16412 - WFC3 CSM Monitor with Earth Flats

Cycle: 28, 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>Jennifer Medina (PI) (Contact)</td>
<td>Space Telescope Science Institute</td>
<td><a href="mailto:jmedina@stsci.edu">jmedina@stsci.edu</a></td>
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<tr>
<td>Dr. Joel David Green (CoI)</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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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 particulates 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.

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, and 15732.

--- 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 15732 that have not yet been scheduled shall be canceled and the new program (this one) will pick up where the previous one left off.

Not every observation will be successful. Some observations may not have sufficient earth glow for the blobs to be detectable, or may include artifacts such as streaks from city lights.
Proposal 16412 - F153M (01) - WFC3 CSM Monitor with Earth Flats

Visit
- Proposal 16412, F153M (01)
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

Thu Aug 13 20:04:13 GMT 2020

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

Server Version: 20200619
## Proposal 16412 - F153M (02) - WFC3 CSM Monitor with Earth Flats

**Visit**
- **Proposal 16412, F153M (02)**
- 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:** 20200619

Thu Aug 13 20:04:13 GMT 2020
### Exposures

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**Orbit Structure**

![Orbit Diagram]

---

**Proposal 16412 - F153M (03) - WFC3 CSM Monitor with Earth Flats**

Visit

- Proposal 16412, F153M (03)
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Thu Aug 13 20:04:13 GMT 2020**
### Proposal 16412 - F153M (04) - WFC3 CSM Monitor with Earth Flats

#### Visit
- **Proposal 16412, 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**
  - **Reconfig**
  - **Unused Orbital Visibility = 2994**
  - **Occultation**

**Server Version: 20200619**
### Proposal 16412 - F153M (05) - WFC3 CSM Monitor with Earth Flats

**Visit**
- **Proposal 16412, F153M (05)**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

**Diagnostics**
- **Thu Aug 13 20:04:13 GMT 2020**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

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**Orbit Structure**

- **Server Version:** 20200619
- **Orbit 1**
  - GS Acq
  - Exp. 1
  - Unused Orbital Visibility = 2994
  - Reconfig
  - Occultation
  - [I]
### Visit

Proposal 16412, F153M (06)

**Diagnostic Status:** No Diagnostics

**Scientific Instruments:** WFC3/IR

**Special Requirements:** (none)

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### Orbit Structure

- **GS Acq**: GS Acquisition
- **Exp. 1**: Exposure 1
- **Occultation**: Occultation
- **Unused Orbital Visibility = 2994**: Unused orbital visibility

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*Server Version: 20200619*
### Visit

**Proposal 16412, F153M (07)**  
**Diagnostic Status:** No Diagnostics  
**Scientific Instruments:** WFC3/IR  
**Special Requirements:** (none)

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## Proposal 16412 - F153M (08) - WFC3 CSM Monitor with Earth Flats

**Visit**

Proposal 16412, F153M (08)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

**Exposures**

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**Orbit Structure**

![Orbit Diagram](attachment:orbit-diagram.png)

Server Version: 20200619
### Proposal 16412 - F153M (09) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 16412, F153M (09)
- 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
Proposal 16412 - F153M (10) - WFC3 CSM Monitor with Earth Flats

Visit

- Proposal 16412, F153M (10)
- 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

Server Version: 20200619
Visit
Proposal 16412, F153M (11)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Server Version: 20200619

Unused Orbital Visibility = 2994
Reconfig

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**Orbit Structure**

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

**Server Version:** 20200619
## Proposal 16412 - F153M (13) - WFC3 CSM Monitor with Earth Flats

### Visit
- **Proposal 16412, F153M (13)**
- **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: 20200619
Proposal 16412 - F153M (14) - WFC3 CSM Monitor with Earth Flats

Visit

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Orbit Structure

Server Version: 20200619
### Proposal 16412 - F153M (15) - WFC3 CSM Monitor with Earth Flats

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**Orbit Structure**

[Diagram of orbit structure with labels and timeline information]

Server Version: 20200619
Proposal 16412 - F153M (16) - WFC3 CSM Monitor with Earth Flats

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Orbit Structure

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

Server Version: 20200619
Proposal 16412 - F153M (17) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (17)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Thu Aug 13 20:04:13 GMT 2020

Exposures

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Orbit Structure

Server Version: 20200619
Proposal 16412 - F153M (18) - WFC3 CSM Monitor with Earth Flats

