Proposal 17022 (STScI Edit Number: 0, Created: Thursday, July 14, 2022 at 9:02:56 AM Eastern Standard Time) - Overview

17022 - WFC3 CSM Monitor with Earth Flats
Cycle: 30, Proposal Category: CAL/WFC3
(Availability Mode: RESTRICTED)

INVESTIGATORS

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<tr>
<th>Name</th>
<th>Institution</th>
<th>E-Mail</th>
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<tr>
<td>Frederick Dauphin (PI) (Contact)</td>
<td>Space Telescope Science Institute</td>
<td><a href="mailto:fdauphin@stsci.edu">fdauphin@stsci.edu</a></td>
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<tr>
<td>Dr. Joel David Green (CoI) (Contact)</td>
<td>Space Telescope Science Institute</td>
<td><a href="mailto:jgreen@stsci.edu">jgreen@stsci.edu</a></td>
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VISITS

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200 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.

--- Additional Comments ---
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.
### Proposal 17022 - F153M (01) - WFC3 CSM Monitor with Earth Flats

- **Visit**
  - Proposal 17022, F153M (01)
  - Diagnostic Status: No Diagnostics
  - Scientific Instruments: WFC3/IR
  - Special Requirements: (none)

- **Exposures**
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### Orbit Structure

- **Orbit 1**
  - GS Acq
  - Unused Orbital Visibility = 2994
  - Reconfig
  - Occultation

- **Server Version: 20220516**
# Proposal 17022 - F153M (02) - WFC3 CSM Monitor with Earth Flats

## Visit

- **Proposal 17022, F153M (02)**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

## Exposures

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## Orbit Structure

![Orbit Structure Diagram](attachment:orbit.png)
Proposal 17022 - F153M (03) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (03)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Thu Jul 14 14:02:56 GMT 2022

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Orbit Structure

Server Version: 20220516

Orbit 1
GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2994
Occultation

Server Version: 20220516
Proposal 17022 - F153M (04) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (04)
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 = 2994
Reconfig
Occultation

Server Version: 20220516
### Proposal 17022 - F153M (05) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Visit Description: Proposal 17022, F153M (05)
- 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 = 2994

*Server Version: 20220516*
Proposal 17022 - F153M (06) - WFC3 CSM Monitor with Earth Flats

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

Exposures

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Orbit Structure

Server Version: 20220516

[Orbit Diagram]

Orbit 1
GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2994

Occultation
### Proposal 17022 - F153M (07) - WFC3 CSM Monitor with Earth Flats

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

#### Exposures

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#### Orbit Structure

- **Server Version:** 20220516
- **Occultation**

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[Diagram of Orbit Structure]

---

17
**Proposal 17022 - F153M (08) - WFC3 CSM Monitor with Earth Flats**

**Visit**
- Proposal 17022, F153M (08)
- 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 = 2994
- Reconfig

- Occultation

**Server Version: 20220516**
Proposal 17022 - F153M (09) - WFC3 CSM Monitor with Earth Flats

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

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Orbit Structure

- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation

Server Version: 20220516

Thu Jul 14 14:02:57 GMT 2022
Proposal 17022 - F153M (10) - WFC3 CSM Monitor with Earth Flats

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

Thu Jul 14 14:02:57 GMT 2022

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Orbit Structure

Occultation

Server Version: 20220516
Proposal 17022 - F153M (11) - WFC3 CSM Monitor with Earth Flats

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

Thu Jul 14 14:02:57 GMT 2022

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Orbit Structure

Server Version: 20220516
### Proposal 17022 - F153M (12) - WFC3 CSM Monitor with Earth Flats

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

#### Exposures

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**Orbit Structure**

- **Server Version:** 20220516
- **Unused Orbital Visibility:** 2994
- **Occultation**
### Proposal 17022 - F153M (13) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 17022, F153M (13)
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Exposures**

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**Orbit Structure**

- GS Acq
- Unused Orbital Visibility = 2994
- Reconfig

Server Version: 20220516
### Visit

**Proposal 17022, F153M (14)**

**Diagnostic Status:** No Diagnostics

**Scientific Instruments:** WFC3/IR

**Special Requirements:** (none)

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**Orbit Structure**

![Orbit Diagram](image-url)

*Server Version: 20220516*
Proposal 17022 - F153M (15) - WFC3 CSM Monitor with Earth Flats

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

Thu Jul 14 14:02:57 GMT 2022

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Orbit Structure
- GS Acq
- Unused Orbital Visibility = 2994
- Reconfig
- Occultation

Server Version: 20220516
### Proposal 17022 - F153M (16) - WFC3 CSM Monitor with Earth Flats

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**Orbit Structure**

Server Version: 20220516
Proposal 17022 - F153M (17) - WFC3 CSM Monitor with Earth Flats

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Orbit Structure

Server Version: 20220516
Proposition 17022 - F153M (18) - WFC3 CSM Monitor with Earth Flats

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

Exposures

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Orbit Structure

- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation

Server Version: 20220516
Proposal 17022 - F153M (19) - WFC3 CSM Monitor with Earth Flats

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

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Orbit Structure

Server Version: 20220516
Proposal 17022 - F153M (20) - WFC3 CSM Monitor with Earth Flats

