12694 - IR Persistence 19

Cycle: 19, Proposal Category: CAL/WFC3
(Availability Mode: RESTRICTED)

INVESTIGATORS

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>E-Mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Knox S. Long (PI)</td>
<td>Space Telescope Science Institute</td>
<td><a href="mailto:long@stsci.edu">long@stsci.edu</a></td>
</tr>
<tr>
<td>Dr. Adam Riess  (CoI)</td>
<td>Space Telescope Science Institute</td>
<td><a href="mailto:ariess@stsci.edu">ariess@stsci.edu</a></td>
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VISITS

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<tr>
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<th>Targets used in Visit</th>
<th>Configurations used in Visit</th>
<th>Orbits Used</th>
<th>Last Orbit Planner Run</th>
<th>OP Current with Visit?</th>
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Proposal 12694 (STScI Edit Number: 2, Created: Tuesday, January 24, 2012 9:08:19 PM EST) - Overview
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75 Total Orbits Used

ABSTRACT
Persistence in the IR detector on WFC3 is known to be a function both of the degree to which pixels are saturated and the time that they are held at a high saturation level. This is a program to use observations of fields in Omega Cen to quantify how time at saturation affects persistence in WFC3.

OBSERVING DESCRIPTION
This program observes 3 positions in Omega Cen

Most visits consist of a dark, an undithered observation of Omega Cen, and a series of darks afterward.

The pre-observation dark is to establish the background level prior to the Omega Cen observation. The observations of Omega Cen consists of 1 or more identical exposures of the field, and the post observation darks are used to measure the persistence.

Aside from position, the only difference in the observations is the number of identical exposures of Omega Cen that are taken. These range from 1 to 6. The intent is for a star of the same brightness to have the same nominal peak counts in all of the visits. However, we expect the persistence to be greater (and possible to last longer) in those cases where the exposure is repeated multiple times.

Three of the visits begin with UVIS exposures. This is to map the distortion of the UVIS filter in the F547M and F673N filters. This is in lieu of having to schedule additional external orbits to accomplish this objective.

Note that we are obtaining darks sufficiently long after the IR exposures that we should not need to schedule these visits as bad actors.
Visit 12694, Visit 11, scheduling

- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR, WFC3/UVIS
- Special Requirements: (none)

Comments: This is a test of persistence using Omega Cen as the source. A considerable portion of the image will be overexposed, but persistence should have disappeared by the

The visit also contains UVIS observations of F647M to map field distortion

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<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
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Proposal 12694 - Visit 13 - IR Persistence 19

Visit

Proposal 12694, Visit 13, scheduling
Diagnostic Status: Warning
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Comments: This is a test of persistence using Omega Cen as the source. A considerable portion of the image will be overexposed. IR observations should be inhibited for at least one orbit after the end of this visit, including the darks.

Diagnostics

(Visit 13) Warning (Orbit Planner): GAP IN NON-INT SEQUENCE DUE TO ORBIT-NUMBER

Fixed Targets

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<th>Name</th>
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<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
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<tr>
<td>(1)</td>
<td>OMEGACEN-1</td>
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<td>V=18 +/- 0.01</td>
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Wed Jan 25 02:08:22 GMT 2012
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Proposal 12694 - Visit 13 - IR Persistence 19
Comments: This is a test of persistence using Omega Cen as the source. A considerable portion of the image will be overexposed. IR observations should be inhibited for at least one orbit after the end of this visit, including the darks.

(Diagnostic Status: Warning)

(Warnin (Orbit Planner): GAP IN NON-INT SEQUENCE DUE TO ORBIT-NUMBER

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<th>Name</th>
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<th>Targ. Coord. Corrections</th>
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Proposal 12694, Visit 22, scheduling

Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR, WFC3/UVIS
Special Requirements: (none)

Comments: This is a test of persistence using Omega Cen as the source. A considerable portion of the image will be overexposed. IR observations should be inhibited for at least one orbit after the end of this visit, including the darks.

This visit begins with UVIS observations with the F673N filter to map field distortions.

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<td>NSAMP=15; SAMP-SEQ=STEP2 5</td>
<td>Sequence 4-8 Non-Inst in Visit 22</td>
</tr>
<tr>
<td>7</td>
<td>DARK</td>
<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td>BLANK</td>
<td>SAMP-SEQ=SPARS 25; NSAMP=15</td>
<td>Sequence 4-8 Non-Inst in Visit 22</td>
</tr>
<tr>
<td>8</td>
<td>DARK</td>
<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td>BLANK</td>
<td>SAMP-SEQ=SPARS 50; NSAMP=15</td>
<td>Sequence 4-8 Non-Inst in Visit 22</td>
</tr>
</tbody>
</table>
Visit 24, scheduling

Diagnostic Status: Warning
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Comments: This is a test of persistence using Omega Cen as the source. A considerable portion of the image will be overexposed. IR observations should be inhibited for at least one orbit after the end of this visit, including the darks.

