**17022 - WFC3 CSM Monitor with Earth Flats**

Cycle: 30, Proposal Category: CAL/WFC3  
(Availability Mode: RESTRICTED)

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<td>Frederick Dauphin (PI) (Contact)</td>
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<td>Dr. Joel David Green (CoI) (Contact)</td>
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### VISITS

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### Proposal 17022 (STScI Edit Number: 1, Created: Monday, October 9, 2023 at 5:01:23 PM Eastern Standard Time) - Overview

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### Proposal 17022 (STScI Edit Number: 1, Created: Monday, October 9, 2023 at 5:01:23 PM Eastern Standard Time) - Overview

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235 Total Orbits Used
ABSTRACT
Throughout the lifetime of WFC3, a growing number of blobs (small, circular regions with slightly decreased sensitivity) have appeared in WFC3/IR images. Dark-Earth flats (observations of the dark side of the Earth) can be used to monitor the number and positions of blobs that appear in IR images due to dust on the channel select mechanism (CSM). These flats provide a high enough background level due to the dark-Earth airglow (~1000 DN - ~3500 DN per pixel in each ~25 second SPARS25 sample for F153M) which make the blobs easier to detect. By limiting the exposure time to 102.9 seconds, we avoid saturating the detector and yet will obtain several 25-sec samples to select from, in case some are contaminated by city lights. In addition to monitoring the number and positions of these blobs on the IR detector, this program will allow us to monitor the repeatability of WFC3's channel select mechanism movements to ensure it does not exhibit anomalous behavior. More information can be found in WFC3 ISR 2018-06. In addition, observations are critical for evaluating and updating the WFC3/IR blob convolutional neural network, which identifies new blobs (see WFC3 ISR 2021-08).

OBSERVING DESCRIPTION
A NSAMP=5 SPARS25 sample sequence with an exposure time of 102.9 seconds is used to obtain these Earth-flats. For this monitoring program, a short visit is important in order to obtain visits often (typically 2-3 observations per week).

--- Filter Selection ---
To be assured that we don't saturate, e.g. during full moon illumination of a reflective cloud, we do not use a wide-band filter. The narrowband filters are used rarely in the WFC3 science program and they would produce a smaller signal than a medium band filter when observing the dark-Earth. That leaves the medium-band filters. Because we currently have dark-Earth observations only in the Wide IR filters of WFC3 and one medium band (F153M) and two narrow bands (F164N and F167N), we have selected F153M for this monitor.

--- When to take observations ---
Because we do not wish to exercise the WFC3 channel select mechanism (CSM) unnecessarily, we invite the schedulers to schedule this program following WFC3 IR observations, not WFC3 UVIS observations. Either one will work, and there shouldn't be any harm in the latter, but the former is preferred. Also, we require that the CSM to be repositioned between visits of this program, so a WFC3 UVIS program needs to be between each visit of this program.

--- Previous CSM/blob monitoring programs ---
13068, 13499, 13588, 14030, 14392, 14549, 14999, 15592, 15732, 16412, and 16587.
Following prior practice for this calibration program, we will "use them or lose them" which means that after this program is implemented, all visits of 16587 that have not yet been scheduled shall be canceled and the new program (this one) will pick up where the previous one left off.
**Exposures**

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**Orbit Structure**

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig

**Session Details**

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Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)
Proposal 17022 - F153M (02) - WFC3 CSM Monitor with Earth Flats

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

Mon Oct 09 22:01:23 GMT 2023

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Exp. 1

Reconfig

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Occultation

Server Version: 20230626
Proposal 17022 - F153M (03) - WFC3 CSM Monitor with Earth Flats

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

Mon Oct 09 22:01:23 GMT 2023

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Server Version: 20230626
Proposal 17022 - F153M (04) - WFC3 CSM Monitor with Earth Flats

Visit: Proposal 17022, F153M (04), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Mon Oct 09 22:01:23 GMT 2023

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**Orbit Structure**

Orbit 1

GS Acq

Exp. 1

Reconfig

Unused Orbital Visibility = 2988

Server Version: 20230626
### Exposures

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### Orbit Structure

**Orbit 1**
- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfigure

**Occultation**

**Server Version:** 20230626
## Visit

**Proposal 17022, F153M (06), completed**  
**Diagnostic Status:** No Diagnostics  
**Scientific Instruments:** WFC3/IR  
**Special Requirements:** (none)

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## Exposures

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### Orbit Structure

- **Orbit 1**
  - GS Acq
  - Exp. 1
    - Unused Orbital Visibility = 2988
    - Reconfig
  - Occultation

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Server Version: 20230626
### Proposal 17022 - F153M (07) - WFC3 CSM Monitor with Earth Flats

#### Visit
- Proposal 17022, F153M (07), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

#### Exposures

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**Orbit Structure**
- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig

**Occultation**

Server Version: 20230626

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Visit
- Proposal 17022, F153M (07), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)
**Proposal 17022 - F153M (08) - WFC3 CSM Monitor with Earth Flats**

**Visit**
- Proposal 17022, F153M (08), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Exposures**

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**Orbit Structure**

- GS Acq
- Reconfig
- Unused Orbital Visibility = 2988
- Occultation

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Server Version: 20230626
## Proposal 17022 - F153M (09) - WFC3 CSM Monitor with Earth Flats

### Visit
- Proposal 17022, F153M (09), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

### Exposures

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### Orbit Structure

- **Orbit 1**
  - GS Acq
  - Exp. 1
  - Unused Orbital Visibility = 2988
  - Reconfig

- **Occultation**

Server Version: 20230626
Proposal 17022 - F153M (10) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (10), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988
- Occultation

Server Version: 20230626
Visit
Proposal 17022, F153M (11), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1
GS Acq
Exp. 1
Unused Orbital Visibility = 2988
Reconfig

Occultation

Server Version: 20230626

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Proposal 17022 - F153M (11) - WFC3 CSM Monitor with Earth Flats
Proposal 17022 - F153M (12) - WFC3 CSM Monitor with Earth Flats

Visit

Proposal 17022, F153M (12), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Exposures

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Orbit Structure

Orbit 1

GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988

Server Version: 20230626
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**Orbit Structure**

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

**Server Version:** 20230626
## Proposal 17022 - F153M (14) - WFC3 CSM Monitor with Earth Flats

### Visit
- Proposal 17022, F153M (14), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

### Exposures

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### Orbit Structure

- **Orbit 1**
  - GS Acq
  - Exp. 1
  - Reconfig
  - Unused Orbital Visibility = 2988
  - Occultation

*Server Version: 20230626*
Proposal 17022 - F153M (15) - WFC3 CSM Monitor with Earth Flats

Visit
- Proposal 17022, F153M (15), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

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## Exposures

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**Orbit Structure**

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

**Server Version:** 20230626
**Visit**
Proposal 17022, F153M (16), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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**Orbit Structure**

- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988
- Occultation

Server Version: 20230626
Visit
Proposal 17022, F153M (17), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure
- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988
- Occultation

Server Version: 20230626
Proposal 17022 - F153M (18) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (18), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure
Orbit 1

GS Acq
Exp. 1

Unused Orbital Visibility = 2988
Reconfig

Occultation

Server Version: 20230626
Visit Proposal 17022, F153M (19), completed  
Diagnostic Status: No Diagnostics  
Scientific Instruments: WFC3/IR  
Special Requirements: (none)  

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**Orbit Structure**

- GS Acq  
- Exp. 1  
- Reconfig  
- Unused Orbital Visibility = 2988  

**Server Version:** 20230626
Visit
Proposal 17022, F153M (20), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Unused Orbital Visibility = 2988

Orbit 1

GS Acq
Exp. 1
Reconfig

Server Version: 20230626

Occultation
Proposal 17022 - F153M (21) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (21), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1

GS Acq
Exp. 1
Unused Orbital Visibility = 2988
Reconfig

Server Version: 20230626
Proposal 17022 - F153M (22) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (22), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Server Version: 20230626
## Visit

**Proposal 17022, F153M (23), completed**

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

## Exposures

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**Orbit Structure**

- **Server Version:** 20230626
- **Unused Orbital Visibility = 2988**
- **Occultation**

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Visit

Proposal 17022, F153M (24), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Orbit 1

GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988

Occultation

Server Version: 20230626
Proposal 17022 - F153M (25) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (25), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Mon Oct 09 22:01:24 GMT 2023

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Orbit Structure

Orbit 1
GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988
Occultation

Server Version: 20230626
### Proposal 17022 - F153M (26) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 17022, F153M (26), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Mon Oct 09 22:01:24 GMT 2023**

**Diagnostic Status:** No Diagnostics

**Scientific Instruments:** WFC3/IR

**Special Requirements:** (none)

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**Orbit Structure**

- **Orbit 1**
  - GS Acq
  - Exp. 1
  - Unused Orbital Visibility = 2988
  - Reconfig
  - Occultation

**Server Version:** 20230626
Proposal 17022 - F153M (27) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (27), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Exposures

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Orbit 1
GS Acq
Exp. 1
Unused Orbital Visibility = 2988
Reconfig

Occultation

Server Version: 20230626
Proposal 17022 - F153M (28) - WFC3 CSM Monitor with Earth Flats

Visit

Proposal 17022, F153M (28), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Orbit 1
GS Acq
Exp. 1
Unused Orbital Visibility = 2988
Reconfig
Occultation

Server Version: 20230626
### Proposal 17022 - F153M (29) - WFC3 CSM Monitor with Earth Flats

#### Exposures

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#### Orbit Structure

- **Orbit 1**
  - GS Acq
  - Exp. 1
  - Unused Orbital Visibility = 2988
  - Reconfig

**Occultation**

*Server Version: 20230626*
### Proposal 17022 - F153M (30) - WFC3 CSM Monitor with Earth Flats

#### Visit
- Proposal 17022, F153M (30), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

#### Exposures

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**Orbit Structure**

- GS Acq
- Occultation

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Server Version: 20230626
**Proposal 17022 - F153M (31) - WFC3 CSM Monitor with Earth Flats**

**Visit**
- Proposal 17022, F153M (31), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Exposures**

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**Orbit Structure**

Orbit 1

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig

Server Version: 20230626

Occultation
### Proposal 17022 - F153M (32) - WFC3 CSM Monitor with Earth Flats

#### Visit
- Proposal 17022, F153M (32), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

#### Exposures

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#### Orbit Structure

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

Server Version: 20230626
### Proposal 17022 - F153M (33) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 17022, F153M (33), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

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**Orbit Structure**

- **Orbit 1**
  - GS Acq
  - Exp. 1
  - Reconfig
  - Unused Orbital Visibility = 2988

- **Occultation**

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**Server Version: 20230626**
Proposal 17022 - F153M (34) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (34), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit 1
GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988

Occultation

Server Version: 20230626

Orbit Structure
### Proposal 17022 - F153M (35) - WFC3 CSM Monitor with Earth Flats

#### Visit
- **Proposal 17022, F153M (35), completed**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

#### Mon Oct 09 22:01:24 GMT 2023

#### Exposures

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#### Orbit Structure

**Orbit 1**
- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig

**Occultation**

**Server Version:** 20230626

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### Proposal 17022 - F153M (36) - WFC3 CSM Monitor with Earth Flats

**Visit**

- Proposal 17022, F153M (36), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Mon Oct 09 22:01:24 GMT 2023**

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#### Orbit Structure

- Orbit 1
  - GS Acq
  - Exp. 1
  - Reconfig
  - Unused Orbital Visibility = 2988

- Occultation

Server Version: 20230626
### Proposal 17022 - F153M (37) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 17022, F153M (37), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Mon Oct 09 22:01:24 GMT 2023**

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**Orbit Structure**

- Orbit 1
  - GS Acq
  - Exp. 1
  - Reconfig
- Unused Orbital Visibility = 2988

**Server Version: 20230626**
Visit
Proposal 17022, F153M (38), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Orbit 1
GS Acq
Exp. 1
Unused Orbital Visibility = 2988
Reconfig
Occultation

Server Version: 20230626
Proposal 17022 - F153M (39) - WFC3 CSM Monitor with Earth Flats

Visit

**Visit**

Proposal 17022, F153M (39), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

**Exposures**

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**Orbit Structure**

**Orbit 1**

GS Acq
Exp. 1
Unused Orbital Visibility = 2988
Reconfig
Occultation

Server Version: 20230626
Proposal 17022 - F153M (40) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (40), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)
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Orbit Structure
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Orbit 1

GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988

Occultation

Server Version: 20230626
### Visit
- Proposal 17022, F153M (41), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

### Exposures

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**Orbit Structure**

- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988

**Server Version:** 20230626
Proposal 17022 - F153M (42) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (42), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Exposures

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Orbit Structure

Orbit 1

GS Acq

Exp. 1

Unused Orbital Visibility = 2988

Reconfig

Occultation

Server Version: 20230626
Proposal 17022 - F153M (43) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (43), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Mon Oct 09 22:01:24 GMT 2023

Exposures

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Orbit Structure

Orbit 1
GS Acq
Exp. 1
Unused Orbital Visibility = 2988
Reconfig

Server Version: 20230626
Proposal 17022 - F153M (44) - WFC3 CSM Monitor with Earth Flats

Visit
- Proposal 17022, F153M (44), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

Exposures

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Orbit Structure

- Orbit 1
- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988
- Occultation

Server Version: 20230626
### Visit

**Proposal 17022, F153M (45), completed**

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

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### Orbit Structure

**Orbit 1**

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig

**Occultation**

**Server Version:** 20230626
**Proposition 17022 - F153M (46) - WFC3 CSM Monitor with Earth Flats**

**Visit**  
 Proposal 17022, F153M (46), completed  
Diagnostic Status: No Diagnostics  
Scientific Instruments: WFC3/IR  
Special Requirements: (none)