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

Thu Jul 14 14:02:57 GMT 2022

Exposures

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Orbit Structure

Server Version: 20220516
Proposal 17022 - F153M (21) - WFC3 CSM Monitor with Earth Flats

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**Thu Jul 14 14:02:57 GMT 2022**

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**Orbit Structure**

- **GS Acq**
- **Exp. 1**
- **Occultation**
- **Unused Orbital Visibility = 2994**

**Server Version: 20220516**

31
### Proposal 17022 - F153M (22) - WFC3 CSM Monitor with Earth Flats

**Visit**

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

**Orbit Structure**

**Exposures**

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![Orbit Structure Diagram](Server Version: 20220516)
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Orbit Structure:

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2994
- Reconfig

Occultation

Server Version: 20220516
## Proposal 17022 - F153M (24) - WFC3 CSM Monitor with Earth Flats

### Visit
- **Label:** Proposal 17022, F153M (24)
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

### Exposures

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### Orbit Structure

[Orbit Diagram Image]

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*Server Version: 20220516*
Visit Proposal 17022, F153M (25)  
Diagnostic Status: No Diagnostics  
Scientific Instruments: WFC3/IR  
Special Requirements: (none)  

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Orbit Structure

Server Version: 20220516
### Proposal 17022 - F153M (26) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Visit Proposal 17022, F153M (26)
- 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 = 2994
- Reconfig

- Occupation

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Server Version: 20220516
### Proposal 17022 - F153M (27) - WFC3 CSM Monitor with Earth Flats

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

**Exposures**

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**Orbit Structure**

Orbit 1
- GS Acq
- Unused Orbital Visibility = 2994
- Reconfig

Server Version: 20220516
## Proposal 17022 - F153M (29) - WFC3 CSM Monitor with Earth Flats

### Visit
- **Proposal 17022, F153M (29)**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

### Exposures

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### Orbit Structure

![Orbit Structure Diagram](image-url)

- **Server Version:** 20220516
- **Occultation**
- **Unused Orbital Visibility = 2994**
- **Exp. 1**
- **Reconfig**
## Exposures

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### Diagram

- **Orbit 1**
  - GS Acq
  - Exp. 1
  - Unused Orbital Visibility = 2994
  - Reconfig
  - Occultation
# Proposal 17022 - F153M (31) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Visit Proposal 17022, F153M (31)
- 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 = 2994
  - Occultation

**Server Version:** 20220516
### Visit

**Proposal 17022, F153M (32)**

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

### Exposures

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### Orbit Structure

- **GS Acq**
- **Reconfig**
- **Unused Orbital Visibility = 2994**
- **Occultation**

*Server Version: 20220516*
Exposures

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Orbit Structure

Server Version: 20220516

Occultation

Unused Orbital Visibility = 2994

Reconfig
## Visit

**Proposal 17022, F153M (34)**

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

## Exposures

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## Orbit Structure

- **Orbit 1**
  - GS Acq
  - Unused Orbital Visibility = 2994
  - Reconfig

- **Server Version:** 20220516
### Proposal 17022 - F153M (35) - WFC3 CSM Monitor with Earth Flats

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

#### Exposures

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- **Unused Orbital Visibility = 2994**
- **Reconfig**
- **Occultation**
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**Orbit Structure**

- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation

Server Version: 20220516
### Visit

**Proposal 17022, F153M (37)**

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

### Exposures

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### Orbit Structure

- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation

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Server Version: 20220516
**Visit**

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

**Exposures**

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**Orbit Structure**

- **GS Acq**
- **Exp. 1**
- **Occultation**

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**Server Version**: 20220516
### Proposal 17022 - F153M (39) - WFC3 CSM Monitor with Earth Flats

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

**Exposures**

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**Orbit Structure**

- GS Acq
- Unused Orbital Visibility = 2994
- Exp. 1
- Occultation
- Server Version: 20220516

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Thu Jul 14 14:02:58 GMT 2022
### Proposal 17022 - F153M (40) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 17022, F153M (40)
- 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 = 2994
- Reconfig
- Occultation

Server Version: 20220516

Thu Jul 14 02:58 GMT 2022
### Proposal 17022 - F153M (41) - WFC3 CSM Monitor with Earth Flats

**Visit**

*Proposal 17022, F153M (41)*  
Diagnostic Status: No Diagnostics  
Scientific Instruments: WFC3/IR  
Special Requirements: (none)

**Exposures**

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**Orbit Structure**

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Server Version: 20220516

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Orbit 1  
GS Acq  
Exp. 1  
Reconfig  
Unused Orbital Visibility = 2994  
Occultation
### Proposal 17022 - F153M (42) - WFC3 CSM Monitor with Earth Flats

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

**Exposures**

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**Orbit Structure**
- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation

**Server Version:** 20220516
### Exposures

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### Orbit Structure

Orbit 1

- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994

Server Version: 20220516
### Proposal 17022 - F153M (44) - WFC3 CSM Monitor with Earth Flats

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

**Exposures**
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**Orbit Structure**

- Server Version: 20220516
- Unused Orbital Visibility = 2994
- Reconfig
- Occultation
Proposal 17022 - F153M (45) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (45)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures
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Orbit Structure

Server Version: 20220516
## Visit

**Proposal 17022, F153M (46)**  
**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 = 2994**
  - **Occultation**

**Server Version: 20220516**

---

56
### Proposal 17022, F153M (47) - 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**
- **Occultation**
- **Server Version: 20220516**
Proposal 17022 - F153M (48) - WFC3 CSM Monitor with Earth Flats