(Visit 24) Warning (Orbit Planner): GAP IN NON-INT SEQUENCE DUE TO ORBIT-NUMBER

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Target Coordinates</th>
<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
</tr>
</thead>
<tbody>
<tr>
<td>(2)</td>
<td>OMEGACEN-2</td>
<td>RA: 13 26 48.6000 (201.7025000d) Dec: -47 29 4.84 (-47.48468d) Equinox: J2000</td>
<td>V=18 +/-0.1</td>
<td></td>
<td>Reference Frame: ICRS</td>
</tr>
<tr>
<td>----</td>
<td>---------</td>
<td>-------------------------</td>
<td>------------------------</td>
<td>---------------</td>
<td>----------------------------------</td>
</tr>
</tbody>
</table>
| 1  | DARK    | WFC3/IR, MULTIACCUM, IR-FIX | BLANK                 | SAMP-SEQ=SPARS 50;  
NSAMP=7          |                                  |               | Sequence 1-5 Non-In t in Visit 24 | [==>]                  | [1]   |
| 2  | (2) OMEGACEN-2 | WFC3/IR, MULTIACCUM, IR-FIX | F125W                | SAMP-SEQ=STEP5 0;  
NSAMP=12        |                                  |               | Sequence 1-5 Non-In t in Visit 24 | [==>(Copy 1)]  
[==>(Copy 2)]  
[==>(Copy 3)]  
[==>(Copy 4)]  | [1]   |
| 3  | DARK    | WFC3/IR, MULTIACCUM, IR-FIX | BLANK                 | NSAMP=15;  
SAMP-SEQ=STEP2 5 |                                  |               | Sequence 1-5 Non-In t in Visit 24 | [==>]                  | [1]   |
| 4  | DARK    | WFC3/IR, MULTIACCUM, IR-FIX | BLANK                 | SAMP-SEQ=SPARS 25;  
NSAMP=15        |                                  |               | Sequence 1-5 Non-In t in Visit 24 | [==>(Copy 1)]  
[==>(Copy 2)]  
[==>(Copy 3)]  
[==>(Copy 4)]  
[==>(Copy 5)]  
[==>(Copy 6)]  
[==>(Copy 7)]  
[==>(Copy 8)]  
[==>(Copy 9)]  
[==>(Copy 10)]  
[==>(Copy 11)]  
[==>(Copy 12)]  
[==>(Copy 13)]  
[==>(Copy 14)]  
[==>(Copy 15)]  | [1]   |
| 5  | DARK    | WFC3/IR, MULTIACCUM, IR-FIX | BLANK                 | SAMP-SEQ=SPARS 50;  
NSAMP=15        |                                  |               | Sequence 1-5 Non-In t in Visit 24 | [==>(Copy 1)]  
[==>(Copy 2)]  
[==>(Copy 3)]  
[==>(Copy 4)]  
[==>(Copy 5)]  
[==>(Copy 6)]  
[==>(Copy 7)]  
[==>(Copy 8)]  
[==>(Copy 9)]  
[==>(Copy 10)]  | [2]   |
|    |         |                         |                        |               |                                  |               |                            |                        | [3]   |
### Proposal 12694 - Visit 26 - IR Persistence 19

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Target Coordinates</th>
<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
</tr>
</thead>
</table>
| (2)| OMEGACEN-2 | RA: 13 26 48.6000 (201.7025000d)  
Dec: -47 29 4.84 (-47.48468d)  
Equinox: J2000 | V=18+/-0.1 | Reference Frame: ICRS |
The table contains information about exposures for Proposal 12694 - Visit 26 - IR Persistence 19. Each row represents an individual exposure with details such as the label, target, configuration, spectral elements, optical parameters, special requirements, groups, and exposure time with actual duration.

### Exposures

<table>
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<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DARK</td>
<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td>BLANK</td>
<td>SAMP-SEQ=SPARS 50; NSAMP=7</td>
<td>Sequence 1-6 Non-In t in Visit 26</td>
<td>[==&gt;]</td>
<td>[1]</td>
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<td></td>
</tr>
<tr>
<td>2</td>
<td>(2) OMEGACEN-2</td>
<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td>F125W</td>
<td>SAMP-SEQ=STEP5 0; NSAMP=12</td>
<td>Sequence 1-6 Non-In t in Visit 26</td>
<td>[==&gt;(Copy 1)] [==&gt;(Copy 2)] [==&gt;(Copy 3)] [==&gt;(Copy 4)] [==&gt;(Copy 5)] [==&gt;(Copy 6)]</td>
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<td>3</td>
<td>DARK</td>
<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td>BLANK</td>
<td>NSAMP=15; SAMP-SEQ=STEP2 5</td>
<td>Sequence 1-6 Non-In t in Visit 26</td>
<td>[==&gt;]</td>
<td>[1]</td>
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<td></td>
</tr>
<tr>
<td>4</td>
<td>DARK</td>
<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td>BLANK</td>
<td>SAMP-SEQ=SPARS 25; NSAMP=15</td>
<td>Sequence 1-6 Non-In t in Visit 26</td>
<td>[==&gt;(Copy 1)] [==&gt;(Copy 2)] [==&gt;(Copy 3)] [==&gt;(Copy 4)] [==&gt;(Copy 5)] [==&gt;(Copy 6)] [==&gt;(Copy 7)] [==&gt;(Copy 8)] [==&gt;(Copy 9)] [==&gt;(Copy 10)] [==&gt;(Copy 11)] [==&gt;(Copy 12)] [==&gt;(Copy 13)] [==&gt;(Copy 14)] [==&gt;(Copy 15)]</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>DARK</td>
<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td>BLANK</td>
<td>SAMP-SEQ=SPARS 50; NSAMP=15</td>
<td>Sequence 1-6 Non-In t in Visit 26</td>
<td>[==&gt;(Copy 1)] [==&gt;(Copy 2)] [==&gt;(Copy 3)] [==&gt;(Copy 4)] [==&gt;(Copy 5)] [==&gt;(Copy 6)] [==&gt;(Copy 7)] [==&gt;(Copy 8)]</td>
<td>[2]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>DARK</td>
<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td>BLANK</td>
<td>SAMP-SEQ=SPARS 50; NSAMP=14</td>
<td>Sequence 1-6 Non-In t in Visit 26</td>
<td>[==&gt;]</td>
<td>[3]</td>
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<td></td>
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</table>
### Proposal 12694 - Visit 31 - IR Persistence 19

**Visit**
- Proposal 12694, Visit 31, scheduling
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR, WFC3/UVIS
- Special Requirements: (none)
- Comments: This is a test of persistence using Omega Cen as the source. A considerable portion of the image will be overexposed. IR observations should be inhibited for at least one orbit after the end of this visit, including the darks.