**Exposures**

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**Orbit Structure**

- GS Acq  
- Exp. 1  
- Unused Orbital Visibility = 2988  
- Reconfig  
- Occultation

Server Version: 20230626
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**Orbit Structure**

**Orbit 1**
- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig

**Server Version:** 20230626
### Proposal 17022 - F153M (48) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 17022, F153M (48), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Mon Oct 09 22:01:24 GMT 2023**

**Exposures**

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**Orbit Structure**

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

**Server Version: 20230626**
Proposal 17022 - F153M (49) - WFC3 CSM Monitor with Earth Flats

Visit
Proposition 17022, F153M (49), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Orbit 1
GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988

Server Version: 20230626

Occultation
### Visit

Proposal 17022, F153M (50), completed

**Diagnostic Status:** No Diagnostics

**Scientific Instruments:** WFC3/IR

**Special Requirements:** (none)

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**Server Version:** 20230626

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**Orbit Structure**

GS Acq

Exp. 1

Unused Orbital Visibility = 2988

Reconfig

Occultation
### Proposal 17022 - F153M (51) - WFC3 CSM Monitor with Earth Flats

#### Visit Details
- **Proposal 17022, F153M (51), completed**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

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#### Orbit Structure

- **Orbit 1**
  - GS Acq
  - Exp. 1
  - Unused Orbital Visibility = 2988
  - Reconfig
  - Occultation

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*Server Version: 20230626*
## Visit

**Proposal 17022, F153M (52), completed**

**Diagnostic Status:** No Diagnostics

**Scientific Instruments:** WFC3/IR

**Special Requirements:** (none)

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### Orbit Structure

**Orbit 1**

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig

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**Occultation**

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**Server Version:** 20230626
Visit
Proposal 17022, F153M (53), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Server Version: 20230626
### Proposal 17022 - F153M (54) - WFC3 CSM Monitor with Earth Flats

**Visit**

Proposal 17022, F153M (54), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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**Orbit Structure**

- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988

**Orbit 1**

Server Version: 20230626
Proposal 17022 - F153M (55) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (55), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Mon Oct 09 22:01:24 GMT 2023

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Orbit 1

GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988

Occultation

Server Version: 20230626
Proposal 17022 - F153M (56) - WFC3 CSM Monitor with Earth Flats

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

**Exposures**

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**Orbit Structure**

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

Server Version: 20230626
Proposal 17022 - F153M (57) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (57), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Mon Oct 09 22:01:24 GMT 2023

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Orbit 1
- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988

Server Version: 20230626

Occultation
## Proposal 17022 - F153M (58) - WFC3 CSM Monitor with Earth Flats

**Visit**
Proposal 17022, F153M (58), completed  
**Diagnostic Status:** No Diagnostics  
**Scientific Instruments:** WFC3/IR  
**Special Requirements:** (none)

**Exposures**

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**Orbit Structure**

- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988
- Occultation

*Server Version: 20230626*
**Visit**
Proposal 17022, F153M (59), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

**Mon Oct 09 22:01:24 GMT 2023**

**Exposures**

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**Orbit Structure**

- **Orbit 1**
  - GS Acq
  - Exp. 1
  - Unused Orbital Visibility = 2988
  - Reconfig
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**Server Version: 20230626**
**Proposal 17022 - F153M (60) - WFC3 CSM Monitor with Earth Flats**

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**Orbit Structure**

Unsold Orbital Visibility = 2988

Server Version: 20230626
Proposal 17022 - F153M (61) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (61), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1
GS Acq
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Unused Orbital Visibility = 2988

Server Version: 20230626
Visit Proposal 17022, F153M (62), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Orbit 1
GS Acq
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Unused Orbital Visibility = 2988
Reconfig

Server Version: 20230626
## Proposal 17022 - F153M (63) - WFC3 CSM Monitor with Earth Flats

Visit Proposal 17022, F153M (63), completed

### Diagnostic Status
No Diagnostics

### Scientific Instruments
WFC3/IR

### Special Requirements
(none)

### Exposures

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### Orbit Structure

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

Server Version: 20230626
### Proposal 17022 - F153M (64) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 17022, F153M (64), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Exposures**

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**Orbit Structure**

- Unused Orbital Visibility = 2988
- Occultation

**Server Version: 20230626**
Visit

Proposal 17022, F153M (65), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

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Orbit 1

GS Acq
Exp. 1
Unused Orbital Visibility = 2988
Reconfig
Occultation
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Server Version: 20230626

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Visit
Proposal 17022, F153M (66), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1

GS Acq
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Occultation
Unused Orbital Visibility = 2988

Server Version: 20230626

Proposal 17022 - F153M (66) - WFC3 CSM Monitor with Earth Flats
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**Orbit Structure**

- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988
- Occultation

**Server Version:** 20230626
**Visit**
Proposal 17022, F153M (68), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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**Orbit Structure**

Orbit 1

Unused Orbital Visibility = 2988

Server Version: 20230626
Proposal 17022 - F153M (69) - WFC3 CSM Monitor with Earth Flats

Visit
- Proposal 17022, F153M (69), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

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Orbit Structure

- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988
- Occultation

Server Version: 20230626
Visit
Proposal 17022, F153M (70), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

**Orbit 1**
- GS Acq
- Reconfig
- Unused Orbital Visibility = 2988

**Server Version:** 20230626
### Exposures

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**Orbit Structure**

- **Orbit 1**
  - GS Acq
  - Exp. 1
  - Reconfig
  - Unused Orbital Visibility = 2988

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**Server Version:** 20230626
Proposal 17022 - F153M (72) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (72), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1
GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2908

Server Version: 20230626
Proposal 17022 - F153M (73) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (73), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Unexp. Orbital Visibility = 2988
Reconfig

Occultation

Server Version: 20230626
### Proposal 17022 - F153M (74) - WFC3 CSM Monitor with Earth Flats

**Visit**  
Proposal 17022, F153M (74), completed  
Diagnostic Status: No Diagnostics  
Scientific Instruments: WFC3/IR  
Special Requirements: (none)

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**Orbit Structure**  
Unused Orbital Visibility = 2988  
Occultation

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Orbit 1

GS Acq

Exp. 1

Unused Orbital Visibility = 2988

Reconfig

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**Orbit Structure**

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

**Server Version:** 20230626
### Proposal 17022 - F153M (77) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 17022, F153M (77), scheduled
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

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**Exposures**

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**Orbit Structure**
- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988
  - Occultation

**Server Version: 20230626**
Proposal 17022 - F153M (78) - WFC3 CSM Monitor with Earth Flats

Visit
- Proposal 17022, F153M (78), scheduled
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