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Orbit Structure

- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation
### Proposal 16412 - F153M (19) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 16412, F153M (19)
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Exposures**

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**Orbit Structure**

- Unused Orbital Visibility = 2994
- Exp. 1

Server Version: 20200619

Occultation
Proposal 16412 - F153M (20) - WFC3 CSM Monitor with Earth Flats

## Visit
- **Proposal 16412, F153M (20)**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

### Exposures

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### Orbit Structure

- **Server Version:** 20200619
- **Occultation**
- **Unused Orbital Visibility = 2994**
- **Reconfig**

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30
### Proposal 16412 - F153M (21) - WFC3 CSM Monitor with Earth Flats

**Visit**

- Proposal 16412, F153M (21)
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Exposures**

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**Orbit Structure**

![Orbit Diagram]

Server Version: 20200619

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31
Proposal 16412 - F153M (22) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (22)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Server Version: 20200619
Proposal 16412 - F153M (23) - WFC3 CSM Monitor with Earth Flats

Visit
- Proposal 16412, F153M (23)
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

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Orbit Structure

- Server Version: 20200619
### Proposal 16412 - F153M (24) - WFC3 CSM Monitor with Earth Flats

**Visit**
- **Proposal 16412, F153M (24)**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

**Thu Aug 13 20:04:14 GMT 2020**

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

**Server Version: 20200619**

34
Proposal 16412 - F153M (25) - WFC3 CSM Monitor with Earth Flats

Visit

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

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Orbit Structure

[Image of Orbit Structure]
Proposal 16412 - F153M (26) - WFC3 CSM Monitor with Earth Flats

Visit

- Proposal 16412, F153M (26)
- 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: 20200619
Proposal 16412 - F153M (27) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (27)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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**Orbit Structure**

Server Version: 20200619

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37
**Proposal 16412 - F153M (28) - WFC3 CSM Monitor with Earth Flats**

**Visit**
- Proposal 16412, F153M (28)
- 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
- Exp. 1
- Reconfig

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**Server Version: 20200619**
### Visit

**Proposal 16412, F153M (29)**  
**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: 20200619**
Proposal 16412 - F153M (30) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (30)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Thursday, August 13, 20:04:14 GMT 2020

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Orbit Structure

Orbit 1
GS Acq
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Unused Orbital Visibility = 2994

Occultation
Proposal 16412 - F153M (31) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (31)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Thu Aug 13 20:04:14 GMT 2020

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Orbit Structure

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

Server Version: 20200619
Proposal 16412 - F153M (32) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (32)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Server Version: 20200619

Occultation

Unused Orbital Visibility = 2994

GS Acq

Exp. 1

Reconfig
Visit
Proposal 16412, F153M (33)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Proposal 16412 - F153M (33) - WFC3 CSM Monitor with Earth Flats
## Visit

**Proposal 16412, F153M (34)**

**Diagnostic Status:** No Diagnostics

**Scientific Instruments:** WFC3/IR

**Special Requirements:** (none)

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## Exposures

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**Orbit Structure**

![Orbit Structure Diagram](image-url)

**Server Version: 20200619**

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**Visit**

**Proposal 16412, F153M (34)**

**Diagnostic Status:** No Diagnostics

**Scientific Instruments:** WFC3/IR

**Special Requirements:** (none)
Proposal 16412 - F153M (35) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (35)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Server Version: 20200619

Orbit 1
GS Acq
Ex. 1
Unused Orbital Visibility = 2994
Reconfig
Occultation
Proposal 16412 - F153M (36) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (36)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Proposal 16412 - F153M (37) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (37)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Thu Aug 13 20:04:14 GMT 2020

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Orbit Structure

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

Occultation

Server Version: 20200619
**Proposal 16412 - F153M (38) - WFC3 CSM Monitor with Earth Flats**

Visit Proposal 16412, F153M (38)  
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

**Server Version: 20200619**
Proposal 16412 - F153M (39) - WFC3 CSM Monitor with Earth Flats

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Orbit Structure:

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

Server Version: 20200619
Proposal 16412 - F153M (40) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (40)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Thu Aug 13 20:04:14 GMT 2020