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

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Orbit Structure

Server Version: 20220516
### Proposal 17022 - F153M (49) - WFC3 CSM Monitor with Earth Flats

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

**Exposures**

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**Orbit Structure**
- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation

Server Version: 20220516
Proposal 17022 - F153M (50) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (50)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure
Proposal 17022 - F153M (51) - WFC3 CSM Monitor with Earth Flats

Visit

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

Thu Jul 14 14:02:58 GMT 2022

### Exposures

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**Orbit Structure**

- Orbit 1
- GS Acq
- Unused Orbital Visibility = 2994
- Reconfig
- Occultation

Server Version: 20220516
**Proposal 17022 - F153M (52) - WFC3 CSM Monitor with Earth Flats**

**Visit**
- Proposal 17022, F153M (52)
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Exposures**

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**Orbit Structure**

- GS Acq
- Unused Orbital Visibility = 2994
- Occlusion
- Server Version: 20220516
Proposal 17022 - F153M (53) - WFC3 CSM Monitor with Earth Flats

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

Exposures

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Orbit Structure

Server Version: 20220516
# Proposal 17022 - F153M (54) - WFC3 CSM Monitor with Earth Flats

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

## Exposures

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## Orbit Structure
- **GS Acq**
- **Reconfig**
- **Unused Orbital Visibility = 2994**
- **Occultation**

**Server Version: 20220516**
### Exposures

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### Orbit Structure

- **Orbit 1**
  - GS Acq
  - Unused Orbital Visibility = 2994
  - Reconfig
  - Occultation

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Server Version: 20220516

---
## Proposal 17022 - F153M (56) - WFC3 CSM Monitor with Earth Flats

### Visit Details
- **Proposal 17022, F153M (56)**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

### Exposures

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### Orbit Structure

- **Orbit 1**
  - GS Acq
  - Unused Orbital Visibility = 2994
  - Reconfig
  - Occultation

**Server Version: 20220516**
**Visit**

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

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**Exposures**

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**Orbit Structure**

[Image of orbit structure with annotations: GS Acq, Reconfig, Unused Orbital Visibility = 2994, Occultation]
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**Orbit Structure**

[Diagram showing orbit structure with markers for GS Acq, Exp. 1, Unused Orbital Visibility = 2994, Reconfig, and Occultation.]

**Server Version:** 20220516
### Proposal 17022 - F153M (59) - WFC3 CSM Monitor with Earth Flats

**Visit**

- Proposal 17022, F153M (59)
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Exposures**

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**Orbit Structure**

- Orbit 1
- GS Acq
- Unused Orbital Visibility = 2994
- Reconfig
- Occultation

Server Version: 20220516
### Exposures

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### Orbit Structure

**Orbit 1**
- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation

---

**Proposal 17022 - F153M (60) - WFC3 CSM Monitor with Earth Flats**

- **Visit**
  - Proposal 17022, F153M (60)
  - Diagnostic Status: No Diagnostics
  - Scientific Instruments: WFC3/IR
  - Special Requirements: (none)

- **Exposures**

- **Orbit Structure**

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**Server Version: 20220516**

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Thu Jul 14 14:02:59 GMT 2022
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**Orbit Structure**

- GS Acq
- Unused Orbital Visibility = 2994
- Reconfig
- Occultation

**Server Version:** 20220516
### Visit

**Proposal 17022, F153M (62)**  
**Diagnostic Status:** No Diagnostics  
**Scientific Instruments:** WFC3/IR  
**Special Requirements:** (none)

### Exposures

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**Orbit Structure**

Server Version: 20220516

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Proposal 17022 - F153M (63) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (63)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures
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Orbit Structure

[Diagram showing orbit structure]

Server Version: 20220516

Thu Jul 14 14:05:59 GMT 2022

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**Proposal 17022 - F153M (65) - WFC3 CSM Monitor with Earth Flats**

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

**Exposures**

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**Orbit Structure**

- GS Acq
- Unused Orbital Visibility = 2994
- Reconfig
- Occultation

Server Version: 20220516
Proposal 17022 - F153M (66) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (66)
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 = 2994
- Occultation

Server Version: 20220516
Visit

Proposal 17022, F153M (67)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Server Version: 20220516
Proposal 17022 - F153M (68) - WFC3 CSM Monitor with Earth Flats

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

Thu Jul 14 14:02:59 GMT 2022

Exposures

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Orbit Structure

Server Version: 20220516

unused Orbital Visibility = 2994
Proposal 17022 - F153M (69) - WFC3 CSM Monitor with Earth Flats

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

Exposures

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Orbit Structure

Unused Orbital Visibility = 2994
Occultation

Server Version: 20220516

Thu Jul 14 14:02:59 GMT 2022
Visit

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

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Orbit Structure

[Diagram showing orbit with GS Acq, Exp. 1, Unused Orbital Visibility = 2994, Reconfig, and Occultation]
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Orbit Structure

Server Version: 20220516

Occultation

Unused Orbital Visibility = 2994

GS Acq

Exp. 1

Reconfig
**Proposal 17022 - F153M (72) - WFC3 CSM Monitor with Earth Flats**

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

### Exposures

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**Orbit Structure**

- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation

Server Version: 20220516
Proposal 17022 - F153M (73) - WFC3 CSM Monitor with Earth Flats