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### Exposures

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### Orbit Structure

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

Server Version: 20230626
### Visit

**Proposal 17022, F153M (79), scheduled**

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

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**Orbit Structure**

- **Unused Orbital Visibility = 2988**

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**Server Version: 20230626**
Proposal 17022 - F153M (80) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (80), scheduling
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Exposures

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Orbit Structure

GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988

Occultation

Server Version: 20230626
Proposal 17022 - F153M (81) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (81), scheduling
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Orbit 1
- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988
- Occultation

Server Version: 20230626
### Visit
Proposal 17022, F153M (82), scheduling
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

### Exposures

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### Orbit Structure

Orbit 1

GS Acq
Exp. 1
Unused Orbital Visibility = 2988
Reconfig

Occultation

Server Version: 20230626

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Proposal 17022 - F153M (82) - WFC3 CSM Monitor with Earth Flats
## Visit

Proposal 17022, F153M (83), scheduling

**Diagnostic Status:** No Diagnostics

**Scientific Instruments:** WFC3/IR

**Special Requirements:** (none)

## Exposures

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**Orbit Structure**

- **Orbit 1**
  - GS Acq
  - Exp. 1
  - Unused Orbital Visibility = 2988
  - Reconfig

- **Occultation**

- **Server Version:** 20230626
### Proposal 17022 - F153M (84) - WFC3 CSM Monitor with Earth Flats

#### Visit
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

#### Exposures

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#### Orbit Structure

- **Orbit 1**
  - GS Acq
  - Exp. 1
  - Unused Orbital Visibility = 2988
  - Reconfig

- **Occultation**

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Server Version: 20230626
Visit

Proposal 17022, F153M (85), scheduling
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Server Version: 20230626

Unused Orbital Visibility = 2988

Occultation
Visit Proposal 17022, F153M (86), scheduling
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

### Exposures

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### Orbit Structure

**Orbit 1**

GS Acq
Exp. 1
Unused Orbital Visibility = 2988
Reconfig

Occultation

Server Version: 20230626
Proposal 17022 - F153M (87) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (87), scheduling
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1

Server Version: 20230626

Unused Orbital Visibility = 2988

GS Acq

Exp. 1

Reconfig

Occultation
Proposal 17022 - F153M (88) - WFC3 CSM Monitor with Earth Flats

Visit

Proposal 17022, F153M (88), scheduling
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1
- GS Acq
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100
**Proposal 17022 - F153M (89) - WFC3 CSM Monitor with Earth Flats**

Visit 17022, F153M (89), scheduling
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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**Orbit Structure**

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

Server Version: 20230626
### Visit

**Proposal 17022 - F153M (90) - WFC3 CSM Monitor with Earth Flats**

**Visit Information**
- Proposal: 17022, F153M (90), scheduling
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

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**Orbit Structure**

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

**Server Version:** 20230626
### Visit

**Proposal 17022, F153M (91), scheduling**

**Diagnostic Status:** No Diagnostics

**Scientific Instruments:** WFC3/IR

**Special Requirements:** (none)

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#### Orbit Structure

**Orbit 1**

- GS Acq
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- Unused Orbital Visibility = 2988

**Server Version:** 20230626

- Occultation

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**Server Version:** 20230626
**Proposal 17022 - F153M (92) - WFC3 CSM Monitor with Earth Flats**

**Visit**
- **Proposal 17022, F153M (92), scheduling**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

**Exposures**

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**Orbit Structure**

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

**Server Version:** 20230626
**Proposal 17022 - F153M (93) - WFC3 CSM Monitor with Earth Flats**

Visit
- Proposal 17022, F153M (93), scheduling
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Exposures**

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**Orbit Structure**

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

**Server Version: 20230626**
Visit Proposal 17022, F153M (94), scheduling
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Orbit 1

- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988

Occultation

Server Version: 20230626

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## Proposal 17022 - F153M (95) - WFC3 CSM Monitor with Earth Flats

### Visit
- **Proposal 17022, F153M (95), scheduling**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

### Orbits
**Proposal 17022, F153M (95) - WFC3 CSM Monitor with Earth Flats**

### Exposures

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### Orbit Structure
- **Orbit 1**
  - **GS Acq**
  - **Exp. 1**
  - **Reconfig**
  - **Unused Orbital Visibility = 2988**

**Occultation**

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**Server Version:** 20230626

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**Proposal 17022 - F153M (96) - WFC3 CSM Monitor with Earth Flats**

Visit Proposal 17022, F153M (96), scheduling
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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**Orbit Structure**

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

Server Version: 20230626
Proposal 17022 - F153M (97) - WFC3 CSM Monitor with Earth Flats

Proposal 17022, F153M (97), scheduling

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

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Orbit Structure

Orbit 1

GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988
### Visit

**Proposal 17022, F153M (98), scheduling**

**Diagnostic Status:** No Diagnostics

**Scientific Instruments:** WFC3/IR

**Special Requirements:** (none)

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### Exposures

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**Orbit Structure**

- **Orbit 1**
  - GS Acq
  - Exp. 1
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  - Unused Orbital Visibility = 2988
  - Occultation

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*Server Version: 20230626*
Proposal 17022 - F153M (99) - WFC3 CSM Monitor with Earth Flats

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Orbit Structure:
- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988
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Server Version: 20230626

Visit
Proposal 17022, F153M (99), scheduling
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)
Proposal 17022 - F153M (0A) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (0A), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1
GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988

Occultation

Server Version: 20230626

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Proposal 17022 - F153M (0B) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (0B), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1

GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988

Server Version: 20230626

Occultation
## Visit

**Proposal 17022, F153M (0C), completed**

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

**Mon Oct 09 22:01:25 GMT 2023**

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**Orbit Structure**

- **Orbit 1**
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  - Exp. 1
  - Unused Orbital Visibility = 2988
  - Reconfig
  - Occultation

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**Server Version:** 20230626

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Proposal 17022 - F153M (0D) - WFC3 CSM Monitor with Earth Flats

- **Visit**
  - Proposal 17022, F153M (0D), completed
  - Diagnostic Status: No Diagnostics
  - Scientific Instruments: WFC3/IR
  - Special Requirements: (none)

- **Exposures**
  
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- **Orbit Structure**

  - GS Acq
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  - Reconfig
  - Unused Orbital Visibility = 2988
  - Occultation

  *Server Version: 20230626*
Proposal 17022 - F153M (0E) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (0E), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1
- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

Server Version: 20230626

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### Proposal 17022 - F153M (0F) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 17022, F153M (0F), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Mon Oct 09 22:01:25 GMT 2023**

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  - Unused Orbital Visibility = 2988
  - Occultation

**Server Version: 20230626**
Proposal 17022 - F153M (0G) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (0G), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

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Unused Orbital Visibility = 2908

Server Version: 20230626

Occultation
**Proposal 17022 - F153M (0H) - WFC3 CSM Monitor with Earth Flats**

**Visit**
- Proposal 17022, F153M (0H), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Mon Oct 09 22:01:25 GMT 2023**