Exposures

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Orbit Structure

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

Server Version: 20200619

Occultation
Proposal 16412 - F153M (41) - WFC3 CSM Monitor with Earth Flats

Visit

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Orbit Structure

Server Version: 20200619

DARK-EARTH-CA LIB
### Proposal 16412 - F153M (42) - WFC3 CSM Monitor with Earth Flats

#### Visit
- Proposal 16412, F153M (42)
- 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: 20200619

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52
Proposal 16412 - F153M (43) - WFC3 CSM Monitor with Earth Flats

Visit
- Proposal 16412, F153M (43)
- 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
### Proposal 16412 - F153M (44) - WFC3 CSM Monitor with Earth Flats

#### Visit
- **Diagnostics 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
  - Occultation

**Server Version: 20200619**
### Visit

**Proposal 16412, F153M (45)**

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

### Exposures

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### Orbit Structure

- **Server Version:** 20200619

- **Occultation**
Proposal 16412 - F153M (46) - WFC3 CSM Monitor with Earth Flats

Visit

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Orbit Structure

Server Version: 20200619
## Proposal 16412 - F153M (47) - WFC3 CSM Monitor with Earth Flats

### Visit
- **Proposal 16412, F153M (47)**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

### Exposures

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### Orbit Structure
- **Server Version:** 20200619
- **Used Orbital Visibility:** 2994
- **Occultation**
Proposal 16412 - F153M (48) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (48)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Zero: Occultation
Unused Orbital Visibility = 2994

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Orbit Structure

Server Version: 20200619

Proposition 16412 - F153M (49) - WFC3 CSM Monitor with Earth Flats

Visit

Proposal 16412, F153M (49)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)
Proposal 16412 - F153M (50) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (50)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Server Version: 20200619

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

Occultation
Proposal 16412 - F153M (51) - 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

Occultation

Server Version: 20200619
## Proposal 16412 - F153M (52) - WFC3 CSM Monitor with Earth Flats

**Visit**

- **Proposal 16412, F153M (52)**
- **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: 20200619*
## Proposal 16412 - F153M (53) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 16412, F153M (53)
- 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: 20200619
## Proposal 16412 - F153M (54) - WFC3 CSM Monitor with Earth Flats

### Visit
- **Proposal 16412, F153M (54)**
- **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

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**Server Version: 20200619**

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**Visit:**
- **Proposal 16412, F153M (54)**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR

**Special Requirements:** (none)
Proposal 16412 - F153M (55) - 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: 20200619

unused Orbital Visibility = 2994

Reconfig

Occultation
### Proposal 16412 - F153M (56) - WFC3 CSM Monitor with Earth Flats

**Visit**

- **Proposal 16412, F153M (56)**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

**Exposures**

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**Orbit Structure**

- **Orbit 1**
- **Server Version: 20200619**
- **GS Acq**
- **Reconfig**
- **Unused Orbital Visibility = 2994**
- **Occultation**

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**Thur Aug 13 20:04:14 GMT 2020**
Proposal 16412 - F153M (57) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (57)
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: 20200619
**Proposal 16412 - F153M (58) - WFC3 CSM Monitor with Earth Flats**

**Visit**
- **Proposal 16412, F153M (58)**
- **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:** 20200619
Proposal 16412 - F153M (59) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 16412, F153M (59)
- 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: 20200619
## Visit

**Proposal 16412, F153M (60)**

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

## Exposures

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## Orbit Structure

![Orbit Structure Diagram](image-url)

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

**Server Version: 20200619**
### Proposal 16412 - F153M (61) - WFC3 CSM Monitor with Earth Flats

#### Visit
- **Proposal 16412, F153M (61)**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

#### Exposures

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#### Orbit Structure

- **Server Version:** 20200619
- **Occultation**
**Proposal 16412 - F153M (62) - 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**

Unused Orbital Visibility = 2994

Exp. 1

Reconfig

Occultation
Proposal 16412 - F153M (63) - WFC3 CSM Monitor with Earth Flats

Visit Proposal 16412, F153M (63) 
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Server Version: 20200619

Unused Orbital Visibility = 2994
Occultation
Visit

Proposal 16412, F153M (64)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Thu Aug 13 20:04:15 GMT 2020

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Orbit Structure

Orbit 1

GS Acq

Reconfig

Unused Orbital Visibility = 2994

Occultation

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**Orbit Structure**

Server Version: 20200619
Proposal 16412 - F153M (66) - WFC3 CSM Monitor with Earth Flats