Visit
- Proposal 17022, F153M (73)
- 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

- GS Acq
- Unused Orbital Visibility = 2994
- Reconfig

Occultation

Server Version: 20220516

Thu Jul 14 14:02:59 GMT 2022
Proposal 17022 - F153M (74) - WFC3 CSM Monitor with Earth Flats

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

Exposures

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Orbit Structure

Server Version: 20220516

Occultation

Unused Orbital Visibility = 2994

Exp. 1

Reconfig

GS Acq

0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec
### Proposal 17022 - F153M (75) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 17022, F153M (75)
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Exposures**

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**Orbit Structure**

- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994

Server Version: 20220516
## Proposal 17022 - F153M (76) - WFC3 CSM Monitor with Earth Flats

**Visit**
- **Proposal 17022, F153M (76)**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

### Exposures

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### Orbit Structure

- Orbit Structure
- **Server Version:** 20220516
- **Unused Orbital Visibility = 2994**
- **Occultation**

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86
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**Orbit Structure**

Unused Orbital Visibility = 2994

Server Version: 20220516
Visit  

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

Exposures  

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Orbit Structure

Server Version: 20220516
## Visit

**Proposal 17022, F153M (79)**

- **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 = 2994
  - Occultation

**Server Version: 20220516**
### Exposures

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### Orbit Structure

[Diagram showing an orbit with an occultation event and GS Acq. Exponent 1 Reconfig Unused Orbital Visibility = 2994.]

Server Version: 20220516

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Visit

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Thu Jul 14 14:02:59 GMT 2022
**Visit**

**Proposal 17022, F153M (81)**

**Diagnostic Status:** No Diagnostics

**Scientific Instruments:** WFC3/IR

**Special Requirements:** (none)

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**Orbit Structure**

**Server Version: 20220516**

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**Proposal 17022 - F153M (81) - WFC3 CSM Monitor with Earth Flats**

**Visit**

**Proposal 17022, F153M (81)**

**Diagnostic Status:** No Diagnostics

**Scientific Instruments:** WFC3/IR

**Special Requirements:** (none)

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**Orbit Structure**

**Server Version: 20220516**

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**Proposal 17022 - F153M (81) - WFC3 CSM Monitor with Earth Flats**

**Visit**

**Proposal 17022, F153M (81)**

**Diagnostic Status:** No Diagnostics

**Scientific Instruments:** WFC3/IR

**Special Requirements:** (none)

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**Orbit Structure**

**Server Version: 20220516**

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

Visit
- Proposal 17022, F153M (82)
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Exposures**

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**Orbit Structure**

- Orbit 1
- GS Acq
- Unused Orbital Visibility = 2994
- Reconfig
- Occultation

*Server Version: 20220516*
### Proposal 17022 - F153M (83) - WFC3 CSM Monitor with Earth Flats

**Visit**
- **Proposal 17022, F153M (83)**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

**Thu Jul 14 14:02:59 GMT 2022**

#### Exposures

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#### Orbit Structure

- **Orbit 1**
- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation

*Server Version: 20220516*
**Proposal 17022 - F153M (84) - WFC3 CSM Monitor with Earth Flats**

**Visit**

- **Proposal 17022, F153M (84)**
- **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 = 2994
- Reconfig
- Occultation

Server Version: 20220516

Thu Jul 14 14:02:59 GMT 2022
### Proposal 17022 - F153M (85) - WFC3 CSM Monitor with Earth Flats

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

**Exposures**

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**Orbit Structure**

- GS Acq
- Unused Orbital Visibility = 2994
- Reconfig
- Occultation

Server Version: 20220516
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**Orbit Structure**

Server Version: 20220516

Unused Orbital Visibility = 2994

Exp. 1

Reconfig

Occultation
### Proposal 17022 - F153M (87) - WFC3 CSM Monitor with Earth Flats

**Visit**

- **Proposal 17022, F153M (87)**
- **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 = 2994**
- **Reconfig**

- **Occultation**

*Server Version: 20220516*
Proposal 17022 - F153M (88) - WFC3 CSM Monitor with Earth Flats

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

Thu Jul 14 14:02:59 GMT 2022

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Orbit Structure

Server Version: 20220516

Orbit 1
GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2994
Occultation

Server Version: 20220516

Proposal 17022 - F153M (89) - WFC3 CSM Monitor with Earth Flats

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

Exposures

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Server Version: 20220516
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### Orbit Structure

- GS Acq
- Unused Orbital Visibility = 2994
- Reconfig

Server Version: 20220516
**Proposal 17022 - F153M (91) - WFC3 CSM Monitor with Earth Flats**

### Visit

- **Proposal 17022, F153M (91)**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

### Exposures

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**Orbit Structure**

![Orbit Structure Diagram](image-url)
**Proposal 17022 - F153M (92) - WFC3 CSM Monitor with Earth Flats**

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**Orbit Structure**

- GS Acq
- Unused Orbital Visibility = 2994
- Exp. 1
- Reconfig
- Occlusion

*Server Version: 20220516*
**Proposal 17022 - F153M (93) - WFC3 CSM Monitor with Earth Flats**

