUV-MAMA

**Special Requirements:** (none)

**Diagnostics**

- (Exposure 1 (Visit 42)) Error (Form): LAMP is not a valid selection
- (Exposure 1 (Visit 42)) Error (Form): Target NONE is no longer a valid selection
- (Exposure 1 (Visit 42)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP. The combination of attributes chosen is illegal.
- (Exposure 1 (Visit 42)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP=LINE. The combination of attributes chosen is illegal.
- (Exposure 1 (Visit 42)) Error (Form): This attribute is not allowed to have this value: Calibration_Target = NONE. It is an Available option and cannot normally be used in a GO proposal.
- (Visit 42) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

**Exposures**

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<td>STIS.sp.13 65735</td>
<td>NONE</td>
<td>STIS/NUV-MAMA, ACCUM, 0.2X0.09</td>
<td>E230H</td>
<td>LAMP=LINE</td>
<td>QELOGSHEET MI NWAVE 2263</td>
<td></td>
<td>800 Secs X 2 (1600 Secs)</td>
<td></td>
</tr>
</tbody>
</table>
### Proposal 15948 - Visit 43 - Make STIS Great Again!

**Diagnostic Status:** Error

**Scientific Instruments:** STIS/NUV-MAMA

**Special Requirements:** (none)

**Comments:** Requires sql to increase alignment time (see exp 2).

#### Diagnostics

(Exposure 1 (Visit 43)) Error (Form): LAMP is not a valid selection

(Exposure 1 (Visit 43)) Error (Form): Target NONE is no longer a valid selection

(Exposure 1 (Visit 43)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP.

The combination of attributes chosen is illegal.

(Exposure 1 (Visit 43)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP=LINE.

The combination of attributes chosen is illegal.

(Exposure 1 (Visit 43)) Error (Form): This attribute is not allowed to have this value: Calibration_Target = NONE

It is an Available option and cannot normally be used in a GO proposal.

(Exposure 1 (Visit 43) special requirements) Error (Form): Qelogsheet may not be specified in Supported mode or PC Only mode.

(Exposure 1 (Visit 43) special requirements) Error (Form): Qesiparms may not be specified in Supported mode or PC Only mode.

(Exposure 2 (Visit 43)) Error (Form): LAMP is not a valid selection

(Exposure 2 (Visit 43)) Error (Form): Target NONE is no longer a valid selection

(Exposure 2 (Visit 43)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP.

The combination of attributes chosen is illegal.

(Exposure 2 (Visit 43)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP=LINE.

The combination of attributes chosen is illegal.

(Exposure 2 (Visit 43)) Error (Form): This attribute is not allowed to have this value: Calibration_Target = NONE

It is an Available option and cannot normally be used in a GO proposal.

(Exposure 2 (Visit 43) special requirements) Error (Form): Qelogsheet may not be specified in Supported mode or PC Only mode.

(Exposure 2 (Visit 43) special requirements) Error (Form): Qesiparms may not be specified in Supported mode or PC Only mode.

#### Exposures

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<td>(STIS.sp.13 65741)</td>
<td>NONE</td>
<td>STIS/NUV-MAMA, ACCUM, 0.2X0.09</td>
<td>E230H</td>
<td>LAMP=LINE</td>
<td>QESIPARM MSMTI ME 90; QELOGSHEET MI NWAVE 2313</td>
<td></td>
<td>300 Secs (300 Secs)</td>
<td>[I]</td>
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</table>

Comments: o8gs32trq : H-2313/2002-07-24/0.1X0.09/TEXP= 1X 457s / GCR= 1.529E+03 / bpix= 1.3 (546,1007)

obh603xjq : H-2313/2010-11-17/0.1X0.09/TEXP= 1X1100s / GCR= 6.149E+03 / bpix= 1.1 (545,1007)

| 2 | (STIS.sp.13 65743) | NONE | STIS/NUV-MAMA, ACCUM, 0.2X0.09 | E230H | LAMP=LINE | QESIPARM MSMTI ME 130; QELOGSHEET MI NWAVE 2563 | | 250 Secs (250 Secs) | [I] |

Comments: o8gs23g4q : H-2563/2002-07-12/0.1X0.09/TEXP= 1X 662s / GCR= 1.777E+03 / bpix= 10.2 (229,145)

obh603xmq : H-2563/2010-11-17/0.1X0.09/TEXP= 1X1150s / GCR= 6.906E+03 / bpix= 7.8 (230,143)

Requires sql to add 131 secs to alignment time (130s from qesiparm, 1 sec for instruction)
Proposal 15948 - Visit 43 - Make STIS Great Again!
Proposal 15948 - Visit 44 - Make STIS Great Again!