Visit
 Proposal 16412, F153M (66)  
Diagnostic Status: No Diagnostics  
Scientific Instruments: WFC3/IR  
Special Requirements: (none)

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Orbit Structure

Server Version: 20200619
## Proposal 16412 - F153M (67) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 16412, F153M (67)
- 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:** 20200619
### Visit

**Proposal 16412, F153M (68)**

**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 = 2994
- Occultation

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**Server Version: 20200619**
**Proposal 16412 - F153M (69) - WFC3 CSM Monitor with Earth Flats**

**Visit**
- Proposal 16412, F153M (69)
- 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: 20200619
Proposal 16412 - F153M (70) - WFC3 CSM Monitor with Earth Flats

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**Orbit Structure**

Server Version: 20200619

- Unused Orbital Visibility = 2994
- Reconfig
- Occultation
Visit

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Exposures

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Orbit Structure

Server Version: 20200619

[Diagram of orbit structure]
# Proposal 16412 - F153M (72) - WFC3 CSM Monitor with Earth Flats

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**Orbit Structure**

Server Version: 20200619
Proposal 16412 - F153M (73) - WFC3 CSM Monitor with Earth Flats

Visit: Proposal 16412, F153M (73)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

**Server Version: 20200619**
### Proposal 16412 - F153M (74) - WFC3 CSM Monitor with Earth Flats

#### Visit
- **Proposal 16412, F153M (74)**
- **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: 20200619**
### Orbit Structure

**Unused Orbital Visibility = 2994**

**Exp. 1**

**Occultation**

---

**Visit**

**Proposal 16412, F153M (75)**

**Diagnostic Status:** No Diagnostics

**Scientific Instruments:** WFC3/IR

**Special Requirements:** (none)

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# Proposal 16412 - F153M (76) - WFC3 CSM Monitor with Earth Flats

**Visit**
- **Proposal 16412, F153M (76)**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

**Thu Aug 13 20:04:15 GMT 2020**

## Exposures

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**Orbit Structure**

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

- **Occultation**

---

Server Version: 20200619
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### Orbit Structure

[Orbit structure diagram showing GS Acq, Exp. 1, Unused Orbital Visibility = 2994, Reconfig, and Occultation.]
Proposal 16412 - F153M (78) - WFC3 CSM Monitor with Earth Flats

Visit

Proposal 16412, F153M (78)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Thu Aug 13 20:04:15 GMT 2020

Exposures

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Orbit Structure

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

Server Version: 20200619
# Proposal 16412 - F153M (79) - WFC3 CSM Monitor with Earth Flats

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**Orbit Structure**

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

Server Version: 20200619
### Proposal 16412 - F153M (80) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 16412, F153M (80)
- 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: 20200619**
## Proposal 16412 - F153M (81) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 16412, F153M (81)
- 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: 20200619*
Visit
Proposal 16412, F153M (82)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Server Version: 20200619
## Visit Details

**Proposal 16412, F153M (83)**

- **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**

The orbit structure shows an occultation event. The Server Version is 20200619.
### Proposal 16412 - F153M (84) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 16412, F153M (84)
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Exposures**

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**Orbit Structure**

Server Version: 20200619

Unused Orbital Visibility = 2994

Exp. 1

Occultation

[Graph showing orbit structure with GS Acq, Exp. 1, and Occultation]
### Proposal 16412 - F153M (85) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 16412, F153M (85)
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Exposures**

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### Orbit Structure

Server Version: 20200619

- Unused Orbital Visibility = 2994
- Reconfig
- Occultation
Proposal 16412 - F153M (86) - WFC3 CSM Monitor with Earth Flats

Visit

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Orbit Structure

Server Version: 20200619
### Visit

**Proposal 16412, 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: 20200619
Proposal 16412 - F153M (88) - 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: 20200619**
- **Occultation**
Proposal 16412 - F153M (89) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (89)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Server Version: 20200619
### Visit

**Proposal 16412, F153M (90)**

- **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**: Reconfig
- **Occultation**

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**Proposal 16412 - F153M (90) - WFC3 CSM Monitor with Earth Flats**

**Server Version: 20200619**
Proposal 16412 - F153M (91) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (91)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

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### Orbit Structure

Server Version: 20200619

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

Server Version: 20200619
Proposal 16412 - F153M (93) - WFC3 CSM Monitor with Earth Flats