This visit begins with UVIS observations with F467M to measure field distortion through this filter.

### Fixed Targets

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Target Coordinates</th>
<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>OMEGacen-1</td>
<td>RA: 13 26 46.2800 (201.6928333d) Dec: -47 28 44.60 (-47.47906d) Equinox: J2000</td>
<td></td>
<td>V=18(+/-)0.01</td>
<td>Reference Frame: ICRS</td>
</tr>
<tr>
<td>(3)</td>
<td>OMEGacen-3</td>
<td>RA: 13 26 44.0900 (201.6837083d) Dec: -47 29 10.30 (-47.48619d) Equinox: J2000</td>
<td></td>
<td>V=18.0(+/-)0.1</td>
<td>Reference Frame: ICRS</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
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<td>---</td>
</tr>
<tr>
<td>1</td>
<td>(1) OMEGACEN-1</td>
<td>WFC3/UVIS, ACCUM, UVIS-FIX</td>
<td>F673N</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>(1) OMEGACEN-1</td>
<td>WFC3/UVIS, ACCUM, UVIS-FIX</td>
<td>F673N</td>
<td>POS TARG null,20</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>(1) OMEGACEN-1</td>
<td>WFC3/UVIS, ACCUM, UVIS-FIX</td>
<td>F673N</td>
<td>POS TARG null,-20</td>
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</tr>
<tr>
<td>4</td>
<td>(1) OMEGACEN-1</td>
<td>WFC3/UVIS, ACCUM, UVIS-FIX</td>
<td>F606W</td>
<td></td>
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<tr>
<td>5</td>
<td>DARK</td>
<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td>BLANK</td>
<td>SAMP-SEQ=SPARS 50; NSAMP=8</td>
<td>Sequence 5-9 Non-Int in Visit 31</td>
</tr>
<tr>
<td>6</td>
<td>(3) OMEGACEN-3</td>
<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td>F125W</td>
<td>SAMP-SEQ=STEP5 0; NSAMP=12</td>
<td>Sequence 5-9 Non-Int in Visit 31</td>
</tr>
<tr>
<td>7</td>
<td>DARK</td>
<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td>BLANK</td>
<td>NSAMP=15; SAMP-SEQ=STEP2 5</td>
<td>Sequence 5-9 Non-Int in Visit 31</td>
</tr>
<tr>
<td>8</td>
<td>DARK</td>
<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td>BLANK</td>
<td>SAMP-SEQ=SPARS 25; NSAMP=15</td>
<td>Sequence 5-9 Non-Int in Visit 31</td>
</tr>
<tr>
<td>9</td>
<td>DARK</td>
<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td>BLANK</td>
<td>SAMP-SEQ=SPARS 50; NSAMP=15</td>
<td>Sequence 5-9 Non-Int in Visit 31</td>
</tr>
</tbody>
</table>

Exposures

Proposal 12694 - Visit 31 - IR Persistence 19
Proposal 12694 - Visit 33 - IR Persistence 19

**Visit**

- Proposal 12694, Visit 33, scheduling
- Diagnostic Status: Warning
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)
- Comments: This is a test of persistence using Omega Cen as the source. A considerable portion of the image will be overexposed. IR observations should be inhibited for at least one orbit after the end of this visit, including the darks.

**Diagnostics**

(Visit 33) Warning (Orbit Planner): GAP IN NON-INT SEQUENCE DUE TO ORBIT-NUMBER

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Target Coordinates</th>
<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
</tr>
</thead>
<tbody>
<tr>
<td>(3)</td>
<td>OMEGACEN-3</td>
<td>RA: 13 26 44.0900 (201.6837083d)</td>
<td></td>
<td>V=18.0+/-0.1</td>
<td>Reference Frame: ICRS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dec: -47 29 10.30 (-47.48619d)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Equinox: J2000</td>
<td></td>
<td></td>
<td></td>
</tr>
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</tr>
<tr>
<td>1</td>
<td>DARK</td>
<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td>BLANK</td>
<td></td>
<td>SAMP-SEQ=SPARS 50; NSAMP=7</td>
</tr>
<tr>
<td>2</td>
<td>(3) OMEGACEN-3</td>
<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td>F125W</td>
<td></td>
<td>SAMP-SEQ=STEP5 0; NSAMP=12</td>
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<tr>
<td>3</td>
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<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td>BLANK</td>
<td></td>
<td>NSAMP=15; SAMP-SEQ=STEP2 5</td>
</tr>
<tr>
<td>4</td>
<td>DARK</td>
<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td>BLANK</td>
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</table>

Proposal 12694 - Visit 33 - IR Persistence 19
**Proposal 12694 - Visit 35 - IR Persistence 19**

<table>
<thead>
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</thead>
<tbody>
<tr>
<td>Scientific Instruments: WFC3/IR</td>
</tr>
<tr>
<td>Special Requirements: (none)</td>
</tr>
</tbody>
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**Comments:** This is a test of persistence using Omega Cen as the source. A considerable portion of the image will be overexposed. IR observations should be inhibited for at least one orbit after the end of this visit, including the darks.