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

**Exposures**

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**Orbit Structure**

[Diagram showing orbit data, including GS Acq, Unused Orbital Visibility = 2994, Exp. 1, and Occultation]
Proposal 17022 - F153M (94) - 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 = 2994
Reconfig

Server Version: 20220516
### Exposures

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**Orbit Structure**

[Diagram of Orbit Structure]
Proposal 17022 - F153M (96) - WFC3 CSM Monitor with Earth Flats

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

Exposures

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Orbit Structure

Server Version: 20220516
## Visit

**Visit**

- **Proposal 17022, F153M (97)**
- **Diagnostic Status: No Diagnostics**
- **Scientific Instruments: WFC3/IR**
- **Special Requirements: (none)**

**Exposures**

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### Orbit Structure

- **GS Acq**
- **Reconfig**
- **Unused Orbital Visibility = 2994**
- **Occultation**

**Server Version: 20220516**
## Visit

**Proposal 17022, F153M (98)**

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

**Thu Jul 14 14:03:00 GMT 2022**

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**Orbit Structure**

- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation

Server Version: 20220516
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**Orbit Structure**

- GS Acq
- Unused Orbital Visibility = 2994
- Reconfig

**Server Version:** 20220516
### Visit

**Proposal 17022, F153M (0A)**

**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 = 2994
  - Reconfig
  - Occultation
Visit
Proposal 17022, F153M (0B)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Server Version: 20220516
### Proposal 17022 - F153M (0C) - WFC3 CSM Monitor with Earth Flats

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

#### Exposures

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#### Orbit Structure

![Orbit Structure Diagram]

- **GS Acq**
- **Exp. 1**
- **Occultation**
- **Unused Orbital Visibility = 2994
# Proposal 17022 - F153M (0D) - WFC3 CSM Monitor with Earth Flats

## Visit

**Proposal 17022, F153M (0D)**

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

## Exposures

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## Orbit Structure

Orbit 1

- GS Acq
- Unused Orbital Visibility = 2994
- Exp. 1
- Reconfig

Server Version: 20220516
## Proposal 17022 - F153M (0E) - WFC3 CSM Monitor with Earth Flats

### Visit Information
- Proposal 17022, F153M (0E)
- 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 = 2994
- Occultation

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**Server Version: 20220516**
### Proposal 17022 - F153M (0F) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 17022, F153M (0F)
- 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 = 2994
  - Reconfig
  - Occultation

**Server Version: 20220516**
Proposal 17022 - F153M (0G) - WFC3 CSM Monitor with Earth Flats

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Server Version: 20220516
### Proposal 17022 - F153M (0H) - WFC3 CSM Monitor with Earth Flats

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

**Exposures**

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**Orbit Structure**

- GS Acq
- Unused Orbital Visibility = 2994
- Reconfig

[Diagram of Orbit 1 showing GS Acq, Exp. 1, Unused Orbital Visibility, and Reconfig with Occultation marker]
# Exposures

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**Orbit Structure**

- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation

**Server Version:** 20220516
## Visit

**Proposal 17022, F153M (0J)**

*Diagnostic Status: No Diagnostics*

*Scientific Instruments: WFC3/IR*

*Special Requirements: (none)*

## Exposures

|---|-------------|-----------------|------------------------|---------------|--------------|----------------|--------|-------------------------------|-------|
| 1 | DARK-EARTH-CA | WFC3/IR, MULTIACCUM, IR | F153M | NSAMP=5; SAMP-SEQ=SPAR S25 | | | | 102.934351 Secs (102.934 Secs) | |}

## Orbit Structure

![Orbit Structure Image](image-url)
Visit

- Proposal 17022, F153M (0K)
- 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 = 2994
- Reconfig
- Occultation

Server Version: 20220516
**Proposal 17022 - F153M (0L) - WFC3 CSM Monitor with Earth Flats**

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

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**Orbit Structure**

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2994
- Reconfig
- Occultation

Server Version: 20220516
## Exposures

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**Orbit Structure**

Orbit 1

GS Acq

Exp. 1

Reconfig

Unused Orbital Visibility = 2994

Occultation
### Visit

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

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### Orbit Structure

- **Server Version:** 20220516
- Unused Orbital Visibility = 2994
- Occultation
Proposal 17022 - F153M (00) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (00)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Thu Jul 14 14:03:00 GMT 2022

Exposures

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Orbit Structure

Server Version: 20220516

Orbit 1
GS Acq
Exp. 1
Unused Orbital Visibility = 2994
Reconfig

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

Visit

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

Exposures

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Orbit Structure

Orbit 1

Server Version: 20220516

Unused Orbital Visibility = 2994

Occultation
### Visit

**Proposal 17022, F153M (0Q)**

**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 = 2994
- Occultation
## Proposal 17022 - F153M (0R) - WFC3 CSM Monitor with Earth Flats

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

**Exposures**

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**Orbit Structure**

![Orbit Structure Diagram](image-url)
Proposal 17022 - F153M (0S) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (0S)
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 = 2994
Occultation

Server Version: 20220516
Proposal 17022 - F153M (0T) - WFC3 CSM Monitor with Earth Flats

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

Exposures

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Orbit Structure

Server Version: 20220516

Occultation

Unused Orbital Visibility = 2994
Visit
Proposal 17022, F153M (0U)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Unused Orbital Visibility = 2994
Reconfig
## Visit