Visit

Proposal 16412, F153M (93)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Server Version: 20200619
### Proposal 16412 - F153M (94) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 16412, F153M (94)
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Exposures**

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**Orbit Structure**

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

Server Version: 20200619
Proposal 16412 - F153M (95) - WFC3 CSM Monitor with Earth Flats

Visit
- Proposal 16412, F153M (95)
- 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: 20200619
**Proposal 16412 - F153M (96) - WFC3 CSM Monitor with Earth Flats**

**Visit**
- Proposal 16412, F153M (96)
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Exposures**

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**Orbit Structure**

[Orbit Diagram Showing Exposures and Visibility]

Server Version: 20200619
Proposal 16412 - F153M (97) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (97)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

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Visit Structure

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

Server Version: 20200619
## Proposal 16412 - F153M (98) - WFC3 CSM Monitor with Earth Flats

**Visit**

- **Proposal 16412, F153M (98)**
- **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: 20200619
### Exposures

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### Orbit Structure

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

Server Version: 20200619
Proposal 16412 - F153M (0A) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (0A)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Thu Aug 13 20:04:16 GMT 2020

Exposures

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Orbit Structure

Unused Orbital Visibility = 2994
Reconfig

Occultation

Server Version: 20200619
## Proposal 16412 - F153M (0B) - WFC3 CSM Monitor with Earth Flats

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**Visit**
- Proposal 16412, F153M (0B)
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Exposures**

**Orbit Structure**

**Server Version: 20200619**
Proposal 16412 - F153M (0C) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (0C)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Server Version: 20200619
Proposal 16412 - F153M (0D) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (0D)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Thu Aug 13 20:04:16 GMT 2020

Exposures

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Orbit Structure

Server Version: 20200619
Proposal 16412 - F153M (0E) - WFC3 CSM Monitor with Earth Flats

Visit

Proposal 16412, F153M (0E)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Thu Aug 13 20:04:16 GMT 2020

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Orbit Structure

Server Version: 20200619

Orbit 1

GS Acq
Exp. 1
Reconfig
Unused Orbital Visibility = 2994

Occultation
## Proposal 16412 - F153M (0F) - WFC3 CSM Monitor with Earth Flats

### Visit Information
- **Proposal 16412, F153M (0F)**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

### Exposures

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### Orbit Structure

[Orbit Structure Diagram]

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**Server Version: 20200619**
**Visit**

Proposal 16412, F153M (0G)

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

**Exposures**

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**Orbit Structure**

Server Version: 20200619

Unused Orbital Visibility = 2994

Reconfig

Occultation
**Proposal 16412 - F153M (0H) - WFC3 CSM Monitor with Earth Flats**

**Visit**
- Proposal 16412, F153M (0H)
- 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: 20200619
Proposition 16412 - F153M (0I) - WFC3 CSM Monitor with Earth Flats

Visit
Proposition 16412, F153M (0I)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Server Version: 20200619
Proposal 16412 - F153M (0J) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (0J)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Server Version: 20200619

Unused Orbital Visibility = 2994
Reconfig

Occultation

Server Version: 20200619

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## Exposures

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### Orbit Structure

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

*Server Version: 20200619*
Proposal 16412 - F153M (0L) - WFC3 CSM Monitor with Earth Flats

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Orbit Structure

Server Version: 20200619
**Proposal 16412 - F153M (0M) - WFC3 CSM Monitor with Earth Flats**

**Visit**
- Proposal 16412, F153M (0M)
- 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: 20200619*
## Visit

**Proposal 16412, F153M (0N)**

- **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**
**Proposal 16412 - F153M (0O) - WFC3 CSM Monitor with Earth Flats**

Visit
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**Proposal 16412, F153M (0O)**
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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**Orbit Structure**

 unused Orbital Visibility = 2994
Exp. 1
Occultation
**Proposal 16412 - F153M (0P) - WFC3 CSM Monitor with Earth Flats**

**Visit**
- Proposal 16412, F153M (0P)
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Exposures**

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

*Server Version: 20200619*
### Proposal 16412 - F153M (0Q) - WFC3 CSM Monitor with Earth Flats

#### Visit
- **Proposal 16412, F153M (0Q)
- 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: 20200619*
**Visit**

- **Proposal 16412, F153M (0R)**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

