14942 - NUV Detector Dark Monitor
Cycle: 25, Proposal Category: CAL/COS
(Availability Mode: RESTRICTED)

INVESTIGATORS

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<tr>
<th>Name</th>
<th>Institution</th>
<th>E-Mail</th>
</tr>
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<tbody>
<tr>
<td>Mees Fix (PI) (Contact)</td>
<td>Space Telescope Science Institute</td>
<td><a href="mailto:mfix@stsci.edu">mfix@stsci.edu</a></td>
</tr>
<tr>
<td>Dr. David J. Sahnow (CoI)</td>
<td>Space Telescope Science Institute</td>
<td><a href="mailto:sahnow@stsci.edu">sahnow@stsci.edu</a></td>
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VISITS

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ABSTRACT
Perform routine monitoring of MAMA detector dark current. The main purpose is to look for evidence of a change in the dark rates, both to track on-orbit time dependence and to check for a detector problem developing. The spatial distribution of dark rates on the detector and the effect of SAA will also be studied.

OBSERVING DESCRIPTION
Monitor the NUV detector dark rate by taking TIME-TAG science exposures with no light on the detector. Twice in every two weeks a 22-min exposure is taken with the NUV detector with the shutter closed. The paired exposures, such as 01 and 02, are separated by several orbits to track potential instrument temperature changes. The length of the exposures is chosen to make them fit in Earth occultations.
### Proposal 14942 - Visit 01 - NUV Detector Dark Monitor

**Visit**
- Proposal 14942, Visit 01
- Diagnostic Status: No Diagnostics
- Scientific Instruments: COS/NUV
- Special Requirements: BETWEEN 31-OCT-2017:00:00:00 AND 06-NOV-2017:23:59:59

**Exposures**

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**Orbit Structure**

- Server Version: 20170613
- Unused Orbital Visibility = 3202
- Home
- Occultation
### Exposures

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### Orbit Structure

Orbit 1

Exp. 1

Unused Orbital Visibility = 3202

Home

Occultation

Server Version: 20170613
Proposal 14942 - Visit 03 - NUV Detector Dark Monitor

Visit
Proposal 14942, Visit 03
Diagnostic Status: No Diagnostics
Scientific Instruments: COS/NUV
Special Requirements: BETWEEN 14-NOV-2017:00:00:00 AND 20-NOV-2017:23:59:59

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Orbit Structure

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Unused Orbital Visibility = 3202  Home  Occultation

Server Version: 20170613
Proposal 14942 - Visit 04 - NUV Detector Dark Monitor

Visit
Proposal 14942, Visit 04
Diagnostic Status: No Diagnostics
Scientific Instruments: COS/NUV
Special Requirements: AFTER 03 BY 5.5 Orbits TO 8.5 Orbits

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### Proposal 14942 - Visit 05 - NUV Detector Dark Monitor

**Visit Information**
- **Proposal 14942, Visit 05**
- Diagnostic Status: No Diagnostics
- Scientific Instruments: COS/NUV
- Special Requirements: BETWEEN 28-NOV-2017:00:00:00 AND 04-DEC-2017:23:59:59

**Orbit Structure**
- Unused Orbital Visibility = 3202
- Exp. 1

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Visit
- Proposal 14942, Visit 06
- Diagnostic Status: No Diagnostics
- Scientific Instruments: COS/NUV
- Special Requirements: AFTER 05 BY 5.5 Orbits TO 8.5 Orbits

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Orbit Structure

- Orbit 1: Unused Orbital Visibility = 3202
- Exp. 1
- Home
- Occultation

Server Version: 20170613
Proposal 14942 - Visit 07 - NUV Detector Dark Monitor

Visit Proposal 14942, Visit 07  
Diagnostic Status: No Diagnostics  
Scientific Instruments: COS/NUV  
Special Requirements: BETWEEN 12-DEC-2017:00:00:00 AND 18-DEC-2017:23:59:59

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Orbit Structure

Orbit 1
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Unused Orbital Visibility = 3202  
Home  
Occultation

Server Version: 20170613
Proposal 14942 - Visit 08 - NUV Detector Dark Monitor

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Proposal 14942, Visit 08
Diagnostic Status: No Diagnostics
Scientific Instruments: COS/NUV
Special Requirements: AFTER 07 BY 5.5 Orbits TO 8.5 Orbits

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Orbit Structure

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Unused Orbital Visibility = 3202
Home
Occultation