**Diagnostics**

(Visit 35) Warning (Orbit Planner): GAP IN NON-INT SEQUENCE DUE TO ORBIT-NUMBER

**Fixed Targets**

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Target Coordinates</th>
<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
</tr>
</thead>
<tbody>
<tr>
<td>(3)</td>
<td>OMEGACEN-3</td>
<td>RA: 13 26 44.0900 (201.6837083d)</td>
<td></td>
<td>V=18.0+/−0.1</td>
<td>Reference Frame: ICRS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dec: 47 29 10.30 (47.48619d)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Equinox: J2000</td>
<td></td>
<td></td>
<td></td>
</tr>
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<td>----</td>
<td>-------</td>
<td>--------------</td>
<td>----------------------</td>
<td>--------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>1</td>
<td>DARK</td>
<td>(3) OMEGACEN-3</td>
<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td></td>
<td>SAMP-SEQ=SPARS 50; NSAMP=7</td>
</tr>
<tr>
<td>2</td>
<td>DARK</td>
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<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
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<td>DARK</td>
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<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td></td>
<td>NSAMP=15; SAMP-SEQ=STEP2 5</td>
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<tr>
<td>4</td>
<td>DARK</td>
<td></td>
<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td></td>
<td>SAMP-SEQ=SPARS 25; NSAMP=15</td>
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<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
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<td>SAMP-SEQ=SPARS 50; NSAMP=15</td>
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</tbody>
</table>
Proposal 12694, Visit 51, implementation

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: These are a set of darks to be added to specific GO or calibration observations to test how well our persistence algorithms do in removing persistence from real data. Each visit is a two orbit sequence of darks

This should follow immediately after visit 1 of program 12602 which is an observations of M4 by PI Dieball

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<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td>BLANK</td>
<td>SAMP-SEQ=SPARS 25; NSAMP=15</td>
<td>Sequence 1-2 Non-Int in Visit 51</td>
<td>[1]</td>
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Orbit Structure

Orbit 1
- Exp. 1, copy 1
- Exp. 1, copy 2
- Exp. 1, copy 3
- Exp. 1, copy 4
- Exp. 1, copy 5
- Exp. 1, copy 6
- Exp. 1, copy 7
- Exp. 1, copy 8
- Exp. 1, copy 9
- Occultation
- Exp. 1, copy 10
- Exp. 2, copy 1
- Exp. 2, copy 2
- Exp. 2, copy 3

Unused Visibility = 3234

Server Version: 20111111
Orbit 2
Exp. 2, copy 3 (cont'd)

Unused Visibility = 3234

Exp. 2, copy 4 Exp. 2, copy 5 Exp. 2, copy 6 Exp. 2, copy 7

Exp. 2, copy 8

Occultation Exp. 2, copy 9 Exp. 2, copy 10

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

Server Version: 20111111
Proposal 12694 - Visit 52 - IR Persistence 19

Visit
Proposal 12694, Visit 52, implementation

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: These are a set of darks to be added to specific GO or calibarion observations to test how well our persistence algorithms do in removing persistence from real data. Each visit is a two orbit sequence of darks

This should follow immediately after Visit 2 of program 12602, which is an observation of M4 by PI Dieball

Diagnostics
(Visit 52) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

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</thead>
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<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td>BLANK</td>
<td>SAMP-SEQ=SPARS 25; NSAMP=15</td>
<td>Sequence 1-2 Non-Int in Visit 52</td>
<td>[==&gt;(Copy 1)] [==&gt;(Copy 2)] [==&gt;(Copy 3)] [==&gt;(Copy 4)] [==&gt;(Copy 5)] [==&gt;(Copy 6)] [==&gt;(Copy 7)] [==&gt;(Copy 8)] [==&gt;(Copy 9)] [==&gt;(Copy 10)]</td>
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<td></td>
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</tr>
<tr>
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<td>DARK</td>
<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td>BLANK</td>
<td>SAMP-SEQ=SPARS 50; NSAMP=15</td>
<td>Sequence 1-2 Non-Int in Visit 52</td>
<td>[==&gt;(Copy 1)] [==&gt;(Copy 2)] [==&gt;(Copy 3)] [==&gt;(Copy 4)] [==&gt;(Copy 5)] [==&gt;(Copy 6)] [==&gt;(Copy 7)] [==&gt;(Copy 8)] [==&gt;(Copy 9)] [==&gt;(Copy 10)]</td>
<td>[2]</td>
<td></td>
<td></td>
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</tbody>
</table>
Proposal 12694 - Visit 53 - IR Persistence 19

Visit
Proposal 12694, Visit 53, implementation
Diagnostic Status: Warning
Scientific Instruments: WFC3/IR
Special Requirements: (none)
Comments: These are a set of darks to be added to specific GO or calibration observations to test how well our persistence algorithms do in removing persistence from real data. Each visit is a two orbit sequence of darks.