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**Exposures**

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**Orbit Structure**

- **Server Version:** 20200619
- **Unused Orbital Visibility:** 2994
- **Exp. 1**
- **Occultation**

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### Proposal 16412 - F153M (0S) - WFC3 CSM Monitor with Earth Flats

#### Visit

**Proposal 16412, F153M (0S)**

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

#### Exposures

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Proposal 16412 - F153M (0T) - WFC3 CSM Monitor with Earth Flats

Visit Proposal 16412, F153M (0T)
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

Server Version: 20200619
### Exposures

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### Orbit Structure

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

Server Version: 20200619
### Visit

**Proposal 16412, F153M (0V)**

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

### Exposures

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### Orbit Structure

- **Server Version:** 20200619

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

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

*Server Version: 20200619*
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### Orbit Structure

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

**Server Version: 20200619**
# Proposal 16412 - F153M (0Y) - WFC3 CSM Monitor with Earth Flats

Visit Proposal 16412, F153M (0Y)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Server Version: 20200619

Unused Orbital Visibility = 2994
Occultation
### Proposal 16412 - F153M (0Z) - WFC3 CSM Monitor with Earth Flats

#### Visit

- **Proposal 16412, F153M (0Z)
- 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

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Server Version: 20200619
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### Orbit Structure

- GS Acq
- Reconfig
- Unused Orbital Visibility = 2994

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**Proposal 16412 - F153M (1A) - WFC3 CSM Monitor with Earth Flats**

- Visit 1
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)
Proposal 16412 - F153M (1B) - 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: 20200619
## Proposal 16412 - F153M (1C) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 16412, F153M (1C)
- 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:** 20200619

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### Proposal 16412 - F153M (1D) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 16412, F153M (1D)
- 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: 20200619

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### Orbit Structure

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

- **Occultation**

**Server Version: 20200619**
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### Orbit Structure

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

Server Version: 20200619
Visit Proposal 16412, F153M (1G)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Unused Orbital Visibility = 2994

Server Version: 20200619

[1]
### Visit

**Proposal 16412, F153M (1H)**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

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**Server Version:** 20200619
## Visit

**Proposal 16412, F153M (I)**

- **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**
# Proposal 16412 - F153M (1J) - WFC3 CSM Monitor with Earth Flats

**Visit**

Proposal 16412, F153M (1J)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

**Exposures**

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**Orbit Structure**

Server Version: 20200619

Occultation

Unused Orbital Visibility = 2994
Proposal 16412 - F153M (1K) - WFC3 CSM Monitor with Earth Flats

Visit

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Orbit Structure

Server Version: 20200619
Visit

**Proposal 16412, F153M (1L)**

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/IR

Special Requirements: (none)

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**Orbit Structure**

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

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*Server Version: 20200619*
### Proposal 16412 - F153M (1M) - WFC3 CSM Monitor with Earth Flats

#### Visit
- Proposal 16412, F153M (1M)
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

#### Exposures

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#### Orbit Structure

![Orbit Structure Diagram](image)

Server Version: 20200619
Proposal 16412 - F153M (1N) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (1N)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Thu Aug 13 20:04:16 GMT 2020

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Orbit Structure

Server Version: 20200619
### Proposal 16412 - F153M (1O) - WFC3 CSM Monitor with Earth Flats

**Visit**

- **Proposal 16412, F153M (1O)**
- **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**

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*Server Version: 20200619*
Visit

Proposal 16412, F153M (1P)

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: 20200619
## Proposal 16412 - F153M (1Q) - WFC3 CSM Monitor with Earth Flats

### Visit

**Proposal 16412, F153M (1Q)**  
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: 20200619**

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152
Proposal 16412 - F153M (1R) - WFC3 CSM Monitor with Earth Flats

Visit Proposal 16412, F153M (1R)
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

Server Version: 20200619

Occultation
## Proposal 16412 - F153M (1S) - WFC3 CSM Monitor with Earth Flats

### Visit

- **Proposal 16412, 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: 20200619**
### Visit

**Proposal 16412, F153M (1T)**

**Diagnostic Status:** No Diagnostics

**Scientific Instruments:** WFC3/IR

**Special Requirements:** (none)

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### Orbit Structure

![Orbit Structure Diagram](server_version: 20200619)
Proposal 16412 - F153M (1U) - WFC3 CSM Monitor with Earth Flats