Server Version: 20170613
Proposal 14942 - Visit 09 - NUV Detector Dark Monitor

Visit
Proposal 14942, Visit 09
Diagnostic Status: No Diagnostics
Scientific Instruments: COS/NUV
Special Requirements: BETWEEN 26-DEC-2017:00:00:00 AND 01-JAN-2018:23:59:59

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Orbit Structure

Orbit 1
Unused Orbital Visibility = 3202

Exp. 1

Home

Occultation

Server Version: 20170613
Proposal 14942 - Visit 0A - NUV Detector Dark Monitor

Visit 14942, Visit 0A
Diagnostic Status: No Diagnostics
Scientific Instruments: COS/NUV
Special Requirements: AFTER 09 BY 5.5 Orbits TO 8.5 Orbits

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Orbit Structure

Orbit 1
Exp. 1
Unused Orbital Visibility = 3202

Home

Occultation
Proposal 14942 - Visit 0B - NUV Detector Dark Monitor

**Visit**
- Proposal 14942, Visit 0B
- Diagnostic Status: No Diagnostics
- Scientific Instruments: COS/NUV
- Special Requirements: BETWEEN 09-JAN-2018:00:00:00 AND 15-JAN-2018:23:59:59

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**Orbit Structure**

![Orbit Structure Diagram]
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Visit
Proposal 14942, Visit 0C
Diagnostic Status: No Diagnostics
Scientific Instruments: COS/NUV
Special Requirements: AFTER 0B BY 5.5 Orbits TO 8.5 Orbits

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Orbit Structure

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Server Version: 20170613

Orbit 1
Exp. 1

Unused Orbital Visibility = 3202

Home

Occultation
**Proposal 14942 - Visit 0D - NUV Detector Dark Monitor**

Visit: Proposal 14942, Visit 0D  
Diagnostic Status: No Diagnostics  
Scientific Instruments: COS/NUV  
Special Requirements: BETWEEN 23-JAN-2018:00:00:00 AND 29-JAN-2018:23:59:59

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### Orbit Structure

![Orbit Structure Diagram](image)

Server Version: 20170613

Orbit 1

Unused Orbital Visibility = 3202

Exp. 1  
Home  
Occultation
Proposal 14942 - Visit 0E - NUV Detector Dark Monitor

Visit
Proposal 14942, Visit 0E
Diagnostic Status: No Diagnostics
Scientific Instruments: COS/NUV
Special Requirements: AFTER 0D BY 5.5 Orbits TO 8.5 Orbits

Exposures

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Orbit Structure

Server Version: 20170613

Unused Orbital Visibility = 3202

Exp. 1

Home

Occultation

Orbit 1
Proposal 14942 - Visit 0F - NUV Detector Dark Monitor

Visit

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Exposures

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Orbit Structure

![Orbit Diagram](image-url)

Server Version: 20170613
Visit 0G - NUV Detector Dark Monitor

**Visit**
- **Proposal 14942, Visit 0G**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** COS/NUV
- **Special Requirements:** AFTER 0F BY 5.5 Orbits TO 8.5 Orbits

**Exposures**

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**Orbit Structure**

- **Orbit 1**
- **Exp. 1**
- **Unused Orbital Visibility = 3202**
- **Home**
- **Occultation**

*Server Version: 20170613*
### Exposures

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### Orbit Structure

**Orbit 1**

Unused Orbital Visibility = 3202

Exps. 1: Home

Exps. 2: Occultation

**Server Version: 20170613**
Proposal 14942 - Visit 01 - NUV Detector Dark Monitor

Visit
Proposal 14942, Visit 01
Diagnostic Status: No Diagnostics
Scientific Instruments: COS/NUV
Special Requirements: AFTER 0H BY 5.5 Orbits TO 8.5 Orbits

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Orbit Structure

Orbit 1
Exp. 1
Unused Orbital Visibility = 3202  Home
Occultation
Proposal 14942 - Visit 0J - NUV Detector Dark Monitor

Visit
Proposal 14942, Visit 0J
Diagnostic Status: No Diagnostics
Scientific Instruments: COS/NUV
Special Requirements: BETWEEN 06-MAR-2018:00:00:00 AND 12-MAR-2018:23:59:59

Exposures

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Orbit Structure

Orbit 1
Unused Orbital Visibility = 3202

Exp. 1
 Home
Occultation

Server Version: 20170613
Proposal 14942 - Visit 0K - NUV Detector Dark Monitor

Visit
Proposal 14942, Visit 0K
Diagnostic Status: No Diagnostics
Scientific Instruments: COS/NUV
Special Requirements: AFTER 0J BY 5.5 Orbits TO 8.5 Orbits