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**Orbit Structure**

- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988
- Occultation

**Server Version:** 20230626
Visit
Proposal 17022, F153M (0I), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1
- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig

Occultation

Server Version: 20230626
# Proposal 17022 - F153M (0J) - WFC3 CSM Monitor with Earth Flats

**Visit**

Proposal 17022, F153M (0J), completed  
Diagnostic Status: No Diagnostics  
Scientific Instruments: WFC3/IR  
Special Requirements: (none)

**Exposures**

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**Orbit Structure**

- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988

- Occultation

*Server Version: 20230626*
Proposal 17022 - F153M (0K) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (0K), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Mon Oct 09 22:01:25 GMT 2023

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Orbit Structure

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Unused Orbital Visibility = 2988
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Server Version: 20230626

[1]
Proposal 17022 - F153M (0L) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (0L), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

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Server Version: 20230626
Proposal 17022 - F153M (0M) - WFC3 CSM Monitor with Earth Flats

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Proposal 17022, F153M (0M), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

[Diagram showing orbit structure with labels: GS Acq, Exp. 1, Reconfig, Unused Orbital Visibility = 2988, Occultation]

Server Version: 20230626
**Proposal 17022 - F153M (0N) - WFC3 CSM Monitor with Earth Flats**

Visit:
- Proposal 17022, F153M (0N), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

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### Exposures

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**Orbit Structure**

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

**Server Version:** 20230626
## Visit
Proposal 17022, F153M (0O), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

## Exposures

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## Orbit Structure

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

Server Version: 20230626
Proposal 17022 - F153M (0P) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (0P), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1

GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988

Occultation

Server Version: 20230626
### Proposal 17022 - F153M (0Q) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 17022, F153M (0Q), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Mon Oct 09 22:01:25 GMT 2023**

**Diagnostic Status:** No Diagnostics

**Scientific Instruments:**
- WFC3/IR

**Special Requirements:**
- (none)

#### Exposures

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**Orbit Structure**

**Orbit 1**
- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

**Server Version: 20230626**
### Visit

Proposal 17022, F153M (0R), completed  
Diagnostic Status: No Diagnostics  
Scientific Instruments: WFC3/IR  
Special Requirements: (none)

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**Orbit Structure**

- GS Acq
  - Exp. 1
    - Unused Orbital Visibility = 2988
    - Reconfig
    - Occultation

Server Version: 20230626
**Proposal 17022 - F153M (0S) - WFC3 CSM Monitor with Earth Flats**

Visit
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Proposal 17022, F153M (0S), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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**Orbit Structure**

Orbit 1
- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988

Occultation

Server Version: 20230626
### Visit

Proposal 17022, F153M (0T), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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**Orbit Structure**

- **Server Version: 20230626**
- **Orbit 1**
  - GS Acq
  - Exp. 1
  - Unused Orbital Visibility = 2988
  - Reconfig
  - Occultation

**Orbit 1**

- **Unused Orbital Visibility = 2988**
- **Reconfig**
- **Occultation**
Proposal 17022 - F153M (0U) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (0U), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1

GS Acq
Exp. 1
Unused Orbital Visibility = 2988
Reconfig

Occultation

Server Version: 20230626
Proposal 17022 - F153M (0V) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (0V), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1
- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig

Server Version: 20230626
Proposal 17022 - F153M (0W) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (0W), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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## Exposures

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## Orbit Structure

**Orbit 1**
- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988

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**Server Version: 20230626**
Proposal 17022 - F153M (0X) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (0X), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1
GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988
Occultation

Server Version: 20230626
Proposal 17022 - F153M (0Y) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (0Y), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1
- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

Server Version: 20230626
### Visit

**Proposal 17022, F153M (0Z), completed**

**Diagnostic Status:** No Diagnostics

**Scientific Instruments:** WFC3/IR

**Special Requirements:** (none)

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**Orbit Structure**

- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988

**Occultation**

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**Server Version:** 20230626
Proposal 17022 - F153M (1A) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (1A), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1
GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988

Server Version: 20230626
**Proposal 17022 - F153M (1B) - WFC3 CSM Monitor with Earth Flats**

**Visit**
- Proposal 17022, F153M (1B), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Mon Oct 09 22:01:25 GMT 2023**

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**Orbit Structure**

- ** Orbit 1 **
  - GS Acq
  - Exp. 1
  - Unused Orbital Visibility = 2988
  - Reconfig

- Occultation

**Server Version: 20230626**
Proposal 17022 - F153M (1C) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (1C), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1
GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988

Occultation

Server Version: 20230626
Proposal 17022 - F153M (1D) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (1D), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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## Orbits

### Orbit Structure

- GS Acq
- Reconfig
- Unused Orbital Visibility = 2988
- Occultation

Server Version: 20230626
### Proposal 17022 - F153M (1E) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 17022, F153M (1E), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Mon Oct 09 22:01:25 GMT 2023**

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**Orbit Structure**

- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988
- Occultation

**Server Version:** 20230626
### Proposal 17022 - F153M (1F) - WFC3 CSM Monitor with Earth Flats

**Visit**

- Proposal 17022, F153M (1F), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Exposures**

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**Orbit Structure**

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

*Server Version: 20230626*
Proposal 17022 - F153M (1G) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (1G), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

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    GS Acq
    Exp. 1
    Reconfig
    Unused Orbital Visibility = 2988

Server Version: 20230626
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### Orbit Structure

- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988

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**Orbit 1**

**Server Version: 20230626**
Proposal 17022 - F153M (1I) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (1I), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Mon Oct 09 22:01:25 GMT 2023

### Exposures

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**Orbit Structure**

Orbit 1
- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988

Server Version: 20230626

[Diagram of Orbit 1 showing GS Acq, Exp. 1, Reconfig, and unused orbital visibility with an arrow indicating Occultation.]
### Proposal 17022 - F153M (1J) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 17022, F153M (1J), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Mon Oct 09 22:01:25 GMT 2023**

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**Orbit Structure**

Unused Orbital Visibility = 2988

Reconfig

Occultation

Server Version: 20230626
Proposal 17022 - F153M (1K) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (1K), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Mon Oct 09 22:01:25 GMT 2023

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Orbit Structure

Orbit 1
GS Acq
Exp. 1
Unused Orbital Visibility = 2988
Reconfig

Occultation

Server Version: 20230626
Proposal 17022 - F153M (1L) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (1L), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Mon Oct 09 22:01:25 GMT 2023

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Orbit Structure

Orbit 1
GS Acq
Exp. 1
Unused Orbital Visibility = 2988
Reconfig

Occultation

Server Version: 20230626
Proposal 17022 - F153M (1M) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (1M), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1
- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Occultation

Server Version: 20230626
Proposal 17022 - F153M (1N) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (1N), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Mon Oct 09 22:01:25 GMT 2023