Visit

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Orbit Structure

Orbit 1

GS Acq

Exp. 1

Reconfig
Unused Orbital Visibility = 2994

Occultation

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**Orbit Structure**

- GS Acq
- Unused Orbital Visibility = 2994
- Reconfig
- Occultation
## Proposal 16412 - F153M (1W) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 16412, F153M (1W)
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

**Current Time:** Thu Aug 13 20:04:17 GMT 2020

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**Orbit Structure**
- Server Version: 20200619
- Unused Orbital Visibility = 2994
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**Orbit Structure**

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

*Server Version: 20200619*
### Visit

**Proposal 16412, F153M (1Y)**

- **Diagnostics 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

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**Server Version:** 20200619
Proposal 16412 - F153M (1Z) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (1Z)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

![Orbit Structure Diagram](image-url)
Proposal 16412 - F153M (2A) - WFC3 CSM Monitor with Earth Flats

Visit Proposal 16412, F153M (2A)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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**Orbit Structure**

Server Version: 20200619
### Visit Information
- **Proposal 16412, F153M (2B)**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

### Exposures

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### Orbit Structure

Server Version: 20200619
Proposal 16412 - F153M (2C) - WFC3 CSM Monitor with Earth Flats

Visit Proposal 16412, F153M (2C)  
Diagnostic Status: No Diagnostics  
Scientific Instruments: WFC3/IR  
Special Requirements: (none)  

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Exposures

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Orbit Structure

Server Version: 20200619
Proposal 16412 - F153M (2D) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (2D)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Server Version: 20200619
Proposal 16412 - F153M (2E) - WFC3 CSM Monitor with Earth Flats

Visit
- Proposal 16412, F153M (2E)
- 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
- Occultation

Server Version: 20200619
## Proposal 16412 - F153M (2F) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 16412, 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: 20200619
Proposal 16412 - F153M (2G) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (2G)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Server Version: 20200619
Visit Proposal 16412, F153M (2H)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Server Version: 20200619
Proposal 16412 - F153M (2I) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (2I)
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: 20200619
Proposal 16412 - F153M (2J) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (2J)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Server Version: 20200619
## Proposal 16412 - F153M (2K) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 16412, F153M (2K)
- 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: 20200619
### Proposal 16412 - F153M (2L) - WFC3 CSM Monitor with Earth Flats

**Visit**

- **Proposal 16412, F153M (2L)**
- **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:** 20200619
## Proposal 16412 - F153M (2M) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 16412, F153M (2M)
- 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

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**Server Version: 20200619**
### Exposures

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### Orbit Structure

![Orbit Diagram](attachment:orbit_diagram.png)

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

Server Version: 20200619
## Visit

**Proposal 16412, F153M (2O)**  
*Diagnostic Status: No Diagnostics*  
*Scientific Instruments: WFC3/IR*  
*Special Requirements: (none)*

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### Orbit Structure

*Server Version: 20200619*

[Graph showing orbit structure with labels: GS Acq, Exp. 1, Reconfig, Unused Orbital Visibility = 2994, Occultation]
## Proposal 16412 - F153M (2P) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 16412, F153M (2P)
- 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:** 20200619
### Proposal 16412 - F153M (2Q) - WFC3 CSM Monitor with Earth Flats

**Visit**

- Proposal 16412, F153M (2Q)
- 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: 20200619

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## Visit

**Proposal 16412, F153M (2R)**

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: 20200619
### Proposal 16412 - F153M (2S) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 16412, 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
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation

Server Version: 20200619
### Visit

**Proposal 16412, F153M (2T)**  
Diagnostic Status: No Diagnostics  
Scientific Instruments: WFC3/IR  
Special Requirements: (none)

**Proposal 16412 - F153M (2T) - WFC3 CSM Monitor with Earth Flats**

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**Orbit Structure**

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

Server Version: 20200619
Proposal 16412 - F153M (2U) - WFC3 CSM Monitor with Earth Flats

Visit Proposal 16412, F153M (2U)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Server Version: 20200619
Proposal 16412 - F153M (2V) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (2V)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Thu Aug 13 20:04:17 GMT 2020

Exposures

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Orbit Structure

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

Occultation

Server Version: 20200619
## Proposal 16412 - F153M (2W) - WFC3 CSM Monitor with Earth Flats

**Visit**

- **Proposal 16412, F153M (2W)**
- **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:** 20200619
### Visit