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

## Exposures

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## Orbit Structure

![Orbit Structure Diagram](server_version: 20220516)

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**Orbit Structure**

Server Version: 20220516

Unused Orbital Visibility = 2994

Reconfig

Occultation
## Visit

**Proposal 17022, F153M (0X)**

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

### Exposures

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### Orbit Structure

- GS Acq
- Unused Orbital Visibility = 2994
- Reconfig
- Occultation

**Server Version:** 20220516
Proposal 17022 - F153M (0Y) - WFC3 CSM Monitor with Earth Flats

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

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Orbit Structure

Server Version: 20220516

Orbit 1
GS Acq
Exp. 1
Unused Orbital Visibility = 2994
Reconfig

Occultation

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

Visit

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Orbit Structure

Server Version: 20220516
### Proposal 17022 - F153M (1A) - WFC3 CSM Monitor with Earth Flats

**Visit**

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

**Thru Jul 14 14:03:00 GMT 2022**

### Exposures

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![Orbit Structure Diagram](image-url)

- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation

*Server Version: 20220516*
**Proposal 17022 - F153M (1B) - WFC3 CSM Monitor with Earth Flats**

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

**Exposures**

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**Orbit Structure**

[Diagram showing orbit with GS Acq, Expos 1, Reconfig, Unused Orbital Visibility = 2994, and Occultation]
Proposal 17022 - F153M (1C) - WFC3 CSM Monitor with Earth Flats

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

Thu Jul 14 14:03:00 GMT 2022

Exposures

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Orbit Structure

Server Version: 20220516

Unused Orbital Visibility = 2994
Occultation

Expo 1
Reconfig
Proposal 17022 - F153M (1D) - WFC3 CSM Monitor with Earth Flats

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

Thu Jul 14 14:03:00 GMT 2022

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Orbit 1
GS Acq

Unused Orbital Visibility = 2994
Reconfig

Occultation

Server Version: 20220516
Proposal 17022 - F153M (1E) - WFC3 CSM Monitor with Earth Flats

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

**Exposures**

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**Orbit Structure**

- **Orbit 1**
  - GS Acq
  - Unused Orbital Visibility = 2994
  - Reconfig
  - Occultation

Server Version: 20220516
## Proposal 17022 - F153M (1F) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 17022, F153M (1F)
- 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 = 2994
  - Occultation

*Server Version: 20220516*
Proposal 17022 - F153M (1G) - WFC3 CSM Monitor with Earth Flats

Visit

- Proposal 17022, F153M (1G)
- 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 = 2994
- Occultation

Server Version: 20220516
### Proposal 17022 - F153M (1H) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 17022, F153M (1H)
- 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 = 2994
  - Reconfig
  - Occultation

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*Server Version: 20220516*
## Proposal 17022 - F153M (1I) - WFC3 CSM Monitor with Earth Flats

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

**Exposures**

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**Orbit Structure**

- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation

**Server Version:** 20220516
Proposal 17022 - F153M (1J) - WFC3 CSM Monitor with Earth Flats

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

Thu Jul 14 14:03:01 GMT 2022

Exposures

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Orbit Structure

Orbit 1
GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2994

Occultation

Server Version: 20220516
**Proposal 17022 - F153M (1K) - WFC3 CSM Monitor with Earth Flats**

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

**Exposures**

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**Orbit Structure**

- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation

**Server Version: 20220516**
# Proposal 17022, F153M (1L) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 17022, F153M (1L)
- 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 = 2994
- Occultation

**Server Version:** 20220516

**Notes:**
- [1]
Proposal 17022 - F153M (1M) - WFC3 CSM Monitor with Earth Flats

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

Exposures

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Orbit Structure

Server Version: 20220516

Unused Orbital Visibility = 2994

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

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### Orbit Structure

- **Orbit 1**
  - GS Acq
  - Unused Orbital Visibility = 2994
  - Reconfig

- **Occultation**

**Server Version: 20220516**
### Proposal 17022 - F153M (1O) - WFC3 CSM Monitor with Earth Flats

#### Visit

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

#### Exposures

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#### Orbit Structure

![Orbit Structure Diagram](attachment:image)
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Orbit Structure

Unused Orbital Visibility = 2994

Occultation

Server Version: 20220516
Proposal 17022 - F153M (1Q) - WFC3 CSM Monitor with Earth Flats

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

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Orbit Structure

Server Version: 20220516

Occultation

Unused Orbital Visibility = 2994
Proposal 17022 - F153M (1R) - WFC3 CSM Monitor with Earth Flats

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

Exposures

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Orbit Structure

Server Version: 20220516
**Proposal 17022 - F153M (1S) - WFC3 CSM Monitor with Earth Flats**

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

**Exposures**

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**Orbit Structure**

- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation

Server Version: 20220516

Thu Jul 14 14:03:01 GMT 2022
### Exposures

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### Orbit Structure

- **Orbit 1**
  - GS Acq
  - Exp. 1
  - Unused Orbital Visibility = 2994
  - Reconfig
  - Occultation

*Server Version: 20220516*
**Proposal 17022 - F153M (1U) - WFC3 CSM Monitor with Earth Flats**

Visit

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**Orbit Structure**

![Orbit Structure Diagram](image-url)
Proposal 17022 - F153M (1V) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (1V)
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 = 2994
Reconfig