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Orbit Structure

Orbit 1

GS Acq
Exp. 1
Unused Orbital Visibility = 2988
Reconfig
Occultation

Server Version: 20230626
**Visit**

Proposal 17022, F153M (1O), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

**Mon Oct 09 22:01:26 GMT 2023**

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**Orbit Structure**

1. GS Acq
2. Exp. 1
3. Reconfig

Unused Orbital Visibility = 2988

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Server Version: 20230626
### Proposal 17022 - F153M (1P) - WFC3 CSM Monitor with Earth Flats

#### Visit
- Proposal 17022, F153M (1P), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

#### Exposures

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#### Orbit Structure

- **Orbit 1**
- GS Acq
- Exp. 1
  - Unused Orbital Visibility = 2988
  - Reconfig

- Occultation

**Server Version: 20230626**
**Proposal 17022 - F153M (1Q) - WFC3 CSM Monitor with Earth Flats**

Visit
---
Proposal 17022, F153M (1Q), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Mon Oct 09 22:01:26 GMT 2023

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**Orbit Structure**

Orbit 1

- GS Acq
- Exp. 1

Unused Orbital Visibility = 2988

Reconfig

Occultation

Server Version: 20230626

154
Proposal 17022 - F153M (1R) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (1R), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Mon Oct 09 22:01:26 GMT 2023

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Orbit Structure

Orbit 1

Server Version: 20230626
Proposal 17022 - F153M (1S) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (1S), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Mon Oct 09 22:01:26 GMT 2023

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Orbit Structure

 unused Orbital Visibility = 2988

Server Version: 20230626
Proposal 17022 - F153M (1T) - WFC3 CSM Monitor with Earth Flats

Visit

- Proposal 17022, F153M (1T), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

Mon Oct 09 22:01:26 GMT 2023

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Orbit Structure

- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988
- Occultation

Server Version: 20230626
Visit
Proposal 17022, F153M (1V), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Mon Oct 09 22:01:26 GMT 2023

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Orbit Structure

unused orbital visibility = 2988

Occultation

Server Version: 20230626
Proposal 17022 - F153M (1W) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (1W), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Mon Oct 09 22:01:26 GMT 2023

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Orbit Structure

**Orbit 1**

GS Acq
Exp. 1
Unused Orbital Visibility = 2988
Reconfig

Occultation

Server Version: 20230626
### Proposal 17022 - F153M (1X) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 17022, F153M (1X), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Mon Oct 09 22:01:26 GMT 2023**

**Diagnostic Status:** No Diagnostics

**Scientific Instruments:** WFC3/IR

**Special Requirements:** (none)

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#### Orbit Structure

**Orbit 1**
- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig

**Occultation**

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**Server Version:** 20230626
Proposal 17022 - F153M (1Y) - WFC3 CSM Monitor with Earth Flats

Visit
- Proposal 17022, F153M (1Y), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

Mon Oct 09 22:01:26 GMT 2023

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

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Orbit Structure

Orbit 1
- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig

Server Version: 20230626

Occultation
Proposal 17022 - F153M (1Z) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (1Z), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Mon Oct 09 22:01:26 GMT 2023

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Orbit Structure

Orbit Structure Diagram:

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

Server Version: 20230626
## Proposal 17022 - F153M (2A) - WFC3 CSM Monitor with Earth Flats

- **Visit:** Proposal 17022, F153M (2A), completed
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

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### Orbit Structure

- **Orbit 1**
  - GS Acq
  - Exp. 1
    - Unused Orbital Visibility = 2988
    - Reconfig
  - Occultation

**Server Version: 20230626**
Proposal 17022 - F153M (2B) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (2B), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Mon Oct 09 22:01:26 GMT 2023

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Orbit Structure

Orbit 1
GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988

Occultation

Server Version: 20230626
Proposal 17022 - F153M (2C) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (2C), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Mon Oct 09 22:01:26 GMT 2023

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

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Orbit Structure

Orbit 1

GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988

Occultation

Server Version: 20230626
### Exposure Details

#### Proposal 17022 - F153M (2E) - WFC3 CSM Monitor with Earth Flats

- **Visit**: Proposal 17022, F153M (2E), completed
- **Diagnostic Status**: No Diagnostics
- **Scientific Instruments**: WFC3/IR
- **Special Requirements**: (none)

#### Exposures

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#### Orbit Structure

- **Orbit 1**
  - GS Acq
  - Exp. 1
  - Unused Orbital Visibility = 2988
  - Reconfig

- Occultation

**Server Version: 20230626**
Proposal 17022 - F153M (2F) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (2F), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Exposures

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Orbit 1
GS Acq
Exp. 1
Occultation
Unused Orbital Visibility = 2988

Server Version: 20230626
Proposal 17022 - F153M (2G) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (2G), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Server Version: 20230626

Orbit 1
GS Acq
Exp. 1
Unused Orbital Visibility = 2988
Reconfig
Occultation
Proposal 17022 - F153M (2H) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (2H), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988
- Occultation

Server Version: 20230626
Proposal 17022 - F153M (2I) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (2I), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1
GS Acq
Exp. 1
Unused Orbital Visibility = 2988
Reconfig

Occultation

Server Version: 20230626

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**Visit**

Proposal 17022, F153M (2J), completed  
Diagnostic Status: No Diagnostics  
Scientific Instruments: WFC3/IR  
Special Requirements: (none)

**Exposures**

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**Orbit Structure**

Orbit 1  
GS Acq  
Exp. 1  
Unused Orbital Visibility = 2988  
Reconfig  
Occultation

Server Version: 20230626
Proposal 17022 - F153M (2K) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (2K), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1
- GS Acq
- Exp. 1

Unused Orbital Visibility = 2988

Occultation

Server Version: 20230626
### Visit

**Proposal 17022, F153M (2L), completed**

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

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### Orbit Structure

**Orbit 1**

- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988

**Occultation**

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Server Version: 20230626
Proposal 17022 - F153M (2M) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (2M), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Exposures

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Orbit Structure

Orbit 1

GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988
Occultation

Server Version: 20230626

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Proposal 17022 - F153M (2N) - WFC3 CSM Monitor with Earth Flats

Visit
- Proposal 17022, F153M (2N), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

Exposures

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Orbit Structure
- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig

Server Version: 20230626
**Proposal 17022 - F153M (2O) - WFC3 CSM Monitor with Earth Flats**

Visit Proposal 17022, F153M (2O), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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**Orbit 1**

- GS Acq
- Exp. 1

Unused Orbital Visibility = 2988

Occultation

Server Version: 20230626

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Proposal 17022 - F153M (2P) - WFC3 CSM Monitor with Earth Flats

Visit Proposal 17022, F153M (2P), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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**Orbit Structure**

Universe Orbital Visibility = 2988

Exp. 1

Reconfig

Occultation

Server Version: 20230626
Proposal 17022 - F153M (2Q) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (2Q), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Orbit 1
GS Acq
Exp. 1
Unused Orbital Visibility = 2988
Reconfig