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### Thu Aug 13 20:04:17 GMT 2020

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#### Orbit Structure

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

Server Version: 20200619
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**Orbit Structure**

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

*Server Version: 20200619*
Proposal 16412 - F153M (2Z) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (2Z)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Server Version: 20200619
## Visit

**Proposal 16412, F153M (3A)**  
**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: 20200619
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**Orbit Structure**

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

**Server Version:** 20200619
Proposal 16412 - F153M (3C) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (3C)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

Exposures

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Orbit Structure

Server Version: 20200619

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

Occultation
**Proposal 16412 - F153M (3D) - WFC3 CSM Monitor with Earth Flats**

**Visit**
- Proposal 16412, F153M (3D)
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

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**Orbit Structure**

Server Version: 20200619

- GS Acq
- Exp. 1
- Reconfig
- Unused Orbital Visibility = 2994
- Occultation
Proposal 16412 - F153M (3E) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (3E)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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Orbit Structure

Server Version: 20200619

unused orbital visibility = 2994

reconfig

Occultation

GS Acq

Exp. 1

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Proposal 16412 - F153M (3F) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (3F)
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: 20200619
Proposal 16412 - F153M (3G) - WFC3 CSM Monitor with Earth Flats

**Visit**
- Proposal 16412, F153M (3G)
  - 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
**Proposal 16412 - F153M (3H) - WFC3 CSM Monitor with Earth Flats**

Visit

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**Orbit Structure**

![Orbit Structure Diagram]

Server Version: 20200619
## Proposal 16412 - F153M (3l) - WFC3 CSM Monitor with Earth Flats

### Visit
- **Proposal 16412, F153M (3l)**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

### Exposures

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### Orbit Structure

![Orbit Structure Diagram]

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

**Server Version: 20200619**
Proposal 16412 - F153M (3J) - WFC3 CSM Monitor with Earth Flats

Visit

- Proposal 16412, F153M (3J)
- 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
### Visit

**Proposal 16412, F153M (3K)**  
**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: 20200619]
### Proposal 16412 - F153M (3L) - WFC3 CSM Monitor with Earth Flats

Visit

- **Proposal 16412, F153M (3L)**
- **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

Server Version: 20200619
## Proposal 16412 - F153M (3M) - WFC3 CSM Monitor with Earth Flats

### Visit
- **Proposal 16412, F153M (3M)**
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

### Exposures

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### Orbit Structure

![Orbit Structure Diagram](image-url)
Proposal 16412 - F153M (3N) - WFC3 CSM Monitor with Earth Flats

Visit
Proposal 16412, F153M (3N)
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/IR
Special Requirements: (none)

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

Occultation

Server Version: 20200619
Proposal 16412 - F153M (3O) - WFC3 CSM Monitor with Earth Flats

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Orbit Structure

Server Version: 20200619
Proposal 16412 - F153M (3P) - WFC3 CSM Monitor with Earth Flats

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Orbit Structure

Server Version: 20200619
Proposal 16412 - F153M (3Q) - WFC3 CSM Monitor with Earth Flats

Visit

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

Exposures

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Orbit Structure

Server Version: 20200619
### Proposal 16412 - F153M (3R) - WFC3 CSM Monitor with Earth Flats

#### Visit
- Proposal 16412, F153M (3R)
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/IR
- Special Requirements: (none)

#### Exposures

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

Server Version: 20200619
**Proposal 16412 - F153M (3S) - WFC3 CSM Monitor with Earth Flats**

**Visit**
- Proposal 16412, F153M (3S)
- 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: 20200619**
Proposal 16412 - F153M (3T) - WFC3 CSM Monitor with Earth Flats

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Server Version: 20200619

Orbit Structure

Unused Orbital Visibility = 2994

Occultation
# Proposal 16412 - F153M (3U) - WFC3 CSM Monitor with Earth Flats

Visit

- Proposal 16412, F153M (3U)
- 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: 20200619**
## Proposal 16412 - F153M (3V) - WFC3 CSM Monitor with Earth Flats

### Visit Overview
- **Proposal 16412, F153M (3V)**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/IR
- **Special Requirements:** (none)

### Exposures

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<td>102.93451 Secs (102.934 Secs)</td>
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### Orbit Structure

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

*Server Version: 20200619*
### Exposures

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### Orbit Structure

Orbit 1
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