This follows immediately after Visit 10 of program 12517 which is an observation of NGC6440 by PI Ferraro

Diagnostics
(Visit 53) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

Exposures

<table>
<thead>
<tr>
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<th></th>
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<td>DARK</td>
<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
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<td>SAMP-SEQ=SPARS 25; NSAMP=15</td>
<td>Sequence 1-2 Non-Intr in Visit 53</td>
<td></td>
<td>[1]</td>
<td></td>
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<tr>
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<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td>BLANK</td>
<td>SAMP-SEQ=SPARS 50; NSAMP=15</td>
<td>Sequence 1-2 Non-Intr in Visit 53</td>
<td></td>
<td>[1]</td>
<td></td>
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<td>[2]</td>
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</table>
### Proposal 12694 - Visit 54 - IR Persistence 19

**Diagnostics**

(Visit 54) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

**Visit**

Proposal 12694, Visit 54, implementation

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: These are a set of darks to be added to specific GO or calibration observations to test how well our persistence algorithms do in removing persistence from real data. Each visit is a two orbit sequence of darks.

This is to follow immediately after visit 3 of program 12581. The target is SK-68155 by PI Duval.

**Exposures**

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<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
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<td>SAMP-SEQ=SPARS 25;</td>
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<td>Sequence 1-2 Non-Int in Visit 54</td>
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<td>2</td>
<td>DARK</td>
<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
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Orbit 1

Exp. 1, copy 1

Unused Visibility = 3234

Exp. 1, copy 2

Exp. 1, copy 3

Exp. 1, copy 4

Exp. 1, copy 5

Exp. 1, copy 6

Exp. 1, copy 7

Exp. 1, copy 8

Exp. 1, copy 9

Occultation

Exp. 1, copy 10

Exp. 2, copy 1

Exp. 2, copy 2

Exp. 2, copy 3
Proposal 12694 - Visit 55 - IR Persistence 19

Visit
Proposal 12694, Visit 55, implementation
Diagnostic Status: Warning
Scientific Instruments: WFC3/IR
Special Requirements: (none)
Comments: These are a set of darks to be added to specific GO or calibration observations to test how well our persistence algorithms do in removing persistence from real data. Each visit is a two orbit sequence of darks.
This is to follow immediately after visit 6 of program 12581 - The target is HD269445 by Julia Duval

Diagnostics
(Visit 55) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

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<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td>BLANK</td>
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<td>Sequence 1-2 Non-In t in Visit 55</td>
<td>([1])</td>
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<td>SAMP-SEQ=SPARS 50; NSAMP=15</td>
<td>Sequence 1-2 Non-In t in Visit 55</td>
<td>([1])</td>
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Orbit 2
Unused Visibility = 3234

Exp. 2, copy 3 (cont'd)
Exp. 2, copy 4  Exp. 2, copy 5  Exp. 2, copy 6  Exp. 2, copy 7
Occultation  Exp. 2, copy 9  Exp. 2, copy 10

Server Version: 20111111
Proposal 12694 - Visit 56 - IR Persistence 19

Visit
Proposal 12694, Visit 56, implementation
Diagnostic Status: Warning
Scientific Instruments: WFC3/IR
Special Requirements: (none)
Comments: These are a set of darks to be added to specific GO or calibration observations to test how well our persistence algorithms do in removing persistence from real data. Each visit is a two-orbit sequence of darks.

This is to follow immediately after visit 7 of program 112581 - the target is AV456 by Julia Duval

Diagnostics
(Visit 56) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

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<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td>BLANK</td>
<td>SAMP-SEQ=SPARS</td>
<td>50;</td>
<td>NSAMP=15</td>
<td>Sequence 1-2 Non-Int in Visit 56</td>
<td>[1]</td>
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57
Orbit Structure

Orbit 1
Unused Visibility = 3234
Exp. 1, copy 1
  Exp. 1, copy 2
    Exp. 1, copy 3
      Exp. 1, copy 4
        Exp. 1, copy 5
          Exp. 1, copy 6
            Exp. 1, copy 7
              Exp. 1, copy 8
                Exp. 1, copy 9
                  Occultation
                    Exp. 1, copy 10
                      Exp. 2, copy 1
                        Exp. 2, copy 2
                          Exp. 2, copy 3

Server Version: 20111111
Orbit 2
Unused Visibility = 3234
Exp. 2, copy 3 (cont'd)

Exp. 2, copy 4  Exp. 2, copy 5  Exp. 2, copy 6  Exp. 2, copy 7  Exp. 2, copy 8  Occultation  Exp. 2, copy 9  Exp. 2, copy 10

Server Version: 20111111

0  500  1000  1500  2000  2500  3000  3500  4000  4500  5000  5500 sec
Proposal 12694 - Visit 57 - IR Persistence 19

Visit
Proposal 12694, Visit 57, implementation

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: These are a set of darks to be added to specific GO or calibration observations to test how well our persistence algorithms do in removing persistence from real data. Each visit is a two orbit sequence of darks.

This is to follow immediately after visit 17 of program 12181. That visit contains a target Corot-1 which scanned. Deming is the PI of that program.