Server Version: 20230626
### Visit

**Visit**

- Proposal 17022, F153M (2R), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

### Proposals

**Proposal 17022 - F153M (2R) - WFC3 CSM Monitor with Earth Flats**

### Exposures

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### Orbit Structure

- **Orbit 1**
  - GS Acq
  - Exp. 1
  - Reconfig
  - Unused Orbital Visibility = 2988
  - Occultation

**Server Version: 20230626**

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Visit
Proposal 17022, F153M (2S), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

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GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988

Occultation

Server Version: 20230626
Visit

Proposal 17022, F153M (2T), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

**Orbit 1**
- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988

**Occultation**

Server Version: 20230626
Visit
Proposal 17022, F153M (2U), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Orbit 1
GS Acq

Exp. 1
Unused Orbital Visibility = 2988
Reconfig

Occultation
Proposal 17022 - F153M (2V) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (2V), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Mon Oct 09 22:01:26 GMT 2023

Exposures

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Orbit Structure

- Orbit 1
  - GS Acq
  - Exp. 1
  - Reconfig
  - Unused Orbital Visibility = 2988

Server Version: 20230626

Unused Orbital Visibility = 2988

Occultation

0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec
## Proposal 17022 - F153M (2W) - WFC3 CSM Monitor with Earth Flats

### Visit
- Proposal 17022, F153M (2W), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

### Mon Oct 09 22:01:26 GMT 2023

### Exposures

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### Orbit Structure

**Orbit 1**
- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988
- Occultation

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**Server Version: 20230626**
### Visit
Proposal 17022, F153M (2X), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

### Exposures

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### Orbit Structure

**Orbit 1**
- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988

**Server Version: 20230626**
- Occultation
Proposal 17022 - F153M (2Y) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (2Y), completed
Diagnoistic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Mon Oct 09 22:01:26 GMT 2023

Exposures

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Orbit Structure

Orbit 1
GS Acq
Exp. 1
Unused Orbital Visibility = 2988
Reconfig

Occultation

Server Version: 20230626
Proposal 17022 - F153M (2Z) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (2Z), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

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GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988
Occultation

Server Version: 20230626

189
Proposal 17022 - F153M (3A) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (3A), completed

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

Exposures

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Orbit Structure

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GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988

Occultation

Server Version: 20230626
Proposal 17022 - F153M (3B) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (3B), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Exposures

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Orbit Structure

Orbit 1
GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988

Occultation

Server Version: 20230626
Proposal 17022 - F153M (3C) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (3C), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Orbit 1
- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig

Occultation

Server Version: 20230626
**Proposal 17022 - F153M (3D) - WFC3 CSM Monitor with Earth Flats**

Visit

- Proposal 17022, F153M (3D), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Exposures**

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**Orbit Structure**

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

**Server Version: 20230626**
Proposition 17022 - F153M (3E) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (3E), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1

- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988

Server Version: 20230626

Occultation
Proposal 17022 - F153M (3F) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (3F), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

**Orbit 1**
- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988
- Occultation

Server Version: 20230626
Visit
Proposal 17022, F153M (3G), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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**Exposures**

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**Orbit Structure**

Server Version: 20230626

Orbit 1

GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988

Occultation
Proposal 17022 - F153M (3H) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (3H), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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

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Orbit Structure

Orbit 1
- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988

Server Version: 20230626

Occultation
**Proposal 17022 - F153M (3I) - WFC3 CSM Monitor with Earth Flats**

Visit: Proposal 17022, F153M (3I), completed

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

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**Orbit Structure**

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

Server Version: 20230626
## Proposal 17022 - F153M (3J) - WFC3 CSM Monitor with Earth Flats

### Visit
- Proposal 17022, F153M (3J), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

### Exposures

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### Orbit Structure
- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

Server Version: 20230626
### Proposal 17022 - F153M (3K) - WFC3 CSM Monitor with Earth Flats

#### Visit
- **Proposal 17022, F153M (3K), completed**
- **Diagnostic Status**: No Diagnostics
- **Scientific Instruments**: WFC3/IR
- **Special Requirements**: (none)

#### Exposures

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#### Orbit Structure
- **Orbit 1**
  - GS Acq
  - Exp. 1
  - Reconfig
  - Unused Orbital Visibility = 2988
  - Occultation

**Server Version: 20230626**
Proposal 17022 - F153M (3L) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (3L), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Unchanged Orbital Visibility = 2988

Exp. 1

Reconfig

Occultation

Server Version: 20230626
Proposal 17022 - F153M (3M) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (3M), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Orbit 1

GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988

Occultation

Server Version: 20230626
## Proposal 17022 - F153M (3N) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 17022, F153M (3N), completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

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### Orbit Structure

- **Orbit 1**
  - GS Acq
  - Exp. 1
  - Unused Orbital Visibility = 2988
  - Reconfig

- **Occultation**

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**Server Version: 20230626**
### Visit
Proposal 17022, F153M (3O), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

### Exposures

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### Orbit Structure

**Orbit 1**
- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig

**Occultation**
Proposal 17022 - F153M (3P) - WFC3 CSM Monitor with Earth Flats

Visit 17022, F153M (3P), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Server Version: 20230626
Proposal 17022 - F153M (3Q) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (3Q), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

Server Version: 20230626

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### Visit
Proposal 17022, F153M (3R), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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### Orbit Structure

**Orbit 1**

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig

**Server Version:** 20230626
Proposal 17022 - F153M (3S) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (3S), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Orbit 1

GS Acq
Exp. 1
Unused Orbital Visibility = 2988
Reconfig

Occultation
Visit
Proposal 17022, F153M (3T), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Proposal 17022 - F153M (3U) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (3U), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Server Version: 20230626
Proposal 17022 - F153M (3V) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (3V), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1
- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

Server Version: 20230626

Mon Oct 09 22:01:26 GMT 2023
Proposal 17022 - F153M (3W) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (3W), completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Mon Oct 09 22:01:26 GMT 2023

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Orbit Structure

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GS Acq
Exp. 1
Unused Orbital Visibility = 2988
Reconfig

Occultation

Server Version: 20230626
Proposal 17022 - F153M (3X) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (3X)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

G1 Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988

Server Version: 20230626
### Visit

**Proposal 17022, F153M (3Y)**

**Diagnostic Status:** No Diagnostics

**Scientific Instruments:** WFC3/IR

**Special Requirements:** (none)

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**Orbit Structure**

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

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**Server Version:** 20230626
Proposal 17022 - F153M (3Z) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (3Z)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1

GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988

Server Version: 20230626
# Proposal 17022 - F153M (4A) - WFC3 CSM Monitor with Earth Flats

Visit Proposal 17022, F153M (4A)

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

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Orbit Structure

Server Version: 20230626
Proposal 17022 - F153M (4B) - WFC3 CSM Monitor with Earth Flats