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Orbit Structure

 UNUSED Orbital Visibility = 3202
 Home
 Occultation

Server Version: 20170613
### Proposal 14942 - Visit 0L - NUV Detector Dark Monitor

Visit:
- Proposal 14942, Visit 0L
- Diagnostic Status: No Diagnostics
- Scientific Instruments: COS/Nuv
- Special Requirements: BETWEEN 20-MAR-2018:00:00:00 AND 26-MAR-2018:23:59:59

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### Orbit Structure

- Unused Orbital Visibility = 3202
- Home
- Occultation

[![Orbit Structure Diagram](orchard.png)](orchard.png)
Proposal 14942 - Visit 0M - NUV Detector Dark Monitor

Visit 0M
Diagnostic Status: No Diagnostics
Scientific Instruments: COS/NUV
Special Requirements: AFTER 0L BY 5.5 ORBIT TO 8.5 ORBIT

Exposures

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Orbit Structure
Proposal 14942 - Visit 0N - NUV Detector Dark Monitor

**Visit**
Proposal 14942, Visit 0N
Diagnostic Status: No Diagnostics
Scientific Instruments: COS/NUV
Special Requirements: BETWEEN 03-APR-2018:00:00:00 AND 09-APR-2018:23:59:59

**Exposures**

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**Orbit Structure**

Orbit 1
Exp. 1
Unused Orbital Visibility = 3202
Home

Orbit with occurrence of Occultation.

Server Version: 20170613
### Proposal 14942 - Visit 0O - NUV Detector Dark Monitor

**Visit**
- **Proposal 14942, Visit 0O**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** COS/NUV
- **Special Requirements:** AFTER 0N BY 5.5 Orbits TO 8.5 Orbits

**Visit Structure**

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**Orbit Structure**

- **Orbit 1**
  - Unused Orbital Visibility = 3202
  - Exp. 1
    - Home
    - Occultation

**Server Version:** 20170613
### Exposures

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**Orbit Structure**

Unused Orbital Visibility = 3202

![Orbit Diagram](orbit.png)

Server Version: 20170613
# Proposal 14942 - Visit 0Q - NUV Detector Dark Monitor

**Visit**
- Proposal 14942, Visit 0Q
- Diagnostic Status: No Diagnostics
- Scientific Instruments: COS/NUV
- Special Requirements: AFTER 0P BY 5.5 Orbits TO 8.5 Orbits

## Exposures

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## Orbit Structure
- **Orbit 1**
  - Unused Orbital Visibility = 3202
  - **Exp. 1**
    - Home
    - Occultation

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Server Version: 20170613
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**Orbit Structure**

Unused Orbital Visibility = 3202

**Home**

**Occultation**

Server Version: 20170613
## Visit

### Proposal 14942, Visit 0S - NUV Detector Dark Monitor

- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** COS/NUV
- **Special Requirements:** AFTER OR BY 5.5 ORBITS TO 8.5 ORBITS

### Exposures

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### Orbit Structure

![Orbit Structure Diagram](image-url)
## Visit Details

**Proposal 14942, Visit 0T**

**Diagnostic Status:** No Diagnostics

**Scientific Instruments:** COS/NUV

**Special Requirements:** BETWEEN 15-MAY-2018:00:00:00 AND 21-MAY-2018:23:59:59

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### Orbit Structure

**Orbit 1**

*Unused Orbital Visibility = 3202*

![Orbit Diagram](image_url)

**Server Version:** 20170613
Proposal 14942 - Visit 0U - NUV Detector Dark Monitor

Visit 0U
Diagnostic Status: No Diagnostics
Scientific Instruments: COS/NUV
Special Requirements: AFTER 0T BY 5.5 Orbits TO 8.5 Orbits

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Orbit Structure

Unused Orbital Visibility = 3202
Home
Occultation
Proposal 14942 - Visit 0V - NUV Detector Dark Monitor

Visit 14942, Visit 0V
Diagnostic Status: No Diagnostics
Scientific Instruments: COS/NUV
Special Requirements: BETWEEN 29-MAY-2018:00:00:00 AND 04-JUN-2018:23:59:59

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Orbit Structure:

- **Orbit 1**
  - Exp. 1
  - Unused Orbital Visibility = 3202
  - Home
  - Occultation