Diagnostics

(Visit 57) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

Exposures

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<td>DARK</td>
<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
<td>BLANK</td>
<td>SAMP-SEQ=SPARS 25; NSAMP=15</td>
<td>Sequence 1-2 Non-Int in Visit 57</td>
<td>[1]</td>
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<td>DARK</td>
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<td>SAMP-SEQ=SPARS 50; NSAMP=15</td>
<td>Sequence 1-2 Non-Int in Visit 57</td>
<td>[2]</td>
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</table>
Orbit 1
Exp. 1, copy 1
Unused Visibility = 3234
Exp. 1, copy 2
Exp. 1, copy 3
Exp. 1, copy 4
Exp. 1, copy 5
Exp. 1, copy 6
Exp. 1, copy 7
Exp. 1, copy 8
Exp. 1, copy 9
Occultation
Exp. 1, copy 10
Exp. 2, copy 1
Exp. 2, copy 2
Exp. 2, copy 3
Orbit 2
Exp. 2, copy 3 (cont'd)

Unused Visibility = 3234

Exp. 2, copy 4  Exp. 2, copy 5  Exp. 2, copy 6  Exp. 2, copy 7  Exp. 2, copy 8

Occultation  Exp. 2, copy 9  Exp. 2, copy 10
Proposal 12694, Visit 58, implementation

**Diagnostics**

Visit 58 contains a very bright target Corot 1 which is scanned. The program PI is Deming.

### Exposures

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<td>SAMP-SEQ=SPARS 50; NSAMP=15</td>
<td>Sequence 1-2 Non-Int in Visit 58</td>
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</table>

(Visit 58) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
Orbit 1
Unused Visibility = 3234
Exp. 1, copy 1
  Exp. 1, copy 2
  Exp. 1, copy 3
  Exp. 1, copy 4
  Exp. 1, copy 5
  Exp. 1, copy 6
  Exp. 1, copy 7
  Exp. 1, copy 8
  Exp. 1, copy 9
  Occultation
    Exp. 1, copy 10
  Exp. 1, copy 1
  Exp. 2, copy 1
  Exp. 2, copy 2
  Exp. 2, copy 3

Server Version: 20111111
Visit 59 of Proposal 12694, IR Persistence 19

**Proposal 12694, Visit 59, scheduling**

**Diagnostics Status:** Warning

**Scientific Instruments:** WFC3/IR

**Special Requirements:** (none)

**Comments:** These are a set of darks to be added to specific GO or calibration observations to test how well our persistence algorithms do in removing persistence from real data. Each visit is a two orbit sequence of darks.

This is to follow immediately after visit 1 of program 12105. This is part of the M31 MCT program.

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<td>SAMP-SEQ=SPARS 50; NSAMP=15</td>
<td>Sequence 1-2 Non-Int in Visit 59</td>
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</table>
Orbit Structure

Orbit 1

Exp. 1, copy 1

Unused Visibility = 3234

Exp. 1, copy 2

Exp. 1, copy 3

Exp. 1, copy 4

Exp. 1, copy 5

Exp. 1, copy 6

Exp. 1, copy 7

Exp. 1, copy 8

Exp. 1, copy 9

Occultation

Exp. 1, copy 10

Exp. 2, copy 1

Exp. 2, copy 2

Exp. 2, copy 3
Orbit 2
Unused Visibility = 3234

Exp. 2, copy 3 (cont'd)

Exp. 2, copy 4  Exp. 2, copy 5  Exp. 2, copy 6  Exp. 2, copy 7

Exp. 2, copy 8

Occultation

Exp. 2, copy 9  Exp. 2, copy 10
Proposal 12694, Visit 60, scheduling  

Diagnostic Status: Warning  
Scientific Instruments: WFC3/IR  
Special Requirements: (none)  
Comments: These are a set of darks to be added to specific GO or calibration observations to test how well our persistence algorithms do in removing persistence from real data. Each visit is a two orbit sequence of darks.

This is to follow immediately after visit 3 of program 12105. This is part of the M31 MCT program.

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<td>Sequence 1-2 Non-In t in Visit 60</td>
<td>[==&gt;(Copy 1)] [==&gt;(Copy 2)] [==&gt;(Copy 3)] [==&gt;(Copy 4)] [==&gt;(Copy 5)] [==&gt;(Copy 6)] [==&gt;(Copy 7)] [==&gt;(Copy 8)] [==&gt;(Copy 9)] [==&gt;(Copy 10)]</td>
<td>[1]</td>
<td></td>
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<td>2</td>
<td>DARK</td>
<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
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<td>SAMP-SEQ=SPARS 50; NSAMP=15</td>
<td>Sequence 1-2 Non-In t in Visit 60</td>
<td>[==&gt;(Copy 1)] [==&gt;(Copy 2)] [==&gt;(Copy 3)]</td>
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</table>

69
Proposition 12694 - Visité 61 - IR Persistence 19

Visit
Proposal 12694, Visit 61, implementation

Diagnostic Status: Warning
Scientific Instruments: WFC3/IR
Special Requirements: (none)
Comments: These are a set of darks to be added to specific GO or calibration observations to test how well our persistence algorithms do in removing persistence from real data. Each visit is a two orbit sequence of darks.

This is to follow immediately after visit 4 of program 12105. This is part of the M31 MCT program.

Diagnostics
(Visit 61) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

|----|-------|----------|----------------------|---------------|--------------|---------------|--------|-------------------------|-------|
Orbit 1
Exp. 1, copy 1
Unused Visibility = 3234
Exp. 1, copy 2
Exp. 1, copy 3
Exp. 1, copy 4
Exp. 1, copy 5
Exp. 1, copy 6
Exp. 1, copy 7
Exp. 1, copy 8
Exp. 1, copy 9
Occultation
Exp. 1, copy 10
Exp. 2, copy 1
Exp. 2, copy 2
Exp. 2, copy 3

Server Version: 20111111

Orbit Structure
Orbit 2
Unused Visibility = 3234

Exp. 2, copy 3 (cont'd)

Exp. 2, copy 4  Exp. 2, copy 5  Exp. 2, copy 6  Exp. 2, copy 7  Occultation  Exp. 2, copy 9  Exp. 2, copy 10

Server Version: 20111111
**Proposal 12694, Visit 62 - IR Persistence 19**

**Visit**

- **Proposal 12694, Visit 62, scheduling**
- **Diagnostic Status:** Warning
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

**Comments:** These are a set of darks to be added to specific GO or calibration observations to test how well our persistence algorithms do in removing persistence from real data. Each visit is a two orbit sequence of darks.