Visit

Proposal 17022, F153M (4B)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit 1

GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988
Occultation

Server Version: 20230626
Proposal 17022 - F153M (4C) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (4C)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1
GS Acq
Exp. 1
Reconfig

Unused Orbital Visibility = 2988

Occultation

Server Version: 20230626
Proposal 17022 - F153M (4D) - WFC3 CSM Monitor with Earth Flats

Visit

**Proposal 17022, F153M (4D)**

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

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**Orbit Structure**

- GS Acq
- Exp. 1
- Reconf
- Unused Orbital Visibility = 2988
- Occultation

**Exposures**

*Server Version: 20230626*
### Visit

**Proposal 17022, F153M (4E)**

**Diagnostic Status:** No Diagnostics

**Scientific Instruments:** WFC3/IR

**Special Requirements:** (none)

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**Orbit Structure**

- **Orbit 1**
  - GS Acq
  - Exp. 1
  - Unused Orbital Visibility = 2988
  - Reconfig

- **Occultation**

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**Server Version:** 20230626
Proposal 17022 - F153M (4F) - WFC3 CSM Monitor with Earth Flats

Diagnosis Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit 1
GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988

Server Version: 20230626

Occultation
Proposal 17022 - F153M (4G) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (4G)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1
- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988
- Occultation

Server Version: 20230626
Proposal 17022 - F153M (4H) - WFC3 CSM Monitor with Earth Flats

Visit 1
Proposal 17022, F153M (4H)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1
GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988

Server Version: 20230626

Occultation
Proposal 17022 - F153M (4I) - WFC3 CSM Monitor with Earth Flats

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Orbit Structure

Server Version: 20230626
## Visit

**Proposal 17022, F153M (4J)**

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

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## Orbit Structure

**Orbit 1**

- **GS Acq**
- **Exp. 1**
- **Unused Orbital Visibility = 2988**
- **Occultation**

**Server Version:** 20230626
## Visit

**Proposal 17022, F153M (4K)**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

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### Orbit Structure

- **Orbit 1**
  - GS Acq
  - Exp. 1
  - Reconfig
  - Unused Orbital Visibility = 2988

**Server Version:** 20230626
### Proposal 17022 - F153M (4L) - WFC3 CSM Monitor with Earth Flats

**Visit**
- **Proposal 17022, F153M (4L)**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

**Mon Oct 09 22:01:27 GMT 2023**

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#### Orbit Structure

**Orbit 1**
- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig

**Server Version:** 20230626
Proposal 17022 - F153M (4M) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (4M)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Mon Oct 09 22:01:27 GMT 2023

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Orbit 1
GS Acq
Exp. 1
Unused Orbital Visibility = 2988
Reconfig
Occultation

Server Version: 20230626
**Proposal 17022 - F153M (4N) - WFC3 CSM Monitor with Earth Flats**

**Visit**
- Proposal 17022, F153M (4N)
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Mon Oct 09 22:01:27 GMT 2023**

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**Orbit Structure**

Unused Orbital Visibility = 2988

Server Version: 20230626
## Proposal 17022 - F153M (4O) - WFC3 CSM Monitor with Earth Flats

### Visit Information
- **Proposal 17022, F153M (4O)**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

### Exposures

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### Orbit Structure
- **Orbit 1**
  - GS Acq
  - Reconfig
  - Unused Orbital Visibility = 2988
  - Occultation

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*Server Version: 20230626*
Visit Proposal 17022 - F153M (4P) - WFC3 CSM Monitor with Earth Flats

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

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Orbit Structure

Orbit 1

GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988

Occultation
## Proposal 17022 - F153M (4Q) - WFC3 CSM Monitor with Earth Flats

### Visit
- **Proposal 17022, F153M (4Q)**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

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### Orbit Structure
- **Orbit 1**
  - GS Acq
  - Exp. 1
  - Unused Orbital Visibility = 2988
  - Reconfig
  - Occultation

---

**Server Version:** 20230626
Proposal 17022 - F153M (4R) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (4R)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Orbit 1
- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2988
- Occultation

Server Version: 20230626
Proposal 17022 - F153M (4S) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (4S)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Mon Oct 09 22:01:27 GMT 2023

Exposures

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Orbit Structure

Orbit 1
GS Acq
Exp. 1
Unused Orbital Visibility = 2988
Reconfig

Server Version: 20230626
Proposal 17022 - F153M (4T) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (4T)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Orbit 1

GS Acq
Exp. 1
Unused Orbital Visibility = 2988
Reconfig

Occultation

Server Version: 20230626
Proposal 17022 - F153M (4U) - WFC3 CSM Monitor with Earth Flats

Visit

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

Exposures

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Orbit Structure

Server Version: 20230626
Proposal 17022 - F153M (4V) - WFC3 CSM Monitor with Earth Flats

Visit

Proposal 17022, F153M (4V)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit 1

GS Acq

Exp. 1

Unused Orbital Visibility = 2988

Reconfig

Occultation

Server Version: 20230626
### Proposal 17022 - F153M (4W) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 17022, F153M (4W)
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Exposures**

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**Orbit Structure**

- Orbit 1
  - GS Acq
  - Exp. 1
  - Unused Orbital Visibility = 2988
  - Reconfig
  - Occultation

Server Version: 20230626
Proposal 17022 - F153M (4X) - WFC3 CSM Monitor with Earth Flats

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**Orbit Structure**

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

**Server Version:** 20230626

Visit

Proposal 17022, F153M (4X)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)
Proposal 17022 - F153M (4Y) - WFC3 CSM Monitor with Earth Flats

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

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### Orbit Structure

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2988
- Reconfig
- Occultation

**Server Version: 20230626**
Proposal 17022 - F153M (5A) - WFC3 CSM Monitor with Earth Flats

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**Orbit Structure**

Server Version: 20230626

Unseed Orbital Visibility = 2988

Occultation
Proposal 17022 - F153M (5B) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (5B)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Mon Oct 09 22:01:27 GMT 2023

Exposures

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Orbit 1

Server Version: 20230626

Orbit Structure

Exp. 1

Unassembled Orbital Visibility = 2988

Occultation

GS Acq

Reconfig

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[1]
### Visit

**Proposal 17022, F153M (5C)**

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

### Exposures

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### Orbit Structure

- **Orbit 1**
- **GS Acq**
- **Exp. 1**
- **Unused Orbital Visibility = 2988**
- **Reconfig**
- **Occultation**

**Server Version: 20230626**
Proposal 17022, F153M (5D) - WFC3 CSM Monitor with Earth Flats

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

Exposures

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Orbit 1
GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2988

Occultation

Server Version: 20230626
Proposal 17022 - F153M (5E) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (5E)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Orbit 1

GS Acq
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Reconfig
Unused Orbital Visibility = 2988

Occultation

Server Version: 20230626

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**Orbit Structure**

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Unused Orbital Visibility = 2988

Occultation