Occultation

Server Version: 20220516
Proposal 17022 - F153M (1W) - WFC3 CSM Monitor with Earth Flats

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

Exposures

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Orbit Structure

- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation

Server Version: 20220516

[Image of orbit structure]

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158
Visit

**Proposal 17022, F153M (1X)**

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

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**Orbit Structure**

Server Version: 20220516

Orbit 1

GS Acq

Exp. 1

Unused Orbital Visibility = 2994

Reconfig

Occultation

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**Proposal 17022, F153M (1Y) - WFC3 CSM Monitor with Earth Flats**

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

**Thu Jul 14 14:03:01 GMT 2022**

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**Orbit 1**
- GS Acq
- Unused Orbital Visibility = 2994
- Reconfig
- Occultation

Server Version: 20220516
Proposal 17022 - F153M (1Z) - WFC3 CSM Monitor with Earth Flats

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

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Orbit Structure

- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation

Server Version: 20220516
Proposal 17022 - F153M (2A) - WFC3 CSM Monitor with Earth Flats

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

Thu Jul 14 14:03:01 GMT 2022

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Orbit Structure

Server Version: 20220516
## Proposal 17022 - F153M (2B) - WFC3 CSM Monitor with Earth Flats

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

### Exposures

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### Orbit Structure
- **Orbit 1**
  - GS Acq
  - Unused Orbital Visibility = 2994
  - Occultation

Server Version: 20220516
Proposal 17022 - F153M (2C) - WFC3 CSM Monitor with Earth Flats

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Orbit Structure

Server Version: 20220516
# Proposal 17022 - F153M (2D) - WFC3 CSM Monitor with Earth Flats

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

## Exposures

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## Orbit Structure

- **Orbit 1**
  - **Time:** 2994 sec
  - **Event:** Occultation

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Server Version: 20220516
### Visit

**Proposal 17022, F153M (2E)**

**Scientific Instruments:** WFC3/IR

**Special Requirements:** (none)

#### Exposures

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#### Orbit Structure

![Orbit Structure Diagram](image)

**Server Version:** 20220516
### Proposal 17022 - F153M (2F) - WFC3 CSM Monitor with Earth Flats

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

**Exposures**

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**Orbit Structure**

![Orbit Structure Diagram](server_version.png)

Server Version: 20220516
### Proposal 17022 - F153M (2G) - WFC3 CSM Monitor with Earth Flats

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

**Exposures**

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**Orbit Structure**

- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation
- Server Version: 20220516
Proposal 17022 - F153M (2H) - WFC3 CSM Monitor with Earth Flats

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

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Orbit Structure

Server Version: 20220516
Proposal 17022 - F153M (2I) - WFC3 CSM Monitor with Earth Flats

Visit

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

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Orbit Structure

Server Version: 20220516

Unused Orbital Visibility = 2994
Occultation
Proposal 17022 - F153M (2J) - WFC3 CSM Monitor with Earth Flats

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

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Orbit Structure

Server Version: 20220516
## Visit

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

## Exposures

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### Orbit Structure

Server Version: 20220516

[Diagram of orbit structure with GS Acq, Reconfig, Unused Orbital Visibility = 2994, and Occultation marker]
Visit Proposal 17022, F153M (2L)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

unused orbital visibility = 2994

Exp. 1

reconfig

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

**Visit**
- Proposal 17022, F153M (2M)
- 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 = 2994
- Occultation

Server Version: 20220516
Proposal 17022 - F153M (2N) - WFC3 CSM Monitor with Earth Flats

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

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Orbit Structure

Server Version: 20220516

Unused Orbital Visibility = 2994

Occultation

[175]
Proposal 17022 - F153M (2O) - WFC3 CSM Monitor with Earth Flats

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

Thu Jul 14 14:03:01 GMT 2022

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Orbit Structure

**Orbit 1**
- GS Acq
- Exp. 1
  - Unused Orbital Visibility = 2994
  - Reconfig

**Server Version: 20220516**
**Proposal 17022 - F153M (2P) - WFC3 CSM Monitor with Earth Flats**

Visit

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

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**Orbit Structure**

- **Orbit 1**
  - GS Acq
  - Reconfig
  - Unused Orbital Visibility = 2994
  - Occultation

**Server Version:** 20220516
Proposal 17022 - F153M (2Q) - WFC3 CSM Monitor with Earth Flats

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

Thu Jul 14 14:03:01 GMT 2022

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Orbit Structure

Orbit 1
GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2994

Occultation

Server Version: 20220516
### Proposal 17022 - F153M (2R) - WFC3 CSM Monitor with Earth Flats

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

**Exposures**

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**Orbit Structure**
- GS Acq
- Unused Orbital Visibility = 2994
- Occultation

**Server Version:** 20220516
### Proposal 17022 - F153M (2S) - WFC3 CSM Monitor with Earth Flats

**Visit**

- **Proposal 17022, F153M (2S)**
- **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 = 2994
  - Reconfig

- Occultation

**Server Version: 20220516**
Proposal 17022 - F153M (2T) - WFC3 CSM Monitor with Earth Flats

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

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Orbit Structure

Server Version: 20220516
Visit Proposal 17022, F153M (2U)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation
Visit