This is to follow immediately after visit 1 of program 12107. This is part of the M31 MCT program.

**Diagnostics**

(Visit 62) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

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<td>SAMP-SEQ=SPARS 50; NSAMP=15</td>
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Proposal 12694, Visit 63, implementation

**Visit**

Scientific Instruments: WFC3/IR

Special Requirements: (none)

*Comments:* These are a set of darks to be added to specific GO or calibration observations to test how well our persistence algorithms do in removing persistence from real data. Each visit is a two orbit sequence of darks.

*This is to follow immediately after visit 4 of program 12107. This is part of the M31 MCT program.*

**Diagnostics**

(Visit 63) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

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<td>SAMP-SEQ=SPARS 50; NSAMP=15</td>
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<td>Sequence 1-2 Non-Int in Visit 63</td>
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Orbit 2
Unused Visibility = 3234
Exp. 2, copy 3 (cont'd)

Exp. 2, copy 4  Exp. 2, copy 5  Exp. 2, copy 6  Exp. 2, copy 7

Exp. 2, copy 8

Occlusion

Exp. 2, copy 9  Exp. 2, copy 10
Visit 64, scheduling

Scientific Instruments: WFC3/IR

Special Requirements: (none)

Comments: These are a set of darks to be added to specific GO or calibration observations to test how well our persistence algorithms do in removing persistence from real data. Each visit is a two orbit sequence of darks.

This is to follow immediately after visit 1 of program 12109. This is part of the M31 MCT program.

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<td>Sequence 1-2 Non-Int in Visit 64</td>
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<td>WFC3/IR, MULTIACCUM, IR-FIX</td>
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<td>Sequence 1-2 Non-Int in Visit 64</td>
<td>[==&gt;(Copy 1)] [==&gt;(Copy 2)] [==&gt;(Copy 3)]</td>
<td>[2]</td>
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</table>
Orbit 2
Unused Visibility = 3234

Exp. 2, copy 3 (cont'd)

Exp. 2, copy 4  Exp. 2, copy 5  Exp. 2, copy 6  Exp. 2, copy 7  Exp. 2, copy 8

Occultation  Exp. 2, copy 9  Exp. 2, copy 10
Proposal 12694 - Visit 65 - IR Persistence 19

Visit
Proposal 12694, Visit 65, implementation
Diagnostic Status: Warning
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Comments: These are a set of darks to be added to specific GO or calibration observations to test how well our persistence algorithms do in removing persistence from real data. Each visit is a two orbit sequence of darks.

This is to follow immediately after visit 4 of program 12109. This is part of the M31 MCT program.

Diagnostics

(Visit 65) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

|----|-------|--------|------------------------|---------------|-------------|---------------|--------|--------------------------|-------|
Orbit 1
Exp. 1, copy 1
Unused Visibility = 3234
Exp. 1, copy 2
Exp. 1, copy 3
Exp. 1, copy 4
Exp. 1, copy 5
Exp. 1, copy 6
Exp. 1, copy 7
Exp. 1, copy 8
Exp. 1, copy 9
Occultation
Exp. 1, copy 10
Exp. 2, copy 1
Exp. 2, copy 2
Exp. 2, copy 3
Orbit 2
Unused Visibility = 3234

Exp. 2, copy 3 (cont'd)

Exp. 2, copy 4  Exp. 2, copy 5  Exp. 2, copy 6  Exp. 2, copy 7  Exp. 2, copy 8

Occultation  Exp. 2, copy 9  Exp. 2, copy 10

Server Version: 20111111
Comments: These are a set of darks to be added to specific GO or calibration observations to test how well our persistence algorithms do in removing persistence from real data. Each visit is a two orbit sequence of darks.

This is to follow immediately after visit 5 of program 12490. The target of that program is the nuclear region of M51 by a team lead by Koda.

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Orbit 2
Unused Visibility = 3234

Exp. 2, copy 3 (cont'd)

Exp. 2, copy 4  Exp. 2, copy 5  Exp. 2, copy 6  Exp. 2, copy 7

Exp. 2, copy 8

Occultation

Exp. 2, copy 9  Exp. 2, copy 10

Server Version: 20111111

Proposal 12694, Visit 67, implementation

Diagnostics Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

Comments: These are a set of darks to be added to specific GO or calibration observations to test how well our persistence algorithms do in removing persistence from real data. Each visit is a two orbit sequence of darks.

This visit is on hold for now, until we see how well we are doing.

On Hold Comments: This visit is on hold until we can judge the effectiveness of this part of the calibration program.

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Visit 68, implementation

Scientific Instruments: WFC3/IR
Special Requirements: ON HOLD

Comments: These are a set of darks to be added to specific GO or calibration observations to test how well our persistence algorithms do in removing persistence from real data. Each visit is a two orbit sequence of darks.

This visit is on hold for now, until we see how well we are doing.

On Hold Comments: This visit is on hold for now, until we see how well we are doing.