Visit
Scientific Instruments: STIS/NUV-MAMA
Special Requirements: (none)

Diagnostics
(Exposure 1 (Visit 44)) Error (Form): LAMP is not a valid selection
(Exposure 1 (Visit 44)) Error (Form): Target NONE is no longer a valid selection
(Exposure 1 (Visit 44)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP.
The combination of attributes chosen is illegal.
(Exposure 1 (Visit 44)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP=LINE.
The combination of attributes chosen is illegal.
(Exposure 1 (Visit 44)) Error (Form): This attribute is not allowed to have this value: Calibration_Target = NONE
It is an Available option and cannot normally be used in a GO proposal.
(Exposure 1 (Visit 44) special requirements) Error (Form): Qelogsheet may not be specified in Supported mode or PC Only mode.

Exposures

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<td>STIS/NUV-MAMA, ACCUM, 0.2X0.09</td>
<td>E230H 2363 A</td>
<td>LAMP=LINE QELOGSHEET MI N wave 2513</td>
<td></td>
<td>450 Secs X 2 (900 Secs)</td>
<td>[1]</td>
<td></td>
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</table>

Comments: o8gs17sfq : H-2513/2002-06-16/0.1X0.09/TEXP= 1X 872s / GCR= 1.679E+03 / bpix= 3.7 (651,105) oo8904bgq : H-2513/2009-08-13/0.1X0.09/TEXP= 1X 872s / GCR= 1.004E+04 / bpix= 3.3 (265,3)

Orbit Structure

Server Version: 20191203

17
Proposal 15948 - Visit 50 - Make STIS Great Again!

Visit
Proposal 15948, Visit 50, implementation
Diagnostic Status: Error
Scientific Instruments: STIS/NUV-MAMA
Special Requirements: (none)

Diagnostics
(Exposure 1 (Visit 50)) Error (Form): LAMP is not a valid selection
(Exposure 1 (Visit 50)) Error (Form): Target NONE is no longer a valid selection
(Exposure 1 (Visit 50)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP. The combination of attributes chosen is illegal.
(Exposure 1 (Visit 50)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP=LINE. The combination of attributes chosen is illegal.
(Exposure 1 (Visit 50)) Error (Form): This attribute is not allowed to have this value: Calibration_Target = NONE It is an Available option and cannot normally be used in a GO proposal.
(Exposure 1 (Visit 50) special requirements) Error (Form): Qelogsheet may not be specified in Supported mode or PC Only mode.

Exposures

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<td>NONE</td>
<td>STIS/NUV-MAMA, ACCUM, 0.2X0.09</td>
<td>E230H</td>
<td>LAMP=LINE</td>
<td>QELOGSHEET MI NAVE 2663</td>
<td>550 Secs X 2 (1100 Secs)</td>
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</table>

Comments: o6ij12hlq : H-2663/2001-08-11/0.1X0.09/TEXP= 1X 743s / GCR= 2.848E+03 / bpix= 10.9 (261,529)
o8gs21h0q : H-2663/2002-07-12/0.1X0.09/TEXP= 1X 564s / GCR= 2.159E+03 / bpix= 9.6 (264,499)

Orbit Structure

Server Version: 20191203

Proposal 15948, Visit 50, implementation
**Proposal 15948 - Visit 51 - Make STIS Great Again!**

**Visit**

- Proposal 15948, Visit 51, implementation
- Diagnostic Status: Error
- Scientific Instruments: STIS/NUV-MAMA
- Special Requirements: (none)

**Diagnostics**

- (Exposure 1 (Visit 51)) Error (Form): LAMP is not a valid selection
- (Exposure 1 (Visit 51)) Error (Form): Target NONE is no longer a valid selection
- (Exposure 1 (Visit 51)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP.
  The combination of attributes chosen is illegal.
- (Exposure 1 (Visit 51)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP=LINE.
  The combination of attributes chosen is illegal.
- (Exposure 1 (Visit 51)) Error (Form): This attribute is not allowed to have this value: Calibration_Target = NONE
  It is an Available option and cannot normally be used in a GO proposal.
- (Visit 51) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

**Exposures**

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<td>STIS/NUV-MAMA, ACCUM, 0.2X0.09</td>
<td>E230H</td>
<td>LAMP=LINE</td>
<td>QELOGSHEET M1 NWAVE 3012</td>
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<td>600 Secs X 2 (1200 Secs)</td>
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**Orbit Structure**

- Orbit 1
  - Exp. 1, copy 1
  - Unused Orbital Visibility = 3142
  - Exp. 1, copy 2
  - Home
  - Occultation

*Comments: o8va05010 : H-3012/2004-04-12/0.1X0.09/TEXP= 4X 900s / GCR= 1.966E+03 / bpix= 6.1 (577,341)*

*Server Version: 20191203*
### Proposal 15948 - Visit 60 - Make STIS Great Again!