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

Exposures

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

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

**Exposures**

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**Orbit Structure**

- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation

*Server Version: 20220516*
Proposal 17022 - F153M (2X) - WFC3 CSM Monitor with Earth Flats

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

Thu Jul 14 14:03:02 GMT 2022

Exposures

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Orbit Structure

Server Version: 20220516
**Proposal 17022 - F153M (2Y) - WFC3 CSM Monitor with Earth Flats**

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

**Exposures**

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**Orbit Structure**

![Orbit Diagram](image)

Server Version: 20220516

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**Notes:**
- [I] Indicates an occultation or shadowing event.
### Exposures

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### Orbit Structure

Orbit 1

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2994
- Reconfig
- Occultation

Server Version: 20220516
Visit

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

**Diagnostic Status:** No Diagnostics

**Scientific Instruments:** WFC3/IR

**Special Requirements:** (none)

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**Orbit Structure**

- **Orbit 1**
  - GS Acq
  - Unused Orbital Visibility = 2994
  - Exp. 1
  - Reconfig
  - Occultation
## Proposal 17022 - F153M (3B) - WFC3 CSM Monitor with Earth Flats

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

### Exposures

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### Orbit Structure

[Diagram showing orbit and exposures]
Proposal 17022 - F153M (3C) - WFC3 CSM Monitor with Earth Flats

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**Orbit Structure**

- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation

Server Version: 20220516
Proposal 17022 - F153M (3D) - WFC3 CSM Monitor with Earth Flats

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

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Orbit Structure

Server Version: 20220516

Occultation

Unused Orbital Visibility = 2994

GS Acq

Exp. 1

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

Visit
Proposal 17022, F153M (3E)
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 = 2994

Occultation

Server Version: 20220516
## Exposures

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**Orbit Structure**

- GS Acq
- Exp. 1
- Unused Orbital Visibility = 2994
- Reconfig
- Occultation

*Server Version: 20220516*
### Proposal 17022 - F153M (3G) - WFC3 CSM Monitor with Earth Flats

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

**Nov 14 14:03:02 GMT 2022**

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**Orbit Structure**

- **Unused Orbital Visibility = 2994**
- **Reconfig**
- **Occultation**

[Diagram of orbital structure with GS Acq and Exp. 1 marked]
### Proposal 17022 - F153M (3H) - WFC3 CSM Monitor with Earth Flats

- **Visit**
  - Proposal 17022, F153M (3H)
  - 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 = 2994
  - Reconfig

- Occultation

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195
Visit

Proposal 17022, F153M (3I)
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 = 2994

Occultation

Server Version: 20220516
### Proposal 17022 - F153M (3J) - WFC3 CSM Monitor with Earth Flats

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

#### Exposures

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#### Orbit Structure

- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation

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Server Version: 20220516
### Proposal 17022 - F153M (3K) - WFC3 CSM Monitor with Earth Flats

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

**Exposures**
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**Orbit Structure**

Server Version: 20220516
## Proposal 17022 - F153M (3L) - WFC3 CSM Monitor with Earth Flats

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

### Exposures

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### Orbit Structure

- **Server Version:** 20220516
- **Occultation**
### Proposal 17022 - F153M (3M) - WFC3 CSM Monitor with Earth Flats

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

#### Exposures

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#### Orbit Structure

- **Orbit 1**
  - GS Acq
  - Unused Orbital Visibility = 2994
  - Reconfig

- **Server Version:** 20220516
Proposal 17022 - F153M (3N) - WFC3 CSM Monitor with Earth Flats

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

Thu Jul 14 14:03:02 GMT 2022

Exposures

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Orbit Structure

- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation

Server Version: 20220516
Proposal 17022 - F153M (3O) - WFC3 CSM Monitor with Earth Flats

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

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Orbit Structure

Server Version: 20220516

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

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

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### Orbit Structure

![Orbit Structure Image]

Server Version: 20220516
Proposal 17022 - F153M (3Q) - WFC3 CSM Monitor with Earth Flats

Visit

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Orbit Structure

Orbit 1
GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2994

Server Version: 20220516
### Proposal 17022 - F153M (3R) - WFC3 CSM Monitor with Earth Flats

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

**Exposures**

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**Orbit Structure**

- Unused Orbital Visibility = 2994
- Occultation

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Server Version: 20220516
Proposal 17022 - F153M (3S) - WFC3 CSM Monitor with Earth Flats

Visit

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

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Orbit Structure

Orbit 1
GS Acq
Unused Orbital Visibility = 2994
Reconfig

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

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

Exposures

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<td>LIB WFC3/IR</td>
<td>MULTIACCUM, IR</td>
<td>F153M</td>
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<td>S25</td>
<td>102.934351 Secs (102.934 Secs)</td>
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Orbit Structure

Server Version: 20220516

Orbit 1
GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2994
Occultation
## Proposal 17022 - F153M (3U) - WFC3 CSM Monitor with Earth Flats

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

**Exposures**

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**Orbit Structure**

[Diagram showing orbit and occultation]

Server Version: 20220516

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208
Proposal 17022 - F153M (3V) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 17022, F153M (3V)
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 = 2994

Occultation

Server Version: 20220516
### Proposal 17022 - F153M (3W) - WFC3 CSM Monitor with Earth Flats

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

**Exposures**

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**Orbit Structure**

- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation

**Server Version:** 20220516