Diagnostics (Visit 68) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

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Proposal 12694, Visit 69, implementation

**Diagnostic Status:** Warning

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

**Comments:** These are a set of darks to be added to specific GO or calibration observations to test how well our persistence algorithms do in removing persistence from real data. Each visit is a two orbit sequence of darks.

This visit is on hold for now, until we see how well we are doing.

Diagnostics

(Visit 69) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

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96
Proposal 12694 - Visit 70 - IR Persistence 19

Visit

Diagnostics

Exposures

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Unused Visibility = 3234

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Exp. 1, copy 2

Exp. 1, copy 3

Exp. 1, copy 4

Exp. 1, copy 5

Exp. 1, copy 6

Exp. 1, copy 7

Exp. 1, copy 8

Exp. 1, copy 9

Occultation

Exp. 1, copy 10

Exp. 2, copy 1

Exp. 2, copy 2

Exp. 2, copy 3
**Proposal 12694 - Visit 71 - IR Persistence 19**

**Visit**
- Proposal 12694, Visit 71, implementation
- Diagnostic Status: Warning
- Scientific Instruments: WFC3/IR
- Special Requirements: ON HOLD

Comments: These are a set of darks to be added to specific GO or calibration observations to test how well our persistence algorithms do in removing persistence from real data. Each visit is a two orbit sequence of darks.

This visit is on hold for now, until we see how well we are doing.

On Hold Comments: This visit is on hold for now, until we see how well we are doing.

**Diagnostics**
(Visit 71) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

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Unused Visibility = 3234

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Experiment 1, copy 3

Experiment 1, copy 4

Experiment 1, copy 5

Experiment 1, copy 6

Experiment 1, copy 7

Experiment 1, copy 8

Experiment 1, copy 9

Experiment 1, copy 10

Occultation

Experiment 2, copy 1

Experiment 2, copy 2

Experiment 2, copy 3

Server Version: 20111111
Orbit 2
Unused Visibility = 3234

Exp. 2, copy 3 (cont'd)

Exp. 2, copy 4  Exp. 2, copy 5  Exp. 2, copy 6  Exp. 2, copy 7  Exp. 2, copy 8

Occlusion  Exp. 2, copy 9  Exp. 2, copy 10

0  500  1000  1500  2000  2500  3000  3500  4000  4500  5000  5500 sec
Proposal 12694 - Visit 72 - IR Persistence 19

**Visit**

Proposal 12694, Visit 72, implementation

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: ON HOLD

Comments: These are a set of darks to be added to specific GO or calibration observations to test how well our persistence algorithms do in removing persistence from real data. Each visit is a two orbit sequence of darks.

This visit is on hold for now, until we see how well we are doing.

On Hold Comments: This visit is on hold for now, until we see how well we are doing.

**Diagnostics**

(Visit 72) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

**Exposures**

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  Exp. 1, copy 3
  Exp. 1, copy 4
  Exp. 1, copy 5
  Exp. 1, copy 6
  Exp. 1, copy 7
  Exp. 1, copy 8
  Occultation
  Exp. 1, copy 9
  Exp. 1, copy 10
Exp. 2, copy 1
Exp. 2, copy 2
Exp. 2, copy 3
Proposal 12694 - Visit 73 - IR Persistence 19

Visit
Proposal 12694, Visit 73, implementation
Diagnostic Status: Warning
Scientific Instruments: WFC3/IR
Special Requirements: ON HOLD
Comments: These are a set of darks to be added to specific GO or calibration observations to test how well our persistence algorithms do in removing persistence from real data. Each visit is a two orbit sequence of darks.
This visit is on hold for now, until we see how well we are doing.

On Hold Comments: This visit is on hold for now, until we see how well we are doing.

Diagnostics
(Visit 73) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

Exposures

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Orbit Structure

Orbit 1
Exp. 1, copy 1
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Exp. 1, copy 2
Exp. 1, copy 3
Exp. 1, copy 4
Exp. 1, copy 5
Exp. 1, copy 6
Exp. 1, copy 7
Exp. 1, copy 8
Exp. 1, copy 9
Occultation
Exp. 1, copy 10
Exp. 2, copy 1
Exp. 2, copy 2
Exp. 2, copy 3

Server Version: 20111111
Orbit 2
Exp. 2, copy 3 (cont'd)
Unused Visibility = 3234
Exp. 2, copy 4  Exp. 2, copy 5  Exp. 2, copy 6  Exp. 2, copy 7  Exp. 2, copy 8
Occlusion  Exp. 2, copy 9  Exp. 2, copy 10

Server Version: 20111111

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Proposal 12694, Visit 74, IR Persistence 19

Visit
- Proposal 12694, Visit 74, implementation
- Diagnostic Status: Warning
- Scientific Instruments: WFC3/IR
- Special Requirements: ON HOLD

**Comments:** These are a set of darks to be added to specific GO or calibration observations to test how well our persistence algorithms do in removing persistence from real data. Each visit is a two orbit sequence of darks.

This visit is on hold for now, until we see how well we are doing.

**On Hold Comments:** This visit is on hold for now, until we see how well we are doing.

Diagnostics

(Visit 74) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

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Exp. 1, copy 2
Exp. 1, copy 3
Exp. 1, copy 4
Exp. 1, copy 5
Exp. 1, copy 6
Exp. 1, copy 7
Exp. 1, copy 8
Exp. 1, copy 9
Occultation
Exp. 1, copy 10
Exp. 2, copy 1
Exp. 2, copy 2
Exp. 2, copy 3

Server Version: 20111111