**Visit**
- Proposal 15948, Visit 60, implementation
- Diagnostic Status: Error
- Scientific Instruments: STIS/NUV-MAMA
- Special Requirements: (none)

**Diagnostics**
1. **Error (Form):** LAMP is not a valid selection
2. **Error (Form):** Target NONE is no longer a valid selection
3. **Error (Form):** This attribute cannot have this value due to other choices: Optional_Parameter=LAMP.
   The combination of attributes chosen is illegal.
4. **Error (Form):** This attribute cannot have this value due to other choices: Optional_Parameter=LAMP=LINE.
   The combination of attributes chosen is illegal.
5. **Error (Form):** This attribute is not allowed to have this value: Calibration_Target = NONE
   It is an Available option and cannot normally be used in a GO proposal.
6. **Error (Form):** Qelogsheet may not be specified in Supported mode or PC Only mode.

**Exposures**

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<td>NONE</td>
<td>STIS/NUV-MAMA, ACCUM, 0.2X0.09</td>
<td>E230H</td>
<td>LAMP=LINE</td>
<td>QELOGSHEET MI N WAVE 2363</td>
<td>550 Secs X 2 (1100 Secs)</td>
<td><img src="image.png" alt="image" /></td>
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- Comments: o67w03jg : H-2363/2000-05-24/0.1X0.09/TEXP= 1X 381s / GCR= 1.574E+03 / bpix= 3.6 (156,47)
o67w03jgq : H-2363/2000-05-24/0.2X0.09/TEXP= 1X 229s / GCR= 1.857E+03 / bpix= 3.0 (166,49)
o8gs18t6q : H-2363/2002-06-16/0.1X0.09/TEXP= 1X 344s / GCR= 1.658E+03 / bpix= 2.5 (150.26)

**Orbit Structure**
- Orbit 1
  - Exp. 1, copy 1
  - Unused Orbital Visibility = 3142
  - Exp. 1, copy 2
  - Home
  - Occultation

**Server Version:** 20191203
Proposal 15948 - Visit 61 - Make STIS Great Again!

Visit
Proposal 15948, Visit 61, implementation
Diagnostic Status: Error
Scientific Instruments: STIS/NUV-MAMA
Special Requirements: (none)

Diagnostics
(Exposure 1 (Visit 61)) Error (Form): LAMP is not a valid selection
(Exposure 1 (Visit 61)) Error (Form): Target NONE is no longer a valid selection
(Exposure 1 (Visit 61)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP.
The combination of attributes chosen is illegal.
(Exposure 1 (Visit 61)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP=LINE.
The combination of attributes chosen is illegal.
(Exposure 1 (Visit 61)) Error (Form): This attribute is not allowed to have this value: Calibration_Target = NONE
It is an Available option and cannot normally be used in a GO proposal.
(Exposure 1 (Visit 61) special requirements) Error (Form): Qelogsheet may not be specified in Supported mode or PC Only mode.

Exposures

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<td>(STIS.sp.13 65749)</td>
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<td>STIS/NUV-MAMA, ACCUM, 0.2X0.09</td>
<td>E230H</td>
<td>LAMP=LINE</td>
<td>QEOLOGSHEET MI NWAVE 2413</td>
<td>550 Secs X 2 (1100 Secs)</td>
<td><img src="image.png" alt="Orbit 1" /></td>
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Comments: o6ij07jdq : H-2413/2001-08-14/0.1X0.09/TEXP= 1X 457s / GCR= 2.396E+03 / bpix= 3.6 (144,206) o8gs16daq : H-2413/2002-07-02/0.1X0.09/TEXP= 1X 873s / GCR= 1.331E+03 / bpix= 3.1 (157,213)
Proposal 15948 - Visit 62 - Make STIS Great Again!

Diagnostics

- Proposal 15948, Visit 62, implementation
- Scientific Instruments: STIS/NUV-MAMA
- Special Requirements: (none)
- Comments: Requires sql to increase alignment time (see exp 2).