Server Version: 20170613
Proposal 14942 - Visit 0W - NUV Detector Dark Monitor

Visit 0W
Diagnostic Status: No Diagnostics
Scientific Instruments: COS/NUV
Special Requirements: AFTER 0V BY 5.5 Orbits TO 8.5 Orbits

Exposures

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Orbit Structure

Unused Orbital Visibility = 3202

Home

Occultation

Server Version: 20170613
## Visit Information

**Proposal 14942, Visit 0X**

- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** COS/NUV
- **Special Requirements:** BETWEEN 12-JUN-2018:00:00:00 AND 18-JUN-2018:23:59:59

## Exposures

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### Orbit Structure

- **Orbit 1**
  - Unused Orbital Visibility = 3202
  - Exp. 1
  - Home
  - Occultation

- **Server Version:** 20170613
Proposal 14942 - Visit 0Y - NUV Detector Dark Monitor

Visit 0Y
Diagnostic Status: No Diagnostics
Scientific Instruments: COS/NUV
Special Requirements: AFTER 0X BY 5.5 Orbits TO 8.5 Orbits

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Orbit 1
Unused Orbital Visibility = 3202

Exp. 1

Orbit Structure
Proposal 14942 - Visit 0Z - NUV Detector Dark Monitor

Visit
Proposal 14942, Visit 0Z
Diagnostic Status: No Diagnostics
Scientific Instruments: COS/NUV
Special Requirements: BETWEEN 26-JUN-2018:00:00:00 AND 02-JUL-2018:23:59:59

Exposures

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Orbit Structure

Orbit 1
Unused Orbital Visibility = 3202

Exp. 1

Home

Occultation
Proposal 14942 - Visit 10 - NUV Detector Dark Monitor

Visit 14942, Visit 10
Diagnostic Status: No Diagnostics
Scientific Instruments: COS/NUV
Special Requirements: AFTER 0Z BY 5.5 Orbits TO 8.5 Orbits

### Exposures

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### Orbit Structure

Orbit 1
Unused Orbital Visibility = 3202

Exp. 1

- Home
- Occultation

Server Version: 20170613
## Proposal 14942 - Visit 11 - NUV Detector Dark Monitor

**Visit**

- **Proposal 14942, Visit 11**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** COS/NUV
- **Special Requirements:** BETWEEN 10-JUL-2018:00:00:00 AND 16-JUL-2018:23:59:59

**Exposures**

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**Orbit Structure**

![Orbit Diagram](image_url)
## Proposal 14942 - Visit 12 - NUV Detector Dark Monitor

- **Visit**: Proposal 14942, Visit 12
- **Diagnostic Status**: No Diagnostics
- **Scientific Instruments**: COS/NUV
- **Special Requirements**: AFTER 11 BY 5.5 Orbits TO 8.5 Orbits

### Exposures

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### Orbit Structure

- Unused Orbital Visibility = 3202
- **Home**
- **Occultation**

---

Server Version: 20170613
### Proposal 14942 - Visit 13 - NUV Detector Dark Monitor

**Visit**
- Proposal 14942, Visit 13
- Diagnostic Status: No Diagnostics
- Scientific Instruments: COS/NUV
- Special Requirements: BETWEEN 24-JUL-2018:00:00:00 AND 30-JUL-2018:23:59:59

**Exposures**

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Proposal 14942 - Visit 14 - NUV Detector Dark Monitor

Visit Proposal 14942, Visit 14
Diagnostic Status: No Diagnostics
Scientific Instruments: COS/NUV
Special Requirements: AFTER 13 BY 5.5 Orbits TO 8.5 Orbits

### Exposures

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Orbit Structure

Unused Orbital Visibility = 3202

Exp. 1

Home

Occultation

Server Version: 20170613
### Proposal 14942 - Visit 15 - NUV Detector Dark Monitor

**Visit**
- Proposal 14942, Visit 15
- Diagnostic Status: No Diagnostics
- Scientific Instruments: COS/NUV
- Special Requirements: BETWEEN 07-AUG-2018:00:00:00 AND 13-AUG-2018:23:59:59

#### Exposures

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**Orbit Structure**

- Unused Orbital Visibility = 3202
- Exp. 1
- Home
- Occultation

**Server Version:** 20170613
Proposal 14942, Visit 16 - NUV Detector Dark Monitor

Visit

- Diagnostic Status: No Diagnostics
- Scientific Instruments: COS/NUV
- Special Requirements: AFTER 15 BY 5.5 Orbits TO 8.5 Orbits