Exposures

- Exposure 1 (Visit 62) Error (Form): LAMP is not a valid selection
- Exposure 1 (Visit 62) Error (Form): Target NONE is no longer a valid selection
- Exposure 1 (Visit 62) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP.
- Exposure 1 (Visit 62) Error (Form): The combination of attributes chosen is illegal.
- Exposure 1 (Visit 62) Error (Form): This attribute is not allowed to have this value: Calibration_Target = NONE
- Exposure 1 (Visit 62) special requirements Error (Form): Qelogsheet may not be specified in Supported mode or PC Only mode.
- Exposure 1 (Visit 62) special requirements Error (Form): Qesiparms may not be specified in Supported mode or PC Only mode.
- Exposure 2 (Visit 62) Error (Form): LAMP is not a valid selection
- Exposure 2 (Visit 62) Error (Form): Target NONE is no longer a valid selection
- Exposure 2 (Visit 62) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP.
- Exposure 2 (Visit 62) Error (Form): The combination of attributes chosen is illegal.
- Exposure 2 (Visit 62) Error (Form): This attribute is not allowed to have this value: Calibration_TARGET = NONE
- Exposure 2 (Visit 62) special requirements Error (Form): Qelogsheet may not be specified in Supported mode or PC Only mode.
- Exposure 2 (Visit 62) special requirements Error (Form): Qesiparms may not be specified in Supported mode or PC Only mode.

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<td>STIS/NUV-MAMA, ACCUM, 0.2X0.09</td>
<td>E230H 2363 A</td>
<td>LAMP=LINE</td>
<td>QESIPARM MSMTI ME 90; QELOGSHEET MI Nwave 2463</td>
<td>500 Secs (500 Secs)</td>
<td>[1]</td>
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<td>2</td>
<td>STIS.sp.13 65754</td>
<td>NONE</td>
<td>STIS/NUV-MAMA, ACCUM, 0.2X0.09</td>
<td>E230H 2363 A</td>
<td>LAMP=LINE</td>
<td>QESIPARM MSMTI ME 130; QELOGSHEET MI Nwave 2812</td>
<td>500 Secs (500 Secs)</td>
<td>[1]</td>
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Comments:
- o8gs30ugq : H-2812/2002-07-14/0.1X0.09/TEXP=1X 890s / GCR= 2289E+03 / bpix= 5.6 (695,417)
- obh03xq : H-2812/2010-11-17/0.1X0.09/TEXP=1X1000s / GCR= 7.638E+03 / bpix= 3.9 (695,412)
- Requires sql to add 131 secs to alignment time (130s from qesiparm, 1 sec for instruction)
Proposal 15948 - Visit 63 - Make STIS Great Again!

**Visit**

Proposal 15948, Visit 63, implementation

Diagnostic Status: Error

Scientific Instruments: STIS/NUV-MAMA

Special Requirements: (none)

**Diagnostics**

(Exposure 1 (Visit 63)) Error (Form): LAMP is not a valid selection

(Exposure 1 (Visit 63)) Error (Form): Target NONE is no longer a valid selection

(Exposure 1 (Visit 63)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP.

The combination of attributes chosen is illegal.

(Exposure 1 (Visit 63)) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LAMP=LINE.

The combination of attributes chosen is illegal.

(Exposure 1 (Visit 63)) Error (Form): This attribute is not allowed to have this value: Calibration_Target = NONE

It is an Available option and cannot normally be used in a GO proposal.

(Exposure 1 (Visit 63) special requirements) Error (Form): Qelogsheet may not be specified in Supported mode or PC Only mode.

**Exposures**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1</td>
<td>(STIS.sp.13 65756)</td>
<td>NONE</td>
<td>STIS/NUV-MAMA, ACCUM, 0.2X0.09</td>
<td>E230H</td>
<td>LAMP=LINE</td>
<td>QELOGSHEET MI N Wave 2862</td>
<td></td>
<td>550 Secs X 2 (1100 Secs)</td>
<td>[1]</td>
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</tbody>
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Comments: o6ij11fmq: H-2862/2001-08-06/0.1X0.09/TEXP= 1X 732s / GCR= 2.671E+03 / bpix= 5.4 (712,646) o8gs29piq: H-2862/2002-07-13/1X0.09/TEXP= 1X 476s / GCR= 2.204E+03 / bpix= 4.9 (715,623)

**Orbit Structure**

Orbit 1

Unosed Orbital Visibility = 3142

Exp. 1, copy 1

Exp. 1, copy 2

Home

Occultation

Server Version: 20191203

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