Exposures

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Orbit Structure

- Orbit 1: Unused Orbital Visibility = 3202
- Exp. 1: Home
- Occultation

Server Version: 20170613
### Proposal 14942 - Visit 17 - NUV Detector Dark Monitor

**Visit**
- Proposal 14942, Visit 17
- Diagnostic Status: No Diagnostics
- Scientific Instruments: COS/NUV
- Special Requirements: BETWEEN 21-AUG-2018:00:00:00 AND 27-AUG-2018:23:59:59

**Exposures**

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**Orbit Structure**

[Diagram of orbit structure showing Home and Occultation points with Unused Orbital Visibility = 3202]
 Proposal 14942 - Visit 18 - NUV Detector Dark Monitor

Visit
Proposal 14942, Visit 18
Diagnostic Status: No Diagnostics
Scientific Instruments: COS/NUV
Special Requirements: AFTER 17 BY 5.5 Orbits TO 8.5 Orbits

Exposures

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Orbit Structure

Orbit 1
Unused Orbital Visibility = 3202

Exp. 1
Home
Occultation

Server Version: 20170613
Proposal 14942 - Visit 19 - NUV Detector Dark Monitor

Visit
Proposal 14942, Visit 19
Diagnostic Status: No Diagnostics
Scientific Instruments: COS/NUV
Special Requirements: BETWEEN 04-SEP-2018:00:00:00 AND 10-SEP-2018:23:59:59

Wed Sep 20 17:00:32 GMT 2017

Exposures

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Orbit Structure

Unused Orbital Visibility = 3202

Home

Occultation

Server Version: 20170613
# Proposal 14942 - Visit 1A - NUV Detector Dark Monitor

**Visit**
- Proposal 14942, Visit 1A
- Diagnostic Status: No Diagnostics
- Scientific Instruments: COS/NUV
- Special Requirements: AFTER 19 BY 5.5 Orbits TO 8.5 Orbits

**Exposures**

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**Orbit Structure**

- Orbit 1
  - Exp. 1
  - Unused Orbital Visibility = 3202
  - Home
  - Occultation

---

49
# Proposal 14942 - Visit 1B - NUV Detector Dark Monitor

**Visit**

Proposal 14942, Visit 1B  
Diagnostic Status: No Diagnostics  
Scientific Instruments: COS/NUV  
Special Requirements: BETWEEN 18-SEP-2018:00:00:00 AND 24-SEP-2018:23:59:59

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## Exposures

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## Orbit Structure

**Orbit 1**

Exp. 1  
Unused Orbital Visibility = 3202  
Home  
Occultation  

**Server Version: 20170613**
Proposal 14942 - Visit 1C - NUV Detector Dark Monitor

Visit 1C
Diagnostic Status: No Diagnostics
Scientific Instruments: COS/NUV
Special Requirements: AFTER 1B BY 5.5 Orbits TO 8.5 Orbits

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Orbit Structure

Orbit 1
Unused Orbital Visibility = 3202

Exp. 1

Home

Occultation

Server Version: 20170613
Proposal 14942 - Visit 1D - NUV Detector Dark Monitor

**Visit Information**
- Proposal 14942, Visit 1D
- Diagnostic Status: No Diagnostics
- Scientific Instruments: COS/NUV
- Special Requirements: BETWEEN 02-OCT-2018:00:00:00 AND 08-OCT-2018:23:59:59

**Exposures Table**

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**Orbit Structure**

![Orbit Diagram](image-url)
### Exposures

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**Orbit Structure**

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Server Version: 20170613

Unused Orbital Visibility = 3202

Home

Occultation
### Proposal 14942 - Visit 1F - NUV Detector Dark Monitor

**Visit**
- Proposal 14942, Visit 1F
- Diagnostic Status: No Diagnostics
- Scientific Instruments: COS/NUV
- Special Requirements: BETWEEN 16-OCT-2018:00:00:00 AND 22-OCT-2018:23:59:59

**Exposures**

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**Orbit Structure**

- Orbit 1
  - Unused Orbital Visibility = 3202
  - Exp. 1
  - Home
  - Occultation

**Server Version:** 20170613
## Proposal 14942 - Visit 1G - NUV Detector Dark Monitor

**Visit**

- Proposal 14942, Visit 1G
- Diagnostic Status: No Diagnostics
- Scientific Instruments: COS/NUV
- Special Requirements: AFTER 1F BY 5.5 Orbits TO 8.5 Orbits

**Exposures**

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**Orbit Structure**

- Unused Orbital Visibility = 3202
- Home
- Occultation

**Server Version:** 20170613